Tables de réductions des multitangentes en monotangentes, jusqu'au poids 10.

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Introduction.

Nous nous proposons de regrouper ici des tables de réduction en monotangentes des multitangentes de poids inférieur à 10 . Mais avant, rappelons ce que sont les multitangentes (cf. [**?**] pour plus de détails) .

1 Définition et premières propriétés.

Si $s_1, \cdots, s_r$ sont r entiers strictement positifs vérifiant de plus $s_1 \geq 2$ et $s_r \geq 2$, la multitangente $\mathcal{T}e^{s_1,\cdots,s_r}$ est la fonction méromorphe sur $\mathbb{C}$ définie pour $z \in \mathbb{C} - \mathbb{Z}$ par :

$$\mathcal{T}e^{s_1,\cdots,s_r}(z) = \sum_{-\infty<n_r<\cdots<n_1<+\infty} \frac{1}{(z+n_1)^{s_1}\cdots(z+n_r)^{s_r}} \ .$$

Il n'est pas difficile de voir que les conditions imposées aux entiers $s_1, \cdots, s_r$ sont exactement celles qu'il faut pour assurer la convergence de cette série.

Lorsque $r = 1$, ces fonctions ont été introduites par Eisenstein dans son célèbre article de 1847 pour les besoins de sa théorie des fonctions trigonométriques (cf. [**?**] , voir aussi [**?**] pour une discussion historique) . Le nom de multitangentes provient d'ailleurs de la valeur bien connue que l'on attribue à $\mathcal{T}e^1$: $\forall z \in \mathbb{C} - \mathbb{Z}$, $\mathcal{T}e^1(z) = \dfrac{\pi}{\tan(\pi z)}$. En toute rigueur, ces fonctions devraient plutôt s'appeler des multicotangentes...

Outre le fait que les multitangentes possèdent une table de multiplications internes[1] , ces fonctions vérifient deux propriétés élémentaires :

- $\dfrac{\partial \mathcal{T}e^{s_1,\cdots,s_r}}{\partial z} = -\sum_{k=1}^{r} s_k \mathcal{T}e^{s_1,\cdots,s_{k-1},s_k+1,s_{k+1},\cdots,s_r}$ *(Propriété de dérivalilité) .*
- $\mathcal{T}e^{s_1,\ldots,s_r}(-z) = (-1)^{s_1+\cdots+s_r}\mathcal{T}e^{s_r,\ldots,s_1}(z)$ *(Propriété de parité) .*

2 Multitangentes convergentes et multitangentes divergentes.

Notons seq(Ω) l'ensemble des mots[2] construits sur l'alphabet Ω . Lorsque nous aurons besoin de les nommer, le nom des mots sera noté en gras souligné ; ainsi, nous noterons $\underline{\boldsymbol{\omega}} \in \text{seq}(\Omega)$ pour dire que $\underline{\boldsymbol{\omega}}$ est un mot sur Ω. On notera aussi r la longueur des séquences,

[1] Précisemment, le moule $\mathcal{T}e^\bullet$ des multitangentes est symétr<u>e</u>l (cf [**?**] , [**?**] , [**?**] pour plus de précision et [**?**] pour une autre table de multiplication) .

c'est-à-dire leur nombre de lettres.

Les multitangentes sont définies pour $\underline{\mathbf{s}} \in \mathcal{S}^\star = \{\underline{\mathbf{s}} \in \mathrm{seq}(\mathbb{N}^*)\,;\, s_1 \geq 2 \text{ et } s_r \geq 2\}$. Pour de telles séquences, les multitangentes sont appelés des **multitangentes convergentes**.

Il est naturel de vouloir prolonger leur définition à $\mathrm{seq}(\mathbb{N}^*)$, c'est-à-dire pour des séquences $\underline{\mathbf{s}}$ commencant ou finissant par des 1, voir commencant et finissant simultanément par des 1 . Nous verrons dans un instant que cela est possible. Pour les distinguer des multitangentes convergentes, nous appelerons ces multitangentes des **multitangentes divergentes**.

3 Un lien important entre multizêtas et multitangentes : la réduction des multitangentes en monotangentes.

Rappelons rapidement un des liens fort entre les multitangentes et les multizêtas. Voici alors deux théorèmes concernant les multitangentes :

Théorème 1 : ***Réduction en monotangentes, version 1***

Notons $\mathcal{S}^\star = \{\underline{\mathbf{s}} \in \mathrm{seq}(\mathbb{N}^*)\,;\, s_1 \geq 2 \text{ et } s_r \geq 2\}$.

Pour toutes séquences $\underline{\mathbf{s}} \in \mathcal{S}^\star$ et $\underline{\mathbf{k}} \in \mathrm{seq}(\mathbb{N}^*)$ de même longueur $r \geq 2$, et pour tout $i \in [\![\, 1\,;\, r\,]\!]$, notons :

$$ {}^{i}\mathrm{E}^{\underline{\mathbf{s}}}_{\underline{\mathbf{k}}} = \left(\prod_{l=1}^{i-1} (-1)^{k_l} \right) \left(\prod_{l=i+1}^{r} (-1)^{s_l} \right) \left(\prod_{\substack{l=1 \\ l \neq i}}^{r} \binom{s_l + k_l - 1}{s_l - 1} \right) . $$

$$ \mathcal{Z}^{\underline{\mathbf{s}}}_{i,k} = \sum_{\substack{k_1, \cdots, k_{i-1}, k_{i+1}, \cdots, k_r \geq 0 \\ \sum_{j \neq i} k_j = k}} {}^{i}\mathrm{E}^{\underline{\mathbf{s}}}_{\underline{\mathbf{k}}} \mathcal{Z}e^{s_r + k_r, \cdots, s_{i+1} + k_{i+1}} \mathcal{Z}e^{s_1 + k_1, \cdots, s_{i-1} + k_{i-1}} . $$

Alors, pour toute séquence $\underline{\mathbf{s}} \in \mathcal{S}^\star$, de longueur $r \geq 2$, on a :

$$ \forall z \in \mathbb{C} - \mathbb{Z} \ , \ \mathcal{T}e^{\underline{\mathbf{s}}}(z) = \sum_{i=1}^{r} \sum_{k=2}^{s_i} \mathcal{Z}^{\underline{\mathbf{s}}}_{i, s_i - k} \mathcal{T}e^{k}(z) . $$

Ce sont ces expressions que nous nous proposons de tabuler dans la section suivante, en utilisant les tables de multizêtas réalisée par l'équipe lilloise (cf. [**?**]) .

[2] Rappelons qu'un mot construit sur Ω est une séquence d'éléments de Ω, de longueur quelconque. Ainsi, un mot construit sur Ω est un élément du monoïde libre $\mathrm{seq}(\Omega)$ (qui se note aussi parfois $\Omega^\star$) .

4 Renormalisation des multitangentes divergentes.

Le prolongement des multitangentes de $\mathcal{S}^\star$ à seq($\mathbb{N}^*$) est possible, d'après le théorème de renormalisation suivant :

Théorème 2 : Il existe un prolongement symétr*e*l à seq($\mathbb{N}^*$) du moule $\mathcal{T}e^\bullet$, vérifiant :

$$\forall z \in \mathbb{C} - \mathbb{Z} \ , \ \mathcal{T}e^1(z) = \frac{\pi}{\tan(\pi z)} \quad .$$

Enfin, pour finir ces rappels sur les multitangentes, notons que ce prolongement vérifie automatiquement trois propriétés importantes :

Propriété : 1. Le prolongement de $\mathcal{T}e^\bullet$ à seq($\mathbb{N}^*$) vérifie naturellement les propriétés de différentiatibilité et de parité :

$$\forall \underline{\mathbf{s}} \in \text{seq}(\mathbb{N}^*) \ , \quad \frac{\partial \mathcal{T}e^{s_1,\cdots,s_r}}{\partial z} = -\sum_{k=1}^{r} s_k \mathcal{T}e^{s_1,\cdots,s_{k-1},s_k+1,s_{k+1},\cdots,s_r} \quad .$$

$$\forall \underline{\mathbf{s}} \in \text{seq}(\mathbb{N}^*) \ , \quad \mathcal{T}e^{s_1,\cdots,s_r}(-z) = (-1)^{s_1+\cdots+s_r} \mathcal{T}e^{s_r,\cdots,s_1}(z) \quad .$$

2. Le prolongement de $\mathcal{T}e^\bullet$ à seq($\mathbb{N}^*$) possède aussi une réduction en monotangente (étendant celle des multitangentes convergentes à une petite correction $\delta^{\underline{\mathbf{s}}}$ près) :

$$\forall \underline{\mathbf{s}} \in \text{seq}(\mathbb{N}^*) \ , \ \mathcal{T}e^{\underline{\mathbf{s}}}(z) = \delta^{\underline{\mathbf{s}}} + \sum_{i=1}^{r} \sum_{k=1}^{s_i} \mathcal{Z}^{\underline{\mathbf{s}}}_{i,s_i-k} \mathcal{T}e^k(z) \ ,$$

où : ${}^i\mathrm{E}^{\underline{\mathbf{s}}}_{\underline{\mathbf{k}}}$ et $\mathcal{Z}^{\underline{\mathbf{s}}}_{i,k}$ sont les quantités définies au théorème 2.

$$\forall \underline{\mathbf{s}} \in \text{seq}(\mathbb{N}^*) \ , \ \delta^{\underline{\mathbf{s}}} = \begin{cases} \dfrac{(i\pi)^r}{r!} & \text{, si } \underline{\mathbf{s}} = 1^{[r]} \text{ et si } r \text{ est pair.} \\ 0 & \text{, sinon.} \end{cases} \quad .$$

Remarquons que cette fois, l'indice k commence non plus à 2 comme précédement, mais à 1. En fait, cela sera le cas uniquement lorsque $\underline{\mathbf{s}} = 1^{[r]}$ avec r impair.

Première partie

Table de multitangentes, avec des multizêtas réduits.

Table des multitangentes convergentes, jusqu'au poids 10 .

1 Poids 4.

$$\mathcal{T}e^{2,2} = 2\zeta(2)\mathcal{T}e^2 \ .$$

2 Poids 5.

$$\mathcal{T}e^{2,3} = -3\,\zeta(3)\mathcal{T}e^2 + \zeta(2)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2} = 3\,\zeta(3)\mathcal{T}e^2 + \zeta(2)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2} = 0 \ .$$

3 Poids 6.

$$\mathcal{T}e^{2,4} = \frac{8}{5}\,\zeta(2)^2\mathcal{T}e^2 - 2\zeta(3)\mathcal{T}e^3 + \zeta(2)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,3} = -\frac{12}{5}\,\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{4,2} = \frac{8}{5}\,\zeta(2)^2\mathcal{T}e^2 + 2\zeta(3)\mathcal{T}e^3 + \zeta(2)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,2,2} = \frac{8}{5}\,\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,3} = -\frac{2}{5}\zeta(2)^2\mathcal{T}e^2 + \zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2} = -\frac{2}{5}\zeta(2)^2\mathcal{T}e^2 - \zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,2} = \frac{4}{5}\zeta(2)^2\mathcal{T}e^2 \ .$$

4 Poids 7.

$$\mathcal{T}e^{2,5} = -5\,\zeta(5)\mathcal{T}e^2 + \frac{6}{5}\zeta(2)^2\mathcal{T}e^3 - 2\zeta(3)\mathcal{T}e^4 + \zeta(2)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{3,4} = 10\,\zeta(5)\mathcal{T}e^2 - \frac{4}{5}\zeta(2)^2\mathcal{T}e^3 + \zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,3} = -10\,\zeta(5)\mathcal{T}e^2 - \frac{4}{5}\zeta(2)^2\mathcal{T}e^3 - \zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,2} = 5\,\zeta(5)\mathcal{T}e^2 + \frac{6}{5}\zeta(2)^2\mathcal{T}e^3 + 2\zeta(3)\mathcal{T}e^4 + \zeta(2)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{2,3,2} = \zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,3} = \left(\frac{15}{2}\zeta(5) - 6\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 + \frac{3}{10}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,4} = \left(-\frac{5}{2}\zeta(5) + 2\zeta(2)\zeta(3)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^3 + \zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,2,2} = \left(-\frac{15}{2}\zeta(5) + 6\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 + \frac{3}{10}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,3} = \frac{1}{5}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,2} = \left(\frac{5}{2}\zeta(5) - 2\zeta(2)\zeta(3)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^3 - \zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,2,2} = (10\,\zeta(5) - 4\,\zeta(2)\zeta(3))\,\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,2} = (-10\,\zeta(5) + 4\,\zeta(2)\zeta(3))\,\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,3} = (-5\,\zeta(5) + 2\,\zeta(2)\zeta(3))\,\mathcal{T}e^2 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,2} = (5\,\zeta(5) - 2\,\zeta(2)\zeta(3))\,\mathcal{T}e^2 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,2} = 0 \ .$$

5 Poids 8.

$$\mathcal{T}e^{2,6} = \frac{48}{35}\,\zeta(2)^3\mathcal{T}e^2 - 4\,\zeta(5)\mathcal{T}e^3 + \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^4 - 2\,\zeta(3)\mathcal{T}e^5 + \zeta(2)\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{3,5} = -\frac{24}{7}\,\zeta(2)^3\mathcal{T}e^2 + 5\,\zeta(5)\mathcal{T}e^3 - \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^4 + \zeta(3)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{4,4} = \frac{32}{7}\,\zeta(2)^3\mathcal{T}e^2 + \frac{4}{5}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,3} = -\frac{24}{7}\,\zeta(2)^3\mathcal{T}e^2 - 5\,\zeta(5)\mathcal{T}e^3 - \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^4 - \zeta(3)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{6,2} = \frac{48}{35}\,\zeta(2)^3\mathcal{T}e^2 + 4\,\zeta(5)\mathcal{T}e^3 + \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^4 + 2\,\zeta(3)\mathcal{T}e^5 + \zeta(2)\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{2,4,2} = \left(\frac{352}{105}\,\zeta(2)^3 - 6\,\zeta(3)^2\right)\mathcal{T}e^2 + \zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,3,3} = \left(-\frac{88}{35}\,\zeta(2)^3 + \frac{9}{2}\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(\frac{9}{2}\,\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,4} = \left(\frac{16}{105}\,\zeta(2)^3 + 3\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(2\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{3}{10}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,1,5} = \ & \left(\frac{16}{105}\,\zeta(2)^3 - \frac{3}{2}\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\frac{1}{2}\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^3 \\ & -\frac{1}{2}\,\zeta(2)^2\mathcal{T}e^4 + \zeta(3)\mathcal{T}e^5 \ .\end{aligned}$$

$$\mathcal{T}e^{3,3,2} = \left(-\frac{88}{35}\,\zeta(2)^3 + \frac{9}{2}\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\frac{9}{2}\,\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,3} = \left(\frac{16}{7}\,\zeta(2)^3 - 9\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,4} = \left(\frac{3}{2}\,\zeta(3)^2 - \frac{8}{21}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(-\frac{5}{2}\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{1}{10}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,2,2} = \left(\frac{16}{105}\,\zeta(2)^3 + 3\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(-2\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{3}{10}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,1,3} = \left(\frac{3}{2}\,\zeta(3)^2 - \frac{8}{21}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(\frac{5}{2}\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{1}{10}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,1,2} = \left(\frac{16}{105}\,\zeta(2)^3 - \frac{3}{2}\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(\frac{1}{2}\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^3$$
$$-\frac{1}{2}\,\zeta(2)^2\mathcal{T}e^4 - \zeta(3)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{2,1,3,2} = \left(-\frac{19}{105}\,\zeta(2)^3 + \frac{3}{2}\,\zeta(3)^2\right)\mathcal{T}e^2 + \zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,2,2} = \frac{24}{35}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,3,1,2} = \left(-\frac{19}{105}\,\zeta(2)^3 + \frac{3}{2}\,\zeta(3)^2\right)\mathcal{T}e^2 - \zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,3} = \left(-\frac{173}{105}\,\zeta(2)^3 + 3\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(\frac{9}{2}\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,1,3} = \left(\frac{52}{35}\,\zeta(2)^3 - \frac{9}{2}\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\frac{11}{2}\,\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,4} = \left(-\frac{3}{2}\,\zeta(3)^2 + \frac{79}{105}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(-3\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,1,2,2} = \left(\frac{52}{35}\,\zeta(2)^3 - \frac{9}{2}\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(\frac{11}{2}\,\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,2} = \left(-\frac{173}{105}\,\zeta(2)^3 + 3\,\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\frac{9}{2}\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,3} = \left(3\,\zeta(3)^2 - \frac{22}{21}\,\zeta(2)^3\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{4,1,1,2} = \left(-\frac{3}{2}\,\zeta(3)^2 + \frac{79}{105}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(3\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,1,2,2} = \frac{4}{7}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,2} = -\frac{8}{35}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,2} = \frac{4}{7}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,3} = -\frac{8}{35}\,\zeta(2)^3\mathcal{T}e^2 + \zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,1,2} = -\frac{8}{35}\,\zeta(2)^3\mathcal{T}e^2 - \zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,2} = \frac{16}{35}\,\zeta(2)^3\mathcal{T}e^2\ .$$

6 Poids 9.

$$\mathcal{T}e^{2,7} = -7\,\zeta(7)\mathcal{T}e^2 + \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^3 - 4\,\zeta(5)\mathcal{T}e^4 + \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^5 - 2\,\zeta(3)\mathcal{T}e^6 + \zeta(2)\mathcal{T}e^7\ .$$

$$\mathcal{T}e^{3,6} = 21\,\zeta(7)\mathcal{T}e^2 - \frac{72}{35}\,\zeta(2)^3\mathcal{T}e^3 + 6\,\zeta(5)\mathcal{T}e^4 - \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^5 + \zeta(3)\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{4,5} = -35\,\zeta(7)\mathcal{T}e^2 + \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^3 - 5\,\zeta(5)\mathcal{T}e^4 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{5,4} = 35\,\zeta(7)\mathcal{T}e^2 + \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^3 + 5\,\zeta(5)\mathcal{T}e^4 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{6,3} = -21\,\zeta(7)\mathcal{T}e^2 - \frac{72}{35}\,\zeta(2)^3\mathcal{T}e^3 - 6\,\zeta(5)\mathcal{T}e^4 - \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^5 - \zeta(3)\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{7,2} = 7\,\zeta(7)\mathcal{T}e^2 + \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^3 + 4\,\zeta(5)\mathcal{T}e^4 + \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^5 + 2\,\zeta(3)\mathcal{T}e^6 + \zeta(2)\mathcal{T}e^7\ .$$

$$\mathcal{T}e^{2,5,2} = \left(\frac{12}{5}\,\zeta(2)^3 - 4\,\zeta(3)^2\right)\mathcal{T}e^3 + \zeta(2)^2\mathcal{T}e^5\ .$$

$$\begin{aligned}\mathcal{T}e^{2,4,3} = {} & \left(14\,\zeta(7) - 20\,\zeta(2)\zeta(5) + \frac{16}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(-\frac{76}{105}\,\zeta(2)^3 + \zeta(3)^2\right)\mathcal{T}e^3 \\ & - \zeta(2)\zeta(3)\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,4} = {} & \left(-14\,\zeta(7) - \frac{16}{5}\,\zeta(3)\zeta(2)^2 + 20\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{4}{5}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^3 \\ & + \left(\frac{9}{2}\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,5} = {} & \left(21\,\zeta(7) - 10\,\zeta(2)\zeta(5) - \frac{16}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 + \frac{2}{35}\,\zeta(2)^3\right)\mathcal{T}e^3 \\ & + \left(2\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{3}{10}\,\zeta(2)^2\mathcal{T}e^5\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,6} = {} & \left(-7\,\zeta(7) + 2\,\zeta(2)\zeta(5) + \frac{8}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(-\frac{2}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\ & + \left(-\frac{1}{2}\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \frac{1}{2}\,\zeta(2)^2\mathcal{T}e^5 + \zeta(3)\mathcal{T}e^6\ .\end{aligned}$$

$$\mathcal{T}e^{3,4,2} = \left(-14\,\zeta(7) - \frac{16}{5}\,\zeta(3)\zeta(2)^2 + 20\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{76}{105}\,\zeta(2)^3 + \zeta(3)^2\right)\mathcal{T}e^3 + \zeta(2)\zeta(3)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,3,3} = -\frac{8}{35}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,4} = \left(-28\,\zeta(7) + \frac{48}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(-3\,\zeta(3)^2 + \frac{88}{105}\,\zeta(2)^3\right)\mathcal{T}e^3 + \left(-\frac{11}{2}\,\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,1,5} = \left(-\frac{12}{5}\,\zeta(3)\zeta(2)^2 + 7\,\zeta(7)\right)\mathcal{T}e^2 + \frac{6}{35}\,\zeta(2)^3\mathcal{T}e^3 - \frac{1}{2}\,\zeta(5)\mathcal{T}e^4 + \frac{1}{10}\,\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{4,3,2} = \left(14\,\zeta(7) - 20\,\zeta(2)\zeta(5) + \frac{16}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(-\frac{4}{5}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^3 + \left(-\frac{9}{2}\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,2,3} = \left(28\,\zeta(7) - \frac{48}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(-3\,\zeta(3)^2 + \frac{88}{105}\,\zeta(2)^3\right)\mathcal{T}e^3 + \left(\frac{11}{2}\,\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,4} = \left(2\,\zeta(3)^2 - \frac{16}{21}\,\zeta(2)^3\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{5,2,2} = \left(-21\,\zeta(7) + 10\,\zeta(2)\zeta(5) + \frac{16}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 + \frac{2}{35}\,\zeta(2)^3\right)\mathcal{T}e^3 + \left(-2\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{3}{10}\,\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{5,1,3} = \left(\frac{12}{5}\,\zeta(3)\zeta(2)^2 - 7\,\zeta(7)\right)\mathcal{T}e^2 + \frac{6}{35}\,\zeta(2)^3\mathcal{T}e^3 + \frac{1}{2}\,\zeta(5)\mathcal{T}e^4 + \frac{1}{10}\,\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{6,1,2} = \left(7\,\zeta(7) - 2\,\zeta(2)\zeta(5) - \frac{8}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(-\frac{2}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 + \left(\frac{1}{2}\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \frac{1}{2}\,\zeta(2)^2\mathcal{T}e^5 - \zeta(3)\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{2,1,4,2} = \left(\frac{231}{16}\,\zeta(7) - 11\,\zeta(2)\zeta(5) + \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{1}{2}\,\zeta(2)^3\right)\mathcal{T}e^3 + \zeta(2)\zeta(3)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,2,3,2} = \left(-\frac{441}{16}\,\zeta(7) + 15\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{3}{10}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,2,2} = \left(\frac{441}{16}\,\zeta(7) - 15\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{3}{10}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,4,1,2} = \left(-\frac{231}{16}\,\zeta(7) + 11\,\zeta(2)\zeta(5) - \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{1}{2}\,\zeta(2)^3\right)\mathcal{T}e^3 - \zeta(2)\zeta(3)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,3,3} = \left(-\frac{189}{16}\,\zeta(7) + 9\,\zeta(2)\zeta(5) - \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 - \frac{13}{70}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,2,3} = \left(-\frac{189}{16}\,\zeta(7) + 15\,\zeta(2)\zeta(5) - \frac{24}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \frac{3}{70}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,1,3} = \left(-\frac{63}{16}\,\zeta(7) + \frac{6}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\frac{127}{210}\,\zeta(2)^3 - \frac{3}{2}\,\zeta(3)^2\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,2,4} = \left(\frac{483}{16}\,\zeta(7) - 11\,\zeta(2)\zeta(5) - \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\zeta(3)^2 - \frac{143}{210}\,\zeta(2)^3\right)\mathcal{T}e^3 + \left(\frac{9}{2}\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,2,1,4} = \left(-\frac{189}{16}\,\zeta(7) - 5\,\zeta(2)\zeta(5) + \frac{32}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\frac{37}{42}\,\zeta(2)^3 - 3\,\zeta(3)^2\right)\mathcal{T}e^3 + \left(-\frac{11}{2}\,\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,1,5} = \left(-\frac{189}{16}\,\zeta(7) + 4\,\zeta(2)\zeta(5) + \frac{6}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(-\frac{1}{2}\,\zeta(3)^2 + \frac{89}{210}\,\zeta(2)^3\right)\mathcal{T}e^3 + \left(-3\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{3,1,3,2} = \left(\frac{63}{16}\,\zeta(7) - \frac{6}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\frac{127}{210}\,\zeta(2)^3 - \frac{3}{2}\,\zeta(3)^2\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,2,2} = \left(\frac{189}{16}\,\zeta(7) - 15\,\zeta(2)\zeta(5) + \frac{24}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \frac{3}{70}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,3,1,2} = \left(\frac{189}{16}\,\zeta(7) - 9\,\zeta(2)\zeta(5) + \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 - \frac{13}{70}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,2,3} = \left(-\frac{441}{16}\,\zeta(7) + \frac{42}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\frac{3}{2}\,\zeta(3)^2 - \frac{97}{210}\,\zeta(2)^3\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,1,3} = \left(\frac{441}{16}\,\zeta(7) - \frac{42}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\frac{3}{2}\,\zeta(3)^2 - \frac{97}{210}\,\zeta(2)^3\right)\mathcal{T}e^3\ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,4} = &\left(-\frac{22}{5}\,\zeta(3)\zeta(2)^2 + \frac{231}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{41}{210}\,\zeta(2)^3\right)\mathcal{T}e^3\\ &+ \left(2\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,1,2,2} = &\left(\frac{189}{16}\,\zeta(7) + 5\,\zeta(2)\zeta(5) - \frac{32}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\frac{37}{42}\,\zeta(2)^3 - 3\,\zeta(3)^2\right)\mathcal{T}e^3\\ &+ \left(\frac{11}{2}\,\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,2,1,2} = &\left(-\frac{483}{16}\,\zeta(7) + 11\,\zeta(2)\zeta(5) + \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\zeta(3)^2 - \frac{143}{210}\,\zeta(2)^3\right)\mathcal{T}e^3\\ &+ \left(-\frac{9}{2}\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,3} = &\left(\frac{22}{5}\,\zeta(3)\zeta(2)^2 - \frac{231}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{41}{210}\,\zeta(2)^3\right)\mathcal{T}e^3\\ &+\ \left(-2\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,1,1,2} = &\left(\frac{189}{16}\,\zeta(7) - 4\,\zeta(2)\zeta(5) - \frac{6}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(-\frac{1}{2}\,\zeta(3)^2 + \frac{89}{210}\,\zeta(2)^3\right)\mathcal{T}e^3\\ &+ \left(3\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^5\ .\end{aligned}$$

$$\mathcal{T}e^{2,1,1,3,2} = \left(7\,\zeta(7) - 11\,\zeta(2)\zeta(5) + 4\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \frac{2}{5}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,2,2,2} = \left(-28\,\zeta(7) + 24\,\zeta(2)\zeta(5) - \frac{16}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,1,3,1,2} = -\zeta(3)^2\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,1,2,2} = 0\ .$$

$$\mathcal{T}e^{2,2,2,1,2} = \left(28\,\zeta(7) - 24\,\zeta(2)\zeta(5) + \frac{16}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,3,1,1,2} = \left(-7\,\zeta(7) + 11\,\zeta(2)\zeta(5) - 4\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \frac{2}{5}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,2,3} = \left(21\,\zeta(7) - \frac{8}{5}\,\zeta(3)\zeta(2)^2 - 11\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\zeta(3)^2 + \frac{10}{21}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,1,3} = \left(-\frac{2}{5}\,\zeta(3)\zeta(2)^2 - 14\,\zeta(7) + 9\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{4}{35}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,1,1,3} = \left(\frac{4}{5}\,\zeta(3)\zeta(2)^2 + 14\,\zeta(7) - 10\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\zeta(3)^2 - \frac{32}{105}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,1,4} = \ & \left(-7\,\zeta(7) + 4\,\zeta(2)\zeta(5) + \frac{2}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{2}{5}\,\zeta(2)^3\right)\mathcal{T}e^3 \\ & + \zeta(5)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{3,1,1,2,2} = \left(-\frac{4}{5}\,\zeta(3)\zeta(2)^2 - 14\,\zeta(7) + 10\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\zeta(3)^2 - \frac{32}{105}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2,1,2} = \left(\frac{2}{5}\,\zeta(3)\zeta(2)^2 + 14\,\zeta(7) - 9\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{4}{35}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,1,2} = \left(-21\,\zeta(7) + \frac{8}{5}\,\zeta(3)\zeta(2)^2 + 11\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\zeta(3)^2 + \frac{10}{21}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,1,3} = \left(-\zeta(3)^2 + \frac{12}{35}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,1,2} = \ & \left(7\,\zeta(7) - 4\,\zeta(2)\zeta(5) - \frac{2}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{2}{5}\,\zeta(2)^3\right)\mathcal{T}e^3 \\ & - \zeta(5)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,1,1,2,2} = \left(21\,\zeta(7) - 8\,\zeta(2)\zeta(5) - \frac{8}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,2,1,2} = \left(-35\,\zeta(7) + 20\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,1,2} = \left(35\,\zeta(7) - 20\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,1,2} = \left(-21\,\zeta(7) + 8\,\zeta(2)\zeta(5) + \frac{8}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,3} = \left(-7\,\zeta(7) + 2\,\zeta(2)\zeta(5) + \frac{4}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \frac{8}{35}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,1,1,2} = \left(7\,\zeta(7) - 2\,\zeta(2)\zeta(5) - \frac{4}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^2 + \frac{8}{35}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,2} = 0 \ .$$

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$$\begin{aligned}\mathcal{T}e^{2,8} = \ & \frac{192}{175}\,\zeta(2)^4\mathcal{T}e^2 - 6\,\zeta(7)\mathcal{T}e^3 + \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^4 - 4\,\zeta(5)\mathcal{T}e^5 + \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^6 - 2\,\zeta(3)\mathcal{T}e^7 \\ & + \zeta(2)\mathcal{T}e^8 \ .\end{aligned}$$

$$\mathcal{T}e^{3,7} = -\frac{96}{25}\,\zeta(2)^4\mathcal{T}e^2 + 14\,\zeta(7)\mathcal{T}e^3 - \frac{16}{7}\,\zeta(2)^3\mathcal{T}e^4 + 6\,\zeta(5)\mathcal{T}e^5 - \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^6 + \zeta(3)\mathcal{T}e^7 \ .$$

$$\mathcal{T}e^{4,6} = \frac{192}{25}\,\zeta(2)^4\mathcal{T}e^2 - 14\,\zeta(7)\mathcal{T}e^3 + \frac{88}{35}\,\zeta(2)^3\mathcal{T}e^4 - 4\,\zeta(5)\mathcal{T}e^5 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{5,5} = -\frac{48}{5}\,\zeta(2)^4\mathcal{T}e^2 - \frac{16}{7}\,\zeta(2)^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{6,4} = \frac{192}{25}\,\zeta(2)^4\mathcal{T}e^2 + 14\,\zeta(7)\mathcal{T}e^3 + \frac{88}{35}\,\zeta(2)^3\mathcal{T}e^4 + 4\,\zeta(5)\mathcal{T}e^5 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{7,3} = -\frac{96}{25}\,\zeta(2)^4\mathcal{T}e^2 - 14\,\zeta(7)\mathcal{T}e^3 - \frac{16}{7}\,\zeta(2)^3\mathcal{T}e^4 - 6\,\zeta(5)\mathcal{T}e^5 - \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^6 - \zeta(3)\mathcal{T}e^7 \ .$$

$$\begin{aligned}\mathcal{T}e^{8,2} = \ & \frac{192}{175}\,\zeta(2)^4\mathcal{T}e^2 + 6\,\zeta(7)\mathcal{T}e^3 + \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^4 + 4\,\zeta(5)\mathcal{T}e^5 + \frac{6}{5}\,\zeta(2)^2\mathcal{T}e^6 + 2\,\zeta(3)\mathcal{T}e^7 \\ & + \zeta(2)\mathcal{T}e^8 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,6,2} = \ & \left(\frac{684}{175}\,\zeta(2)^4 - 2\,\zeta\,(6,2) - 16\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{12}{5}\,\zeta(2)^3 - 4\,\zeta(3)^2\right)\mathcal{T}e^4 \\ & + \zeta(2)^2\mathcal{T}e^6 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,5,3} = \ & \left(-\frac{171}{35}\,\zeta(2)^4 + \frac{5}{2}\,\zeta\,(6,2) + 20\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\ & + \left(10\,\zeta(7) - 10\,\zeta(2)\zeta(5) + \frac{2}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\frac{6}{5}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^4 \\ & - \zeta(2)\zeta(3)\mathcal{T}e^5 \ .\end{aligned}$$

$$\mathcal{T}e^{2,4,4} = \left(\frac{1636}{175}\,\zeta(2)^4 - 40\,\zeta(3)\zeta(5) + 10\,\zeta\,(6,2)\right)\mathcal{T}e^2 + \left(-4\,\zeta(7) + \frac{8}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3$$
$$+ \left(\frac{92}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,3,5} = \left(-\frac{1413}{175}\,\zeta(2)^4 - \frac{25}{2}\,\zeta\,(6,2) + 35\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+ \left(3\,\zeta(7) + 5\,\zeta(2)\zeta(5) - \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\frac{6}{5}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^4$$
$$+ \left(\frac{9}{2}\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{2,2,6} = \left(-\frac{54}{175}\,\zeta(2)^4 + \zeta\,(6,2) + 8\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+ \left(10\,\zeta(7) - 4\,\zeta(2)\zeta(5) - \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 + \frac{2}{35}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+ \left(2\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{3}{10}\,\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{2,1,7} = \left(\zeta\,(6,2) + \frac{34}{35}\,\zeta(2)^4 - 7\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+ \left(-4\,\zeta(7) + \zeta(2)\zeta(5) + \frac{6}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\frac{2}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4$$
$$+ \left(-\frac{1}{2}\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^5 - \frac{1}{2}\,\zeta(2)^2\mathcal{T}e^6 + \zeta(3)\mathcal{T}e^7\ .$$

$$\mathcal{T}e^{3,5,2} = \left(-\frac{171}{35}\,\zeta(2)^4 + \frac{5}{2}\,\zeta\,(6,2) + 20\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+ \left(-10\,\zeta(7) + 10\,\zeta(2)\zeta(5) - \frac{2}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\frac{6}{5}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^4$$
$$+ \zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{3,4,3} = \left(-\frac{744}{175}\,\zeta(2)^4 - 20\,\zeta\,(6,2) + 20\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,3,4} = \left(\frac{372}{175}\,\zeta(2)^4 + 10\,\zeta\,(6,2) - 10\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+ \left(-\frac{4}{5}\,\zeta(3)\zeta(2)^2 - 14\,\zeta(7) + 10\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{4}{35}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$
\begin{aligned}
\mathcal{T}e^{3,2,5} = & \left(\frac{1548}{175}\,\zeta(2)^4 + 10\,\zeta\,(6,2) - 55\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(\frac{26}{5}\,\zeta(3)\zeta(2)^2 - 7\,\zeta(7) - 5\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-4\,\zeta(3)^2 + \frac{8}{7}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(-\frac{11}{2}\,\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5 \ . \\
\mathcal{T}e^{3,1,6} = & \left(-\frac{7}{2}\,\zeta\,(6,2) + 17\,\zeta(3)\zeta(5) - \frac{69}{25}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(-\frac{4}{5}\,\zeta(3)\zeta(2)^2 + \zeta(2)\zeta(5)\right)\mathcal{T}e^3 \\
& + \frac{1}{2}\,\zeta(3)^2\mathcal{T}e^4 - \frac{1}{2}\,\zeta(5)\mathcal{T}e^5 + \frac{1}{10}\,\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{4,4,2} = & \left(\frac{1636}{175}\,\zeta(2)^4 - 40\,\zeta(3)\zeta(5) + 10\,\zeta\,(6,2)\right)\mathcal{T}e^2 + \left(4\,\zeta(7) - \frac{8}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 \\
& + \left(\frac{92}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 \ . \\
\mathcal{T}e^{4,3,3} = & \left(\frac{372}{175}\,\zeta(2)^4 + 10\,\zeta\,(6,2) - 10\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(\frac{4}{5}\,\zeta(3)\zeta(2)^2 + 14\,\zeta(7) - 10\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{4}{35}\,\zeta(2)^3\right)\mathcal{T}e^4 \ . \\
\mathcal{T}e^{4,2,4} = & \left(-\frac{2312}{175}\,\zeta(2)^4 - 20\,\zeta\,(6,2) + 80\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{64}{105}\,\zeta(2)^3\right)\mathcal{T}e^4 \ . \\
\mathcal{T}e^{4,1,5} = & \left(\frac{289}{175}\,\zeta(2)^4 + \frac{5}{2}\,\zeta\,(6,2) - 10\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(7\,\zeta(7) - 2\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 \\
& + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{22}{105}\,\zeta(2)^3\right)\mathcal{T}e^4 + \left(2\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^5 \ . \\
\mathcal{T}e^{5,3,2} = & \left(-\frac{1413}{175}\,\zeta(2)^4 - \frac{25}{2}\,\zeta\,(6,2) + 35\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(-3\,\zeta(7) - 5\,\zeta(2)\zeta(5) + \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\frac{6}{5}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^4 \\
& + \left(-\frac{9}{2}\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{5,2,3} = & \left(\frac{1548}{175}\,\zeta(2)^4 + 10\,\zeta\,(6,2) - 55\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(-\frac{26}{5}\,\zeta(3)\zeta(2)^2 + 7\,\zeta(7) + 5\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-4\,\zeta(3)^2 + \frac{8}{7}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(\frac{11}{2}\,\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5 \ . \\
\mathcal{T}e^{5,1,4} = & \left(\frac{289}{175}\,\zeta(2)^4 + \frac{5}{2}\,\zeta\,(6,2) - 10\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-7\,\zeta(7) + 2\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 \\
& + \left(\frac{1}{2}\,\zeta(3)^2 - \frac{22}{105}\,\zeta(2)^3\right)\mathcal{T}e^4 + \left(-2\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^5 \ . \\
\mathcal{T}e^{6,2,2} = & \left(-\frac{54}{175}\,\zeta(2)^4 + \zeta\,(6,2) + 8\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(-10\,\zeta(7) + 4\,\zeta(2)\zeta(5) + \frac{12}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 + \frac{2}{35}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \ \left(-2\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{3}{10}\,\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{6,1,3} = & \left(-\frac{7}{2}\,\zeta\,(6,2) + 17\,\zeta(3)\zeta(5) - \frac{69}{25}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\frac{4}{5}\,\zeta(3)\zeta(2)^2 - \zeta(2)\zeta(5)\right)\mathcal{T}e^3 \\
& + \frac{1}{2}\,\zeta(3)^2\mathcal{T}e^4 + \frac{1}{2}\,\zeta(5)\mathcal{T}e^5 + \frac{1}{10}\,\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{7,1,2} = & \left(\zeta\,(6,2) + \frac{34}{35}\,\zeta(2)^4 - 7\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(4\,\zeta(7) - \zeta(2)\zeta(5) - \frac{6}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 \\
& + \left(-\frac{2}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 + \left(\frac{1}{2}\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^5 \\
& - \frac{1}{2}\,\zeta(2)^2\mathcal{T}e^6 - \zeta(3)\mathcal{T}e^7 \ . \\
\mathcal{T}e^{2,1,5,2} = & \left(-\frac{3}{4}\,\zeta\,(6,2) - \frac{91}{150}\,\zeta(2)^4 + \frac{3}{2}\,\zeta(3)\zeta(5) + 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(-\frac{1}{2}\,\zeta(2)\zeta(5) + \frac{6}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 - \frac{1}{2}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \zeta(2)\zeta(3)\mathcal{T}e^5 \ .
\end{aligned}
$$

$$\mathcal{T}e^{2,2,4,2} = \left(-\frac{9}{2}\,\zeta\,(6,2) - \frac{787}{525}\,\zeta(2)^4 + 24\,\zeta(3)\zeta(5) - 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$

$$+\left(-\frac{7}{5}\,\zeta(3)\zeta(2)^2 + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{3}{10}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,3,3,2} = \left(\frac{27}{2}\,\zeta\,(6,2) + \frac{691}{175}\,\zeta(2)^4 - 27\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,4,2,2} = \left(-\frac{9}{2}\,\zeta\,(6,2) - \frac{787}{525}\,\zeta(2)^4 + 24\,\zeta(3)\zeta(5) - 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$

$$+\left(\frac{7}{5}\,\zeta(3)\zeta(2)^2 - 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{3}{10}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,5,1,2} = \left(-\frac{3}{4}\,\zeta\,(6,2) - \frac{91}{150}\,\zeta(2)^4 + \frac{3}{2}\,\zeta(3)\zeta(5) + 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$

$$+\left(\frac{1}{2}\,\zeta(2)\zeta(5) - \frac{6}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 - \frac{1}{2}\,\zeta(2)^3\right)\mathcal{T}e^4 - \zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{2,1,4,3} = \left(\frac{33}{4}\,\zeta\,(6,2) + \frac{461}{150}\,\zeta(2)^4 - \frac{33}{2}\,\zeta(3)\zeta(5) - 4\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$

$$\left(\frac{61}{8}\,\zeta(7) - \frac{11}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,2,3,3} = \left(-\frac{103}{70}\,\zeta(2)^4 - 9\,\zeta(3)\zeta(5) - \frac{27}{4}\,\zeta\,(6,2) + 9\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$

$$+\left(-\frac{291}{16}\,\zeta(7) + 12\,\zeta(2)\zeta(5) - \frac{9}{10}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,2,3} = -\frac{8}{35}\,\zeta(2)^4\mathcal{T}e^2 + \left(-3\,\zeta(3)\zeta(2)^2 + \frac{75}{8}\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,4,1,3} = \left(-\frac{9}{2}\,\zeta\,(6,2) + \frac{3}{2}\,\zeta(3)\zeta(5) - \frac{583}{525}\,\zeta(2)^4 + 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$

$$+\left(-\frac{109}{16}\,\zeta(7) + \frac{11}{2}\,\zeta(2)\zeta(5) - \frac{7}{10}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \frac{1}{10}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,3,4} = \left(-\frac{21}{2}\,\zeta\,(6,2) - \frac{709}{175}\,\zeta(2)^4 + \frac{57}{2}\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$

$$+\left(-\frac{67}{16}\,\zeta(7) + \frac{9}{2}\,\zeta(2)\zeta(5) - \frac{13}{10}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{13}{70}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,2,2,4} = \left(\frac{181}{75}\,\zeta(2)^4 - 24\,\zeta(3)\zeta(5) + 6\,\zeta(2)\zeta(3)^2 + \frac{9}{2}\,\zeta\,(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{3}{5}\,\zeta(3)\zeta(2)^2 - 2\,\zeta(7) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{3}{70}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,3,1,4} = \left(-\frac{148}{525}\,\zeta(2)^4 + \frac{15}{2}\,\zeta(3)\zeta(5) - 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{67}{16}\,\zeta(7) - \frac{5}{2}\,\zeta(2)\zeta(5) + \frac{5}{2}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\frac{3}{2}\,\zeta(3)^2 + \frac{53}{105}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,2,5} = \left(\frac{3}{4}\,\zeta\,(6,2) - \frac{487}{210}\,\zeta(2)^4 + \frac{27}{2}\,\zeta(3)\zeta(5) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{131}{8}\,\zeta(7) - \frac{11}{2}\,\zeta(2)\zeta(5) - \frac{7}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{143}{210}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(\frac{9}{2}\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{2,2,1,5} = \left(\frac{9}{2}\,\zeta\,(6,2) - \frac{33}{2}\,\zeta(3)\zeta(5) + \frac{277}{75}\,\zeta(2)^4 - 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{39}{10}\,\zeta(3)\zeta(2)^2 - \frac{179}{16}\,\zeta(7) - \frac{1}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{37}{42}\,\zeta(2)^3 - 3\,\zeta(3)^2\right)\mathcal{T}e^4$$
$$+\left(-\frac{11}{2}\,\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{2,1,1,6} = \left(\frac{479}{350}\,\zeta(2)^4 + \frac{3}{4}\,\zeta\,(6,2) - 9\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{109}{16}\,\zeta(7) + 2\,\zeta(2)\zeta(5) + \frac{7}{10}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3$$
$$+\left(-\frac{1}{2}\,\zeta(3)^2 + \frac{89}{210}\,\zeta(2)^3\right)\mathcal{T}e^4 + \left(-3\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{3,1,4,2} = \left(-\frac{9}{2}\,\zeta\,(6,2) + \frac{3}{2}\,\zeta(3)\zeta(5) - \frac{583}{525}\,\zeta(2)^4 + 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{109}{16}\,\zeta(7) - \frac{11}{2}\,\zeta(2)\zeta(5) + \frac{7}{10}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \frac{1}{10}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,2,3,2} = -\frac{8}{35}\,\zeta(2)^4\mathcal{T}e^2 + \left(3\,\zeta(3)\zeta(2)^2 - \frac{75}{8}\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,3,2,2} = \left(-\frac{103}{70}\,\zeta(2)^4 - 9\,\zeta(3)\zeta(5) - \frac{27}{4}\,\zeta\,(6,2) + 9\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{291}{16}\,\zeta(7) - 12\,\zeta(2)\zeta(5) + \frac{9}{10}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,4,1,2} = \left(\frac{33}{4}\,\zeta\,(6,2) + \frac{461}{150}\,\zeta(2)^4 - \frac{33}{2}\,\zeta(3)\zeta(5) - 4\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{61}{8}\,\zeta(7) + \frac{11}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,1,3,3} = \left(\frac{27}{4}\,\zeta\,(6,2) - \frac{27}{2}\,\zeta(3)\zeta(5) + \frac{771}{350}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(-\frac{63}{8}\,\zeta(7) + \frac{9}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,2,3} = \left(45\,\zeta(3)\zeta(5) - \frac{48}{25}\,\zeta(2)^4 - 18\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{3,3,1,3} = \left(\frac{27}{4}\,\zeta\,(6,2) - \frac{27}{2}\,\zeta(3)\zeta(5) + \frac{771}{350}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\frac{63}{8}\,\zeta(7) - \frac{9}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,2,4} = \left(\frac{27}{4}\,\zeta\,(6,2) - \frac{87}{2}\,\zeta(3)\zeta(5) + \frac{2619}{350}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(2\,\zeta(3)\zeta(2)^2 + \frac{21}{8}\,\zeta(7) - \frac{11}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{3}{2}\,\zeta(3)^2 + \frac{53}{105}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,2,1,4} = \left(-\frac{2909}{350}\,\zeta(2)^4 + \frac{75}{2}\,\zeta(3)\zeta(5) - \frac{45}{4}\,\zeta\,(6,2) + 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{18}{5}\,\zeta(3)\zeta(2)^2 + \frac{63}{4}\,\zeta(7) - \frac{5}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{29}{30}\,\zeta(2)^3 + 3\,\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,1,1,5} = \left(-\frac{719}{175}\,\zeta(2)^4 + 24\,\zeta(3)\zeta(5) - \frac{9}{2}\,\zeta\,(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{9}{5}\,\zeta(3)\zeta(2)^2 + \frac{21}{8}\,\zeta(7) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{3}{2}\,\zeta(3)^2 - \frac{11}{21}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(2\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{4,1,3,2} = \left(-\frac{148}{525}\,\zeta(2)^4 + \frac{15}{2}\,\zeta(3)\zeta(5) - 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{67}{16}\,\zeta(7) + \frac{5}{2}\,\zeta(2)\zeta(5) - \frac{5}{2}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\frac{3}{2}\,\zeta(3)^2 + \frac{53}{105}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,2,2,2} = \left(\frac{181}{75}\,\zeta(2)^4 - 24\,\zeta(3)\zeta(5) + 6\,\zeta(2)\zeta(3)^2 + \frac{9}{2}\,\zeta\,(6,2)\right)\mathcal{T}e^2$$
$$+\left(\frac{3}{5}\,\zeta(3)\zeta(2)^2 + 2\,\zeta(7) - 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{3}{70}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,3,1,2} = \left(-\frac{21}{2}\,\zeta\,(6,2) - \frac{709}{175}\,\zeta(2)^4 + \frac{57}{2}\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{67}{16}\,\zeta(7) - \frac{9}{2}\,\zeta(2)\zeta(5) + \frac{13}{10}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{13}{70}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,2,3} = \left(-\frac{2909}{350}\,\zeta(2)^4 + \frac{75}{2}\,\zeta(3)\zeta(5) - \frac{45}{4}\,\zeta\,(6,2) + 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{18}{5}\,\zeta(3)\zeta(2)^2 - \frac{63}{4}\,\zeta(7) + \frac{5}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{29}{30}\,\zeta(2)^3 + 3\,\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,2,1,3} = \left(\frac{27}{4}\,\zeta\,(6,2) - \frac{87}{2}\,\zeta(3)\zeta(5) + \frac{2619}{350}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-2\,\zeta(3)\zeta(2)^2 - \frac{21}{8}\,\zeta(7) + \frac{11}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{3}{2}\,\zeta(3)^2 + \frac{53}{105}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,1,4} = \left(\frac{15}{2}\,\zeta\,(6,2) + \frac{1007}{175}\,\zeta(2)^4 - 30\,\zeta(3)\zeta(5) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{23}{35}\,\zeta(2)^3 - 2\,\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{5,1,2,2} = \left(\frac{9}{2}\,\zeta\,(6,2) - \frac{33}{2}\,\zeta(3)\zeta(5) + \frac{277}{75}\,\zeta(2)^4 - 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{39}{10}\,\zeta(3)\zeta(2)^2 + \frac{179}{16}\,\zeta(7) + \frac{1}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3$$
$$+\left(\frac{37}{42}\,\zeta(2)^3 - 3\,\zeta(3)^2\right)\mathcal{T}e^4 + \left(\frac{11}{2}\,\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{5,2,1,2} = \left(\frac{3}{4}\,\zeta\,(6,2) - \frac{487}{210}\,\zeta(2)^4 + \frac{27}{2}\,\zeta(3)\zeta(5) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{131}{8}\,\zeta(7) + \frac{11}{2}\,\zeta(2)\zeta(5) + \frac{7}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3$$
$$+\left(\zeta(3)^2 - \frac{143}{210}\,\zeta(2)^3\right)\mathcal{T}e^4 + \left(-\frac{9}{2}\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{5,1,1,3} = \left(-\frac{719}{175}\,\zeta(2)^4 + 24\,\zeta(3)\zeta(5) - \frac{9}{2}\,\zeta\,(6,2)\right)\mathcal{T}e^2$$
$$+\left(\frac{9}{5}\,\zeta(3)\zeta(2)^2 - \frac{21}{8}\,\zeta(7) - 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{3}{2}\,\zeta(3)^2 - \frac{11}{21}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(-2\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{6,1,1,2} = \left(\frac{479}{350}\,\zeta(2)^4 + \frac{3}{4}\,\zeta\,(6,2) - 9\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{109}{16}\,\zeta(7) - 2\,\zeta(2)\zeta(5) - \frac{7}{10}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\frac{1}{2}\,\zeta(3)^2 + \frac{89}{210}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(3\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{2}{5}\,\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{2,1,1,4,2} = \left(\frac{113}{105}\zeta(2)^4 - \frac{9}{2}\zeta(6,2) + 9\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-3\zeta(2)\zeta(5) + \frac{9}{5}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3$$
$$+\frac{2}{5}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,2,3,2} = \left(\frac{723}{350}\,\zeta(2)^4 + \frac{27}{4}\,\zeta\,(6,2) - \frac{27}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{9}{2}\,\zeta(2)\zeta(5) - 2\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,3,2,2} = \left(-\frac{2223}{350}\,\zeta(2)^4 - \frac{45}{4}\,\zeta\,(6,2) + 45\,\zeta(3)\zeta(5) - 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\frac{3}{10}\,\zeta(3)\zeta(2)^2\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,4,1,2} = \left(\frac{443}{105}\zeta(2)^4 + \frac{15}{2}\zeta(6,2) + 2\zeta(2)\zeta(3)^2 - 30\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,2,1,3,2} = \left(\frac{27}{4}\,\zeta\,(6,2) + \frac{229}{42}\,\zeta(2)^4 - \frac{87}{2}\,\zeta(3)\zeta(5) + 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(3\,\zeta(3)\zeta(2)^2 - \frac{11}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,2,2,2} = \frac{32}{175}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,3,1,2} = \left(-\frac{2223}{350}\,\zeta(2)^4 - \frac{45}{4}\,\zeta\,(6,2) + 45\,\zeta(3)\zeta(5) - 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$-\frac{3}{10}\,\zeta(3)\zeta(2)^2\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,1,2,2} = \left(\frac{27}{4}\,\zeta\,(6,2) + \frac{229}{42}\,\zeta(2)^4 - \frac{87}{2}\,\zeta(3)\zeta(5) + 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-3\,\zeta(3)\zeta(2)^2 + \frac{11}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,2,1,2} = \left(\frac{723}{350}\,\zeta(2)^4 + \frac{27}{4}\,\zeta\,(6,2) - \frac{27}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{9}{2}\,\zeta(2)\zeta(5) + 2\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,4,1,1,2} = \left(-\frac{113}{105}\zeta(2)^4 - \frac{9}{2}\zeta(6,2) + 9\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(3\zeta(2)\zeta(5) - \frac{9}{5}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \frac{2}{5}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,1,3,3} = \left(\frac{346}{525}\zeta(2)^4 + \frac{9}{2}\zeta(6,2) - \frac{3}{2}\zeta(3)\zeta(5) - 3\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{61}{8}\zeta(7) + \frac{3}{10}\zeta(3)\zeta(2)^2 - \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,2,2,3} = \left(\frac{886}{175}\,\zeta(2)^4 + 12\,\zeta(2)\zeta(3)^2 - 54\,\zeta(3)\zeta(5) + \frac{9}{2}\,\zeta\,(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{3}{5}\,\zeta(3)\zeta(2)^2 - \frac{291}{16}\,\zeta(7) + 12\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,3,1,3} = \frac{2}{175}\zeta(2)^4\mathcal{T}e^2 + \left(\frac{1}{5}\zeta(3)\zeta(2)^2 - \frac{1}{4}\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,1,2,3} = \left(-\frac{27}{4}\,\zeta\,(6,2) - \frac{5773}{1050}\,\zeta(2)^4 + \frac{87}{2}\,\zeta(3)\zeta(5) - 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{75}{8}\,\zeta(7) - \frac{11}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,2,1,3} = \left(\frac{45}{2}\,\zeta(3)\zeta(5) - \frac{152}{175}\,\zeta(2)^4 - 9\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{9}{10}\,\zeta(3)\zeta(2)^2 + \frac{157}{16}\,\zeta(7) - \frac{15}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,1,1,3} = \left(-\frac{1472}{525}\zeta(2)^4 + \frac{33}{2}\zeta(3)\zeta(5) - \frac{9}{2}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{2}\zeta(3)\zeta(2)^2 + \frac{5}{8}\zeta(7) + \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,2,4} = \left(-\frac{541}{1050}\zeta(2)^4 + \frac{3}{4}\zeta(6,2) + \frac{27}{2}\zeta(3)\zeta(5) - 4\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{115}{16}\zeta(7) - \frac{11}{2}\zeta(2)\zeta(5) + \frac{1}{5}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(-\zeta(3)^2 + \frac{10}{21}\zeta(2)^3\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,2,1,4} = \left(-\frac{21}{2}\zeta(6,2) - \frac{2336}{525}\zeta(2)^4 + \frac{57}{2}\zeta(3)\zeta(5) - \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{2}\zeta(3)\zeta(2)^2 - \frac{51}{8}\zeta(7) + \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{1}{2}\zeta(3)^2 - \frac{4}{35}\zeta(2)^3\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,2,1,1,4} = \left(\frac{33}{4}\zeta(6,2) + \frac{3959}{1050}\zeta(2)^4 - 24\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{115}{16}\zeta(7) - 3\zeta(2)\zeta(5) - \frac{7}{10}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{32}{105}\zeta(2)^3\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,1,1,5} = \left(\frac{257}{350}\zeta(2)^4 + \frac{3}{4}\zeta(6,2) - 9\zeta(3)\zeta(5) + 2\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-2\zeta(7) + 2\zeta(2)\zeta(5) - \frac{1}{10}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(\frac{1}{2}\zeta(3)^2 - \frac{2}{5}\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\zeta(5)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{3,1,1,3,2} = \left(-\frac{1472}{525}\zeta(2)^4 + \frac{33}{2}\zeta(3)\zeta(5) - \frac{9}{2}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(\frac{1}{2}\zeta(3)\zeta(2)^2 - \frac{5}{8}\zeta(7) - \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2,2,2} = \left(\frac{45}{2}\,\zeta(3)\zeta(5) - \frac{152}{175}\,\zeta(2)^4 - 9\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{9}{10}\,\zeta(3)\zeta(2)^2 - \frac{157}{16}\,\zeta(7) + \frac{15}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,3,1,2} = \left(\frac{2}{175}\zeta(2)^4\right)\mathcal{T}e^2 + \left(-\frac{1}{5}\zeta(3)\zeta(2)^2 + \frac{1}{4}\zeta(7)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,2,2} = \left(-\frac{27}{4}\,\zeta\,(6,2) - \frac{5773}{1050}\,\zeta(2)^4 + \frac{87}{2}\,\zeta(3)\zeta(5) - 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{75}{8}\,\zeta(7) + \frac{11}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,2,1,2} = \left(\frac{886}{175}\,\zeta(2)^4 + 12\,\zeta(2)\zeta(3)^2 - 54\,\zeta(3)\zeta(5) + \frac{9}{2}\,\zeta\,(6,2)\right)\mathcal{T}e^2$$
$$+\left(\frac{3}{5}\,\zeta(3)\zeta(2)^2 + \frac{291}{16}\,\zeta(7) - 12\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,3,1,1,2} = \left(\frac{346}{525}\zeta(2)^4 + \frac{9}{2}\zeta(6,2) - \frac{3}{2}\zeta(3)\zeta(5) - 3\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{61}{8}\zeta(7) - \frac{3}{10}\zeta(3)\zeta(2)^2 + \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,2,3} = \left(\frac{58}{175}\,\zeta(2)^4 - \frac{27}{2}\,\zeta(3)\zeta(5) - \frac{9}{2}\,\zeta\,(6,2) + 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{19}{10}\,\zeta(3)\zeta(2)^2 + 7\,\zeta(7) - \frac{1}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,2,1,3} = \left(\frac{27}{2}\,\zeta\,(6,2) - 27\,\zeta(3)\zeta(5) + \frac{799}{175}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{3,2,1,1,3} = \left(\frac{58}{175}\,\zeta(2)^4 - \frac{27}{2}\,\zeta(3)\zeta(5) - \frac{9}{2}\,\zeta\,(6,2) + 6\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{19}{10}\,\zeta(3)\zeta(2)^2 - 7\,\zeta(7) + \frac{1}{2}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,1,4} = \left(-\frac{61}{70}\,\zeta(2)^4 - \frac{3}{4}\,\zeta\,(6,2) + 9\,\zeta(3)\zeta(5) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{11}{10}\,\zeta(3)\zeta(2)^2 - 7\,\zeta(7) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{2}\,\zeta(3)^2 + \frac{6}{35}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,1,2,2} = \left(\frac{33}{4}\zeta(6,2) + \frac{3959}{1050}\zeta(2)^4 - 24\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{115}{16}\zeta(7) + 3\zeta(2)\zeta(5) + \frac{7}{10}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{32}{105}\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,2,1,2} = \left(-\frac{21}{2}\zeta(6,2) - \frac{2336}{525}\zeta(2)^4 + \frac{57}{2}\zeta(3)\zeta(5) - \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{1}{2}\zeta(3)\zeta(2)^2 + \frac{51}{8}\zeta(7) - \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{1}{2}\zeta(3)^2 - \frac{4}{35}\zeta(2)^3\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,2,1,1,2} = \left(-\frac{541}{1050}\zeta(2)^4 + \frac{3}{4}\zeta(6,2) + \frac{27}{2}\zeta(3)\zeta(5) - 4\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{115}{16}\zeta(7) + \frac{11}{2}\zeta(2)\zeta(5) - \frac{1}{5}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(\zeta(3)^2 + \frac{10}{21}\zeta(2)^3\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,1,1,1,3} = \left(-\frac{61}{70}\,\zeta(2)^4 - \frac{3}{4}\,\zeta\,(6,2) + 9\,\zeta(3)\zeta(5) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{11}{10}\,\zeta(3)\zeta(2)^2 + 7\,\zeta(7) - 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3$$
$$+\left(-\frac{1}{2}\,\zeta(3)^2 + \frac{6}{35}\,\zeta(2)^3\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,1,1,1,2} = \left(\frac{257}{350}\zeta(2)^4 + \frac{3}{4}\zeta(6,2) - 9\zeta(3)\zeta(5) + 2\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(2\zeta(7) - 2\zeta(2)\zeta(5) + \frac{1}{10}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \left(\frac{1}{2}\zeta(3)^2 - \frac{2}{5}\zeta(2)^3\right)\mathcal{T}e^4$$
$$-\zeta(5)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{2,1,1,1,3,2} = \left(-\frac{1079}{525}\zeta(2)^4 - \frac{7}{2}\zeta(6,2) + 17\zeta(3)\zeta(5) - 2\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,2,2,2} = \left(\frac{1012}{175}\zeta(2)^4 - 40\zeta(3)\zeta(5) + 10\zeta(6,2) + 4\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,3,1,2} = \left(\frac{5}{2}\zeta(6,2) + \frac{719}{525}\zeta(2)^4 - 10\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 - \frac{2}{5}\zeta(3)\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,1,2,2} = \left(10\zeta(6,2) + \frac{964}{175}\zeta(2)^4 - 40\zeta(3)\zeta(5) + 4\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,2,1,2} = \left(-20\,\zeta\,(6,2) - \frac{56}{5}\,\zeta(2)^4 + 80\,\zeta(3)\zeta(5) - 8\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,3,1,1,2} = \left(\frac{5}{2}\zeta(6,2) + \frac{719}{525}\zeta(2)^4 - 10\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \frac{2}{5}\zeta(3)\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,1,1,2,2} = \left(-\frac{1912}{175}\zeta(2)^4 - 20\zeta(6,2) + 80\zeta(3)\zeta(5) - 8\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,2,1,2} = \left(10\zeta(6,2) + \frac{964}{175}\zeta(2)^4 - 40\zeta(3)\zeta(5) + 4\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,2,1,1,2} = \left(\frac{1012}{175}\zeta(2)^4 - 40\zeta(3)\zeta(5) + 10\zeta(6,2) + 4\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,3,1,1,1,2} = \left(-\frac{1079}{525}\zeta(2)^4 - \frac{7}{2}\zeta(6,2) + 17\zeta(3)\zeta(5) - 2\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 - \zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,1,2,3} = &\left(-\frac{568}{525}\zeta(2)^4 + \zeta(6,2) + 8\zeta(3)\zeta(5) - 2\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\ &+ \left(10\zeta(7) - 4\zeta(2)\zeta(5) - \frac{4}{5}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,2,1,3} = &\left(-\frac{25}{2}\zeta(6,2) - \frac{640}{175}\zeta(2)^4 + 20\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\ &+ \left(\frac{2}{5}\zeta(3)\zeta(2)^2 - 18\zeta(7) + 10\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,2,1,1,3} = &\left(10\zeta(6,2) - 10\zeta(3)\zeta(5) + \frac{172}{75}\zeta(2)^4 - 2\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\ &+ \left(17\zeta(7) - 10\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,1,1,1,3} = &\left(\frac{517}{175}\,\zeta(2)^4 - 25\,\zeta(3)\zeta(5) + 4\,\zeta(2)\zeta(3)^2 + \frac{5}{2}\,\zeta\,(6,2)\right)\mathcal{T}e^2 \\ &+ \left(\frac{4}{5}\,\zeta(3)\zeta(2)^2 - 11\,\zeta(7) + 5\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,1,1,4} = &\left(\frac{176}{175}\,\zeta(2)^4 - 7\,\zeta(3)\zeta(5) + \zeta\,(6,2) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\ &+ \left(-4\,\zeta(7) + \zeta(2)\zeta(5) + \frac{2}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \frac{8}{35}\,\zeta(2)^3\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,1,2,2} = &\left(\frac{517}{175}\,\zeta(2)^4 - 25\,\zeta(3)\zeta(5) + 4\,\zeta(2)\zeta(3)^2 + \frac{5}{2}\,\zeta\,(6,2)\right)\mathcal{T}e^2 \\ &+ \left(-\frac{4}{5}\,\zeta(3)\zeta(2)^2 + 11\,\zeta(7) - 5\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{3,1,1,2,1,2} = \left(10\zeta(6,2) - 10\zeta(3)\zeta(5) + \frac{172}{75}\zeta(2)^4 - 2\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(-17\zeta(7) + 10\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2,1,1,2} = \left(-\frac{25}{2}\zeta(6,2) - \frac{640}{175}\zeta(2)^4 + 20\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\frac{2}{5}\zeta(3)\zeta(2)^2 + 18\zeta(7) - 10ze(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,1,1,2} = \left(-\frac{568}{525}\zeta(2)^4 + \zeta(6,2) + 8\zeta(3)\zeta(5) - 2\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(-10\zeta(7) + 4\zeta(2)\zeta(5) + \frac{4}{5}\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,1,1,3} = \left(-\frac{304}{175}\,\zeta(2)^4 - 2\,\zeta\,(6,2) + 14\,\zeta(3)\zeta(5) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{4,1,1,1,1,2} = \left(\frac{176}{175}\,\zeta(2)^4 - 7\,\zeta(3)\zeta(5) + \zeta\,(6,2) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(4\,\zeta(7) - \zeta(2)\zeta(5) - \frac{2}{5}\,\zeta(3)\zeta(2)^2\right)\mathcal{T}e^3 + \frac{8}{35}\,\zeta(2)^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,2,2} = \frac{8}{25}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,2,1,2} = -\frac{24}{175}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,2,1,1,2} = \frac{32}{175}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,1,1,2} = -\frac{24}{175}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,1,1,2} = \frac{8}{25}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,3} = -\frac{24}{175}\,\zeta(2)^4\mathcal{T}e^2 + \zeta(7)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,1,1,1,2} = -\frac{24}{175}\,\zeta(2)^4\mathcal{T}e^2 - \zeta(7)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,1,2} = \frac{48}{175}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

Tables des multitangentes divergentes, jusqu'au poids 10 .

1 Poids 2.

$$\mathcal{T}e^{1,1} = -3\,\zeta(2)\ .$$

2 Poids 3.

$$\mathcal{T}e^{1,2} = 0\ .$$

$$\mathcal{T}e^{2,1} = 0\ .$$

$$\mathcal{T}e^{1,1,1} = -\zeta(2)\mathcal{T}e^{1}\ .$$

3 Poids 4.

$$\mathcal{T}e^{1,3} = -\zeta(2)\mathcal{T}e^{2}\ .$$

$$\mathcal{T}e^{3,1} = -\zeta(2)\mathcal{T}e^{2}\ .$$

$$\mathcal{T}e^{1,1,2} = -\frac{1}{2}\zeta(2)\mathcal{T}e^{2}\ .$$

$$\mathcal{T}e^{1,2,1} = 0\ .$$

$$\mathcal{T}e^{2,1,1} = -\frac{1}{2}\zeta(2)\mathcal{T}e^{2}\ .$$

$$\mathcal{T}e^{1,1,1,1} = \frac{3}{2}\zeta(2)^{2}\ .$$

4 Poids 5.

$$\mathcal{T}e^{1,4} = \zeta(3)\mathcal{T}e^2 - \zeta(2)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1} = -\zeta(3)\mathcal{T}e^2 - \zeta(2)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3} = \zeta(3)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,2} = -2\,\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1} = 0 \ .$$

$$\mathcal{T}e^{2,2,1} = 2\,\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,1} = -\zeta(3)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,2} = \frac{1}{3}\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,2,1,1} = 0 \ .$$

$$\mathcal{T}e^{2,1,1,1} = -\frac{1}{3}\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1} = \frac{3}{10}\zeta(2)^2\mathcal{T}e^1 \ .$$

5 Poids 6.

$$\mathcal{T}e^{1,5} = -\frac{2}{5}\zeta(2)^2\mathcal{T}e^2 + \zeta(3)\mathcal{T}e^3 - \zeta(2)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,1} = -\frac{2}{5}\zeta(2)^2\mathcal{T}e^2 - \zeta(3)\mathcal{T}e^3 - \zeta(2)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,4} = -\frac{1}{10}\zeta(2)^2\mathcal{T}e^2 + \zeta(3)\mathcal{T}e^3 - \frac{1}{2}\zeta(2)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,2,3} = \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^2 - 2\,\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,2} = -\frac{3}{2}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,4,1} = \zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,3,1} = -\frac{3}{2}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,2,1} = \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^2 + 2\,\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,1} = -\frac{1}{10}\zeta(2)^2\mathcal{T}e^2 - \zeta(3)\mathcal{T}e^3 - \frac{1}{2}\zeta(2)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,1,3} = \frac{1}{10}\zeta(2)^2\mathcal{T}e^2 + \frac{1}{3}\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,2,2} = \frac{1}{5}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,3,1} = \frac{1}{2}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,2} = -\frac{6}{5}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,3,1,1} = \frac{1}{2}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1} = -\frac{6}{5}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1} = \frac{1}{5}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,1,1} = \frac{1}{10}\zeta(2)^2\mathcal{T}e^2 - \frac{1}{3}\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,1,2} = \frac{1}{40}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,1,2,1,1} = \frac{1}{4}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,1} = 0 \ .$$

$$\mathcal{T}e^{2,1,1,1,1} = \frac{1}{40}\zeta(2)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,1} = -\frac{3}{10}\zeta(2)^3 \ .$$

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$$\mathcal{T}e^{1,6} = \zeta(5)\mathcal{T}e^2 - \frac{2}{5}\zeta(2)^2\mathcal{T}e^3 + \zeta(3)\mathcal{T}e^4 - \zeta(2)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{6,1} = -\zeta(5)\mathcal{T}e^2 - \frac{2}{5}\zeta(2)^2\mathcal{T}e^3 - \zeta(3)\mathcal{T}e^4 - \zeta(2)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{1,1,5} = (2\,\zeta(5) - \zeta(2)\zeta(3))\,\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\mathcal{T}e^5 - \frac{1}{10}\zeta(2)^2\mathcal{T}e^3 + \zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,2,4} = \left(2\,\zeta(2)\zeta(3) - \frac{11}{2}\zeta(5)\right)\mathcal{T}e^2 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^3 - 2\,\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,3,3} = \frac{9}{2}\zeta(5)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,2} = -\zeta(2)^2\mathcal{T}e^3 - 3\,\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,5,1} = \zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,4,1} = 3\,\zeta(5)\mathcal{T}e^2 - \zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,3,1} = -\frac{9}{2}\zeta(5)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,2,1} = \left(-2\,\zeta(2)\zeta(3) + \frac{11}{2}\zeta(5)\right)\mathcal{T}e^2 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^3 + 2\,\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,1,1} = (-2\,\zeta(5) + \zeta(2)\zeta(3))\,\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\mathcal{T}e^5 - \frac{1}{10}\zeta(2)^2\mathcal{T}e^3 - \zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,1,4} = \left(2\,\zeta(5) - \frac{3}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^2 + \frac{1}{10}\zeta(2)^2\mathcal{T}e^3 + \frac{1}{3}\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,2,3} = \left(\frac{7}{2}\zeta(2)\zeta(3) - \frac{11}{2}\zeta(5)\right)\mathcal{T}e^2 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,2} = \left(-\frac{1}{2}\zeta(5) + \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,4,1} = -\frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,3} = \left(\frac{9}{2}\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^2 - \frac{6}{5}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,2,2} = (-4\,\zeta(2)\zeta(3) + 2\,\zeta(5))\,\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,3,1} = 2\,\zeta(2)\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,2} = \left(\zeta(2)\zeta(3) - \frac{1}{2}\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,2,1} = -2\,\zeta(2)\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,4,1,1} = \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,3,1} = \left(-\zeta(2)\zeta(3) + \frac{1}{2}\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,2,1} = \left(4\,\zeta(2)\zeta(3) - 2\,\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,3,1,1} = \left(\frac{1}{2}\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2,1} = \left(-\frac{9}{2}\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^2 - \frac{6}{5}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,1} = \left(-\frac{7}{2}\zeta(2)\zeta(3) + \frac{11}{2}\zeta(5)\right)\mathcal{T}e^2 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,1,1} = \left(-2\,\zeta(5) + \frac{3}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^2 + \frac{1}{10}\zeta(2)^2\mathcal{T}e^3 - \frac{1}{3}\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,1,1,3} = \left(\zeta(5) - \frac{5}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^2 + \frac{1}{40}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,2,2} = \left(\frac{5}{3}\zeta(2)\zeta(3) - 4\,\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,3,1} = -\frac{\zeta}{(}2)\zeta(3)13\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,2} = 6\,\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,2,1} = -\zeta(2)\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,3,1,1} = \frac{1}{4}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,1,2} = -4\,\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,2,2,1,1} = \zeta(2)\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,1,1} = \frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,2,1} = 4\,\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,1} = -6\,\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,1} = \left(-\frac{5}{3}\zeta(2)\zeta(3) + 4\,\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,1,1,1} = \left(-\zeta(5) + \frac{5}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^2 + \frac{1}{40}\zeta(2)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,2} = \left(\frac{1}{5}\zeta(5) - \frac{1}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,1,1,2,1,1} = -\frac{1}{6}\zeta(2)\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,1,1} = \frac{1}{6}\zeta(2)\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,1} = 0 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1} = \left(-\frac{1}{5}\zeta(5) + \frac{1}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,1} = -\frac{3}{70}\,\zeta(2)^3\mathcal{T}e^1 \ .$$

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$$\mathcal{T}e^{1,7} = -\frac{8}{35}\,\zeta(2)^3\mathcal{T}e^2 + \zeta(5)\mathcal{T}e^3 - \frac{2}{5}\zeta(2)^2\mathcal{T}e^4 + \zeta(3)\mathcal{T}e^5 - \zeta(2)\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{7,1} = -\frac{8}{35}\,\zeta(2)^3\mathcal{T}e^2 - \zeta(5)\mathcal{T}e^3 - \frac{2}{5}\zeta(2)^2\mathcal{T}e^4 - \zeta(3)\mathcal{T}e^5 - \zeta(2)\mathcal{T}e^6 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,6} = {} & \left(-\frac{6}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^2 + (2\,\zeta(5) - \zeta(2)\zeta(3))\,\mathcal{T}e^3 - \frac{1}{10}\zeta(2)^2\mathcal{T}e^4 \\ & + \zeta(3)\mathcal{T}e^5 - \frac{1}{2}\zeta(2)\mathcal{T}e^6 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,2,5} = {} & \left(\frac{74}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^2 + \left(2\,\zeta(2)\zeta(3) - \frac{11}{2}\zeta(5)\right)\mathcal{T}e^3 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^4 \\ & - 2\,\zeta(3)\mathcal{T}e^5 \ .\end{aligned}$$

$$\mathcal{T}e^{1,3,4} = \left(\frac{1}{2}\zeta(3)^2 - \frac{52}{35}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(\frac{9}{2}\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^3 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,4,3} = \left(\frac{244}{105}\,\zeta(2)^3 - 2\,\zeta(3)^2\right)\mathcal{T}e^2 + (2\,\zeta(2)\zeta(3) - 3\,\zeta(5))\,\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,5,2} = \left(\frac{5}{2}\zeta(3)^2 - 2\,\zeta(2)^3\right)\mathcal{T}e^2 - \zeta(2)\zeta(3)\mathcal{T}e^3 - \zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,6,1} = \left(\frac{4}{5}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^2 + \zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,5,1} = \left(\frac{5}{2}\zeta(3)^2 - 2\,\zeta(2)^3\right)\mathcal{T}e^2 + \zeta(2)\zeta(3)\mathcal{T}e^3 - \zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,4,1} = \left(\frac{244}{105}\,\zeta(2)^3 - 2\,\zeta(3)^2\right)\mathcal{T}e^2 + (-2\,\zeta(2)\zeta(3) + 3\,\zeta(5))\,\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,3,1} = \left(\frac{1}{2}\zeta(3)^2 - \frac{52}{35}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(-\frac{9}{2}\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^3 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\begin{aligned}\mathcal{T}e^{5,2,1} = {} & \left(\frac{74}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^2 + \left(-2\,\zeta(2)\zeta(3) + \frac{11}{2}\zeta(5)\right)\mathcal{T}e^3 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^4 \\ & + 2\,\zeta(3)\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{6,1,1} = {} & \left(-\frac{6}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^2 + (-2\,\zeta(5) + \zeta(2)\zeta(3))\,\mathcal{T}e^3 - \frac{1}{10}\zeta(2)^2\mathcal{T}e^4 \\ & - \zeta(3)\mathcal{T}e^5 - \frac{1}{2}\zeta(2)\mathcal{T}e^6 \ .\end{aligned}$$

$$\mathcal{T}e^{1,1,1,5} = \left(\zeta(3)^2 - \frac{9}{70}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(2\,\zeta(5) - \frac{3}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{1}{10}\zeta(2)^2\mathcal{T}e^4 + \frac{1}{3}\zeta(3)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{1,1,2,4} = \left(-2\,\zeta(3)^2 + \frac{1}{6}\zeta(2)^3\right)\mathcal{T}e^2 + \left(-\frac{11}{2}\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,3,3} = \left(\frac{167}{210}\,\zeta(2)^3 - \frac{3}{2}\zeta(3)^2\right)\mathcal{T}e^2 + \left(\zeta(2)\zeta(3) - \frac{1}{2}\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,4,2} = \left(-\frac{10}{21}\,\zeta(2)^3 + \frac{3}{2}\zeta(3)^2\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,5,1} = \left(\frac{3}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^3 + \frac{1}{2}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,2,1,4} = \left(-\frac{1}{2}\zeta(3)^2 - \frac{17}{42}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(\frac{9}{2}\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^3 - \frac{6}{5}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,2,2,3} = \left(6\,\zeta(3)^2 - \frac{31}{70}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(2\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,3,2} = \left(-3\,\zeta(3)^2 + \frac{2}{105}\,\zeta(2)^3\right)\mathcal{T}e^2 - 2\,\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,4,1} = \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^2 + 2\,\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,1,3} = \frac{3}{35}\,\zeta(2)^3\mathcal{T}e^2 - \frac{1}{2}\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,2,2} = \left(\frac{17}{210}\,\zeta(2)^3 - 3\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,3,1} = \zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,4,1,2} = \left(-\frac{1}{42}\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^2 + \zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,2,1} = \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^2 - 2\,\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,5,1,1} = \left(\frac{3}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^3 + \frac{1}{2}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,4,1} = \left(-\frac{1}{42}\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^2 - \zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,3,1} = \left(\frac{17}{210}\,\zeta(2)^3 - 3\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,3,2,1} = \left(-3\,\zeta(3)^2 + \frac{2}{105}\,\zeta(2)^3\right)\mathcal{T}e^2 + 2\,\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,4,1,1} = \left(-\frac{10}{21}\,\zeta(2)^3 + \frac{3}{2}\zeta(3)^2\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,1,3,1} = \frac{3}{35}\,\zeta(2)^3\mathcal{T}e^2 + \frac{1}{2}\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,2,1} = \left(6\,\zeta(3)^2 - \frac{31}{70}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(-2\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,3,1,1} = \left(\frac{167}{210}\,\zeta(2)^3 - \frac{3}{2}\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\zeta(2)\zeta(3) + \frac{1}{2}\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,2,1} = \left(-\frac{1}{2}\zeta(3)^2 - \frac{17}{42}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(-\frac{9}{2}\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^3 - \frac{6}{5}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,2,1,1} = \left(-2\,\zeta(3)^2 + \frac{1}{6}\zeta(2)^3\right)\mathcal{T}e^2 + \left(\frac{11}{2}\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\begin{aligned}\mathcal{T}e^{5,1,1,1} = \ & \left(\zeta(3)^2 - \frac{9}{70}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(-2\,\zeta(5) + \frac{3}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{1}{10}\zeta(2)^2\mathcal{T}e^4 \\ & -\frac{1}{3}\zeta(3)\mathcal{T}e^5 \ .\end{aligned}$$

$$\mathcal{T}e^{1,1,1,1,4} = \left(\frac{5}{6}\zeta(3)^2 - \frac{17}{140}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(\zeta(5) - \frac{5}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{1}{40}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,1,2,3} = \left(-2\,\zeta(3)^2 + \frac{149}{420}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(-4\,\zeta(5) + \frac{4}{3}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,3,2} = \frac{139}{420}\,\zeta(2)^3\mathcal{T}e^2 + \frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,4,1} = \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^2 - \frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,2,1,3} = \left(-\frac{31}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^2 + \left(6\,\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,2,2,2} = \left(\frac{16}{35}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,3,1} = -\frac{9}{20}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,3,1,2} = \left(\frac{1}{5}\zeta(2)^3 - \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,2,1} = \left(-\frac{7}{20}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^2 - \zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,4,1,1} = \left(\frac{1}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^2 + \frac{1}{4}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,2,1,1,3} = \left(\frac{118}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^2 - 4\,\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,2,2} = \left(-\frac{12}{5}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,3,1} = \frac{6}{5}\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,1,2} = \left(-2\,\zeta(3)^2 + \frac{8}{7}\,\zeta(2)^3\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,2,1} = -4\,\zeta(3)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,3,1,1} = \left(-\frac{7}{20}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^2 + \zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,1,1,2} = \left(-\frac{82}{105}\,\zeta(2)^3 + \zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,2,1} = \frac{6}{5}\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,2,1,1} = -\frac{9}{20}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,4,1,1,1} = \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^2 + \frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,3,1} = \left(-\frac{82}{105}\,\zeta(2)^3 + \zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,2,1} = \left(-2\,\zeta(3)^2 + \frac{8}{7}\,\zeta(2)^3\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,3,1,1} = \left(\frac{1}{5}\zeta(2)^3 - \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,1,2,1} = \left(-\frac{12}{5}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,2,1,1} = \left(\frac{16}{35}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,3,1,1,1} = \frac{139}{420}\,\zeta(2)^3\mathcal{T}e^2 - \frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,2,1} = \left(\frac{118}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^2 + 4\,\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2,1,1} = \left(-\frac{31}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^2 + \left(-6\,\zeta(5) + \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,1,1} = \left(-2\,\zeta(3)^2 + \frac{149}{420}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(4\,\zeta(5) - \frac{4}{3}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,1,1,1} = \left(\frac{5}{6}\zeta(3)^2 - \frac{17}{140}\,\zeta(2)^3\right)\mathcal{T}e^2 + \left(-\zeta(5) + \frac{5}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 + \frac{1}{40}\zeta(2)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,3} = \left(-\frac{3}{56}\,\zeta(2)^3 + \frac{1}{3}\zeta(3)^2\right)\mathcal{T}e^2 + \left(\frac{1}{5}\zeta(5) - \frac{1}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,1,2,2} = \left(\frac{83}{140}\,\zeta(2)^3 - \frac{2}{3}\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,3,1} = -\frac{1}{40}\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,2,1,2} = -\frac{59}{35}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,2,2,1} = \frac{2}{3}\zeta(3)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,3,1,1} = \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{20}\zeta(2)^3\right)\mathcal{T}e^2 - \frac{1}{6}\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,2,1,1,2} = \frac{66}{35}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,2,1} = \frac{3}{5}\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,2,1,1} = -\frac{7}{10}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,3,1,1,1} = \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{20}\zeta(2)^3\right)\mathcal{T}e^2 + \frac{1}{6}\zeta(2)\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,2} = -\frac{8}{7}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,2,1,2,1,1} = \frac{3}{5}\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,1,1,1} = \frac{2}{3}\zeta(3)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,1,1,1} = -\frac{1}{40}\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,2,1} = -\frac{8}{7}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,2,1,1} = \frac{66}{35}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,1,1} = -\frac{59}{35}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,1,1} = \left(\frac{83}{140}\,\zeta(2)^3 - \frac{2}{3}\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,1,1,1,1} = \left(-\frac{3}{56}\,\zeta(2)^3 + \frac{1}{3}\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\frac{1}{5}\zeta(5) + \frac{1}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,2} = \left(-\frac{1}{112}\,\zeta(2)^3 + \frac{1}{18}\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,1,1,1,2,1,1} = -\frac{1}{80}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,2,1,1,1} = -\frac{1}{9}\zeta(3)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,1,1,1} = -\frac{1}{80}\,\zeta(2)^3\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,1,1} = 0 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,1} = \left(-\frac{1}{112}\,\zeta(2)^3 + \frac{1}{18}\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,1,1} = \frac{9}{280}\,\zeta(2)^4 \ .$$

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$$\mathcal{T}e^{1,8} = \zeta(7)\mathcal{T}e^2 - \frac{8}{35}\,\zeta(2)^3\mathcal{T}e^3 + \zeta(5)\mathcal{T}e^4 - \frac{2}{5}\zeta(2)^2\mathcal{T}e^5 + \zeta(3)\mathcal{T}e^6 - \zeta(2)\mathcal{T}e^7 \ .$$

$$\mathcal{T}e^{8,1} = -\zeta(7)\mathcal{T}e^2 - \frac{8}{35}\,\zeta(2)^3\mathcal{T}e^3 - \zeta(5)\mathcal{T}e^4 - \frac{2}{5}\zeta(2)^2\mathcal{T}e^5 - \zeta(3)\mathcal{T}e^6 - \zeta(2)\mathcal{T}e^7 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,7} = \ & \left(3\,\zeta(7) - \frac{2}{5}\zeta(2)^2\zeta(3) - \zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{6}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^3 \\ & + \left(2\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \frac{1}{10}\zeta(2)^2\mathcal{T}e^5 + \zeta(3)\mathcal{T}e^6 - \frac{1}{2}\zeta(2)\mathcal{T}e^7 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,2,6} = \ & \left(4\,\zeta(2)\zeta(5) - 11\,\zeta(7) + \frac{4}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{74}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\ & + \left(2\,\zeta(2)\zeta(3) - \frac{11}{2}\zeta(5)\right)\mathcal{T}e^4 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^5 - 2\,\zeta(3)\mathcal{T}e^6 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,3,5} = \ & \left(-5\,\zeta(2)\zeta(5) + 17\,\zeta(7) - \frac{2}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{38}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^3 \\ & + \left(\frac{9}{2}\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,4,4} = \ & \left(-18\,\zeta(7) + \frac{8}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{76}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\ & + \left(-3\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,5,3} = \ & \left(-2\,\zeta(2)^2\zeta(3) + 5\,\zeta(2)\zeta(5) + 10\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{4}{5}\zeta(2)^3 - \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^3 \\ & + \zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,6,2} = \ & \left(-2\,\zeta(2)\zeta(5) + \frac{4}{5}\zeta(2)^2\zeta(3) - 4\,\zeta(7)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{8}{5}\zeta(2)^3\right)\mathcal{T}e^3 \\ & - \zeta(2)\zeta(3)\mathcal{T}e^4 - \zeta(2)^2\mathcal{T}e^5 \ .\end{aligned}$$

$$\mathcal{T}e^{1,7,1} = \left(\frac{4}{5}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 + \zeta(2)^2\mathcal{T}e^5 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,6,1} = \ & \left(2\,\zeta(2)\zeta(5) - \frac{4}{5}\zeta(2)^2\zeta(3) + 4\,\zeta(7)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{8}{5}\zeta(2)^3\right)\mathcal{T}e^3 \\ & + \zeta(2)\zeta(3)\mathcal{T}e^4 - \zeta(2)^2\mathcal{T}e^5 \ .\end{aligned}$$

$$
\begin{aligned}
\mathcal{T}e^{3,5,1} = {} & \left(2\,\zeta(2)^2\zeta(3) - 5\,\zeta(2)\zeta(5) - 10\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{4}{5}\zeta(2)^3 - \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^3 \\
& -\zeta(2)\zeta(3)\mathcal{T}e^4 \ . \\
\mathcal{T}e^{4,4,1} = {} & \left(18\,\zeta(7) - \frac{8}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{76}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\
& + \left(3\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^4 \ . \\
\mathcal{T}e^{5,3,1} = {} & \left(-17\,\zeta(7) + 5\,\zeta(2)\zeta(5) + \frac{2}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{38}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^3 \\
& + \left(-\frac{9}{2}\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^5 \ . \\
\mathcal{T}e^{6,2,1} = {} & \left(11\,\zeta(7) - \frac{4}{5}\zeta(2)^2\zeta(3) - 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{74}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\
& + \left(-2\,\zeta(2)\zeta(3) + \frac{11}{2}\zeta(5)\right)\mathcal{T}e^4 + 2\,\zeta(3)\mathcal{T}e^6 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^5 \ . \\
\mathcal{T}e^{7,1,1} = {} & \left(-3\,\zeta(7) + \frac{2}{5}\zeta(2)^2\zeta(3) + \zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{6}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^3 \\
& -\frac{1}{10}\zeta(2)^2\mathcal{T}e^5 + \left(-2\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \zeta(3)\mathcal{T}e^6 - \frac{1}{2}\zeta(2)\mathcal{T}e^7 \ . \\
\mathcal{T}e^{1,1,1,6} = {} & \left(5\,\zeta(7) - \frac{1}{2}\zeta(2)^2\zeta(3) - \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\zeta(3)^2 - \frac{9}{70}\,\zeta(2)^3\right)\mathcal{T}e^3 \\
& + \left(2\,\zeta(5) - \frac{3}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{1}{10}\zeta(2)^2\mathcal{T}e^5 + \frac{1}{3}\zeta(3)\mathcal{T}e^6 \ . \\
\mathcal{T}e^{1,1,2,5} = {} & \left(8\,\zeta(2)\zeta(5) - \frac{221}{16}\,\zeta(7) + \zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-2\,\zeta(3)^2 + \frac{11}{30}\,\zeta(2)^3\right)\mathcal{T}e^3 \\
& + \left(-\frac{11}{2}\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^5 \ . \\
\mathcal{T}e^{1,1,3,4} = {} & \left(\frac{61}{8}\,\zeta(7) - \frac{19}{2}\zeta(2)\zeta(5) + \frac{3}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{1}{2}\zeta(3)^2 - \frac{1}{210}\,\zeta(2)^3\right)\mathcal{T}e^3 \\
& + \left(-\frac{1}{2}\zeta(5) + \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^4 \ .
\end{aligned}
$$

$$\mathcal{T}e^{1,1,4,3} = \left(-\frac{8}{5}\zeta(2)^2\zeta(3) + 8\,\zeta(2)\zeta(5) - \frac{109}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{173}{210}\,\zeta(2)^3 - \frac{3}{2}\zeta(3)^2\right)\mathcal{T}e^3$$
$$+\frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,1,5,2} = \left(-2\,\zeta(7) - \frac{1}{10}\zeta(2)^2\zeta(3) + \frac{3}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$-\frac{1}{2}\zeta(2)^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{1,1,6,1} = \left(-\frac{3}{2}\zeta(2)\zeta(5) + \frac{7}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{3}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3$$
$$-\frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^4 + \frac{1}{2}\zeta(2)^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{1,2,1,5} = \left(\frac{5}{8}\zeta(7) + \frac{3}{10}\zeta(2)^2\zeta(3) + \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{1}{2}\zeta(3)^2 - \frac{17}{42}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(\frac{9}{2}\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \frac{6}{5}\zeta(2)^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{1,2,2,4} = \left(-\frac{23}{5}\,\zeta(2)^2\zeta(3) - 2\,\zeta(2)\zeta(5) + \frac{157}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(4\,\zeta(3)^2 - \frac{31}{70}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(2\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,2,3,3} = \left(\frac{75}{8}\,\zeta(7) - \frac{9}{2}\zeta(2)\zeta(5) + \frac{27}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{143}{210}\,\zeta(2)^3 + 3\,\zeta(3)^2\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,4,2} = \left(-11\,\zeta(2)\zeta(5) + \frac{6}{5}\zeta(2)^2\zeta(3) + \frac{115}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(-4\,\zeta(3)^2 + \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$-2\,\zeta(2)\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,2,5,1} = \left(-\frac{19}{10}\,\zeta(2)^2\zeta(3) + \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+2\,\zeta(2)\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,3,1,4} = \left(-\frac{3}{2}\zeta(2)^2\zeta(3) - \frac{1}{4}\zeta(7) + \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(5)\mathcal{T}e^4 + \frac{13}{70}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,2,3} = \left(\frac{33}{5}\,\zeta(2)^2\zeta(3) - \frac{291}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(-3\,\zeta(3)^2 + \frac{37}{42}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,3,2} = \left(\frac{27}{2}\,\zeta(2)\zeta(5) - \frac{9}{2}\zeta(2)^2\zeta(3) - \frac{51}{8}\,\zeta(7)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,4,1} = \left(\frac{5}{2}\zeta(2)^2\zeta(3) - \frac{15}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,1,3} = \left(-\frac{11}{10}\,\zeta(2)^2\zeta(3) + \frac{61}{8}\,\zeta(7) - \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{3}{2}\zeta(3)^2 - \frac{131}{210}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,2,2} = \left(-4\,\zeta(2)\zeta(5) - \frac{7}{5}\zeta(2)^2\zeta(3) + \frac{115}{16}\,\zeta(7)\right)\mathcal{T}e^2 - \frac{3}{10}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,3,1} = \left(-\frac{5}{2}\zeta(2)^2\zeta(3) + \frac{15}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,5,1,2} = {} & \left(\frac{3}{2}\zeta(2)^2\zeta(3) - \frac{1}{2}\zeta(2)\zeta(5) - 2\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\ & + \zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,5,2,1} = {} & \left(\frac{19}{10}\,\zeta(2)^2\zeta(3) - \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^3 \\ & - 2\,\zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,6,1,1} = {} & \left(\frac{3}{2}\zeta(2)\zeta(5) - \frac{7}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{3}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\ & + \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^4 + \frac{1}{2}\zeta(2)^2\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,5,1} = {} & \left(-\frac{3}{2}\zeta(2)^2\zeta(3) + \frac{1}{2}\zeta(2)\zeta(5) + 2\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\ & - \zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{2,2,4,1} = \left(4\,\zeta(2)\zeta(5) + \frac{7}{5}\zeta(2)^2\zeta(3) - \frac{115}{16}\,\zeta(7)\right)\mathcal{T}e^2 - \frac{3}{10}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,3,3,1} = \left(-\frac{27}{2}\,\zeta(2)\zeta(5) + \frac{9}{2}\zeta(2)^2\zeta(3) + \frac{51}{8}\,\zeta(7)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,4,2,1} = {} & \left(11\,\zeta(2)\zeta(5) - \frac{6}{5}\zeta(2)^2\zeta(3) - \frac{115}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(-4\,\zeta(3)^2 + \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^3 \\ & + 2\,\zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{2,5,1,1} = \left(2\,\zeta(7) + \frac{1}{10}\zeta(2)^2\zeta(3) - \frac{3}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$-\frac{1}{2}\zeta(2)^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{3,1,4,1} = \left(\frac{11}{10}\,\zeta(2)^2\zeta(3) - \frac{61}{8}\,\zeta(7) + \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{3}{2}\zeta(3)^2 - \frac{131}{210}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,3,1} = \left(-\frac{33}{5}\,\zeta(2)^2\zeta(3) + \frac{291}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(-3\,\zeta(3)^2 + \frac{37}{42}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,3,2,1} = \left(-\frac{75}{8}\,\zeta(7) + \frac{9}{2}\zeta(2)\zeta(5) - \frac{27}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{143}{210}\,\zeta(2)^3 + 3\,\zeta(3)^2\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,4,1,1} = \left(\frac{8}{5}\zeta(2)^2\zeta(3) - 8\,\zeta(2)\zeta(5) + \frac{109}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{173}{210}\,\zeta(2)^3 - \frac{3}{2}\zeta(3)^2\right)\mathcal{T}e^3$$
$$-\frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,1,3,1} = \left(\frac{3}{2}\zeta(2)^2\zeta(3) + \frac{1}{4}\zeta(7) - \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(5)\mathcal{T}e^4 + \frac{13}{70}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,2,2,1} = \left(\frac{23}{5}\,\zeta(2)^2\zeta(3) + 2\,\zeta(2)\zeta(5) - \frac{157}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(4\,\zeta(3)^2 - \frac{31}{70}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(-2\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,3,1,1} = \left(-\frac{61}{8}\,\zeta(7) + \frac{19}{2}\zeta(2)\zeta(5) - \frac{3}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{1}{2}\zeta(3)^2 - \frac{1}{210}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(\frac{1}{2}\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,1,2,1} = \left(-\frac{5}{8}\zeta(7) - \frac{3}{10}\zeta(2)^2\zeta(3) - \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{1}{2}\zeta(3)^2 - \frac{17}{42}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(-\frac{9}{2}\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \frac{6}{5}\zeta(2)^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{5,2,1,1} = \left(\frac{221}{16}\,\zeta(7) - \zeta(2)^2\zeta(3) - 8\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-2\,\zeta(3)^2 + \frac{11}{30}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(\frac{11}{2}\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{6,1,1,1} = \left(-5\,\zeta(7) + \frac{1}{2}\zeta(2)^2\zeta(3) + \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\zeta(3)^2 - \frac{9}{70}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(-2\,\zeta(5) + \frac{3}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^4 - \frac{1}{3}\zeta(3)\mathcal{T}e^6 + \frac{1}{10}\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,1,1,1,5} = \left(5\,\zeta(7) - \frac{2}{15}\zeta(2)^2\zeta(3) - 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{5}{6}\zeta(3)^2 - \frac{17}{140}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(\zeta(5) - \frac{5}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{1}{40}\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,1,1,2,4} = \left(\frac{8}{15}\,\zeta(2)^2\zeta(3) - \frac{221}{16}\,\zeta(7) + \frac{33}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{5}{3}\zeta(3)^2 + \frac{149}{420}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(-4\,\zeta(5) + \frac{4}{3}\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,3,3} = \left(\frac{5}{8}\zeta(7) - \frac{7}{4}\zeta(2)\zeta(5) - \frac{1}{10}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{97}{420}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,4,2} = \left(\frac{11}{2}\zeta(2)\zeta(5) - \frac{17}{30}\,\zeta(2)^2\zeta(3) - \frac{109}{16}\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{2}{3}\zeta(3)^2 + \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,5,1} = \left(\frac{19}{15}\,\zeta(2)^2\zeta(3) - 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^3$$
$$-\frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,2,1,4} = \left(-\frac{13}{4}\,\zeta(2)\zeta(5) + \frac{1}{10}\zeta(2)^2\zeta(3) + \frac{61}{8}\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\zeta(3)^2 - \frac{117}{140}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(6\,\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,2,2,3} = \left(-2\,\zeta(2)^2\zeta(3) + \frac{157}{16}\,\zeta(7) - \frac{23}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{13}{140}\,\zeta(2)^3\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,2,3,2} = \left(-11\,\zeta(2)\zeta(5) + 3\,\zeta(2)^2\zeta(3) + \frac{131}{8}\,\zeta(7)\right)\mathcal{T}e^2 + \frac{7}{10}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,2,4,1} = \left(-\frac{16}{5}\,\zeta(2)^2\zeta(3) + 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{7}{10}\,\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,3,1,3} = \left(-\frac{2}{5}\zeta(2)^2\zeta(3) - \frac{1}{4}\zeta(7) + \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\zeta(3)^2 - \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,2,2} = \left(\frac{11}{4}\zeta(2)\zeta(5) + \frac{11}{5}\,\zeta(2)^2\zeta(3) - \frac{179}{16}\,\zeta(7)\right)\mathcal{T}e^2 - \frac{3}{20}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,3,1} = \left(-\frac{3}{2}\zeta(2)^2\zeta(3) + \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{4}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,4,1,2} = {} & \left(-\frac{17}{10}\,\zeta(2)^2\zeta(3) - \frac{5}{4}\zeta(2)\zeta(5) + \frac{61}{8}\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{1}{4}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\ & + \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,4,2,1} = {} & \left(\frac{3}{2}\zeta(2)^2\zeta(3) - \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{7}{20}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^3 \\ & - \zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{1,1,5,1,1} = \left(\frac{1}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 + \frac{1}{4}\zeta(2)^2\mathcal{T}e^5 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,2,1,1,4} = {} & \left(-\frac{109}{16}\,\zeta(7) - \frac{1}{2}\zeta(2)^2\zeta(3) + 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{118}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \\ & - 4\,\zeta(5)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{1,2,1,2,3} = \left(\frac{75}{8}\,\zeta(7) - \frac{9}{2}\zeta(2)\zeta(5) + \frac{11}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{6}{5}\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,3,2} = \left(-\frac{51}{10}\,\zeta(2)^2\zeta(3) + 9\,\zeta(2)\zeta(5) - \frac{67}{16}\,\zeta(7)\right)\mathcal{T}e^2 - \frac{6}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,4,1} = \left(\frac{11}{5}\,\zeta(2)^2\zeta(3) - \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{6}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,2,1,3} = \left(-\frac{291}{16}\,\zeta(7) + \frac{11}{2}\zeta(2)\zeta(5) + \frac{29}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-4\,\zeta(3)^2 + \frac{8}{7}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,2,2,2} = \left(-\frac{16}{5}\,\zeta(2)^2\zeta(3) + 4\,\zeta(2)\zeta(5) - 2\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,3,1} = \zeta(2)\left(3\,\zeta(2)\zeta(3) - 2\,\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,3,1,2} = \left(\frac{37}{10}\,\zeta(2)^2\zeta(3) - \frac{179}{16}\,\zeta(7)\right)\mathcal{T}e^2 + 2\,\zeta(3)^2\mathcal{T}e^3 \quad .$$

$$\mathcal{T}e^{1,2,3,2,1} = -4\,\zeta(3)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,4,1,1} = \left(-\frac{3}{2}\zeta(2)^2\zeta(3) + \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{7}{20}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^3$$
$$+\zeta(2)\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{1,3,1,1,3} = \left(-\frac{11}{5}\,\zeta(2)^2\zeta(3) + \frac{61}{8}\,\zeta(7)\right)\mathcal{T}e^2 + \left(-\frac{8}{21}\,\zeta(2)^3 + \zeta(3)^2\right)\mathcal{T}e^3 \quad .$$

$$\mathcal{T}e^{1,3,1,2,2} = \left(-\frac{13}{2}\zeta(2)\zeta(5) + \frac{9}{2}\zeta(2)^2\zeta(3) - \frac{67}{16}\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,3,1} = 0 \ .$$

$$\mathcal{T}e^{1,3,2,1,2} = \left(\frac{9}{2}\zeta(2)\zeta(5) - \frac{33}{5}\,\zeta(2)^2\zeta(3) + \frac{131}{8}\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,2,2,1} = -\zeta(2)\left(3\,\zeta(2)\zeta(3) - 2\,\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,3,1,1} = \left(\frac{3}{2}\zeta(2)^2\zeta(3) - \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{4}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,1,1,2} = \left(-3\,\zeta(2)\zeta(5) + \frac{7}{2}\zeta(2)^2\zeta(3) - \frac{109}{16}\,\zeta(7)\right)\mathcal{T}e^2 - \frac{2}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,1,2,1} = \left(-\frac{11}{5}\,\zeta(2)^2\zeta(3) + \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{6}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,2,1,1} = \left(\frac{16}{5}\,\zeta(2)^2\zeta(3) - 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{7}{10}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,5,1,1,1} = \left(2\,\zeta(2)\zeta(5) - \frac{19}{15}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,1,4,1} = \left(3\,\zeta(2)\zeta(5) - \frac{7}{2}\zeta(2)^2\zeta(3) + \frac{109}{16}\,\zeta(7)\right)\mathcal{T}e^2 - \frac{2}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,3,1} = \left(-\frac{9}{2}\zeta(2)\zeta(5) + \frac{33}{5}\,\zeta(2)^2\zeta(3) - \frac{131}{8}\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,3,2,1} = \left(\frac{179}{16}\,\zeta(7) - \frac{37}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + 2\,\zeta(3)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,4,1,1} = \left(\frac{5}{4}\zeta(2)\zeta(5) - \frac{61}{8}\,\zeta(7) + \frac{17}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{1}{4}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3$$
$$-\frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,2,1,3,1} = \left(\frac{67}{16}\,\zeta(7) + \frac{13}{2}\zeta(2)\zeta(5) - \frac{9}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,2,2,1} = \left(2\,\zeta(7) + \frac{16}{5}\,\zeta(2)^2\zeta(3) - 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,3,1,1} = \left(\frac{179}{16}\,\zeta(7) - \frac{11}{4}\zeta(2)\zeta(5) - \frac{11}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 - \frac{3}{20}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,3,1,2,1} = \left(\frac{67}{16}\,\zeta(7) + \frac{51}{10}\,\zeta(2)^2\zeta(3) - 9\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{6}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,3,2,1,1} = \left(-\frac{131}{8}\,\zeta(7) - 3\,\zeta(2)^2\zeta(3) + 11\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{7}{10}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,4,1,1,1} = \left(-\frac{11}{2}\zeta(2)\zeta(5) + \frac{109}{16}\,\zeta(7) + \frac{17}{30}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{2}{3}\zeta(3)^2 + \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^3$$
$$-\frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,1,1,3,1} = \left(-\frac{61}{8}\,\zeta(7) + \frac{11}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{8}{21}\,\zeta(2)^3 + \zeta(3)^2\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2,2,1} = \left(\frac{291}{16}\,\zeta(7) - \frac{29}{10}\,\zeta(2)^2\zeta(3) - \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-4\,\zeta(3)^2 + \frac{8}{7}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,3,1,1} = \left(\frac{1}{4}\zeta(7) + \frac{2}{5}\zeta(2)^2\zeta(3) - \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{1}{2}\zeta(3)^2 - \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,2,1} = \left(-\frac{75}{8}\,\zeta(7) + \frac{9}{2}\zeta(2)\zeta(5) - \frac{11}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{6}{5}\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,2,1,1} = \left(-\frac{157}{16}\,\zeta(7) + \frac{23}{4}\,\zeta(2)\zeta(5) + 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(2\,\zeta(3)^2 - \frac{13}{140}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,3,1,1,1} = \left(-\frac{5}{8}\zeta(7) + \frac{1}{10}\zeta(2)^2\zeta(3) + \frac{7}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{97}{420}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,1,2,1} = \left(\frac{109}{16}\,\zeta(7) + \frac{1}{2}\zeta(2)^2\zeta(3) - 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{118}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^3$$
$$+4\,\zeta(5)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,2,1,1} = \left(-\frac{61}{8}\,\zeta(7) + \frac{13}{4}\,\zeta(2)\zeta(5) - \frac{1}{10}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2$$
$$+\left(\frac{1}{2}\zeta(3)^2 - \frac{117}{140}\,\zeta(2)^3\right)\mathcal{T}e^3 + \left(-6\,\zeta(5) + \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,2,1,1,1} = \left(\frac{221}{16}\,\zeta(7) - \frac{8}{15}\,\zeta(2)^2\zeta(3) - \frac{33}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{5}{3}\zeta(3)^2 + \frac{149}{420}\,\zeta(2)^3\right)\mathcal{T}e^3 + \left(4\,\zeta(5) - \frac{4}{3}\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{5,1,1,1,1} = \left(-5\,\zeta(7) + \frac{2}{15}\zeta(2)^2\zeta(3) + 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{5}{6}\zeta(3)^2 - \frac{17}{140}\,\zeta(2)^3\right)\mathcal{T}e^3$$
$$+\left(-\zeta(5) + \frac{5}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^4 + \frac{1}{40}\zeta(2)^2\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,1,1,1,1,4} = \left(3\,\zeta(7) - 2\,\zeta(2)\zeta(5) + \frac{11}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{3}{56}\,\zeta(2)^3 + \frac{1}{3}\zeta(3)^2\right)\mathcal{T}e^3$$
$$+\left(\frac{1}{5}\zeta(5) - \frac{1}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,1,2,3} = \left(-11\,\zeta(7) - \frac{1}{24}\zeta(2)^2\zeta(3) + \frac{27}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{159}{280}\,\zeta(2)^3 - \frac{2}{3}\zeta(3)^2\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,3,2} = \left(-4\,\zeta(7) - \frac{9}{40}\,\zeta(2)^2\zeta(3) + \frac{9}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{40}\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,4,1} = \left(-\zeta(2)\zeta(5) + \frac{97}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 - \frac{1}{40}\zeta(2)^3\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,2,1,3} = \left(17\,\zeta(7) - \frac{33}{4}\,\zeta(2)\zeta(5) - \frac{1}{30}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(\frac{1}{3}\zeta(3)^2 - \frac{59}{35}\,\zeta(2)^3\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,2,2,2} = \left(10\,\zeta(7) - 9\,\zeta(2)\zeta(5) + \frac{2}{15}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,2,3,1} = -\frac{1}{2}\zeta(2)\left(3\,\zeta(2)\zeta(3) - 8\,\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,3,1,2} = \left(3\,\zeta(7) - \frac{43}{30}\,\zeta(2)^2\zeta(3) + \frac{1}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{3}\zeta(3)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,3,2,1} = \frac{2}{3}\zeta(3)^2\mathcal{T}e^3 + \frac{13}{30}\,\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,1,4,1,1} = \ & \left(\frac{37}{60}\,\zeta(2)^2\zeta(3) - \zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{20}\zeta(2)^3\right)\mathcal{T}e^3 \\ & -\frac{1}{6}\zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{1,1,2,1,1,3} = \left(\frac{13}{2}\zeta(2)\zeta(5) + \frac{1}{5}\zeta(2)^2\zeta(3) - 18\,\zeta(7)\right)\mathcal{T}e^2 + \frac{73}{35}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,2,1,2,2} = \left(7\,\zeta(2)\zeta(5) - \frac{2}{5}\zeta(2)^2\zeta(3) + 3\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,3,1} = \frac{1}{4}\zeta(2)\left(-25\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,2,1,2} = \left(5\,\zeta(2)\zeta(5) + \frac{14}{5}\,\zeta(2)^2\zeta(3) - 18\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,2,2,1} = \frac{1}{5}\zeta(2)\left(5\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,3,1,1} = \left(-\frac{39}{20}\,\zeta(2)^2\zeta(3) + \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{7}{20}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,1,1,2} = \left(-\frac{5}{2}\zeta(2)\zeta(5) + \frac{3}{5}\zeta(2)^2\zeta(3) + 3\,\zeta(7)\right)\mathcal{T}e^2 - \frac{1}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,1,2,1} = \left(-\frac{17}{10}\,\zeta(2)^2\zeta(3) + \frac{9}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{3}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,2,1,1} = \left(\frac{39}{20}\,\zeta(2)^2\zeta(3) - \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{7}{20}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,4,1,1,1} = \ & \left(-\frac{37}{60}\,\zeta(2)^2\zeta(3) + \zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{20}\zeta(2)^3\right)\mathcal{T}e^3 \\ & +\frac{1}{6}\zeta(2)\zeta(3)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{1,2,1,1,1,3} = \left(10\,\zeta(7) - \frac{6}{5}\zeta(2)^2\zeta(3) - \zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,1,2,2} = \left(-8\,\zeta(2)\zeta(5) - 4\,\zeta(7) + \frac{12}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,3,1} = 4\,\zeta(2)\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,2,1,2} = 3\,\zeta(7)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,2,2,1} = -\frac{12}{5}\,\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,3,1,1} = \left(\frac{17}{10}\,\zeta(2)^2\zeta(3) - \frac{9}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{3}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,2,1,1,2} = \left(-4\,\zeta(2)^2\zeta(3) + 10\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,1,2,1} = \frac{12}{5}\,\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,2,1,1} = -\frac{1}{5}\zeta(2)\left(5\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,3,1,1,1} = -\frac{13}{30}\,\zeta(2)^2\zeta(3)\mathcal{T}e^2\frac{2}{3}\zeta(3)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,1,1,1,2} = \left(\zeta(2)\zeta(5) - 4\,\zeta(7) + \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,1,2,1} = -4\,\zeta(2)\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,2,1,1} = -\frac{1}{4}\zeta(2)\left(-25\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,2,1,1,1} = \frac{1}{2}\zeta(2)\left(3\,\zeta(2)\zeta(3) - 8\,\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,4,1,1,1,1} = \left(\zeta(2)\zeta(5) - \frac{97}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 - \frac{1}{40}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,3,1} = \left(-\zeta(2)\zeta(5) + 4\,\zeta(7) - \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,2,2,1} = \left(-10\,\zeta(7) + 4\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,3,1,1} = \left(-3\,\zeta(7) - \frac{3}{5}\zeta(2)^2\zeta(3) + \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{5}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,1,2,1} = -3\,\zeta(7)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,2,1,1} = \left(18\,\zeta(7) - \frac{14}{5}\,\zeta(2)^2\zeta(3) - 5\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,3,1,1,1} = \left(-3\,\zeta(7) + \frac{43}{30}\,\zeta(2)^2\zeta(3) - \frac{1}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{3}\zeta(3)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,1,1,2,1} = \left(4\,\zeta(7) - \frac{12}{5}\,\zeta(2)^2\zeta(3) + 8\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,2,1,1} = \left(-3\,\zeta(7) + \frac{2}{5}\zeta(2)^2\zeta(3) - 7\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,2,1,1,1} = \left(9\,\zeta(2)\zeta(5) - \frac{2}{15}\zeta(2)^2\zeta(3) - 10\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,3,1,1,1,1} = \left(4\,\zeta(7) + \frac{9}{40}\,\zeta(2)^2\zeta(3) - \frac{9}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{40}\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,1,2,1} = \left(-10\,\zeta(7) + \zeta(2)\zeta(5) + \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 - \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,2,1,1} = \left(18\,\zeta(7) - \frac{13}{2}\zeta(2)\zeta(5) - \frac{1}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \frac{73}{35}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2,1,1,1} = \left(\frac{33}{4}\,\zeta(2)\zeta(5) + \frac{1}{30}\zeta(2)^2\zeta(3) - 17\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{1}{3}\zeta(3)^2 - \frac{59}{35}\,\zeta(2)^3\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,1,1,1} = \left(\frac{1}{24}\zeta(2)^2\zeta(3) - \frac{27}{4}\,\zeta(2)\zeta(5) + 11\,\zeta(7)\right)\mathcal{T}e^2 + \left(\frac{159}{280}\,\zeta(2)^3 - \frac{2}{3}\zeta(3)^2\right)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,1,1,1} = \ & \left(2\,\zeta(2)\zeta(5) - 3\,\zeta(7) - \frac{11}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 + \left(-\frac{3}{56}\,\zeta(2)^3 + \frac{1}{3}\zeta(3)^2\right)\mathcal{T}e^3 \\ & + \left(-\frac{1}{5}\zeta(5) + \frac{1}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{1,1,1,1,1,1,3} = \left(\frac{7}{120}\,\zeta(2)^2\zeta(3) + \zeta(7) - \frac{7}{10}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{1}{112}\,\zeta(2)^3 + \frac{1}{18}\zeta(3)^2\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,2,2} = \left(\frac{12}{5}\,\zeta(2)\zeta(5) + \frac{1}{60}\,\zeta(2)^2\zeta(3) - 6\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,3,1} = \frac{1}{30}\zeta(2)\left(-6\,\zeta(5) + 5\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,2,1,2} = \left(-3\,\zeta(2)\zeta(5) - \frac{2}{5}\zeta(2)^2\zeta(3) + 15\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,2,2,1} = \frac{1}{20}\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,3,1,1} = \left(-\frac{1}{2}\zeta(2)\zeta(5) + \frac{47}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 - \frac{1}{80}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,1,2,1,1,2} = \left(2\,\zeta(2)\zeta(5) + \frac{4}{15}\,\zeta(2)^2\zeta(3) - 20\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,2,1,2,1} = -\frac{2}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,2,2,1,1} = -\frac{1}{30}\zeta(2)\left(-60\,\zeta(5) + 13\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,3,1,1,1} = -\frac{1}{9}\zeta(3)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,2,1,1,1,2} = 15\,\zeta(7)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,1,2,1} = -2\,\zeta(2)\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,2,1,1} = 0 \ .$$

$$\mathcal{T}e^{1,1,2,2,1,1,1} = \frac{1}{30}\zeta(2)\left(-60\,\zeta(5) + 13\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,3,1,1,1,1} = \left(\frac{1}{2}\zeta(2)\zeta(5) - \frac{47}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^2 - \frac{1}{80}\,\zeta(2)^3\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,1,2} = -6\,\zeta(7)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,2,1,1,2,1,1} = 2\,\zeta(2)\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,2,1,1,1} = \frac{2}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,1,1,1,1} = -\frac{1}{20}\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,1,1,1,1} = \frac{1}{30}\zeta(2)\left(6\,\zeta(5) - 5\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,2,1} = 6\,\zeta(7)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,2,1,1} = -15\,\zeta(7)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,2,1,1,1} = \left(-2\,\zeta(2)\zeta(5) - \frac{4}{15}\,\zeta(2)^2\zeta(3) + 20\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,1,1,1} = \left(3\,\zeta(2)\zeta(5) + \frac{2}{5}\zeta(2)^2\zeta(3) - 15\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,1,1,1} = \left(-\frac{12}{5}\,\zeta(2)\zeta(5) - \frac{1}{60}\,\zeta(2)^2\zeta(3) + 6\,\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,1,1,1,1} = \ & \left(\frac{7}{10}\,\zeta(2)\zeta(5) - \frac{7}{120}\,\zeta(2)^2\zeta(3) - \zeta(7)\right)\mathcal{T}e^2 \\ & + \left(-\frac{1}{112}\,\zeta(2)^3 + \frac{1}{18}\zeta(3)^2\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{1,1,1,1,1,1,1,2} = \left(-\frac{1}{10}\zeta(2)\zeta(5) + \frac{1}{120}\,\zeta(2)^2\zeta(3) + \frac{1}{7}\zeta(7)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,2,1,1} = -\frac{1}{60}\,\zeta(2)\,(6\,\zeta(5) - 5\,\zeta(2)\zeta(3))\,\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,2,1,1,1} = -\frac{1}{120}\,\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,2,1,1,1,1} = \frac{1}{120}\,\zeta(2)^2\zeta(3)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,1,1,1,1} = \frac{1}{60}\,\zeta(2)\,(6\,\zeta(5) - 5\,\zeta(2)\zeta(3))\,\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,1,1,1} = 0 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,1,1} = \left(-\frac{1}{7}\zeta(7) - \frac{1}{120}\,\zeta(2)^2\zeta(3) + \frac{1}{10}\zeta(2)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,1,1,1} = \frac{1}{280}\,\zeta(2)^4\mathcal{T}e^1 \ .$$

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$$\begin{aligned}
\mathcal{T}e^{1,9} = & -\frac{24}{175}\,\zeta(2)^4\mathcal{T}e^2 + \zeta(7)\mathcal{T}e^3 - \frac{8}{35}\,\zeta(2)^3\mathcal{T}e^4 + \zeta(5)\mathcal{T}e^5 - \frac{2}{5}\zeta(2)^2\mathcal{T}e^6 \\
& +\zeta(3)\mathcal{T}e^7 - \zeta(2)\mathcal{T}e^8 \ . \\
\mathcal{T}e^{9,1} = & -\frac{24}{175}\,\zeta(2)^4\mathcal{T}e^2 - \zeta(7)\mathcal{T}e^3 - \frac{8}{35}\,\zeta(2)^3\mathcal{T}e^4 - \zeta(5)\mathcal{T}e^5 - \frac{2}{5}\zeta(2)^2\mathcal{T}e^6 \\
& -\zeta(3)\mathcal{T}e^7 - \zeta(2)\mathcal{T}e^8 \ . \\
\mathcal{T}e^{1,1,8} = & \left(-\frac{6}{35}\,\zeta(2)^4 + \zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(3\,\zeta(7) - \frac{2}{5}\zeta(2)^2\zeta(3) - \zeta(2)\zeta(5)\right)\mathcal{T}e^3 \\
& + \left(-\frac{6}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^4 + \left(2\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^5 - \frac{1}{10}\zeta(2)^2\mathcal{T}e^6 \\
& -\frac{1}{2}\zeta(2)\mathcal{T}e^8 \ . \\
\mathcal{T}e^{1,2,7} = & \left(\frac{8}{35}\,\zeta(2)^4 - \zeta(6,2)\right)\mathcal{T}e^2 + \left(4\,\zeta(2)\zeta(5) - 11\,\zeta(7) + \frac{4}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \\
& + \left(\frac{74}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 + \left(2\,\zeta(2)\zeta(3) - \frac{11}{2}\zeta(5)\right)\mathcal{T}e^5 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^6 \\
& -2\,\zeta(3)\mathcal{T}e^7 \ . \\
\mathcal{T}e^{1,3,6} = & \left(-\frac{93}{175}\,\zeta(2)^4 - 4\,\zeta(3)\zeta(5) + \frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2 \\
& + \left(17\,\zeta(7) - \frac{2}{5}\zeta(2)^2\zeta(3) - 6\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{38}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^4 \\
& + \left(\frac{9}{2}\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^5 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{1,4,5} = & \left(-5\,\zeta(3)\zeta(5) + \frac{626}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\frac{6}{5}\zeta(2)^2\zeta(3) - 18\,\zeta(7) + 5\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \\
& + \left(\frac{118}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 + \left(-3\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^5 \ . \\
\mathcal{T}e^{1,5,4} = & \left(15\,\zeta(3)\zeta(5) - \frac{207}{35}\,\zeta(2)^4 - \frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2 \\
& + \left(-5\,\zeta(2)\zeta(5) - \frac{4}{5}\zeta(2)^2\zeta(3) + 10\,\zeta(7)\right)\mathcal{T}e^3 + \left(-\frac{4}{5}\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^4 \ .
\end{aligned}$$

$$\mathcal{T}e^{1,6,3} = \left(-13\,\zeta(3)\zeta(5)+\zeta(6,2)+\frac{792}{175}\,\zeta(2)^4\right)\mathcal{T}e^2+\left(7\,\zeta(2)\zeta(5)-\frac{2}{5}\zeta(2)^2\zeta(3)-4\,\zeta(7)\right)\mathcal{T}e^3$$
$$+\left(\frac{6}{5}\zeta(2)^3-\zeta(3)^2\right)\mathcal{T}e^4+\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,7,2} = \left(-\frac{54}{25}\,\zeta(2)^4+7\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2+\left(-3\,\zeta(2)\zeta(5)+\frac{2}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3$$
$$+\left(2\,\zeta(3)^2-\frac{8}{5}\zeta(2)^3\right)\mathcal{T}e^4-\zeta(2)\zeta(3)\mathcal{T}e^5-\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{1,8,1} = \left(\frac{108}{175}\,\zeta(2)^4-2\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2+\left(\frac{4}{5}\zeta(2)^3-\zeta(3)^2\right)\mathcal{T}e^4+\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{2,7,1} = \left(-\frac{54}{25}\,\zeta(2)^4+7\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2+\left(3\,\zeta(2)\zeta(5)-\frac{2}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3$$
$$+\left(2\,\zeta(3)^2-\frac{8}{5}\zeta(2)^3\right)\mathcal{T}e^4+\zeta(2)\zeta(3)\mathcal{T}e^5-\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{3,6,1} = \left(-13\,\zeta(3)\zeta(5)+\zeta(6,2)+\frac{792}{175}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-7\,\zeta(2)\zeta(5)+\frac{2}{5}\zeta(2)^2\zeta(3)+4\,\zeta(7)\right)\mathcal{T}e^3+\left(\frac{6}{5}\zeta(2)^3-\zeta(3)^2\right)\mathcal{T}e^4$$
$$-\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{4,5,1} = \left(15\,\zeta(3)\zeta(5)-\frac{207}{35}\,\zeta(2)^4-\frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(5\,\zeta(2)\zeta(5)+\frac{4}{5}\zeta(2)^2\zeta(3)-10\,\zeta(7)\right)\mathcal{T}e^3+\left(-\frac{4}{5}\zeta(2)^3+\frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{5,4,1} = \left(-5\,\zeta(3)\zeta(5)+\frac{626}{175}\,\zeta(2)^4\right)\mathcal{T}e^2+\left(-\frac{6}{5}\zeta(2)^2\zeta(3)+18\,\zeta(7)-5\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3$$
$$+\left(\frac{118}{105}\,\zeta(2)^3-\zeta(3)^2\right)\mathcal{T}e^4+\left(3\,\zeta(5)-\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{6,3,1} = \left(-\frac{93}{175}\,\zeta(2)^4-4\,\zeta(3)\zeta(5)+\frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-17\,\zeta(7)+\frac{2}{5}\zeta(2)^2\zeta(3)+6\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3+\left(-\frac{38}{35}\,\zeta(2)^3+\frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^4$$
$$+\left(-\frac{9}{2}\zeta(5)+\zeta(2)\zeta(3)\right)\mathcal{T}e^5-\frac{1}{2}\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{7,2,1} = \left(\frac{8}{35}\,\zeta(2)^4 - \zeta(6,2)\right)\mathcal{T}e^2 + \left(11\,\zeta(7) - \frac{4}{5}\zeta(2)^2\zeta(3) - 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3$$
$$+\left(\frac{74}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 + \left(-2\,\zeta(2)\zeta(3) + \frac{11}{2}\zeta(5)\right)\mathcal{T}e^5 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^6$$
$$+2\,\zeta(3)\mathcal{T}e^7\ .$$

$$\mathcal{T}e^{8,1,1} = \left(-\frac{6}{35}\,\zeta(2)^4 + \zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-3\,\zeta(7) + \frac{2}{5}\zeta(2)^2\zeta(3) + \zeta(2)\zeta(5)\right)\mathcal{T}e^3$$
$$+\left(-\frac{6}{35}\,\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^4 + \left(-2\,\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^5 - \frac{1}{10}\zeta(2)^2\mathcal{T}e^6$$
$$-\zeta(3)\mathcal{T}e^7 - \frac{1}{2}\zeta(2)\mathcal{T}e^8\ .$$

$$\mathcal{T}e^{1,1,1,7} = \left(-\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{41}{175}\,\zeta(2)^4 + 3\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(5\,\zeta(7) - \frac{1}{2}\zeta(2)^2\zeta(3) - \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{9}{70}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(2\,\zeta(5) - \frac{3}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{1}{3}\zeta(3)\mathcal{T}e^7 + \frac{1}{10}\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{1,1,2,6} = \left(-\frac{431}{1050}\,\zeta(2)^4 - \frac{5}{2}\zeta(3)\zeta(5) - \frac{7}{4}\zeta(6,2) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{221}{16}\,\zeta(7) + \zeta(2)^2\zeta(3) + \frac{15}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-2\,\zeta(3)^2 + \frac{11}{30}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(-\frac{11}{2}\zeta(5) + 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{1,1,3,5} = \left(-\frac{31}{2}\,\zeta(3)\zeta(5) + \frac{1291}{350}\,\zeta(2)^4 + \frac{25}{4}\,\zeta(6,2) - \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{61}{8}\,\zeta(7) + \frac{11}{10}\,\zeta(2)^2\zeta(3) - 7\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{2}\zeta(3)^2 + \frac{41}{210}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(-\frac{1}{2}\zeta(5) + \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,1,4,4} = \left(-\frac{15}{4}\,\zeta(6,2) + 12\,\zeta(3)\zeta(5) - \frac{463}{150}\,\zeta(2)^4 + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{109}{16}\,\zeta(7) - \frac{1}{10}\zeta(2)^2\zeta(3) + 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{2}\zeta(3)^2 + \frac{1}{42}\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$
\begin{aligned}
\mathcal{T}e^{1,1,5,3} = & \left(-4\,\zeta(3)\zeta(5) + \frac{257}{350}\,\zeta(2)^4 - \frac{7}{4}\zeta(6,2) + \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(-2\,\zeta(7) - \frac{6}{5}\zeta(2)^2\zeta(3) + \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{3}{5}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 \\
& + \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^5 \ . \\
\mathcal{T}e^{1,1,6,2} = & \left(-\zeta(2)\zeta(3)^2 - \frac{8}{25}\,\zeta(2)^4 + 4\,\zeta(3)\zeta(5) + \zeta(6,2)\right)\mathcal{T}e^2 \\
& + \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^4 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{1,1,7,1} = & \left(\frac{57}{175}\,\zeta(2)^4 - 3\,\zeta(3)\zeta(5) + \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(-\frac{3}{2}\zeta(2)\zeta(5) + \frac{7}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{3}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 \\
& - \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^5 + \frac{1}{2}\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{1,2,1,6} = & \left(\zeta(6,2) + \frac{47}{105}\,\zeta(2)^4 - \frac{13}{2}\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(\frac{5}{8}\zeta(7) + \frac{3}{10}\zeta(2)^2\zeta(3) + \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{2}\zeta(3)^2 - \frac{17}{42}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(\frac{9}{2}\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^5 - \frac{6}{5}\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{1,2,2,5} = & \left(30\,\zeta(3)\zeta(5) - \frac{526}{175}\,\zeta(2)^4 - \frac{9}{2}\zeta(6,2) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(-\frac{19}{5}\,\zeta(2)^2\zeta(3) - 2\,\zeta(2)\zeta(5) + \frac{157}{16}\,\zeta(7)\right)\mathcal{T}e^3 + \left(4\,\zeta(3)^2 - \frac{31}{70}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(2\,\zeta(5) - 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5 \ . \\
\mathcal{T}e^{1,2,3,4} = & \left(-\frac{13}{4}\,\zeta(6,2) - \frac{5}{2}\zeta(3)\zeta(5) - \frac{101}{70}\,\zeta(2)^4 - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(\frac{75}{8}\,\zeta(7) + \frac{1}{5}\zeta(2)^2\zeta(3) - \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{143}{210}\,\zeta(2)^3\right)\mathcal{T}e^4 \ .
\end{aligned}
$$

$$\mathcal{T}e^{1,2,4,3} = \left(10\,\zeta(6,2) - \frac{7}{2}\zeta(3)\zeta(5) + \frac{1706}{525}\,\zeta(2)^4 - \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{115}{16}\,\zeta(7) - \frac{11}{2}\zeta(2)\zeta(5) + \frac{19}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + 2\,\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,5,2} = \left(-\frac{27}{2}\,\zeta(3)\zeta(5) + \frac{31}{42}\,\zeta(2)^4 - \frac{3}{4}\zeta(6,2) + 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\zeta(2)^2\zeta(3) - \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-4\,\zeta(3)^2 + \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^4 - 2\,\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,2,6,1} = \left(\frac{15}{2}\zeta(3)\zeta(5) - \frac{517}{525}\,\zeta(2)^4 - \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{19}{10}\,\zeta(2)^2\zeta(3) + \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+2\,\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,3,1,5} = \left(-\frac{5}{2}\zeta(6,2) + \frac{19}{2}\zeta(3)\zeta(5) - \frac{256}{175}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{4}\zeta(7) - \frac{1}{2}\zeta(2)^2\zeta(3) + \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{13}{70}\,\zeta(2)^3\mathcal{T}e^4 - \frac{1}{2}\zeta(5)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,3,2,4} = \left(10\,\zeta(6,2) - \frac{91}{2}\,\zeta(3)\zeta(5) + \frac{656}{105}\,\zeta(2)^4 + 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{291}{16}\,\zeta(7) + \frac{31}{10}\,\zeta(2)^2\zeta(3) + \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-3\,\zeta(3)^2 + \frac{37}{42}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,3,3,3} = \left(-\frac{691}{350}\,\zeta(2)^4 - \frac{27}{4}\,\zeta(6,2) + \frac{27}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{51}{8}\,\zeta(7) + \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,3,4,2} = \left(-\frac{25}{4}\,\zeta(6,2) + \frac{37}{2}\,\zeta(3)\zeta(5) - \frac{167}{42}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\frac{9}{2}\zeta(2)\zeta(5) - 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3$$
$$-\frac{1}{2}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,3,5,1} = \left(-\frac{9}{2}\zeta(3)\zeta(5) + \frac{59}{35}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\frac{3}{2}\zeta(2)^2\zeta(3) - \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{1}{2}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,4,1,4} = -\frac{4}{105}\,\zeta(2)^4\mathcal{T}e^2 + \left(-\frac{11}{5}\,\zeta(2)^2\zeta(3) + \frac{61}{8}\,\zeta(7)\right)\mathcal{T}e^3$$
$$+\left(\frac{3}{2}\zeta(3)^2 - \frac{11}{21}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,4,2,3} = \left(-\frac{11}{2}\zeta(6,2) + \frac{73}{2}\,\zeta(3)\zeta(5) - \frac{2549}{525}\,\zeta(2)^4 - 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{115}{16}\,\zeta(7) - \frac{17}{2}\zeta(2)\zeta(5) + \frac{23}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,4,3,2} = \left(\frac{25}{4}\,\zeta(6,2) - \frac{37}{2}\,\zeta(3)\zeta(5) + \frac{167}{42}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\frac{3}{2}\zeta(2)\zeta(5) - \zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,4,4,1} = \left(-\frac{236}{105}\,\zeta(2)^4 + 6\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,5,1,3} = \left(\frac{5}{2}\zeta(6,2) - \frac{19}{2}\zeta(3)\zeta(5) + \frac{38}{25}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-2\,\zeta(7) + \frac{7}{10}\,\zeta(2)^2\zeta(3) - \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{1}{10}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,5,2,2} = \left(\frac{3}{4}\zeta(6,2) - 15\,\zeta(3)\zeta(5) + \frac{57}{70}\,\zeta(2)^4 + 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(2\,\zeta(2)\zeta(5) - \frac{17}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{3}{10}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,5,3,1} = \left(-\frac{9}{2}\zeta(3)\zeta(5) + \frac{59}{35}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(-\frac{3}{2}\zeta(2)^2\zeta(3) + \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{1}{2}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,6,1,2} = \left(\frac{13}{2}\zeta(3)\zeta(5) - \frac{341}{525}\,\zeta(2)^4 - \zeta(6,2) - \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{2}\zeta(2)\zeta(5) + \frac{9}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{1}{2}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 + \zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,6,2,1} = \left(\frac{15}{2}\zeta(3)\zeta(5) - \frac{517}{525}\,\zeta(2)^4 - \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(\frac{19}{10}\,\zeta(2)^2\zeta(3) - \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3$$
$$+\left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^4 - 2\,\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,7,1,1} = \left(\frac{57}{175}\,\zeta(2)^4 - 3\,\zeta(3)\zeta(5) + \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(\frac{3}{2}\zeta(2)\zeta(5) - \frac{7}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3$$
$$+\left(\frac{3}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 + \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^5 + \frac{1}{2}\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{2,1,6,1} = \left(\frac{13}{2}\zeta(3)\zeta(5) - \frac{341}{525}\,\zeta(2)^4 - \zeta(6,2) - \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+ \left(\frac{1}{2}\zeta(2)\zeta(5) - \frac{9}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{1}{2}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 - \zeta(2)\zeta(3)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{2,2,5,1} = \left(\frac{3}{4}\zeta(6,2) - 15\,\zeta(3)\zeta(5) + \frac{57}{70}\,\zeta(2)^4 + 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+ \left(\frac{17}{10}\,\zeta(2)^2\zeta(3) - 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{3}{10}\zeta(2)^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,3,4,1} = \left(\frac{25}{4}\,\zeta(6,2) - \frac{37}{2}\,\zeta(3)\zeta(5) + \frac{167}{42}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(-\frac{3}{2}\zeta(2)\zeta(5) + \zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,4,3,1} = \left(-\frac{25}{4}\,\zeta(6,2) + \frac{37}{2}\,\zeta(3)\zeta(5) - \frac{167}{42}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+ \left(-\frac{9}{2}\zeta(2)\zeta(5) + 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{1}{2}\zeta(2)^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,5,2,1} = \left(-\frac{27}{2}\,\zeta(3)\zeta(5) + \frac{31}{42}\,\zeta(2)^4 - \frac{3}{4}\zeta(6,2) + 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+ \left(\frac{11}{2}\zeta(2)\zeta(5) - \zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(-4\,\zeta(3)^2 + \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^4 + 2\,\zeta(2)\zeta(3)\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{2,6,1,1} = \left(-\zeta(2)\zeta(3)^2 - \frac{8}{25}\,\zeta(2)^4 + 4\,\zeta(3)\zeta(5) + \zeta(6,2)\right)\mathcal{T}e^2$$
$$+ \left(2\,\zeta(3)^2 - \frac{7}{10}\,\zeta(2)^3\right)\mathcal{T}e^4 - \frac{1}{2}\zeta(2)^2\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{3,1,5,1} = \left(\frac{5}{2}\zeta(6,2) - \frac{19}{2}\zeta(3)\zeta(5) + \frac{38}{25}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+ \left(2\,\zeta(7) - \frac{7}{10}\,\zeta(2)^2\zeta(3) + \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{1}{10}\zeta(2)^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,2,4,1} = \left(-\frac{11}{2}\zeta(6,2) + \frac{73}{2}\,\zeta(3)\zeta(5) - \frac{2549}{525}\,\zeta(2)^4 - 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+ \left(-\frac{115}{16}\,\zeta(7) - \frac{23}{10}\,\zeta(2)^2\zeta(3) + \frac{17}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,3,3,1} = \left(-\frac{691}{350}\,\zeta(2)^4 - \frac{27}{4}\,\zeta(6,2) + \frac{27}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{51}{8}\,\zeta(7) - \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,4,2,1} = \left(10\,\zeta(6,2) - \frac{7}{2}\zeta(3)\zeta(5) + \frac{1706}{525}\,\zeta(2)^4 - \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{115}{16}\,\zeta(7) - \frac{19}{10}\,\zeta(2)^2\zeta(3) + \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + 2\,\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,5,1,1} = \left(-4\,\zeta(3)\zeta(5) + \frac{257}{350}\,\zeta(2)^4 - \frac{7}{4}\zeta(6,2) + \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(2\,\zeta(7) + \frac{6}{5}\zeta(2)^2\zeta(3) - \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{3}{5}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4$$
$$-\frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{4,1,4,1} = -\frac{4}{105}\,\zeta(2)^4\mathcal{T}e^2 + \left(-\frac{61}{8}\,\zeta(7) + \frac{11}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{3}{2}\zeta(3)^2 - \frac{11}{21}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,2,3,1} = \left(10\,\zeta(6,2) - \frac{91}{2}\,\zeta(3)\zeta(5) + \frac{656}{105}\,\zeta(2)^4 + 3\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{291}{16}\,\zeta(7) - \frac{11}{2}\zeta(2)\zeta(5) - \frac{31}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(-3\,\zeta(3)^2 + \frac{37}{42}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,3,2,1} = \left(-\frac{13}{4}\,\zeta(6,2) - \frac{5}{2}\zeta(3)\zeta(5) - \frac{101}{70}\,\zeta(2)^4 - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{75}{8}\,\zeta(7) - \frac{1}{5}\zeta(2)^2\zeta(3) + \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{143}{210}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,4,1,1} = \left(-\frac{15}{4}\,\zeta(6,2) + 12\,\zeta(3)\zeta(5) - \frac{463}{150}\,\zeta(2)^4 + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{109}{16}\,\zeta(7) + \frac{1}{10}\zeta(2)^2\zeta(3) - 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{2}\zeta(3)^2 + \frac{1}{42}\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{5,1,3,1} = \left(-\frac{5}{2}\zeta(6,2) + \frac{19}{2}\zeta(3)\zeta(5) - \frac{256}{175}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{1}{4}\zeta(7) - \frac{1}{2}\zeta(2)\zeta(5) + \frac{1}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \frac{13}{70}\,\zeta(2)^3\mathcal{T}e^4 + \frac{1}{2}\zeta(5)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{5,2,2,1} = \left(30\,\zeta(3)\zeta(5) - \frac{526}{175}\,\zeta(2)^4 - \frac{9}{2}\zeta(6,2) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{157}{16}\,\zeta(7) + \frac{19}{5}\,\zeta(2)^2\zeta(3) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(4\,\zeta(3)^2 - \frac{31}{70}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(-2\,\zeta(5) + 2\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$
\begin{aligned}
\mathcal{T}e^{5,3,1,1} = & \left(-\frac{31}{2}\,\zeta(3)\zeta(5) + \frac{1291}{350}\,\zeta(2)^4 + \frac{25}{4}\,\zeta(6,2) - \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(-\frac{61}{8}\,\zeta(7) - \frac{11}{10}\,\zeta(2)^2\zeta(3) + 7\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{2}\zeta(3)^2 + \frac{41}{210}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(\frac{1}{2}\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^5 \ . \\
\mathcal{T}e^{6,1,2,1} = & \left(\zeta(6,2) + \frac{47}{105}\,\zeta(2)^4 - \frac{13}{2}\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(-\frac{5}{8}\zeta(7) - \frac{3}{10}\zeta(2)^2\zeta(3) - \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{2}\zeta(3)^2 - \frac{17}{42}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(-\frac{9}{2}\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^5 - \frac{6}{5}\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{6,2,1,1} = & \left(-\frac{431}{1050}\,\zeta(2)^4 - \frac{5}{2}\zeta(3)\zeta(5) - \frac{7}{4}\zeta(6,2) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(\frac{221}{16}\,\zeta(7) - \zeta(2)^2\zeta(3) - \frac{15}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-2\,\zeta(3)^2 + \frac{11}{30}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(\frac{11}{2}\zeta(5) - 3\,\zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{7}{10}\,\zeta(2)^2\mathcal{T}e^6 \ . \\
\mathcal{T}e^{7,1,1,1} = & \left(-\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{41}{175}\,\zeta(2)^4 + 3\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(-5\,\zeta(7) + \frac{1}{2}\zeta(2)^2\zeta(3) + \frac{5}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\zeta(3)^2 - \frac{9}{70}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(-2\,\zeta(5) + \frac{3}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{1}{10}\zeta(2)^2\mathcal{T}e^6 - \frac{1}{3}\zeta(3)\mathcal{T}e^7 \ . \\
\mathcal{T}e^{1,1,1,1,6} = & \left(\frac{13}{3}\zeta(3)\zeta(5) - \frac{379}{1400}\,\zeta(2)^4 - \frac{5}{4}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\
& + \left(5\,\zeta(7) - \frac{2}{15}\zeta(2)^2\zeta(3) - 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{5}{6}\zeta(3)^2 - \frac{17}{140}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(\zeta(5) - \frac{5}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{1}{40}\zeta(2)^2\mathcal{T}e^6 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{1,1,1,2,5} = & \left(\frac{11}{840}\,\zeta(2)^4 - \frac{3}{2}\zeta(6,2) + \frac{5}{2}\zeta(2)\zeta(3)^2 - \frac{20}{3}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(-\frac{221}{16}\,\zeta(7) + \frac{2}{5}\zeta(2)^2\zeta(3) + \frac{33}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{5}{3}\zeta(3)^2 + \frac{149}{420}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(-4\,\zeta(5) + \frac{4}{3}\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ . \\
\mathcal{T}e^{1,1,1,3,4} = & \left(\frac{1}{4}\zeta(2)\zeta(3)^2 - \frac{23}{3}\,\zeta(3)\zeta(5) + \frac{7643}{4200}\,\zeta(2)^4 + \frac{15}{4}\,\zeta(6,2)\right)\mathcal{T}e^2 \\
& + \left(\frac{5}{8}\zeta(7) + \frac{8}{15}\,\zeta(2)^2\zeta(3) - \frac{7}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{97}{420}\,\zeta(2)^3 - \frac{2}{3}\zeta(3)^2\right)\mathcal{T}e^4\ . \\
\mathcal{T}e^{1,1,1,4,3} = & \left(-3\,\zeta(6,2) + \frac{5}{2}\zeta(2)\zeta(3)^2 - \frac{1}{3}\zeta(3)\zeta(5) - \frac{1731}{1400}\,\zeta(2)^4\right)\mathcal{T}e^2 \\
& + \left(-\frac{109}{16}\,\zeta(7) - \frac{1}{6}\zeta(2)^2\zeta(3) + \frac{7}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{1}{3}\zeta(3)^2\mathcal{T}e^4\ . \\
\mathcal{T}e^{1,1,1,5,2} = & \left(-\frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{2}{3}\zeta(3)\zeta(5) + \frac{797}{1400}\,\zeta(2)^4 + \frac{3}{4}\zeta(6,2)\right)\mathcal{T}e^2 \\
& + \left(-\frac{9}{10}\,\zeta(2)^2\zeta(3) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{2}{3}\zeta(3)^2 + \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^5\ . \\
\mathcal{T}e^{1,1,1,6,1} = & \left(\frac{31}{350}\,\zeta(2)^4 + \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{7}{3}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(\frac{19}{15}\,\zeta(2)^2\zeta(3) - 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^4 \\
& - \frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^5\ . \\
\mathcal{T}e^{1,1,2,1,5} = & \left(\frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{15}{4}\,\zeta(6,2) + \frac{65}{56}\,\zeta(2)^4 - 11\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\
& + \left(\frac{61}{8}\,\zeta(7) + \frac{3}{5}\zeta(2)^2\zeta(3) - \frac{17}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{1}{2}\zeta(3)^2 - \frac{117}{140}\,\zeta(2)^3\right)\mathcal{T}e^4 \\
& + \left(6\,\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .
\end{aligned}
$$

$$\mathcal{T}e^{1,1,2,2,4} = \left(-\frac{11}{2}\zeta(2)\zeta(3)^2 + 40\,\zeta(3)\zeta(5) - 9\,\zeta(6,2) - \frac{16361}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{157}{16}\,\zeta(7) - \frac{14}{5}\,\zeta(2)^2\zeta(3) - 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 - \frac{13}{140}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,2,3,3} = \left(-6\,\zeta(3)\zeta(5) + \frac{27}{4}\,\zeta(6,2) - \frac{21}{4}\,\zeta(2)\zeta(3)^2 + \frac{4267}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{11}{10}\,\zeta(2)^2\zeta(3) - \frac{31}{4}\,\zeta(2)\zeta(5) + \frac{131}{8}\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,2,4,2} = \left(3\,\zeta(2)\zeta(3)^2 - \frac{5}{2}\zeta(3)\zeta(5) - \frac{3}{4}\zeta(6,2) + \frac{73}{280}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{22}{5}\,\zeta(2)^2\zeta(3) - \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{7}{10}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,2,5,1} = \left(\frac{11}{2}\zeta(3)\zeta(5) - \frac{5}{4}\zeta(2)\zeta(3)^2 - \frac{67}{150}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{37}{10}\,\zeta(2)^2\zeta(3) + \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{7}{10}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,3,1,4} = \left(-3\,\zeta(3)\zeta(5) + \frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{839}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{4}\zeta(7) - \zeta(2)^2\zeta(3) + \frac{7}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{20}\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,3,2,3} = \left(-\frac{33}{2}\,\zeta(3)\zeta(5) + \frac{9}{2}\zeta(6,2) + \frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{9071}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{39}{10}\,\zeta(2)^2\zeta(3) - \frac{1}{2}\zeta(2)\zeta(5) - \frac{179}{16}\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,3,3,2} = \left(12\,\zeta(3)\zeta(5) + \frac{3}{4}\zeta(2)\zeta(3)^2 - \frac{27}{4}\,\zeta(6,2) - \frac{7897}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{2}\zeta(2)^2\zeta(3) + \frac{7}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,3,4,1} = \left(\frac{7}{2}\zeta(3)\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{53}{70}\,\zeta(2)^4\right)\mathcal{T}e^2 - \zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,4,1,3} = \left(-\frac{9}{4}\zeta(2)\zeta(3)^2 + \frac{35}{2}\,\zeta(3)\zeta(5) - \frac{15}{4}\,\zeta(6,2) - \frac{3189}{1400}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{17}{10}\,\zeta(2)^2\zeta(3) - \frac{5}{4}\zeta(2)\zeta(5) + \frac{61}{8}\,\zeta(7)\right)\mathcal{T}e^3 - \frac{1}{20}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,4,2,2} = \left(\frac{3}{2}\zeta(2)\zeta(3)^2 - 17\,\zeta(3)\zeta(5) + \frac{21}{4}\,\zeta(6,2) + \frac{671}{280}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\zeta(2)\zeta(5) - \frac{7}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{3}{20}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,4,3,1} = \left(\frac{5}{4}\zeta(2)\zeta(3)^2 - \frac{9}{2}\zeta(3)\zeta(5) + \frac{31}{84}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\frac{9}{4}\zeta(2)\zeta(5) - \zeta(2)^2\zeta(3)\right)\mathcal{T}e^3$$
$$+\frac{1}{4}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,5,1,2} = \left(-\frac{1}{4}\zeta(2)\zeta(3)^2 + \frac{1}{2}\zeta(3)\zeta(5) - \frac{131}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{4}\zeta(2)\zeta(5) + \frac{1}{10}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{1}{4}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4$$
$$+\frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,1,5,2,1} = \left(-\frac{7}{2}\zeta(2)\zeta(3)^2 - \frac{887}{2100}\,\zeta(2)^4 + \frac{19}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{3}{2}\zeta(2)^2\zeta(3) - \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{7}{20}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^4$$
$$-\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,1,6,1,1} = \left(\frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{127}{700}\,\zeta(2)^4 - 4\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{1}{10}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 + \frac{1}{4}\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{1,2,1,1,5} = \left(\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{2329}{4200}\,\zeta(2)^4 + 5\,\zeta(3)\zeta(5) - 3\,\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{109}{16}\,\zeta(7) - \frac{1}{2}\zeta(2)^2\zeta(3) + 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{118}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4$$
$$-4\,\zeta(5)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,2,1,2,4} = \left(\frac{3019}{4200}\,\zeta(2)^4 - \zeta(2)\zeta(3)^2 + \frac{27}{4}\,\zeta(6,2) - \frac{23}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{75}{8}\,\zeta(7) + \zeta(2)^2\zeta(3) - \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 - \frac{6}{5}\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,1,3,3} = \left(-\frac{27}{2}\,\zeta(6,2) - \frac{137}{40}\,\zeta(2)^4 + \frac{63}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{67}{16}\,\zeta(7) + \frac{9}{2}\zeta(2)\zeta(5) - \frac{1}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,1,4,2} = \left(\frac{4247}{4200}\,\zeta(2)^4 - 3\,\zeta(2)\zeta(3)^2 + \frac{33}{4}\,\zeta(6,2) - \frac{17}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{17}{5}\,\zeta(2)^2\zeta(3) + \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{6}{5}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,1,5,1} = \left(\frac{929}{1050}\,\zeta(2)^4 - \frac{9}{2}\zeta(3)\zeta(5) + \frac{3}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(\frac{11}{5}\,\zeta(2)^2\zeta(3) - \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{6}{5}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,2,1,4} = \left(\frac{13871}{4200}\,\zeta(2)^4 - \zeta(2)\zeta(3)^2 + \frac{9}{2}\zeta(6,2) - \frac{37}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{291}{16}\,\zeta(7) + \frac{31}{10}\,\zeta(2)^2\zeta(3) + \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-4\,\zeta(3)^2 + \frac{8}{7}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,2,2,3} = \left(\frac{381}{1400}\,\zeta(2)^4 + 12\,\zeta(2)\zeta(3)^2 - 21\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-2\,\zeta(7) - \frac{3}{5}\zeta(2)^2\zeta(3) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,2,3,2} = \left(-\frac{9}{2}\zeta(6,2) - \frac{1567}{1400}\,\zeta(2)^4 + 9\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(2)\zeta(5) - 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,2,4,1} = \left(\frac{31}{70}\,\zeta(2)^4 - 8\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-2\,\zeta(2)\zeta(5) + 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,3,1,3} = \left(\frac{27}{4}\,\zeta(6,2) + \frac{3413}{840}\,\zeta(2)^4 + \frac{3}{2}\zeta(2)\zeta(3)^2 - 27\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{179}{16}\,\zeta(7) + \frac{16}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,3,2,2} = \left(-\frac{5867}{4200}\,\zeta(2)^4 - 6\,\zeta(2)\zeta(3)^2 + 15\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \frac{3}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,3,3,1} = \left(\frac{139}{420}\,\zeta(2)^4 - 3\,\zeta(2)\zeta(3)^2 + 9\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,4,1,2} = \left(-\frac{21}{4}\,\zeta(6,2) - \frac{387}{200}\,\zeta(2)^4 + 2\,\zeta(2)\zeta(3)^2 + 10\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$

$$+\frac{3}{10}\zeta(2)^2\zeta(3)\mathcal{T}e^3 + 2\,\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,4,2,1} = \left(-22\,\zeta(3)\zeta(5) + 8\,\zeta(2)\zeta(3)^2 + \frac{49}{100}\,\zeta(2)^4\right)\mathcal{T}e^2 - 4\,\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,5,1,1} = \left(-\frac{7}{2}\zeta(2)\zeta(3)^2 - \frac{887}{2100}\,\zeta(2)^4 + \frac{19}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$

$$+\left(-\frac{3}{2}\zeta(2)^2\zeta(3) + \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{7}{20}\,\zeta(2)^3 + 2\,\zeta(3)^2\right)\mathcal{T}e^4$$

$$+\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,3,1,1,4} = \left(-\frac{2341}{840}\,\zeta(2)^4 - \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{15}{4}\,\zeta(6,2) + 17\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$

$$+\left(\frac{61}{8}\,\zeta(7) - 2\,\zeta(2)\zeta(5) - \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(-\frac{8}{21}\,\zeta(2)^3 + \zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,3,1,2,3} = \left(\frac{20831}{4200}\,\zeta(2)^4 - \frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{27}{4}\,\zeta(6,2) - \frac{51}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$

$$+\left(-\frac{67}{16}\,\zeta(7) - \frac{1}{2}\zeta(2)\zeta(5) + \frac{3}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,3,1,3,2} = \left(\frac{3}{2}\zeta(2)\zeta(3)^2 - \frac{31}{120}\,\zeta(2)^4 - \frac{3}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,3,1,4,1} = \left(-\frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{71}{210}\,\zeta(2)^4 + \frac{1}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,3,2,1,3} = \left(-\frac{27}{2}\,\zeta(6,2) - \frac{36619}{4200}\,\zeta(2)^4 - \frac{3}{2}\zeta(2)\zeta(3)^2 + 54\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$

$$+\left(\frac{131}{8}\,\zeta(7) - \frac{51}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,3,2,2,2} = \left(\frac{9}{2}\zeta(6,2) + \frac{9041}{4200}\,\zeta(2)^4 - 6\,\zeta(2)\zeta(3)^2 - 3\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,3,2,3,1} = \frac{1}{84}\,\zeta(2)\left(504\,\zeta(3)^2 - 127\,\zeta(2)^3\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,3,3,1,2} = \left(\frac{27}{4}\,\zeta(6,2) + \frac{3799}{1400}\,\zeta(2)^4 - 18\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,3,3,2,1} = \left(\frac{139}{420}\,\zeta(2)^4 - 3\,\zeta(2)\zeta(3)^2 + 9\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \zeta(2)^2\zeta(3)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,3,4,1,1} = &\left(\frac{5}{4}\zeta(2)\zeta(3)^2 - \frac{9}{2}\zeta(3)\zeta(5) + \frac{31}{84}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\zeta(2)^2\zeta(3) - \frac{9}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \\ &+\frac{1}{4}\zeta(2)^3\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,4,1,1,3} = &\left(\frac{20893}{4200}\,\zeta(2)^4 + \frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{15}{2}\zeta(6,2) - 32\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\ &+\left(-\frac{109}{16}\,\zeta(7) + \frac{11}{10}\,\zeta(2)^2\zeta(3) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,4,1,2,2} = &\left(-\frac{33}{4}\,\zeta(6,2) - \frac{7937}{1400}\,\zeta(2)^4 + \frac{67}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\ &+\left(-\frac{11}{2}\zeta(2)\zeta(5) + 3\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{1,4,1,3,1} = \left(-\frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{71}{210}\,\zeta(2)^4 + \frac{1}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,4,2,1,2} = &\left(\frac{3}{4}\zeta(6,2) - \frac{37}{2}\,\zeta(3)\zeta(5) + 3\,\zeta(2)\zeta(3)^2 + \frac{10909}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2 \\ &+\left(\frac{9}{2}\zeta(2)\zeta(5) - 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{1,4,2,2,1} = \left(\frac{31}{70}\,\zeta(2)^4 - 8\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(2)\zeta(5) - 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,3,1,1} = \left(\frac{7}{2}\zeta(3)\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{53}{70}\,\zeta(2)^4\right)\mathcal{T}e^2 + \zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,5,1,1,2} = &\left(-\frac{3}{4}\zeta(6,2) + 10\,\zeta(3)\zeta(5) - \frac{3}{2}\zeta(2)\zeta(3)^2 - \frac{6091}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2 \\ &+\left(-3\,\zeta(2)\zeta(5) + \frac{7}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{2}{5}\zeta(2)^3\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,5,1,2,1} = &\left(\frac{929}{1050}\,\zeta(2)^4 - \frac{9}{2}\zeta(3)\zeta(5) + \frac{3}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\ &+\left(-\frac{11}{5}\,\zeta(2)^2\zeta(3) + \frac{9}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{6}{5}\zeta(2)^3\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{1,5,2,1,1} = \left(\frac{11}{2}\zeta(3)\zeta(5) - \frac{5}{4}\zeta(2)\zeta(3)^2 - \frac{67}{150}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{11}{2}\zeta(2)\zeta(5) + \frac{37}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{7}{10}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,6,1,1,1} = \left(\frac{31}{350}\,\zeta(2)^4 + \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{7}{3}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(2\,\zeta(2)\zeta(5) - \frac{19}{15}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3$$
$$+\left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^4 + \frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{2,1,1,5,1} = \left(-\frac{3}{4}\zeta(6,2) + 10\,\zeta(3)\zeta(5) - \frac{3}{2}\zeta(2)\zeta(3)^2 - \frac{6091}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(3\,\zeta(2)\zeta(5) - \frac{7}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{2}{5}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,2,4,1} = \left(\frac{3}{4}\zeta(6,2) - \frac{37}{2}\,\zeta(3)\zeta(5) + 3\,\zeta(2)\zeta(3)^2 + \frac{10909}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{9}{2}\zeta(2)\zeta(5) + 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,3,3,1} = \left(\frac{27}{4}\,\zeta(6,2) + \frac{3799}{1400}\,\zeta(2)^4 - 18\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,4,2,1} = \left(-\frac{21}{4}\,\zeta(6,2) - \frac{387}{200}\,\zeta(2)^4 + 2\,\zeta(2)\zeta(3)^2 + 10\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \frac{3}{10}\zeta(2)^2\zeta(3)\mathcal{T}e^3$$
$$+2\,\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,5,1,1} = \left(-\frac{1}{4}\zeta(2)\zeta(3)^2 + \frac{1}{2}\zeta(3)\zeta(5) - \frac{131}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{1}{4}\zeta(2)\zeta(5) - \frac{1}{10}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{1}{4}\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4 - \frac{1}{2}\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{2,2,1,4,1} = \left(-\frac{33}{4}\,\zeta(6,2) - \frac{7937}{1400}\,\zeta(2)^4 + \frac{67}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{11}{2}\zeta(2)\zeta(5) - 3\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,2,3,1} = \left(\frac{9}{2}\zeta(6,2) + \frac{9041}{4200}\,\zeta(2)^4 - 6\,\zeta(2)\zeta(3)^2 - 3\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,3,2,1} = \left(-\frac{5867}{4200}\,\zeta(2)^4 - 6\,\zeta(2)\zeta(3)^2 + 15\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \frac{3}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,4,1,1} = \left(\frac{3}{2}\zeta(2)\zeta(3)^2 - 17\,\zeta(3)\zeta(5) + \frac{21}{4}\,\zeta(6,2) + \frac{671}{280}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{7}{10}\,\zeta(2)^2\zeta(3) - \zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{3}{20}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,3,1,3,1} = \left(\frac{3}{2}\zeta(2)\zeta(3)^2 - \frac{31}{120}\,\zeta(2)^4 - \frac{3}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,2,2,1} = \left(-\frac{9}{2}\zeta(6,2) - \frac{1567}{1400}\,\zeta(2)^4 + 9\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-2\,\zeta(2)\zeta(5) + 2\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,3,1,1} = \left(12\,\zeta(3)\zeta(5) + \frac{3}{4}\zeta(2)\zeta(3)^2 - \frac{27}{4}\,\zeta(6,2) - \frac{7897}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{1}{2}\zeta(2)^2\zeta(3) - \frac{7}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,4,1,2,1} = \left(\frac{4247}{4200}\,\zeta(2)^4 - 3\,\zeta(2)\zeta(3)^2 + \frac{33}{4}\,\zeta(6,2) - \frac{17}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{9}{2}\zeta(2)\zeta(5) + \frac{17}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{6}{5}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,4,2,1,1} = \left(3\,\zeta(2)\zeta(3)^2 - \frac{5}{2}\zeta(3)\zeta(5) - \frac{3}{4}\zeta(6,2) + \frac{73}{280}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{11}{2}\zeta(2)\zeta(5) - \frac{22}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \frac{7}{10}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,5,1,1,1} = \left(-\frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{2}{3}\zeta(3)\zeta(5) + \frac{797}{1400}\,\zeta(2)^4 + \frac{3}{4}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-2\,\zeta(2)\zeta(5) + \frac{9}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{2}{3}\zeta(3)^2 + \frac{1}{10}\zeta(2)^3\right)\mathcal{T}e^4$$
$$-\frac{1}{3}\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{3,1,1,4,1} = \left(\frac{20893}{4200}\,\zeta(2)^4 + \frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{15}{2}\zeta(6,2) - 32\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{11}{10}\,\zeta(2)^2\zeta(3) - 2\,\zeta(2)\zeta(5) + \frac{109}{16}\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,2,3,1} = \left(-\frac{27}{2}\,\zeta(6,2) - \frac{36619}{4200}\,\zeta(2)^4 - \frac{3}{2}\zeta(2)\zeta(3)^2 + 54\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{131}{8}\,\zeta(7) + \frac{51}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,3,2,1} = \left(\frac{27}{4}\,\zeta(6,2) + \frac{3413}{840}\,\zeta(2)^4 + \frac{3}{2}\zeta(2)\zeta(3)^2 - 27\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{179}{16}\,\zeta(7) - \frac{16}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,4,1,1} = \left(-\frac{9}{4}\zeta(2)\zeta(3)^2 + \frac{35}{2}\,\zeta(3)\zeta(5) - \frac{15}{4}\,\zeta(6,2) - \frac{3189}{1400}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{5}{4}\zeta(2)\zeta(5) - \frac{61}{8}\,\zeta(7) + \frac{17}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{1}{20}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,2,1,3,1} = \left(\frac{20831}{4200}\,\zeta(2)^4 - \frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{27}{4}\,\zeta(6,2) - \frac{51}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{67}{16}\,\zeta(7) + \frac{1}{2}\zeta(2)\zeta(5) - \frac{3}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,2,2,1} = \left(\frac{381}{1400}\,\zeta(2)^4 + 12\,\zeta(2)\zeta(3)^2 - 21\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(2\,\zeta(7) + \frac{3}{5}\zeta(2)^2\zeta(3) - 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,3,1,1} = \left(-\frac{33}{2}\,\zeta(3)\zeta(5) + \frac{9}{2}\zeta(6,2) + \frac{3}{2}\zeta(2)\zeta(3)^2 + \frac{9071}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{39}{10}\,\zeta(2)^2\zeta(3) + \frac{1}{2}\zeta(2)\zeta(5) + \frac{179}{16}\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,3,1,2,1} = \left(-\frac{27}{2}\,\zeta(6,2) - \frac{137}{40}\,\zeta(2)^4 + \frac{63}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{9}{2}\zeta(2)\zeta(5) + \frac{1}{2}\zeta(2)^2\zeta(3) + \frac{67}{16}\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,3,2,1,1} = \left(-6\,\zeta(3)\zeta(5) + \frac{27}{4}\,\zeta(6,2) - \frac{21}{4}\,\zeta(2)\zeta(3)^2 + \frac{4267}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{11}{10}\,\zeta(2)^2\zeta(3) + \frac{31}{4}\,\zeta(2)\zeta(5) - \frac{131}{8}\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,4,1,1,1} = \left(-3\,\zeta(6,2) + \frac{5}{2}\zeta(2)\zeta(3)^2 - \frac{1}{3}\zeta(3)\zeta(5) - \frac{1731}{1400}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{1}{6}\zeta(2)^2\zeta(3) - \frac{7}{2}\zeta(2)\zeta(5) + \frac{109}{16}\,\zeta(7)\right)\mathcal{T}e^3 - \frac{1}{3}\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,1,3,1} = \left(-\frac{2341}{840}\,\zeta(2)^4 - \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{15}{4}\,\zeta(6,2) + 17\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{61}{8}\,\zeta(7) + \frac{6}{5}\zeta(2)^2\zeta(3) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{8}{21}\,\zeta(2)^3 + \zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,2,2,1} = \left(\frac{13871}{4200}\,\zeta(2)^4 - \zeta(2)\zeta(3)^2 + \frac{9}{2}\zeta(6,2) - \frac{37}{2}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{291}{16}\,\zeta(7) - \frac{11}{2}\zeta(2)\zeta(5) - \frac{31}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(-4\,\zeta(3)^2 + \frac{8}{7}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,3,1,1} = \left(-3\,\zeta(3)\zeta(5) + \frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{839}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{7}{4}\zeta(2)\zeta(5) + \frac{1}{4}\zeta(7) + \zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(-\frac{1}{20}\zeta(2)^3 + \frac{1}{2}\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,2,1,2,1} = \left(\frac{3019}{4200}\,\zeta(2)^4 - \zeta(2)\zeta(3)^2 + \frac{27}{4}\,\zeta(6,2) - 2\frac{3}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{75}{8}\,\zeta(7) + \frac{9}{2}\zeta(2)\zeta(5) - \zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 - \frac{6}{5}\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,2,2,1,1} = \left(-\frac{11}{2}\zeta(2)\zeta(3)^2 + 40\,\zeta(3)\zeta(5) - 9\,\zeta(6,2) - \frac{16361}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{157}{16}\,\zeta(7) + 3\,\zeta(2)\zeta(5) + \frac{14}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(2\,\zeta(3)^2 - \frac{13}{140}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,3,1,1,1} = \left(\frac{1}{4}\zeta(2)\zeta(3)^2 - \frac{23}{3}\,\zeta(3)\zeta(5) + \frac{7643}{4200}\,\zeta(2)^4 + \frac{15}{4}\,\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{8}{15}\,\zeta(2)^2\zeta(3) + \frac{7}{4}\zeta(2)\zeta(5) - \frac{5}{8}\zeta(7)\right)\mathcal{T}e^3 + \left(\frac{97}{420}\,\zeta(2)^3 - \frac{2}{3}\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{5,1,1,2,1} = \left(\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{2329}{4200}\,\zeta(2)^4 + 5\,\zeta(3)\zeta(5) - 3\,\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(\frac{109}{16}\,\zeta(7) + \frac{1}{2}\zeta(2)^2\zeta(3) - 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{118}{105}\,\zeta(2)^3 - \zeta(3)^2\right)\mathcal{T}e^4$$
$$+4\,\zeta(5)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{5,1,2,1,1} = \left(\frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{15}{4}\,\zeta(6,2) + \frac{65}{56}\,\zeta(2)^4 - 11\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{61}{8}\,\zeta(7) + \frac{17}{4}\,\zeta(2)\zeta(5) - \frac{3}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{1}{2}\zeta(3)^2 - \frac{117}{140}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(-6\,\zeta(5) + \frac{1}{2}\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{5,2,1,1,1} = \left(\frac{11}{840}\,\zeta(2)^4 - \frac{3}{2}\zeta(6,2) + \frac{5}{2}\zeta(2)\zeta(3)^2 - \frac{20}{3}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{221}{16}\,\zeta(7) - \frac{2}{5}\zeta(2)^2\zeta(3) - \frac{33}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{5}{3}\zeta(3)^2 + \frac{149}{420}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(4\,\zeta(5) - \frac{4}{3}\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{6,1,1,1,1} = \left(\frac{13}{3}\zeta(3)\zeta(5) - \frac{379}{1400}\,\zeta(2)^4 - \frac{5}{4}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-5\,\zeta(7) + \frac{2}{15}\zeta(2)^2\zeta(3) + 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{5}{6}\zeta(3)^2 - \frac{17}{140}\,\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\left(-\zeta(5) + \frac{5}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^5 + \frac{1}{40}\zeta(2)^2\mathcal{T}e^6\ .$$

$$\mathcal{T}e^{1,1,1,1,1,5} = \left(-\frac{4}{3}\zeta(2)\zeta(3)^2 - \frac{34}{175}\,\zeta(2)^4 + \frac{11}{3}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(3\,\zeta(7) - 2\,\zeta(2)\zeta(5) + \frac{11}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(-\frac{3}{56}\,\zeta(2)^3 + \frac{1}{3}\zeta(3)^2\right)\mathcal{T}e^4$$
$$+\left(\frac{1}{5}\zeta(5) - \frac{1}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,1,1,1,2,4} = \left(-\frac{13}{3}\zeta(3)\zeta(5) - \frac{7}{4}\zeta(6,2) + \frac{8}{3}\zeta(2)\zeta(3)^2 - \frac{353}{2100}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-11\,\zeta(7) - \frac{1}{60}\,\zeta(2)^2\zeta(3) + \frac{27}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{159}{280}\,\zeta(2)^3 - \frac{2}{3}\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,1,3,3} = \left(-6\,\zeta(3)\zeta(5) + \frac{59}{100}\,\zeta(2)^4 + \frac{7}{4}\zeta(2)\zeta(3)^2 + \zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(\frac{8}{15}\,\zeta(2)^2\zeta(3) + \frac{5}{4}\zeta(2)\zeta(5) - 4\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,4,2} = \left(\frac{109}{150}\,\zeta(2)^4 + \frac{1}{4}\zeta(2)\zeta(3)^2 - 5\,\zeta(3)\zeta(5) + \frac{3}{4}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{47}{60}\,\zeta(2)^2\zeta(3) + \zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{1}{40}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,1,5,1} = \left(\frac{39}{350}\,\zeta(2)^4 - \zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-\zeta(2)\zeta(5) + \frac{97}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3$$
$$-\frac{1}{40}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,1,2,1,4} = \left(\frac{25}{4}\,\zeta(6,2) + \frac{5}{12}\,\zeta(2)\zeta(3)^2 - \frac{46}{3}\,\zeta(3)\zeta(5) + \frac{653}{300}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{33}{4}\,\zeta(2)\zeta(5) + 17\,\zeta(7) - \frac{1}{15}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{1}{3}\zeta(3)^2 - \frac{59}{35}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,1,2,2,3} = \left(-\frac{9}{2}\zeta(6,2) - 7\,\zeta(2)\zeta(3)^2 + \frac{69}{2}\,\zeta(3)\zeta(5) - \frac{1949}{700}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(10\,\zeta(7) - 5\,\zeta(2)\zeta(5) - \frac{13}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,2,3,2} = \left(-\frac{1}{2}\zeta(2)\zeta(3)^2 + 3\,\zeta(3)\zeta(5) - \zeta(6,2) - \frac{236}{175}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{4}{3}\zeta(2)^2\zeta(3) - 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,2,4,1} = \left(-\frac{149}{420}\,\zeta(2)^4 + 5\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-\frac{4}{3}\zeta(2)^2\zeta(3) + 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,3,1,3} = \left(-\frac{5}{2}\zeta(6,2) - \frac{1}{2}\zeta(2)\zeta(3)^2 + \frac{19}{2}\zeta(3)\zeta(5) - \frac{481}{350}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(3\,\zeta(7) + \frac{1}{4}\zeta(2)\zeta(5) - \frac{17}{15}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,3,2,2} = \left(\frac{2533}{700}\,\zeta(2)^4 + \frac{3}{2}\zeta(2)\zeta(3)^2 - \frac{47}{2}\,\zeta(3)\zeta(5) + \frac{11}{2}\zeta(6,2)\right)\mathcal{T}e^2 + \frac{1}{10}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,3,3,1} = \left(-\frac{59}{210}\,\zeta(2)^4 + \zeta(2)\zeta(3)^2 - \frac{3}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{6}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,4,1,2} = \left(-\frac{15}{4}\,\zeta(6,2) - \frac{5681}{2100}\,\zeta(2)^4 + \frac{1}{12}\zeta(2)\zeta(3)^2 + \frac{95}{6}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$-\frac{4}{15}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3 - \frac{1}{3}\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,4,2,1} = \left(\frac{35}{6}\,\zeta(3)\zeta(5) - \frac{11}{3}\zeta(2)\zeta(3)^2 + \frac{7}{100}\,\zeta(2)^4\right)\mathcal{T}e^2 + \frac{13}{30}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3 + \frac{2}{3}\zeta(3)^2\mathcal{T}e^4\ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,1,5,1,1} = {} & \left(\frac{19}{350}\,\zeta(2)^4 + \frac{4}{3}\zeta(2)\zeta(3)^2 - \frac{8}{3}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{37}{60}\,\zeta(2)^2\zeta(3) - \zeta(2)\zeta(5)\right)\mathcal{T}e^3 \\ & + \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{20}\zeta(2)^3\right)\mathcal{T}e^4 - \frac{1}{6}\zeta(2)\zeta(3)\mathcal{T}e^5\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,2,1,1,4} = {} & \left(-\frac{15}{4}\,\zeta(6,2) + \frac{7}{4}\zeta(2)\zeta(3)^2 + 8\,\zeta(3)\zeta(5) - \frac{199}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \\ & + \left(-18\,\zeta(7) + \frac{7}{10}\,\zeta(2)^2\zeta(3) + \frac{11}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{73}{35}\,\zeta(2)^3\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,2,1,2,3} = {} & \left(-\frac{13}{4}\,\zeta(6,2) - \frac{7}{2}\zeta(2)\zeta(3)^2 - \frac{1}{2}\zeta(3)\zeta(5) - \frac{472}{525}\,\zeta(2)^4\right)\mathcal{T}e^2 \\ & + \left(3\,\zeta(7) - \frac{7}{5}\zeta(2)^2\zeta(3) + \frac{15}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,2,1,3,2} = {} & \left(\frac{1}{4}\zeta(2)\zeta(3)^2 + 26\,\zeta(3)\zeta(5) - \frac{17}{4}\,\zeta(6,2) - \frac{1529}{525}\,\zeta(2)^4\right)\mathcal{T}e^2 \\ & + \left(6\,\zeta(2)\zeta(5) - \frac{1}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,2,1,4,1} = {} & \left(-\frac{3}{4}\zeta(2)\zeta(3)^2 - 6\,\zeta(3)\zeta(5) + \frac{461}{420}\,\zeta(2)^4\right)\mathcal{T}e^2 \\ & + \left(-6\,\zeta(2)\zeta(5) + \frac{1}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,2,2,1,3} = {} & \left(10\,\zeta(6,2) + \frac{25}{4}\,\zeta(2)\zeta(3)^2 - \frac{91}{2}\,\zeta(3)\zeta(5) + \frac{138}{25}\,\zeta(2)^4\right)\mathcal{T}e^2 \\ & + \left(-18\,\zeta(7) + \frac{9}{2}\zeta(2)^2\zeta(3) + \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\mathcal{T}e^{1,1,2,2,2,2} = \left(\frac{44}{175}\,\zeta(2)^4 + 4\,\zeta(2)\zeta(3)^2 - 4\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,2,2,3,1} = -\frac{1}{420}\,\zeta(2)\left(210\,\zeta(3)^2 + 293\,\zeta(2)^3\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,2,3,1,2} = \left(\frac{2302}{525}\,\zeta(2)^4 - \frac{11}{4}\zeta(2)\zeta(3)^2 - 23\,\zeta(3)\zeta(5) + \frac{23}{4}\,\zeta(6,2)\right)\mathcal{T}e^2 - \frac{7}{10}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,2,3,2,1} = \left(\frac{11}{2}\zeta(2)\zeta(3)^2 + \frac{436}{525}\,\zeta(2)^4 - 11\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \frac{7}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,2,4,1,1} = &\left(-\frac{7}{4}\zeta(2)\zeta(3)^2 + \frac{11}{2}\zeta(3)\zeta(5) - \frac{767}{2100}\,\zeta(2)^4\right)\mathcal{T}e^2\\ &+\left(-\frac{11}{5}\,\zeta(2)^2\zeta(3) + \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{7}{20}\,\zeta(2)^3\mathcal{T}e^4\ .\end{aligned}$$

$$\mathcal{T}e^{1,1,3,1,1,3} = \left(\frac{11}{105}\,\zeta(2)^4 - \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(3\,\zeta(7) - \frac{4}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,3,1,2,2} = &\left(-\frac{307}{175}\,\zeta(2)^4 + \frac{33}{2}\,\zeta(3)\zeta(5) - \frac{11}{4}\zeta(2)\zeta(3)^2 - \frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2\\ &+\left(\frac{3}{2}\zeta(2)^2\zeta(3) - \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\mathcal{T}e^{1,1,3,1,3,1} = \left(-\frac{3}{70}\,\zeta(2)^4 + \frac{1}{2}\zeta(3)\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 - \frac{1}{4}\zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,3,2,1,2} = &\left(-\frac{2074}{525}\,\zeta(2)^4 + \frac{37}{2}\,\zeta(3)\zeta(5) + \frac{5}{2}\zeta(2)\zeta(3)^2 - \frac{23}{4}\,\zeta(6,2)\right)\mathcal{T}e^2\\ &+\left(\frac{9}{4}\zeta(2)\zeta(5) - \zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\mathcal{T}e^{1,1,3,2,2,1} = \left(\frac{31}{140}\,\zeta(2)^4 - 3\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\zeta(2)^2\zeta(3) + \zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,3,3,1,1} = \left(-\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{41}{210}\,\zeta(2)^4 + \zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,4,1,1,2} = &\left(-12\,\zeta(3)\zeta(5) - \frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{1292}{525}\,\zeta(2)^4 + \frac{15}{4}\,\zeta(6,2)\right)\mathcal{T}e^2\\ &+\left(-\frac{3}{2}\zeta(2)\zeta(5) + \frac{9}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{1}{5}\zeta(2)^3\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,4,1,2,1} = &\left(\frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{677}{2100}\,\zeta(2)^4 - \frac{9}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2\\ &+\left(-\frac{17}{10}\,\zeta(2)^2\zeta(3) + \frac{9}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{3}{5}\zeta(2)^3\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,4,2,1,1} = &\left(-\frac{7}{4}\zeta(2)\zeta(3)^2 + \frac{11}{2}\zeta(3)\zeta(5) - \frac{767}{2100}\,\zeta(2)^4\right)\mathcal{T}e^2\\ &+\left(-\frac{11}{4}\zeta(2)\zeta(5) + \frac{11}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{7}{20}\,\zeta(2)^3\mathcal{T}e^4\ .\end{aligned}$$

$$\mathcal{T}e^{1,1,5,1,1,1} = \left(\frac{19}{350}\,\zeta(2)^4 + \frac{4}{3}\zeta(2)\zeta(3)^2 - \frac{8}{3}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{37}{60}\,\zeta(2)^2\zeta(3) + \zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(-\frac{1}{3}\zeta(3)^2 - \frac{1}{20}\zeta(2)^3\right)\mathcal{T}e^4$$
$$+\frac{1}{6}\zeta(2)\zeta(3)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,2,1,1,1,4} = \left(-\frac{7}{4}\zeta(6,2) - \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{11}{10}\,\zeta(2)^4 + 4\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(10\,\zeta(7) - \frac{6}{5}\zeta(2)^2\zeta(3) - \zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,1,1,2,3} = \left(\frac{2147}{525}\,\zeta(2)^4 - 17\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 + 10\,\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-4\,\zeta(7) + \frac{12}{5}\,\zeta(2)^2\zeta(3) - 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,1,1,3,2} = \left(-2\,\zeta(2)\zeta(3)^2 + \frac{1552}{525}\,\zeta(2)^4 - 19\,\zeta(3)\zeta(5) + \frac{9}{2}\zeta(6,2)\right)\mathcal{T}e^2 - 4\,\zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,1,1,4,1} = \left(4\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 - \frac{118}{105}\,\zeta(2)^4\right)\mathcal{T}e^2 + 4\,\zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,1,2,1,3} = \left(-\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{983}{350}\,\zeta(2)^4 + 18\,\zeta(3)\zeta(5) - \frac{27}{4}\,\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(3\,\zeta(7) - \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,1,2,2,2} = \left(4\,\zeta(2)\zeta(3)^2 - \frac{876}{175}\,\zeta(2)^4 + 16\,\zeta(3)\zeta(5) - 10\,\zeta(6,2)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,1,2,3,1} = -\frac{1}{5}\zeta(2)\left(-9\,\zeta(2)^3 + 10\,\zeta(3)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,1,3,1,2} = \left(\zeta(2)\zeta(3)^2 + \frac{261}{175}\,\zeta(2)^4 - 10\,\zeta(3)\zeta(5) + \frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2 + \frac{6}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,1,3,2,1} = \left(-\frac{21}{25}\,\zeta(2)^4 + 9\,\zeta(3)\zeta(5) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 - \frac{12}{5}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,1,4,1,1} = \left(\frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{677}{2100}\,\zeta(2)^4 - \frac{9}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{17}{10}\,\zeta(2)^2\zeta(3) - \frac{9}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \frac{3}{5}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,2,2,1,1,3} = \left(-5\,\zeta(2)\zeta(3)^2 - \frac{1949}{525}\,\zeta(2)^4 + 32\,\zeta(3)\zeta(5) - \frac{11}{2}\zeta(6,2)\right)\mathcal{T}e^2 + \left(10\,\zeta(7) - \frac{16}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,2,1,2,2} = \left(4\,\zeta(2)\zeta(3)^2 + \frac{188}{35}\,\zeta(2)^4 - 40\,\zeta(3)\zeta(5) + 10\,\zeta(6,2)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,2,1,3,1} = \left(-\zeta(3)\zeta(5) + 4\,\zeta(2)\zeta(3)^2 - \frac{8}{7}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,2,2,1,2} = \left(24\,\zeta(3)\zeta(5) - 8\,\zeta(2)\zeta(3)^2 - \frac{24}{25}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,2,2,2,1} = -8\,\zeta(3)\left(-\zeta(5) + \zeta(2)\zeta(3)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,2,3,1,1} = \left(\frac{31}{140}\,\zeta(2)^4 - 3\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(-\zeta(2)\zeta(5) + \zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,3,1,1,2} = \left(11\,\zeta(3)\zeta(5) + 4\,\zeta(2)\zeta(3)^2 - \frac{114}{35}\,\zeta(2)^4 - \frac{11}{2}\zeta(6,2)\right)\mathcal{T}e^2 - \frac{4}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,3,1,2,1} = \left(-\frac{21}{25}\,\zeta(2)^4 + 9\,\zeta(3)\zeta(5) - 2\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \frac{12}{5}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,3,2,1,1} = \left(\frac{11}{2}\zeta(2)\zeta(3)^2 + \frac{436}{525}\,\zeta(2)^4 - 11\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \frac{7}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,4,1,1,1} = \left(\frac{35}{6}\,\zeta(3)\zeta(5) - \frac{11}{3}\zeta(2)\zeta(3)^2 + \frac{7}{100}\,\zeta(2)^4\right)\mathcal{T}e^2 - \frac{13}{30}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3 + \frac{2}{3}\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,3,1,1,1,3} = \left(-10\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 + \frac{243}{175}\,\zeta(2)^4 + \frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2 + \left(-4\,\zeta(7) + \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,3,1,1,2,2} = \left(8\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 - \frac{309}{175}\,\zeta(2)^4 - \frac{9}{2}\zeta(6,2)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,3,1,1,3,1} = -\frac{2}{21}\zeta(2)\left(-8\,\zeta(2)^3 + 21\,\zeta(3)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,3,1,2,1,2} = \left(-8\,\zeta(3)\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)^2 + \frac{541}{350}\,\zeta(2)^4 + \frac{17}{4}\,\zeta(6,2)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,3,1,2,2,1} = \left(-\zeta(3)\zeta(5) + 4\,\zeta(2)\zeta(3)^2 - \frac{8}{7}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,3,1,3,1,1} = \left(-\frac{3}{70}\,\zeta(2)^4 + \frac{1}{2}\zeta(3)\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \frac{1}{4}\zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,3,2,1,1,2} = \left(-15\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 + \frac{983}{525}\,\zeta(2)^4 + \zeta(6,2)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,2,1,2,1} = -\frac{1}{5}\zeta(2)\left(-9\,\zeta(2)^3 + 10\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,2,2,1,1} = -\frac{1}{420}\,\zeta(2)\left(210\,\zeta(3)^2 + 293\,\zeta(2)^3\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,3,1,1,1} = \left(-\frac{59}{210}\,\zeta(2)^4 + \zeta(2)\zeta(3)^2 - \frac{3}{2}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{6}\zeta(2)^2\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,1,1,1,2} = \left(6\,\zeta(3)\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{277}{350}\,\zeta(2)^4 - \frac{3}{4}\zeta(6,2)\right)\mathcal{T}e^2 + \zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,1,1,2,1} = \left(4\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 - \frac{118}{105}\,\zeta(2)^4\right)\mathcal{T}e^2 - 4\,\zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,1,2,1,1} = \left(-\frac{3}{4}\zeta(2)\zeta(3)^2 - 6\,\zeta(3)\zeta(5) + \frac{461}{420}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(6\,\zeta(2)\zeta(5) - \frac{1}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,4,2,1,1,1} = \left(-\frac{149}{420}\,\zeta(2)^4 + 5\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(\frac{4}{3}\zeta(2)^2\zeta(3) - 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,5,1,1,1,1} = \left(\frac{39}{350}\,\zeta(2)^4 - \zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(\zeta(2)\zeta(5) - \frac{97}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{1}{40}\zeta(2)^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,1,1,4,1} = \left(6\,\zeta(3)\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{277}{350}\,\zeta(2)^4 - \frac{3}{4}\zeta(6,2)\right)\mathcal{T}e^2 - \zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,2,3,1} = \left(-15\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 + \frac{983}{525}\,\zeta(2)^4 + \zeta(6,2)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,3,2,1} = \left(11\,\zeta(3)\zeta(5) + 4\,\zeta(2)\zeta(3)^2 - \frac{114}{35}\,\zeta(2)^4 - \frac{11}{2}\zeta(6,2)\right)\mathcal{T}e^2 + \frac{4}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,4,1,1} = \ & \left(-12\,\zeta(3)\zeta(5) - \frac{5}{4}\zeta(2)\zeta(3)^2 + \frac{1292}{525}\,\zeta(2)^4 + \frac{15}{4}\,\zeta(6,2)\right)\mathcal{T}e^2 \\ & + \left(-\frac{9}{10}\,\zeta(2)^2\zeta(3) + \frac{3}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 - \frac{1}{5}\zeta(2)^3\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,2,1,3,1} = \left(-8\,\zeta(3)\zeta(5) - \frac{1}{2}\zeta(2)\zeta(3)^2 + \frac{541}{350}\,\zeta(2)^4 + \frac{17}{4}\,\zeta(6,2)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,2,2,1} = \left(24\,\zeta(3)\zeta(5) - 8\,\zeta(2)\zeta(3)^2 - \frac{24}{25}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,3,1,1} = \left(-\frac{2074}{525}\,\zeta(2)^4 + \frac{37}{2}\,\zeta(3)\zeta(5) + \frac{5}{2}\zeta(2)\zeta(3)^2 - \frac{23}{4}\,\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(\zeta(2)^2\zeta(3) - \frac{9}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,3,1,2,1} = \left(\zeta(2)\zeta(3)^2 + \frac{261}{175}\,\zeta(2)^4 - 10\,\zeta(3)\zeta(5) + \frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2 - \frac{6}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,3,2,1,1} = \left(\frac{2302}{525}\,\zeta(2)^4 - \frac{11}{4}\zeta(2)\zeta(3)^2 - 23\,\zeta(3)\zeta(5) + \frac{23}{4}\,\zeta(6,2)\right)\mathcal{T}e^2 + \frac{7}{10}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,4,1,1,1} = \left(-\frac{15}{4}\,\zeta(6,2) - \frac{5681}{2100}\,\zeta(2)^4 + \frac{1}{12}\zeta(2)\zeta(3)^2 + \frac{95}{6}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\frac{4}{15}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3 - \frac{1}{3}\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,2,1,1,3,1} = \left(8\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 - \frac{309}{175}\,\zeta(2)^4 - \frac{9}{2}\zeta(6,2)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,1,2,2,1} = \left(4\,\zeta(2)\zeta(3)^2 + \frac{188}{35}\,\zeta(2)^4 - 40\,\zeta(3)\zeta(5) + 10\,\zeta(6,2)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,1,3,1,1} = \left(-\frac{307}{175}\,\zeta(2)^4 + \frac{33}{2}\,\zeta(3)\zeta(5) - \frac{11}{4}\zeta(2)\zeta(3)^2 - \frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{3}{2}\zeta(2)^2\zeta(3) + \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,2,1,2,1} = \left(4\,\zeta(2)\zeta(3)^2 - \frac{876}{175}\,\zeta(2)^4 + 16\,\zeta(3)\zeta(5) - 10\,\zeta(6,2)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,2,2,1,1} = \left(\frac{44}{175}\,\zeta(2)^4 + 4\,\zeta(2)\zeta(3)^2 - 4\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,3,1,1,1} = \left(\frac{2533}{700}\,\zeta(2)^4 + \frac{3}{2}\zeta(2)\zeta(3)^2 - \frac{47}{2}\,\zeta(3)\zeta(5) + \frac{11}{2}\zeta(6,2)\right)\mathcal{T}e^2 - \frac{1}{10}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,1,1,2,1} = \left(-2\,\zeta(2)\zeta(3)^2 + \frac{1552}{525}\,\zeta(2)^4 - 19\,\zeta(3)\zeta(5) + \frac{9}{2}\zeta(6,2)\right)\mathcal{T}e^2 + 4\,\zeta(2)\zeta(5)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,1,2,1,1} = \left(\frac{1}{4}\zeta(2)\zeta(3)^2 + 26\,\zeta(3)\zeta(5) - \frac{17}{4}\,\zeta(6,2) - \frac{1529}{525}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-6\,\zeta(2)\zeta(5) + \frac{1}{2}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,3,2,1,1,1} = \left(-\frac{1}{2}\zeta(2)\zeta(3)^2 + 3\,\zeta(3)\zeta(5) - \zeta(6,2) - \frac{236}{175}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{4}{3}\zeta(2)^2\zeta(3) + 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,4,1,1,1,1} = \left(\frac{109}{150}\,\zeta(2)^4 + \frac{1}{4}\zeta(2)\zeta(3)^2 - 5\,\zeta(3)\zeta(5) + \frac{3}{4}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\zeta(2)\zeta(5) + \frac{47}{60}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \frac{1}{40}\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,1,1,1,3,1} = \left(-10\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 + \frac{243}{175}\,\zeta(2)^4 + \frac{5}{2}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(4\,\zeta(7) - \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,2,2,1} = \left(-5\,\zeta(2)\zeta(3)^2 - \frac{1949}{525}\,\zeta(2)^4 + 32\,\zeta(3)\zeta(5) - \frac{11}{2}\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-10\,\zeta(7) + \frac{16}{5}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,3,1,1} = \left(\frac{11}{105}\,\zeta(2)^4 - \frac{1}{2}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \left(-3\,\zeta(7) + \frac{4}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,2,1,2,1} = \left(-\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{983}{350}\,\zeta(2)^4 + 18\,\zeta(3)\zeta(5) - \frac{27}{4}\,\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-3\,\zeta(7) + \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,2,2,1,1} = \left(10\,\zeta(6,2) + \frac{25}{4}\,\zeta(2)\zeta(3)^2 - \frac{91}{2}\,\zeta(3)\zeta(5) + \frac{138}{25}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(18\,\zeta(7) - \frac{9}{2}\zeta(2)^2\zeta(3) - \frac{11}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,3,1,1,1} = \left(-\frac{5}{2}\zeta(6,2) - \frac{1}{2}\zeta(2)\zeta(3)^2 + \frac{19}{2}\zeta(3)\zeta(5) - \frac{481}{350}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{17}{15}\,\zeta(2)^2\zeta(3) - 3\,\zeta(7) - \frac{1}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,1,1,2,1} = \left(\frac{2147}{525}\,\zeta(2)^4 - 17\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 + 10\,\zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(4\,\zeta(7) - \frac{12}{5}\,\zeta(2)^2\zeta(3) + 4\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,1,2,1,1} = \left(-\frac{13}{4}\,\zeta(6,2) - \frac{7}{2}\zeta(2)\zeta(3)^2 - \frac{1}{2}\zeta(3)\zeta(5) - \frac{472}{525}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-3\,\zeta(7) + \frac{7}{5}\zeta(2)^2\zeta(3) - \frac{15}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,2,1,1,1} = \left(-\frac{9}{2}\zeta(6,2) - 7\,\zeta(2)\zeta(3)^2 + \frac{69}{2}\,\zeta(3)\zeta(5) - \frac{1949}{700}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{13}{10}\,\zeta(2)^2\zeta(3) - 10\,\zeta(7) + 5\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,3,1,1,1,1} = \left(-6\,\zeta(3)\zeta(5) + \frac{59}{100}\,\zeta(2)^4 + \frac{7}{4}\zeta(2)\zeta(3)^2 + \zeta(6,2)\right)\mathcal{T}e^2$$
$$+\left(-\frac{8}{15}\,\zeta(2)^2\zeta(3) + 4\,\zeta(7) - \frac{5}{4}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{4,1,1,1,2,1} = \left(-\frac{7}{4}\zeta(6,2) - \frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{11}{10}\,\zeta(2)^4 + 4\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-10\,\zeta(7) + \zeta(2)\zeta(5) + \frac{6}{5}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{8}{7}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,1,2,1,1} = \left(-\frac{15}{4}\,\zeta(6,2) + \frac{7}{4}\zeta(2)\zeta(3)^2 + 8\,\zeta(3)\zeta(5) - \frac{199}{175}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(18\,\zeta(7) - \frac{11}{2}\zeta(2)\zeta(5) - \frac{7}{10}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \frac{73}{35}\,\zeta(2)^3\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,1,2,1,1,1} = \left(\frac{25}{4}\,\zeta(6,2) + \frac{5}{12}\,\zeta(2)\zeta(3)^2 - \frac{46}{3}\,\zeta(3)\zeta(5) + \frac{653}{300}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-17\,\zeta(7) + \frac{1}{15}\zeta(2)^2\zeta(3) + \frac{33}{4}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3 + \left(\frac{1}{3}\zeta(3)^2 - \frac{59}{35}\,\zeta(2)^3\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{4,2,1,1,1,1} = \left(-\frac{13}{3}\zeta(3)\zeta(5) - \frac{7}{4}\zeta(6,2) + \frac{8}{3}\zeta(2)\zeta(3)^2 - \frac{353}{2100}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(11\,\zeta(7) - \frac{27}{4}\,\zeta(2)\zeta(5) + \frac{1}{60}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(\frac{159}{280}\,\zeta(2)^3 - \frac{2}{3}\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{5,1,1,1,1,1} = \left(-\frac{4}{3}\zeta(2)\zeta(3)^2 - \frac{34}{175}\,\zeta(2)^4 + \frac{11}{3}\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(2\,\zeta(2)\zeta(5) - 3\,\zeta(7) - \frac{11}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 + \left(-\frac{3}{56}\,\zeta(2)^3 + \frac{1}{3}\zeta(3)^2\right)\mathcal{T}e^4$$
$$+\left(-\frac{1}{5}\zeta(5) + \frac{1}{6}\zeta(2)\zeta(3)\right)\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,4} = \left(-\frac{247}{2800}\,\zeta(2)^4 - \frac{3}{4}\zeta(2)\zeta(3)^2 + \frac{28}{15}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{7}{120}\,\zeta(2)^2\zeta(3) + \zeta(7) - \frac{7}{10}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3$$
$$+\left(-\frac{1}{112}\,\zeta(2)^3 + \frac{1}{18}\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,1,1,2,3} = \left(\frac{5}{3}\zeta(2)\zeta(3)^2 - \zeta(6,2) - \frac{893}{8400}\,\zeta(2)^4 - \frac{73}{30}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{11}{5}\,\zeta(2)\zeta(5) + \frac{11}{60}\,\zeta(2)^2\zeta(3) - 6\,\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,1,3,2} = \left(\frac{1249}{1680}\,\zeta(2)^4 + \frac{2}{3}\zeta(2)\zeta(3)^2 + \zeta(6,2) - \frac{167}{30}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{6}\zeta(2)^2\zeta(3) + \frac{1}{5}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,1,4,1} = \left(-\frac{1}{5}\zeta(3)\zeta(5) - \frac{1}{6}\zeta(2)\zeta(3)^2 + \frac{3}{56}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{5}\zeta(2)\zeta(5) + \frac{1}{6}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,2,1,3} = \left(\frac{5}{2}\zeta(6,2) - \frac{5}{2}\zeta(3)\zeta(5) - \frac{7}{12}\,\zeta(2)\zeta(3)^2 + \frac{23}{100}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(15\,\zeta(7) - 3\,\zeta(2)\zeta(5) - \frac{3}{8}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,2,2,2} = \left(\frac{26}{3}\,\zeta(3)\zeta(5) - \frac{7}{3}\zeta(2)\zeta(3)^2 + \frac{3}{175}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,2,3,1} = \frac{1}{336}\,\zeta(2)\left(224\,\zeta(3)^2 - 195\,\zeta(2)^3\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,3,1,2} = \left(\frac{7}{12}\,\zeta(2)\zeta(3)^2 - \frac{1219}{700}\,\zeta(2)^4 - \frac{5}{2}\zeta(6,2) + \frac{59}{6}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - \frac{1}{40}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,3,2,1} = \left(2\,\zeta(3)\zeta(5) - \frac{5}{3}\zeta(2)\zeta(3)^2 + \frac{7}{400}\,\zeta(2)^4\right)\mathcal{T}e^2 + \frac{1}{20}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,1,1,4,1,1} = &\left(\frac{5}{12}\,\zeta(2)\zeta(3)^2 + \frac{163}{2800}\,\zeta(2)^4 - \zeta(3)\zeta(5)\right)\mathcal{T}e^2\\ &+\left(-\frac{1}{2}\zeta(2)\zeta(5) + \frac{47}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{1}{80}\,\zeta(2)^3\mathcal{T}e^4\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,1,2,1,1,3} = &\left(\frac{983}{525}\,\zeta(2)^4 - \frac{17}{3}\,\zeta(3)\zeta(5) + \frac{7}{6}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2\\ &+\left(2\,\zeta(2)\zeta(5) + \frac{2}{15}\zeta(2)^2\zeta(3) - 20\,\zeta(7)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\mathcal{T}e^{1,1,1,2,1,2,2} = \left(\frac{94}{3}\,\zeta(3)\zeta(5) - \frac{7}{3}\zeta(2)\zeta(3)^2 - 10\,\zeta(6,2) - \frac{1256}{175}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,2,1,3,1} = \left(\frac{1}{6}\zeta(3)\zeta(5) - \frac{1}{3}\zeta(2)\zeta(3)^2 + \frac{59}{35}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,2,2,1,2} = \left(-\frac{130}{3}\,\zeta(3)\zeta(5) + \frac{7}{3}\zeta(2)\zeta(3)^2 + 10\,\zeta(6,2) + \frac{1154}{175}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,2,2,2,1} = \frac{2}{3}\zeta(3)\left(-13\,\zeta(5) + 5\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2\ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,1,2,3,1,1} = &\left(-\frac{2}{3}\zeta(2)\zeta(3)^2 - \frac{149}{840}\,\zeta(2)^4 + \frac{25}{6}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\\ &+\left(-\frac{2}{3}\zeta(2)^2\zeta(3) + 2\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\mathcal{T}e^{1,1,1,3,1,1,2} = \left(\frac{5}{3}\zeta(3)\zeta(5) - \frac{7}{6}\zeta(2)\zeta(3)^2 + \frac{79}{525}\,\zeta(2)^4\right)\mathcal{T}e^2 + \frac{2}{15}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,3,1,2,1} = \left(-\frac{3}{2}\zeta(3)\zeta(5) + \frac{1}{3}\zeta(2)\zeta(3)^2 - \frac{3}{25}\,\zeta(2)^4\right)\mathcal{T}e^2 - \frac{2}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,3,2,1,1} = \left(\frac{11}{6}\,\zeta(3)\zeta(5) - \frac{2}{3}\zeta(2)\zeta(3)^2 - \frac{191}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2 + \frac{7}{30}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,4,1,1,1} = \left(-\frac{4}{3}\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 + \frac{1}{100}\,\zeta(2)^4\right)\mathcal{T}e^2 - \frac{1}{9}\zeta(3)^2\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,2,1,1,1,3} = \left(-\frac{5}{2}\zeta(6,2) - \frac{587}{175}\,\zeta(2)^4 + 11\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(15\,\zeta(7) - \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,2,1,1,2,2} = \left(-32\,\zeta(3)\zeta(5) + 10\,\zeta(6,2) + \frac{60}{7}\,\zeta(2)^4\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,2,1,1,3,1} = -\frac{1}{210}\,\zeta(2)\left(398\,\zeta(2)^3 + 105\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,2,1,2} = -\frac{106}{175}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,2,2,1} = \left(12\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 - \frac{4}{7}\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,3,1,1} = \left(-6\,\zeta(3)\zeta(5) + \frac{31}{70}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(-3\,\zeta(2)\zeta(5) + \frac{1}{4}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,2,2,1,1,2} = \left(40\,\zeta(3)\zeta(5) - 10\,\zeta(6,2) - \frac{1136}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,2,1,2,1} = -\frac{1}{25}\zeta(2)\left(25\,\zeta(3)^2 + 6\,\zeta(2)^3\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,2,2,1,1} = \frac{2}{175}\,\zeta(2)\left(-175\,\zeta(3)^2 + 51\,\zeta(2)^3\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,3,1,1,1} = \left(\frac{11}{6}\,\zeta(3)\zeta(5) - \frac{2}{3}\zeta(2)\zeta(3)^2 - \frac{191}{4200}\,\zeta(2)^4\right)\mathcal{T}e^2 - \frac{7}{30}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,1,1,1,2} = \left(-11\,\zeta(3)\zeta(5) + \frac{5}{2}\zeta(6,2) + \frac{323}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 + \frac{1}{2}\zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,1,1,2,1} = \left(\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{59}{105}\,\zeta(2)^4 + 4\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 - 2\,\zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,1,3,1,2,1,1} = \left(-6\,\zeta(3)\zeta(5) + \frac{31}{70}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(3\,\zeta(2)\zeta(5) - \frac{1}{4}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{1,1,3,2,1,1,1} = \ & \left(-\frac{2}{3}\zeta(2)\zeta(3)^2 - \frac{149}{840}\,\zeta(2)^4 + \frac{25}{6}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\ & + \left(-2\,\zeta(2)\zeta(5) + \frac{2}{3}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{1,1,4,1,1,1,1} = \ & \left(\frac{5}{12}\,\zeta(2)\zeta(3)^2 + \frac{163}{2800}\,\zeta(2)^4 - \zeta(3)\zeta(5)\right)\mathcal{T}e^2 \\ & + \left(\frac{1}{2}\zeta(2)\zeta(5) - \frac{47}{120}\,\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3 - \frac{1}{80}\,\zeta(2)^3\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{1,2,1,1,1,1,3} = \left(\frac{44}{25}\,\zeta(2)^4 - 6\,\zeta(3)\zeta(5) + \zeta(6,2)\right)\mathcal{T}e^2 - 6\,\zeta(7)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,2,2} = \left(-\frac{526}{175}\,\zeta(2)^4 + 8\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,3,1} = \frac{8}{7}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,2,1,2} = \left(20\,\zeta(3)\zeta(5) - 10\,\zeta(6,2) - \frac{498}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,2,2,1} = -8\,\zeta(3)\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,3,1,1} = \left(\frac{1}{2}\zeta(2)\zeta(3)^2 - \frac{59}{105}\,\zeta(2)^4 + 4\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + 2\,\zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,1,2,1,1,2} = \left(-20\,\zeta(3)\zeta(5) + 10\,\zeta(6,2) + \frac{498}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,2,1,2,1} = \frac{36}{25}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,2,2,1,1} = -\frac{1}{25}\zeta(2)\left(25\,\zeta(3)^2 + 6\,\zeta(2)^3\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,3,1,1,1} = \left(-\frac{3}{2}\zeta(3)\zeta(5) + \frac{1}{3}\zeta(2)\zeta(3)^2 - \frac{3}{25}\,\zeta(2)^4\right)\mathcal{T}e^2 + \frac{2}{5}\zeta(2)^2\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,2,2,1,1,1,2} = \left(-8\,\zeta(3)\zeta(5) + \frac{42}{25}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,1,1,2,1} = -8\,\zeta(3)\zeta(5)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,1,2,1,1} = \left(12\,\zeta(3)\zeta(5) + \zeta(2)\zeta(3)^2 - \frac{4}{7}\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,2,2,1,1,1} = -\frac{2}{3}\zeta(3)\left(-5\,\zeta(2)\zeta(3) + 13\,\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,3,1,1,1,1} = \left(2\,\zeta(3)\zeta(5) - \frac{5}{3}\zeta(2)\zeta(3)^2 + \frac{7}{400}\,\zeta(2)^4\right)\mathcal{T}e^2 - \frac{1}{20}\zeta(2)^2\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{1,3,1,1,1,1,2} = \left(-\frac{44}{35}\,\zeta(2)^4 + 6\,\zeta(3)\zeta(5) - \zeta(6,2)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,1,1,2,1} = \frac{8}{7}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,1,2,1,1} = -\frac{1}{210}\,\zeta(2)\left(398\,\zeta(2)^3 + 105\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,1,2,1,1,1} = \left(\frac{1}{6}\zeta(3)\zeta(5) - \frac{1}{3}\zeta(2)\zeta(3)^2 + \frac{59}{35}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,3,2,1,1,1,1} = -\frac{1}{336}\,\zeta(2)\left(-224\,\zeta(3)^2 + 195\,\zeta(2)^3\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,4,1,1,1,1,1} = \left(-\frac{1}{5}\zeta(3)\zeta(5) - \frac{1}{6}\zeta(2)\zeta(3)^2 + \frac{3}{56}\,\zeta(2)^4\right)\mathcal{T}e^2$$

$$+\left(-\frac{1}{6}\zeta(2)^2\zeta(3) + \frac{1}{5}\zeta(2)\zeta(5)\right)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,3,1} = \left(-\frac{44}{35}\,\zeta(2)^4 + 6\,\zeta(3)\zeta(5) - \zeta(6,2)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,2,2,1} = \left(-8\,\zeta(3)\zeta(5) + \frac{42}{25}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,3,1,1} = \left(-11\,\zeta(3)\zeta(5) + \frac{5}{2}\zeta(6,2) + \frac{323}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 - \frac{1}{2}\zeta(2)\zeta(5)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,2,1,2,1} = \left(-20\,\zeta(3)\zeta(5) + 10\,\zeta(6,2) + \frac{498}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,2,2,1,1} = \left(40\,\zeta(3)\zeta(5) - 10\,\zeta(6,2) - \frac{1136}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,3,1,1,1} = \left(\frac{5}{3}\zeta(3)\zeta(5) - \frac{7}{6}\zeta(2)\zeta(3)^2 + \frac{79}{525}\,\zeta(2)^4\right)\mathcal{T}e^2 - \frac{2}{15}\zeta(2)^2\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,1,1,2,1} = \left(20\,\zeta(3)\zeta(5) - 10\,\zeta(6,2) - \frac{498}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,2,1,1} = -\frac{106}{175}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,2,1,1,1} = \left(-\frac{130}{3}\,\zeta(3)\zeta(5) + \frac{7}{3}\zeta(2)\zeta(3)^2 + 10\,\zeta(6,2) + \frac{1154}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,3,1,1,1,1} = \left(\frac{7}{12}\,\zeta(2)\zeta(3)^2 - \frac{1219}{700}\,\zeta(2)^4 - \frac{5}{2}\zeta(6,2) + \frac{59}{6}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \frac{1}{40}\zeta(2)^2\zeta(3)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,1,1,1,2,1} = \left(-\frac{526}{175}\,\zeta(2)^4 + 8\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,2,1,1} = \left(-32\,\zeta(3)\zeta(5) + 10\,\zeta(6,2) + \frac{60}{7}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,2,1,1,1} = \left(\frac{94}{3}\,\zeta(3)\zeta(5) - \frac{7}{3}\zeta(2)\zeta(3)^2 - 10\,\zeta(6,2) - \frac{1256}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,2,1,1,1,1} = \left(\frac{26}{3}\,\zeta(3)\zeta(5) - \frac{7}{3}\zeta(2)\zeta(3)^2 + \frac{3}{175}\,\zeta(2)^4\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,3,1,1,1,1,1} = \left(\frac{1249}{1680}\,\zeta(2)^4 + \frac{2}{3}\zeta(2)\zeta(3)^2 + \zeta(6,2) - \frac{167}{30}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{5}\zeta(2)\zeta(5) + \frac{1}{6}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,1,1,2,1} = \left(\frac{44}{25}\,\zeta(2)^4 - 6\,\zeta(3)\zeta(5) + \zeta(6,2)\right)\mathcal{T}e^2 + 6\,\zeta(7)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,1,2,1,1} = \left(-\frac{5}{2}\zeta(6,2) - \frac{587}{175}\,\zeta(2)^4 + 11\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2 + \left(-15\,\zeta(7) + \frac{1}{2}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,2,1,1,1} = \left(\frac{983}{525}\,\zeta(2)^4 - \frac{17}{3}\,\zeta(3)\zeta(5) + \frac{7}{6}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(20\,\zeta(7) - 2\,\zeta(2)\zeta(5) - \frac{2}{15}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,2,1,1,1,1} = \left(\frac{5}{2}\zeta(6,2) - \frac{5}{2}\zeta(3)\zeta(5) - \frac{7}{12}\,\zeta(2)\zeta(3)^2 + \frac{23}{100}\,\zeta(2)^4\right)\mathcal{T}e^2$$
$$+\left(\frac{3}{8}\zeta(2)^2\zeta(3) - 15\,\zeta(7) + 3\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,1,1,1,1,1} = \left(\frac{5}{3}\zeta(2)\zeta(3)^2 - \zeta(6,2) - \frac{893}{8400}\,\zeta(2)^4 - \frac{73}{30}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(6\,\zeta(7) - \frac{11}{60}\,\zeta(2)^2\zeta(3) - \frac{11}{5}\,\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{4,1,1,1,1,1,1} = \left(-\frac{247}{2800}\,\zeta(2)^4 - \frac{3}{4}\zeta(2)\zeta(3)^2 + \frac{28}{15}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2$$
$$+\left(\frac{7}{10}\,\zeta(2)\zeta(5) - \frac{7}{120}\,\zeta(2)^2\zeta(3) - \zeta(7)\right)\mathcal{T}e^3$$
$$+\left(-\frac{1}{112}\,\zeta(2)^3 + \frac{1}{18}\zeta(3)^2\right)\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,1,3} = \left(-\frac{67}{2800}\,\zeta(2)^4 + \frac{8}{15}\,\zeta(3)\zeta(5) - \frac{2}{9}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2$$
$$+\left(-\frac{1}{10}\zeta(2)\zeta(5) + \frac{1}{120}\,\zeta(2)^2\zeta(3) + \frac{1}{7}\zeta(7)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,2,2} = \left(\frac{561}{1400}\,\zeta(2)^4 + \frac{4}{9}\zeta(2)\zeta(3)^2 - \frac{26}{15}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,3,1} = \frac{1}{1008}\,\zeta(2)\left(9\,\zeta(2)^3 - 56\,\zeta(3)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,1,2,1,2} = \left(-\frac{1237}{700}\,\zeta(2)^4 + 2\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,1,2,2,1} = \frac{1}{15}\zeta(3)\left(6\,\zeta(5) - 5\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,1,3,1,1} = \left(-\frac{1}{5}\zeta(3)\zeta(5) + \frac{3}{112}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(-\frac{1}{10}\zeta(2)\zeta(5) + \frac{1}{12}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,1,2,1,1,2} = \left(\frac{1287}{350}\,\zeta(2)^4 - \frac{4}{3}\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,2,1,2,1} = -\frac{3}{100}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,2,2,1,1} = \frac{1}{4200}\,\zeta(2)\left(-1119\,\zeta(2)^3 + 1400\,\zeta(3)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,3,1,1,1} = \left(\frac{1}{400}\,\zeta(2)^4 - \frac{1}{3}\zeta(3)\zeta(5) + \frac{5}{18}\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 - \frac{1}{120}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,1,2,1,1,1,2} = -\frac{148}{35}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,2,1,1,2,1} = \frac{4}{3}\zeta(3)\zeta(5)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,2,1,2,1,1} = \left(\frac{59}{70}\,\zeta(2)^4 - 2\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,2,2,1,1,1} = \frac{8}{9}\,\zeta(3)\left(3\,\zeta(5) - \zeta(2)\zeta(3)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,3,1,1,1,1} = \left(\frac{1}{400}\,\zeta(2)^4 - \frac{1}{3}\zeta(3)\zeta(5) + \frac{5}{18}\,\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 + \frac{1}{120}\,\zeta(2)^2\zeta(3)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,1,2,1,1,1,1,2} = \frac{464}{175}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,2,1,1,1,2,1} = \frac{4}{7}\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,2,1,1,2,1,1} = -\frac{73}{35}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,2,1,2,1,1,1} = \left(\frac{59}{70}\,\zeta(2)^4 - 2\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,2,2,1,1,1,1} = -\frac{1}{4200}\,\zeta(2)\left(1119\,\zeta(2)^3 - 1400\,\zeta(3)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,3,1,1,1,1,1} = \left(-\frac{1}{5}\zeta(3)\zeta(5) + \frac{3}{112}\,\zeta(2)^4\right)\mathcal{T}e^2 + \left(\frac{1}{10}\zeta(2)\zeta(5) - \frac{1}{12}\zeta(2)^2\zeta(3)\right)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{1,2,1,1,1,1,1,2} = -\frac{24}{25}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,1,1,1,1,2,1} = 0\ .$$

$$\mathcal{T}e^{1,2,1,1,1,2,1,1} = \frac{4}{7}\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,1,1,2,1,1,1} = \frac{4}{3}\zeta(3)\zeta(5)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,1,2,1,1,1,1} = -\frac{3}{100}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,2,2,1,1,1,1,1} = \frac{1}{15}\zeta(3)\left(6\,\zeta(5) - 5\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,3,1,1,1,1,1,1} = \frac{1}{1008}\,\zeta(2)\left(9\,\zeta(2)^3 - 56\,\zeta(3)^2\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,2,1} = -\frac{24}{25}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,1,1,1,1,2,1,1} = \frac{464}{175}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,1,1,1,2,1,1,1} = -\frac{148}{35}\,\zeta(2)^4\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,1,1,2,1,1,1,1} = \left(\frac{1287}{350}\,\zeta(2)^4 - \frac{4}{3}\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,1,2,1,1,1,1,1} = \left(-\frac{1237}{700}\,\zeta(2)^4 + 2\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,1,1,1,1,1,1} = \left(\frac{561}{1400}\,\zeta(2)^4 + \frac{4}{9}\zeta(2)\zeta(3)^2 - \frac{26}{15}\,\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,1,1,1,1,1} = \ & \left(-\frac{67}{2800}\,\zeta(2)^4 + \frac{8}{15}\,\zeta(3)\zeta(5) - \frac{2}{9}\zeta(2)\zeta(3)^2\right)\mathcal{T}e^2 \\ & + \left(-\frac{1}{7}\zeta(7) - \frac{1}{120}\,\zeta(2)^2\zeta(3) + \frac{1}{10}\zeta(2)\zeta(5)\right)\mathcal{T}e^3\ .\end{aligned}$$

$$\mathcal{T}e^{1,1,1,1,1,1,1,1,2} = \left(-\frac{67}{22400}\,\zeta(2)^4 - \frac{1}{36}\zeta(2)\zeta(3)^2 + \frac{1}{15}\zeta(3)\zeta(5)\right)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,1,2,1} = 0 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,2,1,1} = \frac{1}{2016}\,\zeta(2)\left(9\,\zeta(2)^3 - 56\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,2,1,1,1} = \frac{1}{90}\,\zeta(3)\left(-6\,\zeta(5) + 5\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,2,1,1,1,1} = \frac{1}{1600}\,\zeta(2)^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,2,1,1,1,1,1} = \frac{1}{90}\,\zeta(3)\left(-6\,\zeta(5) + 5\,\zeta(2)\zeta(3)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,2,1,1,1,1,1,1} = \frac{1}{2016}\,\zeta(2)\left(9\,\zeta(2)^3 - 56\,\zeta(3)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,2,1,1,1,1,1,1,1} = 0 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,1,1,1} = \left(-\frac{67}{22400}\,\zeta(2)^4 - \frac{1}{36}\zeta(2)\zeta(3)^2 + \frac{1}{15}\zeta(3)\zeta(5)\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{1,1,1,1,1,1,1,1,1,1} = -\frac{3}{1400}\,\zeta(2)^5 \ .$$

Deuxième partie

Table de multitangentes, avec des multizêtas linéarisés.

Table des multitangentes convergentes, jusqu'au poids 10 .

1 Poids 4.

$$\mathcal{T}e^{2,2} = 2\mathcal{Z}e^2\mathcal{T}e^2 \ .$$

2 Poids 5.

$$\mathcal{T}e^{2,3} = -3\mathcal{Z}e^3\mathcal{T}e^2 + \mathcal{Z}e^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2} = 3\mathcal{Z}e^3\mathcal{T}e^2 + \mathcal{Z}e^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2} = 0$$

3 Poids 6.

$$\mathcal{T}e^{2,4} = 4\mathcal{Z}e^4\mathcal{T}e^2 - 2\mathcal{Z}e^3\mathcal{T}e^3 + \mathcal{Z}e^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,3} = -6\mathcal{Z}e^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{4,2} = 4\mathcal{Z}e^4\mathcal{T}e^2 + 2\mathcal{Z}e^3\mathcal{T}e^3 + \mathcal{Z}e^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,2,2} = \big(\mathcal{Z}e^4 + 4\mathcal{Z}e^{2,2}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,3} = \big(- \mathcal{Z}e^{2,2} - \mathcal{Z}e^{3,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2} = \big(- \mathcal{Z}e^{2,2} - \mathcal{Z}e^{3,1}\big)\mathcal{T}e^2 - \mathcal{Z}e^{2,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,2} = 2\mathcal{Z}e^{2,1,1}\mathcal{T}e^2 \ .$$

4 Poids 7.

$$\mathcal{T}e^{2,5} = -5\mathcal{Z}e^5\mathcal{T}e^2 + 3\mathcal{Z}e^4\mathcal{T}e^3 - 2\mathcal{Z}e^3\mathcal{T}e^4 + \mathcal{Z}e^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{3,4} = 10\mathcal{Z}e^5\mathcal{T}e^2 - 2\mathcal{Z}e^4\mathcal{T}e^3 + \mathcal{Z}e^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,3} = -10\mathcal{Z}e^5\mathcal{T}e^2 - 2\mathcal{Z}e^4\mathcal{T}e^3 - \mathcal{Z}e^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,2} = 5\mathcal{Z}e^5\mathcal{T}e^2 + 3\mathcal{Z}e^4\mathcal{T}e^3 + 2\mathcal{Z}e^3\mathcal{T}e^4 + \mathcal{Z}e^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{2,3,2} = \big(\mathcal{Z}e^4 + 2\mathcal{Z}e^{2,2}\big)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,3} = \big(-\mathcal{Z}e^5 - 3\mathcal{Z}e^{2,3} - 4\mathcal{Z}e^{3,2}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,4} = \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 2\mathcal{Z}e^{4,1}\big)\mathcal{T}e^2 + \big(-\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,2,2} = \big(\mathcal{Z}e^5 + 3\mathcal{Z}e^{2,3} + 4\mathcal{Z}e^{3,2}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,3} = 2\mathcal{Z}e^{3,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,2} = \big(-\mathcal{Z}e^{2,3} - 2\mathcal{Z}e^{3,2} - 2\mathcal{Z}e^{4,1}\big)\mathcal{T}e^2 + \big(-\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^3 - \mathcal{Z}e^{2,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,2,2} = \big(\mathcal{Z}e^{2,3} + \mathcal{Z}e^{4,1} + 2\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,2} = \big(-\mathcal{Z}e^{2,3} - \mathcal{Z}e^{4,1} - 2\mathcal{Z}e^{2,1,2} - \mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,3} = \big(-\mathcal{Z}e^{2,1,2} - \mathcal{Z}e^{2,2,1} - 3\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,2} = \big(\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2,1} + 3\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,2} = 0 \ .$$

5 Poids 8.

$$\mathcal{T}e^{2,6} = 6\mathcal{Z}e^6\mathcal{T}e^2 - 4\mathcal{Z}e^5\mathcal{T}e^3 + 3\mathcal{Z}e^4\mathcal{T}e^4 - 2\mathcal{Z}e^3\mathcal{T}e^5 + \mathcal{Z}e^2\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{3,5} = -15\mathcal{Z}e^6\mathcal{T}e^2 + 5\mathcal{Z}e^5\mathcal{T}e^3 - 3\mathcal{Z}e^4\mathcal{T}e^4 + \mathcal{Z}e^3\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{4,4} = 20\mathcal{Z}e^6\mathcal{T}e^2 + 2\mathcal{Z}e^4\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,3} = -15\mathcal{Z}e^6\mathcal{T}e^2 - 5\mathcal{Z}e^5\mathcal{T}e^3 - 3\mathcal{Z}e^4\mathcal{T}e^4 - \mathcal{Z}e^3\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{6,2} = 6\mathcal{Z}e^6\mathcal{T}e^2 + 4\mathcal{Z}e^5\mathcal{T}e^3 + 3\mathcal{Z}e^4\mathcal{T}e^4 + 2\mathcal{Z}e^3\mathcal{T}e^5 + \mathcal{Z}e^2\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{2,4,2} = \big(2\mathcal{Z}e^6 + 8\mathcal{Z}e^{2,4} - 8\mathcal{Z}e^{3,3} + 6\mathcal{Z}e^{4,2}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^4 + 2\mathcal{Z}e^{2,2}\big)\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,3,3} = \big(-\mathcal{Z}e^6 - 6\mathcal{Z}e^{2,4} + 3\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^2 + \big(-\mathcal{Z}e^5 - \mathcal{Z}e^{3,2}\big)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,4} = \big(\mathcal{Z}e^6 + 4\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 5\mathcal{Z}e^{4,2}\big)\mathcal{T}e^2 + \big(-2\mathcal{Z}e^{2,3} - 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2}\mathcal{T}e^4 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,1,5} = \ & \big(-\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2} - 3\mathcal{Z}e^{5,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^3 \\ & + \big(-\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,1}\mathcal{T}e^5 \ .\end{aligned}$$

$$\mathcal{T}e^{3,3,2} = \big(-\mathcal{Z}e^6 - 6\mathcal{Z}e^{2,4} + 3\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^5 + \mathcal{Z}e^{3,2}\big)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,3} = \big(-\mathcal{Z}e^6 - 6\mathcal{Z}e^{3,3} - 6\mathcal{Z}e^{4,2}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,4} = \big(\mathcal{Z}e^{3,3} + 2\mathcal{Z}e^{4,2} + 2\mathcal{Z}e^{5,1}\big)\mathcal{T}e^2 + \big(-\mathcal{Z}e^{3,2} - 4\mathcal{Z}e^{4,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,2,2} = \big(\mathcal{Z}e^6 + 4\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 5\mathcal{Z}e^{4,2}\big)\mathcal{T}e^2 + \big(2\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,1,3} = \big(\mathcal{Z}e^{3,3} + 2\mathcal{Z}e^{4,2} + 2\mathcal{Z}e^{5,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{3,2} + 4\mathcal{Z}e^{4,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,1,2} = \big(-\mathcal{Z}e^{2,4}-2\mathcal{Z}e^{3,3}-3\mathcal{Z}e^{4,2}-3\mathcal{Z}e^{5,1}\big)\mathcal{T}e^2+\big(-\mathcal{Z}e^{2,3}-2\mathcal{Z}e^{3,2}-3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^3$$
$$+\big(-\mathcal{Z}e^{2,2}-2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^4-\mathcal{Z}e^{2,1}\mathcal{T}e^5\ .$$

$$\mathcal{T}e^{2,1,3,2} = \big(\mathcal{Z}e^{2,4}-2\mathcal{Z}e^{3,3}-\mathcal{Z}e^{4,2}+3\mathcal{Z}e^{2,1,3}-3\mathcal{Z}e^{2,2,2}+\mathcal{Z}e^{2,3,1}-2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^2$$
$$+\big(\mathcal{Z}e^{2,3}+\mathcal{Z}e^{4,1}+\mathcal{Z}e^{2,1,2}+2\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,2,2} = \big(2\mathcal{Z}e^{2,4}+2\mathcal{Z}e^{4,2}+8\mathcal{Z}e^{2,2,2}\big)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,3,1,2} = \big(\mathcal{Z}e^{2,4}-2\mathcal{Z}e^{3,3}-\mathcal{Z}e^{4,2}+3\mathcal{Z}e^{2,1,3}-3\mathcal{Z}e^{2,2,2}+\mathcal{Z}e^{2,3,1}-2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^2$$
$$+\big(-\mathcal{Z}e^{2,3}-\mathcal{Z}e^{4,1}-\mathcal{Z}e^{2,1,2}-2\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,2,3} = \big(-\mathcal{Z}e^{2,4}-\mathcal{Z}e^{5,1}-3\mathcal{Z}e^{2,1,3}-\mathcal{Z}e^{2,2,2}-\mathcal{Z}e^{2,3,1}-2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^2+\mathcal{Z}e^{2,1,2}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,1,3} = \big(\mathcal{Z}e^{3,3}+\mathcal{Z}e^{5,1}-\mathcal{Z}e^{2,2,2}-\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^{3,1,2}-\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^2+\mathcal{Z}e^{2,2,1}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,1,4} = \big(\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,2,2}+\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3,2,1}+4\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^2$$
$$+\big(-\mathcal{Z}e^{2,1,2}-\mathcal{Z}e^{2,2,1}-2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^3+\mathcal{Z}e^{2,1,1}\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{3,1,2,2} = \big(\mathcal{Z}e^{3,3}+\mathcal{Z}e^{5,1}-\mathcal{Z}e^{2,2,2}-\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^{3,1,2}-\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^2-\mathcal{Z}e^{2,2,1}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,1,2} = \big(-\mathcal{Z}e^{2,4}-\mathcal{Z}e^{5,1}-3\mathcal{Z}e^{2,1,3}-\mathcal{Z}e^{2,2,2}-\mathcal{Z}e^{2,3,1}-2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^2-\mathcal{Z}e^{2,1,2}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,3} = \big(-2\mathcal{Z}e^{3,1,2}-2\mathcal{Z}e^{3,2,1}-6\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{4,1,1,2} = \big(\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,2,2}+\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3,2,1}+4\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^2$$
$$+\big(\mathcal{Z}e^{2,1,2}+\mathcal{Z}e^{2,2,1}+2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^3+\mathcal{Z}e^{2,1,1}\mathcal{T}e^4\ .$$

$$\mathcal{T}e^{2,1,1,2,2} = \big(\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,3,1}+\mathcal{Z}e^{4,1,1}+2\mathcal{Z}e^{2,1,1,2}+\mathcal{Z}e^{2,1,2,1}+3\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,1,2,1,2} = \big(-\mathcal{Z}e^{4,2}-2\mathcal{Z}e^{2,2,2}-2\mathcal{Z}e^{2,3,1}-2\mathcal{Z}e^{4,1,1}-4\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,1,1,2} = \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{4,1,1} + 2\mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + 3\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{2,1,1,1,3} = \big(- \mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,2,1,1} - \mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{2} + \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{3,1,1,1,2} = \big(- \mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,2,1,1} - \mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{2,1,1,1,1,2} = 2\mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^{2} \ .$$

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$$\mathcal{T}e^{2,7} = -7\mathcal{Z}e^7\mathcal{T}e^2 + 5\mathcal{Z}e^6\mathcal{T}e^3 - 4\mathcal{Z}e^5\mathcal{T}e^4 + 3\mathcal{Z}e^4\mathcal{T}e^5 - 2\mathcal{Z}e^3\mathcal{T}e^6 + \mathcal{Z}e^2\mathcal{T}e^7 \ .$$

$$\mathcal{T}e^{3,6} = 21\mathcal{Z}e^7\mathcal{T}e^2 - 9\mathcal{Z}e^6\mathcal{T}e^3 + 6\mathcal{Z}e^5\mathcal{T}e^4 - 3\mathcal{Z}e^4\mathcal{T}e^5 + \mathcal{Z}e^3\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{4,5} = -35\mathcal{Z}e^7\mathcal{T}e^2 + 5\mathcal{Z}e^6\mathcal{T}e^3 - 5\mathcal{Z}e^5\mathcal{T}e^4 + \mathcal{Z}e^4\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{5,4} = 35\mathcal{Z}e^7\mathcal{T}e^2 + 5\mathcal{Z}e^6\mathcal{T}e^3 + 5\mathcal{Z}e^5\mathcal{T}e^4 + \mathcal{Z}e^4\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{6,3} = -21\mathcal{Z}e^7\mathcal{T}e^2 - 9\mathcal{Z}e^6\mathcal{T}e^3 - 6\mathcal{Z}e^5\mathcal{T}e^4 - 3\mathcal{Z}e^4\mathcal{T}e^5 - \mathcal{Z}e^3\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{7,2} = 7\mathcal{Z}e^7\mathcal{T}e^2 + 5\mathcal{Z}e^6\mathcal{T}e^3 + 4\mathcal{Z}e^5\mathcal{T}e^4 + 3\mathcal{Z}e^4\mathcal{T}e^5 + 2\mathcal{Z}e^3\mathcal{T}e^6 + \mathcal{Z}e^2\mathcal{T}e^7 \ .$$

$$\mathcal{T}e^{2,5,2} = \big(2\mathcal{Z}e^6 + 6\mathcal{Z}e^{2,4} - 8\mathcal{Z}e^{3,3} + 6\mathcal{Z}e^{4,2}\big)\mathcal{T}e^3 + \big(\mathcal{Z}e^4 + 2\mathcal{Z}e^{2,2}\big)\mathcal{T}e^5 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,4,3} = \ & \big(-3\mathcal{Z}e^7 - 10\mathcal{Z}e^{2,5} + 3\mathcal{Z}e^{4,3} - 6\mathcal{Z}e^{5,2}\big)\mathcal{T}e^2 \\ & + \big(-\mathcal{Z}e^6 - 2\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^3 + \big(-\mathcal{Z}e^5 - \mathcal{Z}e^{2,3} - \mathcal{Z}e^{3,2}\big)\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,4} = \ & \big(2\mathcal{Z}e^7 + 10\mathcal{Z}e^{2,5} + 4\mathcal{Z}e^{3,4} + 4\mathcal{Z}e^{5,2}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^6 - 2\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} + \mathcal{Z}e^{4,2}\big)\mathcal{T}e^3 \\ & + \mathcal{Z}e^{2,3}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,5} = \ & \big(-\mathcal{Z}e^7 - 5\mathcal{Z}e^{2,5} - 6\mathcal{Z}e^{3,4} - 6\mathcal{Z}e^{4,3} - 6\mathcal{Z}e^{5,2}\big)\mathcal{T}e^2 \\ & + \big(3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^3 + \big(-2\mathcal{Z}e^{2,3} - 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,2}\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,6} = \ & \big(\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^{5,2} + 4\mathcal{Z}e^{6,1}\big)\mathcal{T}e^2 \\ & + \big(-\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2} - 4\mathcal{Z}e^{5,1}\big)\mathcal{T}e^3 + \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^4 \\ & + \big(-\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^5 + \mathcal{Z}e^{2,1}\mathcal{T}e^6 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,4,2} = \ & \big(3\mathcal{Z}e^{7} + 10\mathcal{Z}e^{2,5} - 3\mathcal{Z}e^{4,3} + 6\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{2} \\ & +\big(-\mathcal{Z}e^{6} - 2\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3} + \big(\mathcal{Z}e^{5} + \mathcal{Z}e^{2,3} + \mathcal{Z}e^{3,2}\big)\mathcal{T}e^{4} \ .\end{aligned}$$

$$\mathcal{T}e^{3,3,3} = -\mathcal{Z}e^{6}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{3,2,4} = \big(\mathcal{Z}e^{7} + 4\mathcal{Z}e^{3,4} + 9\mathcal{Z}e^{4,3} + 10\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{2} + \big(-2\mathcal{Z}e^{3,3} - 2\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{3,2}\mathcal{T}e^{4} \ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,5} = \ & \big(-\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} - 5\mathcal{Z}e^{5,2} - 5\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 7\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{3} \\ & +\big(-\mathcal{Z}e^{3,2} - 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{3,1}\mathcal{T}e^{5} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,3,2} = \ & \big(-2\mathcal{Z}e^{7} - 10\mathcal{Z}e^{2,5} - 4\mathcal{Z}e^{3,4} - 4\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{2} \\ & +\big(\mathcal{Z}e^{6} - 2\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} + \mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3} - \mathcal{Z}e^{2,3}\mathcal{T}e^{4} \ .\end{aligned}$$

$$\mathcal{T}e^{4,2,3} = \big(-\mathcal{Z}e^{7} - 4\mathcal{Z}e^{3,4} - 9\mathcal{Z}e^{4,3} - 10\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{2} + \big(-2\mathcal{Z}e^{3,3} - 2\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3} - \mathcal{Z}e^{3,2}\mathcal{T}e^{4} \ .$$

$$\mathcal{T}e^{4,1,4} = \big(-2\mathcal{Z}e^{4,2} - 8\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{3} \ .$$

$$\begin{aligned}\mathcal{T}e^{5,2,2} = \ & \big(\mathcal{Z}e^{7} + 5\mathcal{Z}e^{2,5} + 6\mathcal{Z}e^{3,4} + 6\mathcal{Z}e^{4,3} + 6\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{2} \\ & +\big(3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3} + \big(2\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{2,2}\mathcal{T}e^{5} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,1,3} = \ & \big(\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 5\mathcal{Z}e^{5,2} + 5\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 7\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{3} \\ & +\big(\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{3,1}\mathcal{T}e^{5} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{6,1,2} = \ & \big(-\mathcal{Z}e^{2,5} - 2\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} - 4\mathcal{Z}e^{5,2} - 4\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{2} \\ & +\big(-\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2} - 4\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{3} + \big(-\mathcal{Z}e^{2,3} - 2\mathcal{Z}e^{3,2} - 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{4} \\ & +\big(-\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{5} - \mathcal{Z}e^{2,1}\mathcal{T}e^{6} \ .\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,4,2} = \ & \big(\mathcal{Z}e^{2,5} - 2\mathcal{Z}e^{3,4} + 4\mathcal{Z}e^{4,3} + 2\mathcal{Z}e^{6,1} + 4\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,3,2} + 5\mathcal{Z}e^{2,4,1} - 4\mathcal{Z}e^{3,1,3} \\
& + 2\mathcal{Z}e^{3,2,2} - 8\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} + 6\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - \mathcal{Z}e^{4,2} + 2\mathcal{Z}e^{2,1,3} - 3\mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^3 \\
& + \big(\mathcal{Z}e^{2,3} + \mathcal{Z}e^{4,1} + \mathcal{Z}e^{2,1,2} + 2\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,3,2} = \ & \big(-\mathcal{Z}e^{2,5} - 2\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} - 3\mathcal{Z}e^{2,2,3} - 4\mathcal{Z}e^{2,3,2} - 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,4} + \mathcal{Z}e^{4,2} + 3\mathcal{Z}e^{2,2,2}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,3,2,2} = \ & \big(\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 3\mathcal{Z}e^{2,2,3} + 4\mathcal{Z}e^{2,3,2} + 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,4} + \mathcal{Z}e^{4,2} + 3\mathcal{Z}e^{2,2,2}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,4,1,2} = \ & \big(-2\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} - 4\mathcal{Z}e^{4,3} - 2\mathcal{Z}e^{6,1} - 4\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,3,2} - 5\mathcal{Z}e^{2,4,1} + 4\mathcal{Z}e^{3,1,3} \\
& - 2\mathcal{Z}e^{3,2,2} + 8\mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,1,2} - 6\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - \mathcal{Z}e^{4,2} + 2\mathcal{Z}e^{2,1,3} - 3\mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^3 \\
& + \big(-\mathcal{Z}e^{2,3} - \mathcal{Z}e^{4,1} - \mathcal{Z}e^{2,1,2} - 2\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,3,3} = \ & \big(-2\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} + \mathcal{Z}e^{5,2} - \mathcal{Z}e^{6,1} - 6\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,3,2} - 3\mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{3,2,2} \\
& + 3\mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 + \big(-\mathcal{Z}e^{2,4} - \mathcal{Z}e^{5,1} - \mathcal{Z}e^{2,3,1} - \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\mathcal{T}e^{2,2,2,3} = \big(-\mathcal{Z}e^{2,5} - \mathcal{Z}e^{3,4} - 2\mathcal{Z}e^{5,2} - 3\mathcal{Z}e^{2,2,3} - 4\mathcal{Z}e^{2,3,2} - 6\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2,2}\mathcal{T}e^3 \ .$$

$$\begin{aligned}
\mathcal{T}e^{2,3,1,3} = \ & \big(-\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + \mathcal{Z}e^{5,2} + \mathcal{Z}e^{6,1} - 3\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} - 6\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} \\
& + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{3,3} + \mathcal{Z}e^{5,1} + 2\mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,4} = \ & \big(\mathcal{Z}e^{2,5} + \mathcal{Z}e^{6,1} + 4\mathcal{Z}e^{2,1,4} + 2\mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + 4\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} \\
& + 3\mathcal{Z}e^{4,1,2}\big)\mathcal{T}e^2 + \big(-2\mathcal{Z}e^{2,1,3} - \mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,1,2}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,1,4} = \ & \big(- \mathcal{Z}e^{4,3} - \mathcal{Z}e^{6,1} + \mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 2\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,2,2} + 4\mathcal{Z}e^{3,3,1} \\ & -2\mathcal{Z}e^{4,1,2} + 2\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 + \big(- \mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{2,3,1} - 2\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,5} = \ & \big(- \mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,2,2} - 2\mathcal{Z}e^{3,3,1} \\ & -3\mathcal{Z}e^{4,1,2} - 3\mathcal{Z}e^{4,2,1} - 5\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^2 \\ & +\big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^3 \\ & +\big(- \mathcal{Z}e^{2,1,2} - \mathcal{Z}e^{2,2,1} - 2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,3,2} = \ & \big(\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} - \mathcal{Z}e^{5,2} - \mathcal{Z}e^{6,1} + 3\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,2,2} + 6\mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,1,2} \\ & -3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{3,3} + \mathcal{Z}e^{5,1} + 2\mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{3,2,2,2} = \big(\mathcal{Z}e^{2,5} + \mathcal{Z}e^{3,4} + 2\mathcal{Z}e^{5,2} + 3\mathcal{Z}e^{2,2,3} + 4\mathcal{Z}e^{2,3,2} + 6\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2,2}\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{3,3,1,2} = \ & \big(2\mathcal{Z}e^{2,5} - 2\mathcal{Z}e^{3,4} - \mathcal{Z}e^{5,2} + \mathcal{Z}e^{6,1} + 6\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} - \mathcal{Z}e^{3,2,2} \\ & -3\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 + \big(- \mathcal{Z}e^{2,4} - \mathcal{Z}e^{5,1} - \mathcal{Z}e^{2,3,1} - \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{3,1,2,3} = \big(- \mathcal{Z}e^{3,4} - \mathcal{Z}e^{6,1} - 3\mathcal{Z}e^{3,1,3} - 3\mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,3} = \big(\mathcal{Z}e^{3,4} + \mathcal{Z}e^{6,1} + 3\mathcal{Z}e^{3,1,3} + 3\mathcal{Z}e^{4,1,2} - 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,4} = \ & \big(\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{3,3,1} + 4\mathcal{Z}e^{4,1,2} + 4\mathcal{Z}e^{4,2,1} + 10\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^2 \\ & +\big(- \mathcal{Z}e^{3,1,2} - \mathcal{Z}e^{3,2,1} - 2\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,1,2,2} = \ & \big(\mathcal{Z}e^{4,3} + \mathcal{Z}e^{6,1} - \mathcal{Z}e^{2,2,3} - 2\mathcal{Z}e^{2,3,2} - 2\mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,2,2} - 4\mathcal{Z}e^{3,3,1} + 2\mathcal{Z}e^{4,1,2} \\ & -2\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2 + \big(- \mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{2,3,1} - 2\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 - \mathcal{Z}e^{2,2,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,2,1,2} = \ & \big(- \mathcal{Z}e^{2,5} - \mathcal{Z}e^{6,1} - 4\mathcal{Z}e^{2,1,4} - 2\mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} - 4\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,2,2} \\ & -3\mathcal{Z}e^{4,1,2}\big)\mathcal{T}e^2 + \big(- 2\mathcal{Z}e^{2,1,3} - \mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^3 - \mathcal{Z}e^{2,1,2}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,3} = \ & \big(- \mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{3,2,2} - \mathcal{Z}e^{3,3,1} - 4\mathcal{Z}e^{4,1,2} - 4\mathcal{Z}e^{4,2,1} - 10\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^2 \\ & + \big(- \mathcal{Z}e^{3,1,2} - \mathcal{Z}e^{3,2,1} - 2\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^3 - \mathcal{Z}e^{3,1,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 2\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} \\ & + 3\mathcal{Z}e^{4,2,1} + 5\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^2 \\ & + \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^3 \\ & + \big(\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,3,2} = \ & \big(\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{4,1,2} \\ & - \mathcal{Z}e^{4,2,1} + 3\mathcal{Z}e^{2,1,1,3} - 2\mathcal{Z}e^{2,1,2,2} + 2\mathcal{Z}e^{2,1,3,1} - 3\mathcal{Z}e^{2,2,1,2} - 3\mathcal{Z}e^{2,2,2,1} \\ & - \mathcal{Z}e^{2,3,1,1} - 2\mathcal{Z}e^{3,1,1,2} - 2\mathcal{Z}e^{3,1,2,1}\big)\mathcal{T}e^2 \\ & + \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{4,1,1} + \mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + 2\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,2,2,2} = \ & \big(\mathcal{Z}e^{4,3} + \mathcal{Z}e^{2,1,4} + 2\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{4,1,2} + \mathcal{Z}e^{4,2,1} + 4\mathcal{Z}e^{2,1,2,2} \\ & + 4\mathcal{Z}e^{2,2,1,2} + 2\mathcal{Z}e^{2,2,2,1}\big)\mathcal{T}e^2 \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,3,1,2} = \big(- \mathcal{Z}e^{4,2} - 2\mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{2,3,1} - 2\mathcal{Z}e^{4,1,1} - 2\mathcal{Z}e^{2,1,2,1} - 4\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,1,2,2} = 0 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,2,2,1,2} = \ & \big(- \mathcal{Z}e^{4,3} - \mathcal{Z}e^{2,1,4} - 2\mathcal{Z}e^{2,2,3} - 2\mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{4,1,2} - \mathcal{Z}e^{4,2,1} \\ & - 4\mathcal{Z}e^{2,1,2,2} - 4\mathcal{Z}e^{2,2,1,2} - 2\mathcal{Z}e^{2,2,2,1}\big)\mathcal{T}e^2 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,1,1,2} = \ & \big(- \mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{4,1,2} \\ & + \mathcal{Z}e^{4,2,1} - 3\mathcal{Z}e^{2,1,1,3} + 2\mathcal{Z}e^{2,1,2,2} - 2\mathcal{Z}e^{2,1,3,1} + 3\mathcal{Z}e^{2,2,1,2} + 3\mathcal{Z}e^{2,2,2,1} \\ & + \mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,1,2} + 2\mathcal{Z}e^{3,1,2,1}\big)\mathcal{T}e^2 \\ & + \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{4,1,1} + \mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + 2\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,1,2,3} = \big(- \mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,4,1} - \mathcal{Z}e^{5,1,1} - 3\mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{2,1,2,2} - \mathcal{Z}e^{2,1,3,1} - \mathcal{Z}e^{2,2,1,2}$$
$$-\mathcal{Z}e^{2,3,1,1} - 2\mathcal{Z}e^{3,1,1,2} - 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1,2}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,1,3} = \big(\mathcal{Z}e^{5,2} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{3,3,1} + 2\mathcal{Z}e^{5,1,1} - \mathcal{Z}e^{2,1,2,2} - \mathcal{Z}e^{2,1,3,1}$$
$$-\mathcal{Z}e^{2,2,2,1} + 2\mathcal{Z}e^{2,3,1,1} - 2\mathcal{Z}e^{3,1,2,1} + 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,2,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,1,1,3} = \big(- \mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{5,1,1} - \mathcal{Z}e^{2,2,1,2} - \mathcal{Z}e^{2,2,2,1} - 3\mathcal{Z}e^{2,3,1,1} - 2\mathcal{Z}e^{3,1,1,2}$$
$$-\mathcal{Z}e^{3,1,2,1} - 3\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,4} = \big(\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + \mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,1,2}$$
$$+2\mathcal{Z}e^{3,1,2,1} + 2\mathcal{Z}e^{3,2,1,1} + 2\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^2$$
$$+\big(- \mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,2,1,1} - 2\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,1,1,2,2} = \big(\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{5,1,1} + \mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + 3\mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,1,2}$$
$$+\mathcal{Z}e^{3,1,2,1} + 3\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,2,1,2} = \big(- \mathcal{Z}e^{5,2} - \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} - \mathcal{Z}e^{3,2,2} - \mathcal{Z}e^{3,3,1} - 2\mathcal{Z}e^{5,1,1} + \mathcal{Z}e^{2,1,2,2}$$
$$+\mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,2,1} - 2\mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,2,1} - 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,2,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,1,1,2} = \big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{5,1,1} + 3\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,1,2}$$
$$+\mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,1,2} + 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1,2}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,1,3} = 2\mathcal{Z}e^{3,1,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,1,1,2} = \big(- \mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{2,1,2,2} - \mathcal{Z}e^{2,1,3,1} - \mathcal{Z}e^{2,2,1,2} - \mathcal{Z}e^{2,2,2,1} - \mathcal{Z}e^{2,3,1,1} - 2\mathcal{Z}e^{3,1,1,2}$$
$$-2\mathcal{Z}e^{3,1,2,1} - 2\mathcal{Z}e^{3,2,1,1} - 2\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^2$$
$$+\big(- \mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,2,1,1} - 2\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^3 - \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,1,1,2,2} = \big(\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,3,1,1} + \mathcal{Z}e^{4,1,1,1} + 2\mathcal{Z}e^{2,1,1,1,2} + \mathcal{Z}e^{2,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1} + \mathcal{Z}e^{2,2,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,2,1,2} = \big(-\mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{4,1,2} - \mathcal{Z}e^{4,2,1} - \mathcal{Z}e^{2,1,2,2} - \mathcal{Z}e^{2,1,3,1} - 2\mathcal{Z}e^{2,2,1,2} - 2\mathcal{Z}e^{2,2,2,1} - 3\mathcal{Z}e^{2,3,1,1} - 3\mathcal{Z}e^{4,1,1,1} - 4\mathcal{Z}e^{2,1,2,1,1} - 6\mathcal{Z}e^{2,2,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,1,2} = \big(\mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{4,1,2} + \mathcal{Z}e^{4,2,1} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + 2\mathcal{Z}e^{2,2,1,2} + 2\mathcal{Z}e^{2,2,2,1} + 3\mathcal{Z}e^{2,3,1,1} + 3\mathcal{Z}e^{4,1,1,1} + 4\mathcal{Z}e^{2,1,2,1,1} + 6\mathcal{Z}e^{2,2,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,1,2} = \big(-\mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{2,1,3,1} - \mathcal{Z}e^{2,3,1,1} - \mathcal{Z}e^{4,1,1,1} - 2\mathcal{Z}e^{2,1,1,1,2} - \mathcal{Z}e^{2,1,1,2,1} - \mathcal{Z}e^{2,1,2,1,1} - \mathcal{Z}e^{2,2,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,3} = \big(-\mathcal{Z}e^{2,1,1,1,2} - \mathcal{Z}e^{2,1,1,2,1} - \mathcal{Z}e^{2,1,2,1,1} - \mathcal{Z}e^{2,2,1,1,1} - 3\mathcal{Z}e^{3,1,1,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,1,1,1,2} = \big(\mathcal{Z}e^{2,1,1,1,2} + \mathcal{Z}e^{2,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1} + \mathcal{Z}e^{2,2,1,1,1} + 3\mathcal{Z}e^{3,1,1,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,2} = 0 \ .$$

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$$\mathcal{T}e^{2,8} = 8\mathcal{Z}e^8\mathcal{T}e^2 - 6\mathcal{Z}e^7\mathcal{T}e^3 + 5\mathcal{Z}e^6\mathcal{T}e^4 - 4\mathcal{Z}e^5\mathcal{T}e^5 + 3\mathcal{Z}e^4\mathcal{T}e^6 - 2\mathcal{Z}e^3\mathcal{T}e^7 + \mathcal{Z}e^2\mathcal{T}e^8 \ .$$

$$\mathcal{T}e^{3,7} = -28\mathcal{Z}e^8\mathcal{T}e^2 + 14\mathcal{Z}e^7\mathcal{T}e^3 - 10\mathcal{Z}e^6\mathcal{T}e^4 + 6\mathcal{Z}e^5\mathcal{T}e^5 - 3\mathcal{Z}e^4\mathcal{T}e^6 + \mathcal{Z}e^3\mathcal{T}e^7 \ .$$

$$\mathcal{T}e^{4,6} = 56\mathcal{Z}e^8\mathcal{T}e^2 - 14\mathcal{Z}e^7\mathcal{T}e^3 + 11\mathcal{Z}e^6\mathcal{T}e^4 - 4\mathcal{Z}e^5\mathcal{T}e^5 + \mathcal{Z}e^4\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{5,5} = -70\mathcal{Z}e^8\mathcal{T}e^2 - 10\mathcal{Z}e^6\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{6,4} = 56\mathcal{Z}e^8\mathcal{T}e^2 + 14\mathcal{Z}e^7\mathcal{T}e^3 + 11\mathcal{Z}e^6\mathcal{T}e^4 + 4\mathcal{Z}e^5\mathcal{T}e^5 + \mathcal{Z}e^4\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{7,3} = -28\mathcal{Z}e^8\mathcal{T}e^2 - 14\mathcal{Z}e^7\mathcal{T}e^3 - 10\mathcal{Z}e^6\mathcal{T}e^4 - 6\mathcal{Z}e^5\mathcal{T}e^5 - 3\mathcal{Z}e^4\mathcal{T}e^6 - \mathcal{Z}e^3\mathcal{T}e^7 \ .$$

$$\mathcal{T}e^{8,2} = 8\mathcal{Z}e^8\mathcal{T}e^2 + 6\mathcal{Z}e^7\mathcal{T}e^3 + 5\mathcal{Z}e^6\mathcal{T}e^4 + 4\mathcal{Z}e^5\mathcal{T}e^5 + 3\mathcal{Z}e^4\mathcal{T}e^6 + 2\mathcal{Z}e^3\mathcal{T}e^7 + \mathcal{Z}e^2\mathcal{T}e^8 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,6,2} = \ & \big(3\mathcal{Z}e^8 + 12\mathcal{Z}e^{2,6} - 16\mathcal{Z}e^{3,5} + 18\mathcal{Z}e^{4,4} - 16\mathcal{Z}e^{5,3} + 10\mathcal{Z}e^{6,2}\big)\mathcal{T}e^2 \\ & + \big(2\mathcal{Z}e^6 + 6\mathcal{Z}e^{2,4} - 8\mathcal{Z}e^{3,3} + 6\mathcal{Z}e^{4,2}\big)\mathcal{T}e^4 + \big(\mathcal{Z}e^4 + 2\mathcal{Z}e^{2,2}\big)\mathcal{T}e^6 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,5,3} = \ & \big(-3\mathcal{Z}e^8 - 15\mathcal{Z}e^{2,6} + 15\mathcal{Z}e^{3,5} - 18\mathcal{Z}e^{4,4} + 16\mathcal{Z}e^{5,3} - 10\mathcal{Z}e^{6,2}\big)\mathcal{T}e^2 \\ & + \big(-3\mathcal{Z}e^7 - 5\mathcal{Z}e^{2,5} + 3\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} - 6\mathcal{Z}e^{5,2}\big)\mathcal{T}e^3 \\ & + \big(-\mathcal{Z}e^6 - 3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^4 + \big(-\mathcal{Z}e^5 - \mathcal{Z}e^{2,3} - \mathcal{Z}e^{3,2}\big)\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,4,4} = \ & \big(5\mathcal{Z}e^8 + 20\mathcal{Z}e^{2,6} + 10\mathcal{Z}e^{4,4} - 8\mathcal{Z}e^{5,3} + 10\mathcal{Z}e^{6,2}\big)\mathcal{T}e^2 \\ & + \big(2\mathcal{Z}e^7 - 4\mathcal{Z}e^{3,4} - 2\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^{5,2}\big)\mathcal{T}e^3 + \big(\mathcal{Z}e^6 + 2\mathcal{Z}e^{2,4} + \mathcal{Z}e^{4,2}\big)\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,5} = \ & \big(-3\mathcal{Z}e^8 - 15\mathcal{Z}e^{2,6} - 10\mathcal{Z}e^{3,5} - 9\mathcal{Z}e^{4,4} - \mathcal{Z}e^{5,3} - 5\mathcal{Z}e^{6,2}\big)\mathcal{T}e^2 \\ & + \big(-\mathcal{Z}e^7 + 5\mathcal{Z}e^{2,5} + 6\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} - \mathcal{Z}e^{5,2}\big)\mathcal{T}e^3 + \big(-3\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3}\big)\mathcal{T}e^4 \\ & + \mathcal{Z}e^{2,3}\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,6} = \ & \big(\mathcal{Z}e^{8} + 6\mathcal{Z}e^{2,6} + 8\mathcal{Z}e^{3,5} + 9\mathcal{Z}e^{4,4} + 8\mathcal{Z}e^{5,3} + 7\mathcal{Z}e^{6,2}\big)\mathcal{T}e^{2} \\
& +\big(-4\mathcal{Z}e^{2,5} - 6\mathcal{Z}e^{3,4} - 6\mathcal{Z}e^{4,3} - 4\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} + \big(3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4} \\
& +\big(-2\mathcal{Z}e^{2,3} - 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{5} + \mathcal{Z}e^{2,2}\mathcal{T}e^{6} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,7} = \ & \big(-\mathcal{Z}e^{2,6} - 2\mathcal{Z}e^{3,5} - 3\mathcal{Z}e^{4,4} - 4\mathcal{Z}e^{5,3} - 5\mathcal{Z}e^{6,2} - 5\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2} \\
& +\big(\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^{5,2} + 5\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3} \\
& +\big(-\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2} - 4\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4} + \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{5} \\
& +\big(-\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{6} + \mathcal{Z}e^{2,1}\mathcal{T}e^{7} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,5,2} = \ & \big(-3\mathcal{Z}e^{8} - 15\mathcal{Z}e^{2,6} + 15\mathcal{Z}e^{3,5} - 18\mathcal{Z}e^{4,4} + 16\mathcal{Z}e^{5,3} - 10\mathcal{Z}e^{6,2}\big)\mathcal{T}e^{2} \\
& +\big(3\mathcal{Z}e^{7} + 5\mathcal{Z}e^{2,5} - 3\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} + 6\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} \\
& +\big(-\mathcal{Z}e^{6} - 3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4} + \big(\mathcal{Z}e^{5} + \mathcal{Z}e^{2,3} + \mathcal{Z}e^{3,2}\big)\mathcal{T}e^{5} \ .
\end{aligned}$$

$$\mathcal{T}e^{3,4,3} = \big(-3\mathcal{Z}e^{8} - 20\mathcal{Z}e^{3,5} + 12\mathcal{Z}e^{4,4} - 12\mathcal{Z}e^{5,3}\big)\mathcal{T}e^{2} + \big(-\mathcal{Z}e^{6} - 2\mathcal{Z}e^{3,3}\big)\mathcal{T}e^{4} \ .$$

$$\mathcal{T}e^{3,3,4} = \big(\mathcal{Z}e^{8} + 10\mathcal{Z}e^{3,5} + 6\mathcal{Z}e^{5,3}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{7} - 2\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{3,3}\mathcal{T}e^{4} \ .$$

$$\begin{aligned}
\mathcal{T}e^{3,2,5} = \ & \big(-\mathcal{Z}e^{8} - 5\mathcal{Z}e^{3,5} - 9\mathcal{Z}e^{4,4} - 15\mathcal{Z}e^{5,3} - 15\mathcal{Z}e^{6,2}\big)\mathcal{T}e^{2} \\
& +\big(3\mathcal{Z}e^{3,4} + 6\mathcal{Z}e^{4,3} + 5\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} + \big(-2\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{3,2}\mathcal{T}e^{5} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,6} = \ & \big(\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{4,4} + 6\mathcal{Z}e^{5,3} + 9\mathcal{Z}e^{6,2} + 9\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2} \\
& +\big(-\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} - 6\mathcal{Z}e^{5,2} - 11\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3} + \big(\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 6\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4} \\
& +\big(-\mathcal{Z}e^{3,2} - 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{5} + \mathcal{Z}e^{3,1}\mathcal{T}e^{6} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,4,2} = \ & \big(5\mathcal{Z}e^{8} + 20\mathcal{Z}e^{2,6} + 10\mathcal{Z}e^{4,4} - 8\mathcal{Z}e^{5,3} + 10\mathcal{Z}e^{6,2}\big)\mathcal{T}e^{2} \\
& +\big(-2\mathcal{Z}e^{7} + 4\mathcal{Z}e^{3,4} + 2\mathcal{Z}e^{4,3} - 4\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} + \big(\mathcal{Z}e^{6} + 2\mathcal{Z}e^{2,4} + \mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\mathcal{T}e^{4,3,3} = \big(\mathcal{Z}e^{8} + 10\mathcal{Z}e^{3,5} + 6\mathcal{Z}e^{5,3}\big)\mathcal{T}e^{2} + \big(-\mathcal{Z}e^{7} + 2\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{3,3}\mathcal{T}e^{4} \ .$$

$$\mathcal{T}e^{4,2,4} = \big(\mathcal{Z}e^{8} + 8\mathcal{Z}e^{4,4} + 16\mathcal{Z}e^{5,3} + 20\mathcal{Z}e^{6,2}\big)\mathcal{T}e^{2} + 2\mathcal{Z}e^{4,2}\mathcal{T}e^{4} \ .$$

$$\begin{aligned}\mathcal{T}e^{4,1,5} = \ & \big(-\mathcal{Z}e^{4,4} - 3\mathcal{Z}e^{5,3} - 5\mathcal{Z}e^{6,2} - 5\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{4,3} + 5\mathcal{Z}e^{5,2} + 15\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3} \\ & + \big(-\mathcal{Z}e^{4,2} - 3\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{4,1}\mathcal{T}e^{5} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,3,2} = \ & \big(-3\mathcal{Z}e^{8} - 15\mathcal{Z}e^{2,6} - 10\mathcal{Z}e^{3,5} - 9\mathcal{Z}e^{4,4} - \mathcal{Z}e^{5,3} - 5\mathcal{Z}e^{6,2}\big)\mathcal{T}e^{2} \\ & + \big(\mathcal{Z}e^{7} - 5\mathcal{Z}e^{2,5} - 6\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} + \mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} + \big(-3\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3}\big)\mathcal{T}e^{4} \\ & - \mathcal{Z}e^{2,3}\mathcal{T}e^{5} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,2,3} = \ & \big(-\mathcal{Z}e^{8} - 5\mathcal{Z}e^{3,5} - 9\mathcal{Z}e^{4,4} - 15\mathcal{Z}e^{5,3} - 15\mathcal{Z}e^{6,2}\big)\mathcal{T}e^{2} \\ & + \big(-3\mathcal{Z}e^{3,4} - 6\mathcal{Z}e^{4,3} - 5\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} + \big(-2\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4} - \mathcal{Z}e^{3,2}\mathcal{T}e^{5} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,1,4} = \ & \big(-\mathcal{Z}e^{4,4} - 3\mathcal{Z}e^{5,3} - 5\mathcal{Z}e^{6,2} - 5\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2} + \big(-\mathcal{Z}e^{4,3} - 5\mathcal{Z}e^{5,2} - 15\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3} \\ & + \big(-\mathcal{Z}e^{4,2} - 3\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4} - \mathcal{Z}e^{4,1}\mathcal{T}e^{5} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{6,2,2} = \ & \big(\mathcal{Z}e^{8} + 6\mathcal{Z}e^{2,6} + 8\mathcal{Z}e^{3,5} + 9\mathcal{Z}e^{4,4} + 8\mathcal{Z}e^{5,3} + 7\mathcal{Z}e^{6,2}\big)\mathcal{T}e^{2} \\ & + \big(4\mathcal{Z}e^{2,5} + 6\mathcal{Z}e^{3,4} + 6\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} + \big(3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4} \\ & + \big(2\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{5} + \mathcal{Z}e^{2,2}\mathcal{T}e^{6} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{6,1,3} = \ & \big(\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{4,4} + 6\mathcal{Z}e^{5,3} + 9\mathcal{Z}e^{6,2} + 9\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2} \\ & + \big(\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 6\mathcal{Z}e^{5,2} + 11\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3} + \big(\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 6\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4} \\ & + \big(\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{5} + \mathcal{Z}e^{3,1}\mathcal{T}e^{6} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{7,1,2} = \ & \big(-\mathcal{Z}e^{2,6} - 2\mathcal{Z}e^{3,5} - 3\mathcal{Z}e^{4,4} - 4\mathcal{Z}e^{5,3} - 5\mathcal{Z}e^{6,2} - 5\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2} \\ & \big(-\mathcal{Z}e^{2,5} - 2\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} - 4\mathcal{Z}e^{5,2} - 5\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3} \\ & + \big(-\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{4,2} - 4\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4} + \big(-\mathcal{Z}e^{2,3} - 2\mathcal{Z}e^{3,2} - 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{5} \\ & + \big(-\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{6} - \mathcal{Z}e^{2,1}\mathcal{T}e^{7} \ .\end{aligned}$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,5,2} = \; & \big(2\mathcal{Z}e^{2,6} - 4\mathcal{Z}e^{3,5} + 2\mathcal{Z}e^{4,4} - 4\mathcal{Z}e^{5,3} - 2\mathcal{Z}e^{6,2} + 5\mathcal{Z}e^{2,1,5} - 5\mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} \\
& -7\mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,5,1} - 6\mathcal{Z}e^{3,1,4} + 4\mathcal{Z}e^{3,2,3} + 6\mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{4,1,3} - 9\mathcal{Z}e^{4,2,2} \\
& -4\mathcal{Z}e^{5,1,2}\big)\mathcal{T}e^2 \\
& +\big(2\mathcal{Z}e^{2,5} - 2\mathcal{Z}e^{3,4} + 4\mathcal{Z}e^{4,3} + 2\mathcal{Z}e^{6,1} + 3\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,3,2} + 6\mathcal{Z}e^{2,4,1} \\
& -4\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} - 8\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} + 6\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\big(\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - \mathcal{Z}e^{4,2} + 2\mathcal{Z}e^{2,1,3} - 3\mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^4 \\
& +\big(\mathcal{Z}e^{2,3} + \mathcal{Z}e^{4,1} + \mathcal{Z}e^{2,1,2} + 2\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^5 \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,2,4,2} = \; & \big(3\mathcal{Z}e^{2,6} + 7\mathcal{Z}e^{4,4} + 2\mathcal{Z}e^{6,2} + 12\mathcal{Z}e^{2,2,4} - 4\mathcal{Z}e^{2,3,3} + 11\mathcal{Z}e^{2,4,2} - 4\mathcal{Z}e^{3,2,3} \\
& -4\mathcal{Z}e^{3,3,2} + 9\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^2 \\
& +\big(-2\mathcal{Z}e^{3,4} - 2\mathcal{Z}e^{4,3} - 2\mathcal{Z}e^{2,2,3} - 2\mathcal{Z}e^{2,3,2} - 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^3 \\
& +\big(\mathcal{Z}e^{2,4} + \mathcal{Z}e^{4,2} + 3\mathcal{Z}e^{2,2,2}\big)\mathcal{T}e^4 \; .
\end{aligned}
$$

$$
\mathcal{T}e^{2,3,3,2} = \big(-2\mathcal{Z}e^{2,6} - 4\mathcal{Z}e^{3,5} - 6\mathcal{Z}e^{4,4} - 12\mathcal{Z}e^{2,2,4} + 6\mathcal{Z}e^{2,3,3} - 6\mathcal{Z}e^{2,4,2} - 4\mathcal{Z}e^{3,3,2}\big)\mathcal{T}e^2 \; .
$$

$$
\begin{aligned}
\mathcal{T}e^{2,4,2,2} = \; & \big(3\mathcal{Z}e^{2,6} + 7\mathcal{Z}e^{4,4} + 2\mathcal{Z}e^{6,2} + 12\mathcal{Z}e^{2,2,4} - 4\mathcal{Z}e^{2,3,3} + 11\mathcal{Z}e^{2,4,2} - 4\mathcal{Z}e^{3,2,3} \\
& -4\mathcal{Z}e^{3,3,2} + 9\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^2 + \big(2\mathcal{Z}e^{3,4} + 2\mathcal{Z}e^{4,3} + 2\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^3 \\
& +\big(\mathcal{Z}e^{2,4} + \mathcal{Z}e^{4,2} + 3\mathcal{Z}e^{2,2,2}\big)\mathcal{T}e^4 \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,5,1,2} = \; & \big(2\mathcal{Z}e^{2,6} - 4\mathcal{Z}e^{3,5} + 2\mathcal{Z}e^{4,4} - 4\mathcal{Z}e^{5,3} - 2\mathcal{Z}e^{6,2} + 5\mathcal{Z}e^{2,1,5} - 5\mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} \\
& -7\mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,5,1} - 6\mathcal{Z}e^{3,1,4} + 4\mathcal{Z}e^{3,2,3} + 6\mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{4,1,3} - 9\mathcal{Z}e^{4,2,2} \\
& -4\mathcal{Z}e^{5,1,2}\big)\mathcal{T}e^2 \\
& +\big(-2\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} - 4\mathcal{Z}e^{4,3} - 2\mathcal{Z}e^{6,1} - 3\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,3,2} - 6\mathcal{Z}e^{2,4,1} \\
& +4\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,2,2} + 8\mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,1,2} - 6\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\big(\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{3,3} - \mathcal{Z}e^{4,2} + 2\mathcal{Z}e^{2,1,3} - 3\mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^4 \\
& +\big(-\mathcal{Z}e^{2,3} - \mathcal{Z}e^{4,1} - \mathcal{Z}e^{2,1,2} - 2\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^5 \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,4,3} = \ & \big(-4\mathcal{Z}e^{2,6} + 4\mathcal{Z}e^{3,5} - 3\mathcal{Z}e^{4,4} - \mathcal{Z}e^{5,3} + \mathcal{Z}e^{6,2} - 3\mathcal{Z}e^{7,1} - 10\mathcal{Z}e^{2,1,5} + 2\mathcal{Z}e^{2,2,4} \\
& -2\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} - 6\mathcal{Z}e^{2,5,1} + 4\mathcal{Z}e^{3,1,4} - 3\mathcal{Z}e^{3,2,3} - 4\mathcal{Z}e^{3,3,2} + 4\mathcal{Z}e^{3,4,1} \\
& -3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} - 6\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(-2\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} + \mathcal{Z}e^{5,2} - \mathcal{Z}e^{6,1} - 2\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} - 3\mathcal{Z}e^{2,4,1} \\
& +2\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + 4\mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\big(-\mathcal{Z}e^{2,4} - \mathcal{Z}e^{5,1} - \mathcal{Z}e^{2,1,3} - \mathcal{Z}e^{2,3,1} - \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^4 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,2,3,3} = \ & \big(-\mathcal{Z}e^{2,6} + 3\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{5,3} - \mathcal{Z}e^{6,2} - 6\mathcal{Z}e^{2,2,4} + 3\mathcal{Z}e^{2,3,3} - 3\mathcal{Z}e^{2,4,2} + 3\mathcal{Z}e^{3,2,3} \\
& +6\mathcal{Z}e^{3,3,2} - 3\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^2 + \big(-\mathcal{Z}e^{2,5} - \mathcal{Z}e^{5,2} - \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^3 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,3,2,3} = \ & \big(-\mathcal{Z}e^{2,6} - 3\mathcal{Z}e^{4,4} - 3\mathcal{Z}e^{5,3} - \mathcal{Z}e^{6,2} - 6\mathcal{Z}e^{2,3,3} - 6\mathcal{Z}e^{2,4,2} - 6\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^2 \\
& +\big(-\mathcal{Z}e^{3,4} - \mathcal{Z}e^{5,2} - 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^3 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,4,1,3} = \ & \big(2\mathcal{Z}e^{3,5} - 3\mathcal{Z}e^{4,4} + 7\mathcal{Z}e^{5,3} + \mathcal{Z}e^{6,2} + 3\mathcal{Z}e^{7,1} + \mathcal{Z}e^{2,3,3} + 2\mathcal{Z}e^{2,4,2} + 2\mathcal{Z}e^{2,5,1} \\
& +4\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,2,3} - 3\mathcal{Z}e^{3,3,2} - 5\mathcal{Z}e^{3,4,1} - 6\mathcal{Z}e^{4,1,3} + 6\mathcal{Z}e^{4,2,2} - 3\mathcal{Z}e^{4,3,1} \\
& +6\mathcal{Z}e^{5,1,2} + 6\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(-\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + \mathcal{Z}e^{5,2} + \mathcal{Z}e^{6,1} + \mathcal{Z}e^{2,3,2} + 4\mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} \\
& -4\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\big(\mathcal{Z}e^{3,3} + \mathcal{Z}e^{5,1} + \mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^4 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,3,4} = \ & \big(3\mathcal{Z}e^{2,6} - 2\mathcal{Z}e^{3,5} - \mathcal{Z}e^{6,2} + 2\mathcal{Z}e^{7,1} + 10\mathcal{Z}e^{2,1,5} + 2\mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,3,3} - \mathcal{Z}e^{2,4,2} \\
& +4\mathcal{Z}e^{2,5,1} + 4\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} - 2\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} - \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} \\
& +4\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(\mathcal{Z}e^{2,5} + \mathcal{Z}e^{6,1} - 2\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{2,1,3}\mathcal{T}e^4 \ .
\end{aligned}
$$

$$\begin{aligned}
\mathcal{T}e^{2,2,2,4} = \ & \big(\mathcal{Z}e^{2,6} + \mathcal{Z}e^{4,4} + 2\mathcal{Z}e^{6,2} + 4\mathcal{Z}e^{2,2,4} + 4\mathcal{Z}e^{2,3,3} + 5\mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{3,2,3} + 4\mathcal{Z}e^{3,3,2} \\
& +7\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^2 + \big(- 2\mathcal{Z}e^{2,2,3} - 2\mathcal{Z}e^{2,3,2} - 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2,2}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,3,1,4} = \ & \big(\mathcal{Z}e^{4,4} - 4\mathcal{Z}e^{5,3} - \mathcal{Z}e^{6,2} - 2\mathcal{Z}e^{7,1} + \mathcal{Z}e^{2,3,3} + 2\mathcal{Z}e^{2,4,2} + 2\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,3,2} \\
& +8\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} - 2\mathcal{Z}e^{4,2,2} + 5\mathcal{Z}e^{4,3,1} - 4\mathcal{Z}e^{5,1,2} - 4\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(- \mathcal{Z}e^{4,3} - \mathcal{Z}e^{6,1} - \mathcal{Z}e^{2,3,2} - 4\mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{4,1,2} - \mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{2,3,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,5} = \ & \big(- \mathcal{Z}e^{2,6} - \mathcal{Z}e^{7,1} - 5\mathcal{Z}e^{2,1,5} - 3\mathcal{Z}e^{2,2,4} - 2\mathcal{Z}e^{2,3,3} - \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{2,5,1} - 6\mathcal{Z}e^{3,1,4} \\
& -4\mathcal{Z}e^{3,2,3} - 2\mathcal{Z}e^{3,3,2} - 6\mathcal{Z}e^{4,1,3} - 3\mathcal{Z}e^{4,2,2} - 4\mathcal{Z}e^{5,1,2}\big)\mathcal{T}e^2 \\
& +\big(3\mathcal{Z}e^{2,1,4} + 2\mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + 4\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 3\mathcal{Z}e^{4,1,2}\big)\mathcal{T}e^3 \\
& +\big(- 2\mathcal{Z}e^{2,1,3} - \mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,1,2}\mathcal{T}e^5 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,1,5} = \ & \big(\mathcal{Z}e^{5,3} + \mathcal{Z}e^{7,1} - \mathcal{Z}e^{2,2,4} - 2\mathcal{Z}e^{2,3,3} - 3\mathcal{Z}e^{2,4,2} - 3\mathcal{Z}e^{2,5,1} - 2\mathcal{Z}e^{3,2,3} - 4\mathcal{Z}e^{3,3,2} \\
& -6\mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,2,2} - 6\mathcal{Z}e^{4,3,1} + 2\mathcal{Z}e^{5,1,2} - 3\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,2,2} + 4\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\big(- \mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{2,3,1} - 2\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,2,1}\mathcal{T}e^5 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,6} = \ & \big(\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} \\
& +2\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} + 4\mathcal{Z}e^{5,1,2} + 4\mathcal{Z}e^{5,2,1} + 6\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^2 \\
& +\big(- \mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,2,2} - 2\mathcal{Z}e^{3,3,1} \\
& -3\mathcal{Z}e^{4,1,2} - 3\mathcal{Z}e^{4,2,1} - 4\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^3 \\
& +\big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^4 \\
& +\big(- \mathcal{Z}e^{2,1,2} - \mathcal{Z}e^{2,2,1} - 2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^5 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^6 \ .
\end{aligned}$$

$$
\begin{aligned}
\mathcal{T}e^{3,1,4,2} = \ & \big(2\mathcal{Z}e^{3,5} - 3\mathcal{Z}e^{4,4} + 7\mathcal{Z}e^{5,3} + \mathcal{Z}e^{6,2} + 3\mathcal{Z}e^{7,1} + \mathcal{Z}e^{2,3,3} + 2\mathcal{Z}e^{2,4,2} + 2\mathcal{Z}e^{2,5,1} \\
& + 4\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,2,3} - 3\mathcal{Z}e^{3,3,2} - 5\mathcal{Z}e^{3,4,1} - 6\mathcal{Z}e^{4,1,3} + 6\mathcal{Z}e^{4,2,2} - 3\mathcal{Z}e^{4,3,1} \\
& + 6\mathcal{Z}e^{5,1,2} + 6\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{3,4} - 3\mathcal{Z}e^{4,3} - \mathcal{Z}e^{5,2} - \mathcal{Z}e^{6,1} - \mathcal{Z}e^{2,3,2} - 4\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,2,2} \\
& + 4\mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,1,2} - 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^{3} \\
& + \big(\mathcal{Z}e^{3,3} + \mathcal{Z}e^{5,1} + \mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^{4} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{3,2,3,2} = \ & \big(-\mathcal{Z}e^{2,6} - 3\mathcal{Z}e^{4,4} - 3\mathcal{Z}e^{5,3} - \mathcal{Z}e^{6,2} - 6\mathcal{Z}e^{2,3,3} - 6\mathcal{Z}e^{2,4,2} - 6\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{3,4} + \mathcal{Z}e^{5,2} + 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{3,3,2,2} = \ & \big(-\mathcal{Z}e^{2,6} + 3\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{5,3} - \mathcal{Z}e^{6,2} - 6\mathcal{Z}e^{2,2,4} + 3\mathcal{Z}e^{2,3,3} - 3\mathcal{Z}e^{2,4,2} + 3\mathcal{Z}e^{3,2,3} \\
& + 6\mathcal{Z}e^{3,3,2} - 3\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{2,5} + \mathcal{Z}e^{5,2} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{3,4,1,2} = \ & \big(-4\mathcal{Z}e^{2,6} + 4\mathcal{Z}e^{3,5} - 3\mathcal{Z}e^{4,4} - \mathcal{Z}e^{5,3} + \mathcal{Z}e^{6,2} - 3\mathcal{Z}e^{7,1} - 10\mathcal{Z}e^{2,1,5} + 2\mathcal{Z}e^{2,2,4} \\
& - 2\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} - 6\mathcal{Z}e^{2,5,1} + 4\mathcal{Z}e^{3,1,4} - 3\mathcal{Z}e^{3,2,3} - 4\mathcal{Z}e^{3,3,2} + 4\mathcal{Z}e^{3,4,1} \\
& - 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} - 6\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^{2} \\
& + \big(2\mathcal{Z}e^{2,5} - 2\mathcal{Z}e^{3,4} - \mathcal{Z}e^{5,2} + \mathcal{Z}e^{6,1} + 2\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} \\
& - 2\mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{3,2,2} - 4\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^{3} \\
& + \big(-\mathcal{Z}e^{2,4} - \mathcal{Z}e^{5,1} - \mathcal{Z}e^{2,1,3} - \mathcal{Z}e^{2,3,1} - \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^{4} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{3,1,3,3} = \ & \big(-2\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{4,4} + \mathcal{Z}e^{6,2} - 6\mathcal{Z}e^{3,1,4} + \mathcal{Z}e^{3,3,2} - 3\mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,3,1}\big)\mathcal{T}e^{2} \\
& + \big(-\mathcal{Z}e^{3,4} - \mathcal{Z}e^{6,1} - 3\mathcal{Z}e^{3,3,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$
\mathcal{T}e^{3,2,2,3} = \big(-2\mathcal{Z}e^{3,5} - 2\mathcal{Z}e^{6,2} - 6\mathcal{Z}e^{3,2,3} - 8\mathcal{Z}e^{3,3,2} - 6\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^{2} \ .
$$

$$
\begin{aligned}
\mathcal{T}e^{3,3,1,3} = \ & \big(-2\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{4,4} + \mathcal{Z}e^{6,2} - 6\mathcal{Z}e^{3,1,4} + \mathcal{Z}e^{3,3,2} - 3\mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,3,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{3,4} + \mathcal{Z}e^{6,1} + 3\mathcal{Z}e^{3,3,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$\begin{aligned}
\mathcal{T}e^{3,1,2,4} = \ & \big(\mathcal{Z}e^{3,5} + \mathcal{Z}e^{7,1} + 4\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,3,2} + \mathcal{Z}e^{3,4,1} + 6\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} \\
& -\mathcal{Z}e^{4,3,1} + 6\mathcal{Z}e^{5,1,2} - 4\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(-2\mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{3,2,2} - 3\mathcal{Z}e^{4,1,2} - \mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1,2}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,2,1,4} = \ & \big(-\mathcal{Z}e^{4,4} - \mathcal{Z}e^{7,1} + \mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} + 5\mathcal{Z}e^{4,3,1} \\
& -4\mathcal{Z}e^{5,1,2} + 6\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 + \big(-\mathcal{Z}e^{3,2,2} - 2\mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{4,1,2} - 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{3,2,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,1,5} = \ & \big(-\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,2,3} - \mathcal{Z}e^{3,3,2} - \mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,1,3} - 3\mathcal{Z}e^{4,2,2} - 3\mathcal{Z}e^{4,3,1} \\
& -7\mathcal{Z}e^{5,1,2} - 7\mathcal{Z}e^{5,2,1} - 15\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^2 \\
& +\big(\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1} + 5\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^3 \\
& +\big(-\mathcal{Z}e^{3,1,2} - \mathcal{Z}e^{3,2,1} - 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^4 + \mathcal{Z}e^{3,1,1}\mathcal{T}e^5 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,3,2} = \ & \big(\mathcal{Z}e^{4,4} - 4\mathcal{Z}e^{5,3} - \mathcal{Z}e^{6,2} - 2\mathcal{Z}e^{7,1} + \mathcal{Z}e^{2,3,3} + 2\mathcal{Z}e^{2,4,2} + 2\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,3,2} \\
& +8\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} - 2\mathcal{Z}e^{4,2,2} + 5\mathcal{Z}e^{4,3,1} - 4\mathcal{Z}e^{5,1,2} - 4\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(\mathcal{Z}e^{4,3} + \mathcal{Z}e^{6,1} + \mathcal{Z}e^{2,3,2} + 4\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{4,1,2} + \mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{2,3,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,2,2,2} = \ & \big(\mathcal{Z}e^{2,6} + \mathcal{Z}e^{4,4} + 2\mathcal{Z}e^{6,2} + 4\mathcal{Z}e^{2,2,4} + 4\mathcal{Z}e^{2,3,3} + 5\mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{3,2,3} + 4\mathcal{Z}e^{3,3,2} \\
& +7\mathcal{Z}e^{4,2,2}\big)\mathcal{T}e^2 + \big(2\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2,2}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,3,1,2} = \ & \big(3\mathcal{Z}e^{2,6} - 2\mathcal{Z}e^{3,5} - \mathcal{Z}e^{6,2} + 2\mathcal{Z}e^{7,1} + 10\mathcal{Z}e^{2,1,5} + 2\mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,3,3} - \mathcal{Z}e^{2,4,2} \\
& +4\mathcal{Z}e^{2,5,1} + 4\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} - 2\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} - \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} \\
& +4\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(-\mathcal{Z}e^{2,5} - \mathcal{Z}e^{6,1} + 2\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{2,1,3}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,2,3} = \ & \big(- \mathcal{Z}e^{4,4} - \mathcal{Z}e^{7,1} + \mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} + 5\mathcal{Z}e^{4,3,1} \\
& -4\mathcal{Z}e^{5,1,2} + 6\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{3,2,2} + 2\mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{3,2,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,2,1,3} = \ & \big(\mathcal{Z}e^{3,5} + \mathcal{Z}e^{7,1} + 4\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,3,2} + \mathcal{Z}e^{3,4,1} + 6\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} \\
& -\mathcal{Z}e^{4,3,1} + 6\mathcal{Z}e^{5,1,2} - 4\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(2\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + 3\mathcal{Z}e^{4,1,2} + \mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{3,1,2}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,1,4} = \ & \big(2\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} + 2\mathcal{Z}e^{4,3,1} + 8\mathcal{Z}e^{5,1,2} + 8\mathcal{Z}e^{5,2,1} + 20\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^2 \\
& +2\mathcal{Z}e^{4,1,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{5,1,2,2} = \ & \big(\mathcal{Z}e^{5,3} + \mathcal{Z}e^{7,1} - \mathcal{Z}e^{2,2,4} - 2\mathcal{Z}e^{2,3,3} - 3\mathcal{Z}e^{2,4,2} - 3\mathcal{Z}e^{2,5,1} - 2\mathcal{Z}e^{3,2,3} - 4\mathcal{Z}e^{3,3,2} \\
& -6\mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,2,2} - 6\mathcal{Z}e^{4,3,1} + 2\mathcal{Z}e^{5,1,2} - 3\mathcal{Z}e^{5,2,1}\big)\mathcal{T}e^2 \\
& +\big(- \mathcal{Z}e^{2,2,3} - 2\mathcal{Z}e^{2,3,2} - 3\mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,2,2} - 4\mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^3 \\
& +\big(- \mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{2,3,1} - 2\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^4 - \mathcal{Z}e^{2,2,1}\mathcal{T}e^5 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{5,2,1,2} = \ & \big(- \mathcal{Z}e^{2,6} - \mathcal{Z}e^{7,1} - 5\mathcal{Z}e^{2,1,5} - 3\mathcal{Z}e^{2,2,4} - 2\mathcal{Z}e^{2,3,3} - \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{2,5,1} \\
& -6\mathcal{Z}e^{3,1,4} - 4\mathcal{Z}e^{3,2,3} - 2\mathcal{Z}e^{3,3,2} - 6\mathcal{Z}e^{4,1,3} - 3\mathcal{Z}e^{4,2,2} - 4\mathcal{Z}e^{5,1,2}\big)\mathcal{T}e^2 \\
& +\big(- 3\mathcal{Z}e^{2,1,4} - 2\mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,3,2} - 4\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,2,2} - 3\mathcal{Z}e^{4,1,2}\big)\mathcal{T}e^3 \\
& +\big(- 2\mathcal{Z}e^{2,1,3} - \mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^4 - \mathcal{Z}e^{2,1,2}\mathcal{T}e^5 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{5,1,1,3} = \ & \big(- \mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,2,3} - \mathcal{Z}e^{3,3,2} - \mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,1,3} - 3\mathcal{Z}e^{4,2,2} - 3\mathcal{Z}e^{4,3,1} \\
& -7\mathcal{Z}e^{5,1,2} - 7\mathcal{Z}e^{5,2,1} - 15\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^2 \\
& +\big(- \mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{3,2,2} - \mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,1,2} - 3\mathcal{Z}e^{4,2,1} - 5\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^3 \\
& +\big(- \mathcal{Z}e^{3,1,2} - \mathcal{Z}e^{3,2,1} - 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^4 - \mathcal{Z}e^{3,1,1}\mathcal{T}e^5 \ .
\end{aligned}$$

$$
\begin{aligned}
\mathcal{T}e^{6,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} \\
& + 2\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} + 4\mathcal{Z}e^{5,1,2} + 4\mathcal{Z}e^{5,2,1} + 6\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 2\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} \\
& + 3\mathcal{Z}e^{4,2,1} + 4\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^3 \\
& + \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^4 \\
& + \big(\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^5 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^6 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,1,4,2} = \ & \big(7\mathcal{Z}e^{2,4,1,1} + 4\mathcal{Z}e^{2,1,1,4} + 3\mathcal{Z}e^{4,1,1,2} - 4\mathcal{Z}e^{3,1,1,3} + 3\mathcal{Z}e^{2,1,4,1} + 4\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,2,1} \\
& - 8\mathcal{Z}e^{3,3,1,1} + 4\mathcal{Z}e^{4,1,3} - 2\mathcal{Z}e^{3,1,4} - 2\mathcal{Z}e^{3,4,1} + 2\mathcal{Z}e^{2,5,1} + 4\mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{6,1,1} \\
& + 2\mathcal{Z}e^{3,2,1,2} + 6\mathcal{Z}e^{4,2,1,1} + 3\mathcal{Z}e^{4,1,2,1} + 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{3,2,3} + 4\mathcal{Z}e^{4,3,1} + 2\mathcal{Z}e^{2,3,3} \\
& + 2\mathcal{Z}e^{2,1,5} - 4\mathcal{Z}e^{3,1,3,1} - \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,3,2,1} \\
& + \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,1,3,2}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} - 2\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{4,1,2} - \mathcal{Z}e^{4,2,1} \\
& + 2\mathcal{Z}e^{2,1,1,3} - 2\mathcal{Z}e^{2,1,2,2} + 2\mathcal{Z}e^{2,1,3,1} - 3\mathcal{Z}e^{2,2,1,2} - 3\mathcal{Z}e^{2,2,2,1} - 2\mathcal{Z}e^{3,1,1,2} \\
& - 2\mathcal{Z}e^{3,1,2,1}\big)\mathcal{T}e^3 + \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{4,1,1} + \mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + 2\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^4 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,2,3,2} = \ & \big(-\mathcal{Z}e^{4,4} - 3\mathcal{Z}e^{2,2,4} - 3\mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{2,5,1} - 2\mathcal{Z}e^{3,1,4} - 2\mathcal{Z}e^{3,3,2} - 3\mathcal{Z}e^{4,1,3} \\
& - \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} - 6\mathcal{Z}e^{2,2,1,3} - 4\mathcal{Z}e^{2,2,2,2} - 2\mathcal{Z}e^{2,2,3,1} - 4\mathcal{Z}e^{3,1,2,2}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{4,1,2} + 2\mathcal{Z}e^{2,1,2,2} + 2\mathcal{Z}e^{2,2,1,2}\big)\mathcal{T}e^3 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,3,2,2} = \ & \big(\mathcal{Z}e^{4,4} + \mathcal{Z}e^{2,1,5} + 2\mathcal{Z}e^{2,2,4} + 3\mathcal{Z}e^{2,3,3} - 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} - 2\mathcal{Z}e^{4,2,2} \\
& + 2\mathcal{Z}e^{4,3,1} + 3\mathcal{Z}e^{2,1,2,3} + 4\mathcal{Z}e^{2,1,3,2} + 6\mathcal{Z}e^{2,2,1,3} - 6\mathcal{Z}e^{2,2,2,2} + 3\mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,2,1} \\
& - 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{4,3} + 2\mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{4,1,2} + \mathcal{Z}e^{4,2,1} + \mathcal{Z}e^{2,1,2,2} + 2\mathcal{Z}e^{2,2,1,2} \\
& + 3\mathcal{Z}e^{2,2,2,1}\big)\mathcal{T}e^3 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,4,1,2} = \ & \big(-12\mathcal{Z}e^{2,4,1,1} - 4\mathcal{Z}e^{2,1,4,1} + 4\mathcal{Z}e^{3,1,2,2} - 4\mathcal{Z}e^{3,2,2,1} + 16\mathcal{Z}e^{3,3,1,1} - 2\mathcal{Z}e^{4,1,3} \\
& +4\mathcal{Z}e^{3,4,1} - 4\mathcal{Z}e^{2,5,1} + 6\mathcal{Z}e^{2,2,2,2} - 2\mathcal{Z}e^{6,2} - 4\mathcal{Z}e^{6,1,1} - 4\mathcal{Z}e^{2,2,1,3} - 12\mathcal{Z}e^{4,2,1,1} \\
& -6\mathcal{Z}e^{4,1,2,1} + 12\mathcal{Z}e^{3,3,2} - 8\mathcal{Z}e^{4,3,1} - 2\mathcal{Z}e^{2,3,3} + 8\mathcal{Z}e^{3,1,3,1} - 8\mathcal{Z}e^{2,4,2} - 2\mathcal{Z}e^{2,2,4} \\
& -4\mathcal{Z}e^{4,2,2} - 2\mathcal{Z}e^{2,1,2,3} - 2\mathcal{Z}e^{2,3,2,1} - 4\mathcal{Z}e^{2,1,3,2} - \mathcal{Z}e^{4,4}\big)\mathcal{T}e^{2} \\
& +\big(-\mathcal{Z}e^{4,2} - 2\mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{2,3,1} - 2\mathcal{Z}e^{4,1,1} - 2\mathcal{Z}e^{2,1,2,1} - 4\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^{4} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,2,1,3,2} = \ & \big(\mathcal{Z}e^{2,2,4} - \mathcal{Z}e^{2,3,3} - \mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,5,1} - 2\mathcal{Z}e^{3,2,3} - 2\mathcal{Z}e^{3,4,1} - \mathcal{Z}e^{4,2,2} \\
& -\mathcal{Z}e^{4,3,1} + 3\mathcal{Z}e^{2,2,1,3} - 4\mathcal{Z}e^{2,2,2,2} - \mathcal{Z}e^{2,3,2,1} - 2\mathcal{Z}e^{3,2,1,2} - 2\mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^{2} \\
& +\big(\mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{4,2,1} + \mathcal{Z}e^{2,2,1,2} + 3\mathcal{Z}e^{2,2,2,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$
\mathcal{T}e^{2,2,2,2,2} = \big(\mathcal{Z}e^{4,4} + 4\mathcal{Z}e^{2,2,4} + 4\mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{4,2,2} + 16\mathcal{Z}e^{2,2,2,2}\big)\mathcal{T}e^{2} \ .
$$

$$
\begin{aligned}
\mathcal{T}e^{2,2,3,1,2} = \ & \big(\mathcal{Z}e^{4,4} + \mathcal{Z}e^{2,1,5} + 2\mathcal{Z}e^{2,2,4} + 3\mathcal{Z}e^{2,3,3} - 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} \\
& -2\mathcal{Z}e^{4,2,2} + 2\mathcal{Z}e^{4,3,1} + 3\mathcal{Z}e^{2,1,2,3} + 4\mathcal{Z}e^{2,1,3,2} + 6\mathcal{Z}e^{2,2,1,3} - 6\mathcal{Z}e^{2,2,2,2} \\
& +3\mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,2,1} - 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^{2} \\
& +\big(-\mathcal{Z}e^{4,3} - 2\mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} - \mathcal{Z}e^{4,1,2} - \mathcal{Z}e^{4,2,1} - \mathcal{Z}e^{2,1,2,2} \\
& -2\mathcal{Z}e^{2,2,1,2} - 3\mathcal{Z}e^{2,2,2,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,3,1,2,2} = \ & \big(\mathcal{Z}e^{2,2,4} - \mathcal{Z}e^{2,3,3} - \mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,5,1} - 2\mathcal{Z}e^{3,2,3} - 2\mathcal{Z}e^{3,4,1} - \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} \\
& +3\mathcal{Z}e^{2,2,1,3} - 4\mathcal{Z}e^{2,2,2,2} - \mathcal{Z}e^{2,3,2,1} - 2\mathcal{Z}e^{3,2,1,2} - 2\mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^{2} \\
& +\big(-\mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{2,4,1} - \mathcal{Z}e^{4,2,1} - \mathcal{Z}e^{2,2,1,2} - 3\mathcal{Z}e^{2,2,2,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,3,2,1,2} = \ & \big(-\mathcal{Z}e^{4,4} - 3\mathcal{Z}e^{2,2,4} - 3\mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{2,5,1} - 2\mathcal{Z}e^{3,1,4} - 2\mathcal{Z}e^{3,3,2} - 3\mathcal{Z}e^{4,1,3} \\
& -\mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} - 6\mathcal{Z}e^{2,2,1,3} - 4\mathcal{Z}e^{2,2,2,2} - 2\mathcal{Z}e^{2,2,3,1} - 4\mathcal{Z}e^{3,1,2,2}\big)\mathcal{T}e^{2} \\
& +\big(-\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{4,1,2} - 2\mathcal{Z}e^{2,1,2,2} - 2\mathcal{Z}e^{2,2,1,2}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,4,1,1,2} = \ & \big(4\mathcal{Z}e^{2,2,2,2} - 2\mathcal{Z}e^{3,4,1} + 4\mathcal{Z}e^{3,1,2,2} - \mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} + 2\mathcal{Z}e^{3,3,2} + 4\mathcal{Z}e^{4,1,3} \\
& + \mathcal{Z}e^{2,3,2,1} + 2\mathcal{Z}e^{3,2,1,2} - 2\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{2,1,2,3} - \mathcal{Z}e^{2,1,3,2} + 2\mathcal{Z}e^{6,1,1} - 8\mathcal{Z}e^{3,3,1,1} \\
& + 3\mathcal{Z}e^{4,1,1,2} - 4\mathcal{Z}e^{3,1,3,1} + 7\mathcal{Z}e^{2,4,1,1} + 4\mathcal{Z}e^{2,1,1,4} + 6\mathcal{Z}e^{4,2,1,1} + 3\mathcal{Z}e^{4,1,2,1} \\
& - 4\mathcal{Z}e^{3,1,1,3} + 3\mathcal{Z}e^{2,1,4,1} + 2\mathcal{Z}e^{2,1,5} + 2\mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{4,2,2} + 2\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,2,2,1} \\
& - \mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,3,1,2} + 4\mathcal{Z}e^{4,3,1}\big)\mathcal{T}e^2 \\
& + \big(- \mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{4,1,2} \\
& + \mathcal{Z}e^{4,2,1} - 2\mathcal{Z}e^{2,1,1,3} + 2\mathcal{Z}e^{2,1,2,2} - 2\mathcal{Z}e^{2,1,3,1} + 3\mathcal{Z}e^{2,2,1,2} + 3\mathcal{Z}e^{2,2,2,1} \\
& + 2\mathcal{Z}e^{3,1,1,2} + 2\mathcal{Z}e^{3,1,2,1}\big)\mathcal{T}e^3 \\
& + \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,3,1} + \mathcal{Z}e^{4,1,1} + \mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + 2\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^4 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,1,3,3} = \ & \big(- 2\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,4,2} - 2\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,4,1} + \mathcal{Z}e^{5,1,2} \\
& + \mathcal{Z}e^{5,2,1} - \mathcal{Z}e^{6,1,1} - 6\mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,1,3,2} - 3\mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{2,3,1,2} \\
& + \mathcal{Z}e^{2,3,2,1} - 3\mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + 5\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 \\
& + \big(- \mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,4,1} - \mathcal{Z}e^{5,1,1} - \mathcal{Z}e^{2,1,3,1} - \mathcal{Z}e^{2,3,1,1} - \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^3 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,2,2,3} = \ & \big(- \mathcal{Z}e^{5,3} - \mathcal{Z}e^{2,1,5} - \mathcal{Z}e^{2,3,3} - 2\mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{3,2,3} - \mathcal{Z}e^{3,4,1} - 2\mathcal{Z}e^{5,1,2} - \mathcal{Z}e^{5,2,1} \\
& - 3\mathcal{Z}e^{2,1,2,3} - 4\mathcal{Z}e^{2,1,3,2} - \mathcal{Z}e^{2,2,2,2} - 2\mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} - 2\mathcal{Z}e^{3,1,2,2} \\
& - 2\mathcal{Z}e^{3,2,1,2} - \mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,2,2}\mathcal{T}e^3 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,3,1,3} = \ & \big(\mathcal{Z}e^{6,2} + 4\mathcal{Z}e^{2,4,2} + 2\mathcal{Z}e^{2,5,1} - 5\mathcal{Z}e^{3,3,2} - 3\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} + 2\mathcal{Z}e^{6,1,1} \\
& - 2\mathcal{Z}e^{2,2,3,1} + 6\mathcal{Z}e^{2,4,1,1} - \mathcal{Z}e^{3,1,2,2} - 5\mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,2,2,1} - 8\mathcal{Z}e^{3,3,1,1} + 3\mathcal{Z}e^{4,1,2,1} \\
& + 6\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{5,2} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{3,3,1} + 2\mathcal{Z}e^{5,1,1} + 2\mathcal{Z}e^{2,1,3,1} + 2\mathcal{Z}e^{2,3,1,1} \\
& + \mathcal{Z}e^{3,1,2,1} + 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^3 \ .
\end{aligned}
$$

$$\begin{aligned}
\mathcal{T}e^{2,2,1,2,3} = \ & \big(- \mathcal{Z}e^{2,2,4} - \mathcal{Z}e^{2,5,1} + \mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{2,2,1,3} - \mathcal{Z}e^{2,2,2,2} - \mathcal{Z}e^{2,2,3,1} \\
& -2\mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2,1,2}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,2,1,3} = \ & \big(\mathcal{Z}e^{5,3} + \mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,5,1} + \mathcal{Z}e^{3,1,4} + \mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{5,1,2} + \mathcal{Z}e^{5,2,1} \\
& -\mathcal{Z}e^{2,2,2,2} - \mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} + 4\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,1,2} - \mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^2 \\
& +\mathcal{Z}e^{2,2,2,1}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,3,1,1,3} = \ & \big(\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,2,3} - \mathcal{Z}e^{3,3,2} + \mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,1,3} - 3\mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{5,1,2} - \mathcal{Z}e^{5,2,1} \\
& -\mathcal{Z}e^{6,1,1} - 2\mathcal{Z}e^{2,3,1,2} - 2\mathcal{Z}e^{2,3,2,1} - 6\mathcal{Z}e^{2,4,1,1} + 3\mathcal{Z}e^{3,1,1,3} - 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,1,3,1} \\
& -2\mathcal{Z}e^{3,2,1,2} - 2\mathcal{Z}e^{3,2,2,1} + 2\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{4,1,1,2} - 3\mathcal{Z}e^{4,1,2,1} - 3\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 \\
& +\big(- \mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{5,1,1} - \mathcal{Z}e^{3,1,1,2} - \mathcal{Z}e^{3,1,2,1} - \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,2,4} = \ & \big(\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,5,1} + \mathcal{Z}e^{6,1,1} + 4\mathcal{Z}e^{2,1,1,4} + 2\mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,1,4,1} \\
& +2\mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,4,1,1} + 4\mathcal{Z}e^{3,1,1,3} + 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,1,2} \\
& +3\mathcal{Z}e^{4,1,1,2} + 2\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 + \big(- 2\mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{2,1,2,2} - \mathcal{Z}e^{2,2,1,2} - 2\mathcal{Z}e^{3,1,1,2}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{2,1,1,2}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,1,4} = \ & \big(- \mathcal{Z}e^{6,2} - \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{2,5,1} - \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} - 2\mathcal{Z}e^{6,1,1} + \mathcal{Z}e^{2,1,2,3} \\
& +2\mathcal{Z}e^{2,1,3,2} + 2\mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{2,3,2,1} - 2\mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,1,2,2} \\
& +4\mathcal{Z}e^{3,1,3,1} + 2\mathcal{Z}e^{3,2,2,1} + 3\mathcal{Z}e^{4,1,2,1} - 2\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 \\
& +\big(- \mathcal{Z}e^{2,1,2,2} - 2\mathcal{Z}e^{2,1,3,1} - \mathcal{Z}e^{2,2,2,1} - 2\mathcal{Z}e^{3,1,2,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,1,2,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,1,1,4} = \ & \big(\mathcal{Z}e^{4,1,3} + \mathcal{Z}e^{4,3,1} + \mathcal{Z}e^{6,1,1} + \mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,1,2} \\
& +2\mathcal{Z}e^{2,3,2,1} + 4\mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,2,1,2} + 2\mathcal{Z}e^{3,2,2,1} + 4\mathcal{Z}e^{3,3,1,1} + 2\mathcal{Z}e^{4,1,1,2} \\
& +\mathcal{Z}e^{4,1,2,1} + 4\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 \\
& +\big(- \mathcal{Z}e^{2,2,1,2} - \mathcal{Z}e^{2,2,2,1} - 2\mathcal{Z}e^{2,3,1,1} - 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2,1,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,1,5} = \ & \big(- \mathcal{Z}e^{2,1,1,4} - \mathcal{Z}e^{2,1,2,3} - \mathcal{Z}e^{2,1,3,2} - \mathcal{Z}e^{2,1,4,1} - \mathcal{Z}e^{2,2,1,3} - \mathcal{Z}e^{2,2,2,2} - \mathcal{Z}e^{2,2,3,1} \\
& - \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} - \mathcal{Z}e^{2,4,1,1} - 2\mathcal{Z}e^{3,1,1,3} - 2\mathcal{Z}e^{3,1,2,2} - 2\mathcal{Z}e^{3,1,3,1} - 2\mathcal{Z}e^{3,2,1,2} \\
& - 2\mathcal{Z}e^{3,2,2,1} - 2\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{4,1,1,2} - 3\mathcal{Z}e^{4,1,2,1} - 3\mathcal{Z}e^{4,2,1,1} - 3\mathcal{Z}e^{5,1,1,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + \mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,1,2} \\
& + 2\mathcal{Z}e^{3,1,2,1} + 2\mathcal{Z}e^{3,2,1,1} + 3\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^{3} \\
& + \big(- \mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,2,1,1} - 2\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^{5} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,1,3,2} = \ & \big(\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,2,3} - \mathcal{Z}e^{3,3,2} + \mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{4,1,3} - 3\mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{5,1,2} - \mathcal{Z}e^{5,2,1} \\
& - \mathcal{Z}e^{6,1,1} - 2\mathcal{Z}e^{2,3,1,2} - 2\mathcal{Z}e^{2,3,2,1} - 6\mathcal{Z}e^{2,4,1,1} + 3\mathcal{Z}e^{3,1,1,3} - 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,1,3,1} \\
& - 2\mathcal{Z}e^{3,2,1,2} - 2\mathcal{Z}e^{3,2,2,1} + 2\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{4,1,1,2} - 3\mathcal{Z}e^{4,1,2,1} - 3\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{5,1,1} + \mathcal{Z}e^{3,1,1,2} + \mathcal{Z}e^{3,1,2,1} + \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,2,2,2} = \ & \big(\mathcal{Z}e^{5,3} + \mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,5,1} + \mathcal{Z}e^{3,1,4} + \mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{5,1,2} + \mathcal{Z}e^{5,2,1} \\
& - \mathcal{Z}e^{2,2,2,2} - \mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} + 4\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,1,2} - \mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^{2} \\
& - \mathcal{Z}e^{2,2,2,1}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,3,1,2} = \ & \big(\mathcal{Z}e^{6,2} + 4\mathcal{Z}e^{2,4,2} + 2\mathcal{Z}e^{2,5,1} - 5\mathcal{Z}e^{3,3,2} - 3\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} + 2\mathcal{Z}e^{6,1,1} \\
& - 2\mathcal{Z}e^{2,2,3,1} + 6\mathcal{Z}e^{2,4,1,1} - \mathcal{Z}e^{3,1,2,2} - 5\mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,2,2,1} - 8\mathcal{Z}e^{3,3,1,1} + 3\mathcal{Z}e^{4,1,2,1} \\
& + 6\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^{2} + \big(- \mathcal{Z}e^{5,2} - \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2,4,1} - \mathcal{Z}e^{3,2,2} - \mathcal{Z}e^{3,3,1} - 2\mathcal{Z}e^{5,1,1} \\
& - 2\mathcal{Z}e^{2,1,3,1} - 2\mathcal{Z}e^{2,3,1,1} - \mathcal{Z}e^{3,1,2,1} - 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,2,1,2,2} = \ & \big(- \mathcal{Z}e^{2,2,4} - \mathcal{Z}e^{2,5,1} + \mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,4,1} - 3\mathcal{Z}e^{2,2,1,3} - \mathcal{Z}e^{2,2,2,2} - \mathcal{Z}e^{2,2,3,1} \\
& - 2\mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,2,1,2}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,2,2,1,2} = \ & \big(- \mathcal{Z}e^{5,3} - \mathcal{Z}e^{2,1,5} - \mathcal{Z}e^{2,3,3} - 2\mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{3,2,3} - \mathcal{Z}e^{3,4,1} - 2\mathcal{Z}e^{5,1,2} - \mathcal{Z}e^{5,2,1} \\
& - 3\mathcal{Z}e^{2,1,2,3} - 4\mathcal{Z}e^{2,1,3,2} - \mathcal{Z}e^{2,2,2,2} - 2\mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} - 2\mathcal{Z}e^{3,1,2,2} - 2\mathcal{Z}e^{3,2,1,2} \\
& - \mathcal{Z}e^{3,2,2,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,2,2}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,3,1,1,2} = \ & \big(-2\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,4,2} - 2\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,4,1} + \mathcal{Z}e^{5,1,2} \\
& + \mathcal{Z}e^{5,2,1} - \mathcal{Z}e^{6,1,1} - 6\mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,1,3,2} - 3\mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{2,3,1,2} \\
& + \mathcal{Z}e^{2,3,2,1} - 3\mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + 5\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{5,1,1} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,3,1,1} + \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,1,2,3} = \ & \big(-\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,4,1} - \mathcal{Z}e^{6,1,1} - 3\mathcal{Z}e^{3,1,1,3} - \mathcal{Z}e^{3,1,2,2} - \mathcal{Z}e^{3,1,3,1} - 2\mathcal{Z}e^{3,2,1,2} \\
& - \mathcal{Z}e^{3,2,2,1} - 4\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{4,1,1,2} - 3\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{3,1,1,2} - \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,2,1,3} = \ & \big(\mathcal{Z}e^{6,2} + 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{3,4,1} + 2\mathcal{Z}e^{6,1,1} - 2\mathcal{Z}e^{3,1,2,2} - 2\mathcal{Z}e^{3,1,3,1} - 2\mathcal{Z}e^{3,2,2,1}\ \mathcal{T}e^2 \ . \\
& + 4\mathcal{Z}e^{3,3,1,1} - 6\mathcal{Z}e^{4,1,2,1}\big)
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,2,1,1,3} = \ & \big(-\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,4,1} - \mathcal{Z}e^{6,1,1} - 3\mathcal{Z}e^{3,1,1,3} - \mathcal{Z}e^{3,1,2,2} - \mathcal{Z}e^{3,1,3,1} - 2\mathcal{Z}e^{3,2,1,2} \\
& - \mathcal{Z}e^{3,2,2,1} - 4\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{4,1,1,2} - 3\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 + \big(-\mathcal{Z}e^{3,1,1,2} + \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,1,1,4} = \ & \big(\mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{3,1,2,2} + \mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + \mathcal{Z}e^{3,3,1,1} + 2\mathcal{Z}e^{4,1,1,2} \\
& + 2\mathcal{Z}e^{4,1,2,1} + 2\mathcal{Z}e^{4,2,1,1} + 2\mathcal{Z}e^{5,1,1,1}\big)\mathcal{T}e^2 \\
& + \big(-\mathcal{Z}e^{3,1,1,2} - \mathcal{Z}e^{3,1,2,1} - \mathcal{Z}e^{3,2,1,1} - 4\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1,1,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,1,2,2} = \ & \big(\mathcal{Z}e^{4,1,3} + \mathcal{Z}e^{4,3,1} + \mathcal{Z}e^{6,1,1} + \mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,1,2} \\
& + 2\mathcal{Z}e^{2,3,2,1} + 4\mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,2,1,2} + 2\mathcal{Z}e^{3,2,2,1} + 4\mathcal{Z}e^{3,3,1,1} + 2\mathcal{Z}e^{4,1,1,2} \\
& + \mathcal{Z}e^{4,1,2,1} + 4\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + 2\mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2,1,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,2,1,2} = \ & \big(-\mathcal{Z}e^{6,2} - \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{2,5,1} - \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} - 2\mathcal{Z}e^{6,1,1} + \mathcal{Z}e^{2,1,2,3} \\
& + 2\mathcal{Z}e^{2,1,3,2} + 2\mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{2,3,2,1} - 2\mathcal{Z}e^{2,4,1,1} \\
& + 2\mathcal{Z}e^{3,1,2,2} + 4\mathcal{Z}e^{3,1,3,1} + 2\mathcal{Z}e^{3,2,2,1} + 3\mathcal{Z}e^{4,1,2,1} - 2\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,1,2,2} + 2\mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,2,1} + 2\mathcal{Z}e^{3,1,2,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,1,2,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$
\begin{aligned}
\mathcal{T}e^{4,2,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,5,1} + \mathcal{Z}e^{6,1,1} + 4\mathcal{Z}e^{2,1,1,4} + 2\mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,1,4,1} \\
& + 2\mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,4,1,1} + 4\mathcal{Z}e^{3,1,1,3} + 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,1,2} \\
& + 3\mathcal{Z}e^{4,1,1,2} + 2\mathcal{Z}e^{4,2,1,1}\big)\mathcal{T}e^2 + \big(2\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,2,1,2} + 2\mathcal{Z}e^{3,1,1,2}\big)\mathcal{T}e^3 \\
& + \mathcal{Z}e^{2,1,1,2}\mathcal{T}e^4 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{4,1,1,1,3} = \ & \big(\mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{3,1,2,2} + \mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + \mathcal{Z}e^{3,3,1,1} + 2\mathcal{Z}e^{4,1,1,2} \\
& + 2\mathcal{Z}e^{4,1,2,1} + 2\mathcal{Z}e^{4,2,1,1} + 2\mathcal{Z}e^{5,1,1,1}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{3,1,1,2} + \mathcal{Z}e^{3,1,2,1} + \mathcal{Z}e^{3,2,1,1} + 4\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1,1,1}\mathcal{T}e^4 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{5,1,1,1,2} = \ & \big(-\mathcal{Z}e^{2,1,1,4} - \mathcal{Z}e^{2,1,2,3} - \mathcal{Z}e^{2,1,3,2} - \mathcal{Z}e^{2,1,4,1} - \mathcal{Z}e^{2,2,1,3} - \mathcal{Z}e^{2,2,2,2} - \mathcal{Z}e^{2,2,3,1} \\
& - \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} - \mathcal{Z}e^{2,4,1,1} - 2\mathcal{Z}e^{3,1,1,3} - 2\mathcal{Z}e^{3,1,2,2} - 2\mathcal{Z}e^{3,1,3,1} - 2\mathcal{Z}e^{3,2,1,2} \\
& - 2\mathcal{Z}e^{3,2,2,1} - 2\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{4,1,1,2} - 3\mathcal{Z}e^{4,1,2,1} - 3\mathcal{Z}e^{4,2,1,1} - 3\mathcal{Z}e^{5,1,1,1}\big)\mathcal{T}e^2 \\
& + \big(-\mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{2,1,2,2} - \mathcal{Z}e^{2,1,3,1} - \mathcal{Z}e^{2,2,1,2} - \mathcal{Z}e^{2,2,2,1} - \mathcal{Z}e^{2,3,1,1} - 2\mathcal{Z}e^{3,1,1,2} \\
& - 2\mathcal{Z}e^{3,1,2,1} - 2\mathcal{Z}e^{3,2,1,1} - 3\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^3 \\
& + \big(-\mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,2,1,1} - 2\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^4 - \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^5 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,1,1,3,2} = \ & \big(-2\mathcal{Z}e^{2,1,2,1,2} - 2\mathcal{Z}e^{3,1,1,3} - 2\mathcal{Z}e^{2,1,1,2,2} - 2\mathcal{Z}e^{3,3,1,1} - 2\mathcal{Z}e^{3,1,3,1} - 2\mathcal{Z}e^{3,1,1,1,2} \\
& + 2\mathcal{Z}e^{2,1,1,3,1} - 2\mathcal{Z}e^{3,1,1,2,1} + 2\mathcal{Z}e^{2,1,3,1,1} - \mathcal{Z}e^{4,2,1,1} - \mathcal{Z}e^{4,1,2,1} + \mathcal{Z}e^{2,3,1,1,1} \\
& - \mathcal{Z}e^{2,2,1,3} - 2\mathcal{Z}e^{2,1,2,2,1} - 3\mathcal{Z}e^{2,2,1,2,1} - 3\mathcal{Z}e^{2,2,2,1,1} - 3\mathcal{Z}e^{2,2,1,1,2} - 2\mathcal{Z}e^{3,1,2,1,1} \\
& + 3\mathcal{Z}e^{2,1,1,1,3} - \mathcal{Z}e^{2,2,3,1} - \mathcal{Z}e^{2,1,2,3} - \mathcal{Z}e^{2,3,2,1} + \mathcal{Z}e^{2,1,4,1} - \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,1,3,2} \\
& - \mathcal{Z}e^{4,1,1,2} + \mathcal{Z}e^{2,4,1,1} + \mathcal{Z}e^{2,1,1,4}\big)\mathcal{T}e^2 \\
& + \big(\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,3,1,1} + \mathcal{Z}e^{4,1,1,1} + \mathcal{Z}e^{2,1,1,1,2} + \mathcal{Z}e^{2,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1} \\
& + 2\mathcal{Z}e^{2,2,1,1,1}\big)\mathcal{T}e^3 \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,1,2,2,2} = \ & \big(\mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{4,1,3} + \mathcal{Z}e^{4,3,1} + \mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,1,2,3} + 2\mathcal{Z}e^{2,1,3,2} + 2\mathcal{Z}e^{2,2,1,3} \\
& + 2\mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,3,2,1} + \mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{4,1,1,2} + \mathcal{Z}e^{4,1,2,1} + \mathcal{Z}e^{4,2,1,1} \\
& + 4\mathcal{Z}e^{2,1,1,2,2} + 2\mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} + 4\mathcal{Z}e^{2,2,1,1,2} + 2\mathcal{Z}e^{2,2,1,2,1} + 4\mathcal{Z}e^{2,2,2,1,1}\big)\mathcal{T}e^2 \ .
\end{aligned}
$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,3,1,2} = \ & \big(\mathcal{Z}e^{2,1,2,1,2} - \mathcal{Z}e^{2,1,1,2,2} + 2\mathcal{Z}e^{3,3,1,1} + 2\mathcal{Z}e^{3,1,3,1} - \mathcal{Z}e^{2,1,1,3,1} + 2\mathcal{Z}e^{3,1,1,2,1} \\
& - \mathcal{Z}e^{2,1,3,1,1} + \mathcal{Z}e^{4,2,1,1} + \mathcal{Z}e^{4,1,2,1} + 2\mathcal{Z}e^{4,2,2} + 5\mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{2,1,2,2,1} \\
& + 3\mathcal{Z}e^{2,2,1,2,1} + 3\mathcal{Z}e^{2,2,2,1,1} + 2\mathcal{Z}e^{2,2,1,1,2} + 2\mathcal{Z}e^{3,1,2,1,1} - \mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,2,3,1} \\
& + \mathcal{Z}e^{2,3,2,1} - \mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,3,1,2} - 3\mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{4,1,1,2} - \mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,1,2,2} \\
& + 2\mathcal{Z}e^{3,3,2}\big)\mathcal{T}e^{2} \\
& + \big(- \mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{4,1,2} - \mathcal{Z}e^{4,2,1} - \mathcal{Z}e^{2,1,2,2} - \mathcal{Z}e^{2,1,3,1} - 2\mathcal{Z}e^{2,2,1,2} - 2\mathcal{Z}e^{2,2,2,1} \\
& - 3\mathcal{Z}e^{2,3,1,1} - 3\mathcal{Z}e^{4,1,1,1} - \mathcal{Z}e^{2,1,1,2,1} - 3\mathcal{Z}e^{2,1,2,1,1} - 6\mathcal{Z}e^{2,2,1,1,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,1,2,2} = \ & \big(- \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} + \mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,4,1} - 3\mathcal{Z}e^{2,2,2,2} - 3\mathcal{Z}e^{2,2,3,1} \\
& - 2\mathcal{Z}e^{2,4,1,1} - 2\mathcal{Z}e^{4,2,1,1} + 2\mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} - 6\mathcal{Z}e^{2,2,2,1,1}\big)\mathcal{T}e^{2} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,2,1,2} = \ & \big(- 2\mathcal{Z}e^{2,3,3} - 2\mathcal{Z}e^{4,1,3} - 2\mathcal{Z}e^{4,2,2} - 2\mathcal{Z}e^{2,1,2,3} - 2\mathcal{Z}e^{2,1,4,1} - 4\mathcal{Z}e^{2,2,1,3} \\
& - 4\mathcal{Z}e^{2,2,2,2} - 4\mathcal{Z}e^{2,3,1,2} - 2\mathcal{Z}e^{2,3,2,1} - 4\mathcal{Z}e^{4,1,1,2} - 2\mathcal{Z}e^{4,1,2,1} - 4\mathcal{Z}e^{2,1,2,1,2} \\
& - 2\mathcal{Z}e^{2,1,2,2,1} - 8\mathcal{Z}e^{2,2,1,1,2} - 4\mathcal{Z}e^{2,2,1,2,1}\big)\mathcal{T}e^{2} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,3,1,1,2} = \ & \big(2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{3,1,2,1,1} + 5\mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{3,1,2,2} - 3\mathcal{Z}e^{2,1,3,2} + 2\mathcal{Z}e^{3,3,1,1} \\
& + 2\mathcal{Z}e^{3,1,1,2,1} + 2\mathcal{Z}e^{2,1,2,2,1} + 3\mathcal{Z}e^{2,2,1,2,1} + 3\mathcal{Z}e^{2,2,2,1,1} + 2\mathcal{Z}e^{2,2,1,1,2} + 2\mathcal{Z}e^{4,2,2} \\
& + \mathcal{Z}e^{4,2,1,1} + \mathcal{Z}e^{4,1,2,1} - \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{2,1,1,3,1} - \mathcal{Z}e^{2,1,3,1,1} + \mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{2,3,2,1} \\
& - \mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,1,1,2,2} + \mathcal{Z}e^{4,1,1,2} - \mathcal{Z}e^{2,4,1,1} + \mathcal{Z}e^{2,1,2,1,2} + 2\mathcal{Z}e^{3,1,3,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{4,1,2} + \mathcal{Z}e^{4,2,1} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + 2\mathcal{Z}e^{2,2,1,2} + 2\mathcal{Z}e^{2,2,2,1} \\
& + 3\mathcal{Z}e^{2,3,1,1} + 3\mathcal{Z}e^{4,1,1,1} + \mathcal{Z}e^{2,1,1,2,1} + 3\mathcal{Z}e^{2,1,2,1,1} + 6\mathcal{Z}e^{2,2,1,1,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,1,1,2,2} = \ & \big(2\mathcal{Z}e^{2,2,1,3} + 2\mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{4,2,1,1} + 4\mathcal{Z}e^{2,2,1,1,2} + 2\mathcal{Z}e^{2,2,1,2,1} \\
& + 6\mathcal{Z}e^{2,2,2,1,1}\big)\mathcal{T}e^{2} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,1,2,1,2} = \ & \big(- \mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{4,2,2} - \mathcal{Z}e^{4,3,1} + \mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,4,1} - 3\mathcal{Z}e^{2,2,2,2} - 3\mathcal{Z}e^{2,2,3,1} \\
& - 2\mathcal{Z}e^{2,4,1,1} - 2\mathcal{Z}e^{4,2,1,1} + 2\mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} - 6\mathcal{Z}e^{2,2,2,1,1}\big)\mathcal{T}e^{2} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,2,1,1,2} = \ & \big(\mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{4,1,3} + \mathcal{Z}e^{4,3,1} + \mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,1,2,3} + 2\mathcal{Z}e^{2,1,3,2} + 2\mathcal{Z}e^{2,2,1,3} \\
& + 2\mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,3,2,1} + \mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{4,1,1,2} + \mathcal{Z}e^{4,1,2,1} + \mathcal{Z}e^{4,2,1,1} \\
& + 4\mathcal{Z}e^{2,1,1,2,2} + 2\mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} + 4\mathcal{Z}e^{2,2,1,1,2} + 2\mathcal{Z}e^{2,2,1,2,1} + 4\mathcal{Z}e^{2,2,2,1,1}\big)\mathcal{T}e^2 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,3,1,1,1,2} = \ & \big(-2\mathcal{Z}e^{3,1,2,1,1} - \mathcal{Z}e^{2,1,3,2} - 2\mathcal{Z}e^{3,3,1,1} - 2\mathcal{Z}e^{3,1,1,3} - 2\mathcal{Z}e^{3,1,1,1,2} + 3\mathcal{Z}e^{2,1,1,1,3} \\
& - 2\mathcal{Z}e^{3,1,1,2,1} - 2\mathcal{Z}e^{2,1,2,2,1} - 3\mathcal{Z}e^{2,2,1,2,1} - 3\mathcal{Z}e^{2,2,2,1,1} - 3\mathcal{Z}e^{2,2,1,1,2} + \mathcal{Z}e^{2,3,1,1,1} \\
& - \mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,1,4} - \mathcal{Z}e^{4,2,1,1} - \mathcal{Z}e^{4,1,2,1} + 2\mathcal{Z}e^{2,1,1,3,1} + 2\mathcal{Z}e^{2,1,3,1,1} - \mathcal{Z}e^{2,2,3,1} \\
& - \mathcal{Z}e^{2,3,2,1} + \mathcal{Z}e^{2,1,4,1} - \mathcal{Z}e^{2,3,1,2} - 2\mathcal{Z}e^{2,1,1,2,2} - \mathcal{Z}e^{4,1,1,2} + \mathcal{Z}e^{2,4,1,1} - 2\mathcal{Z}e^{2,1,2,1,2} \\
& - 2\mathcal{Z}e^{3,1,3,1} - \mathcal{Z}e^{2,2,1,3}\big)\mathcal{T}e^2 \\
& + \big(-\mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{2,1,3,1} - \mathcal{Z}e^{2,3,1,1} - \mathcal{Z}e^{4,1,1,1} - \mathcal{Z}e^{2,1,1,1,2} - \mathcal{Z}e^{2,1,1,2,1} \\
& - \mathcal{Z}e^{2,1,2,1,1} - 2\mathcal{Z}e^{2,2,1,1,1}\big)\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,1,2,3} = \ & \big(-\mathcal{Z}e^{2,1,1,4} - \mathcal{Z}e^{2,1,4,1} - \mathcal{Z}e^{2,4,1,1} - \mathcal{Z}e^{5,1,1,1} - 3\mathcal{Z}e^{2,1,1,1,3} - \mathcal{Z}e^{2,1,1,2,2} \\
& - \mathcal{Z}e^{2,1,1,3,1} - \mathcal{Z}e^{2,1,2,1,2} - \mathcal{Z}e^{2,1,3,1,1} - \mathcal{Z}e^{2,2,1,1,2} - \mathcal{Z}e^{2,3,1,1,1} - 2\mathcal{Z}e^{3,1,1,1,2}\big)\mathcal{T}e^2 \\
& + \mathcal{Z}e^{2,1,1,1,2}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,2,1,3} = \ & \big(\mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{5,1,2} + \mathcal{Z}e^{5,2,1} + \mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,3,2,1} \\
& + 2\mathcal{Z}e^{2,4,1,1} + \mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + \mathcal{Z}e^{3,3,1,1} + 3\mathcal{Z}e^{5,1,1,1} - \mathcal{Z}e^{2,1,1,2,2} \\
& - \mathcal{Z}e^{2,1,1,3,1} - \mathcal{Z}e^{2,1,2,2,1} + 2\mathcal{Z}e^{2,1,3,1,1} - \mathcal{Z}e^{2,2,1,2,1} + 3\mathcal{Z}e^{2,3,1,1,1} - 2\mathcal{Z}e^{3,1,1,2,1} \\
& + 2\mathcal{Z}e^{3,1,2,1,1} + 3\mathcal{Z}e^{3,2,1,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1,2,1}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,1,1,3} = \ & \big(-\mathcal{Z}e^{3,3,2} - \mathcal{Z}e^{5,1,2} - \mathcal{Z}e^{5,2,1} - \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} - \mathcal{Z}e^{2,4,1,1} - \mathcal{Z}e^{3,1,2,2} \\
& - \mathcal{Z}e^{3,1,3,1} - \mathcal{Z}e^{3,2,1,2} - \mathcal{Z}e^{3,2,2,1} - 2\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{5,1,1,1} - \mathcal{Z}e^{2,1,2,1,2} \\
& - \mathcal{Z}e^{2,1,2,2,1} - 3\mathcal{Z}e^{2,1,3,1,1} - \mathcal{Z}e^{2,2,2,1,1} - 3\mathcal{Z}e^{2,3,1,1,1} - 4\mathcal{Z}e^{3,1,2,1,1} - 3\mathcal{Z}e^{3,2,1,1,1}\big)\mathcal{T}e^2 \\
& + \mathcal{Z}e^{2,1,2,1,1}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,1,1,1,3} = \ & \big(\mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,3,1,1} + \mathcal{Z}e^{5,1,1,1} - \mathcal{Z}e^{2,2,1,1,2} - \mathcal{Z}e^{2,2,1,2,1} - \mathcal{Z}e^{2,2,2,1,1} \\
& - \mathcal{Z}e^{2,2,2,1,1} - \mathcal{Z}e^{2,3,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,2} + \mathcal{Z}e^{3,1,1,2,1} + \mathcal{Z}e^{3,1,2,1,1} - \mathcal{Z}e^{3,2,1,1,1}\big)\mathcal{T}e^{2} \\
& + \mathcal{Z}e^{2,2,1,1,1}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,1,1,4} = \ & \big(\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,1,1,2,2} + \mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} + \mathcal{Z}e^{2,1,3,1,1} \\
& + \mathcal{Z}e^{2,2,1,1,2} + \mathcal{Z}e^{2,2,1,2,1} + \mathcal{Z}e^{2,2,2,1,1} + \mathcal{Z}e^{2,3,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,2} + 2\mathcal{Z}e^{3,1,1,2,1} \\
& + 2\mathcal{Z}e^{3,1,2,1,1} + 2\mathcal{Z}e^{3,2,1,1,1} + 4\mathcal{Z}e^{4,1,1,1,1}\big)\mathcal{T}e^{2} \\
& + \big(- \mathcal{Z}e^{2,1,1,1,2} - \mathcal{Z}e^{2,1,1,2,1} - \mathcal{Z}e^{2,1,2,1,1} - \mathcal{Z}e^{2,2,1,1,1} - 2\mathcal{Z}e^{3,1,1,1,1}\big)\mathcal{T}e^{3} \\
& + \mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,1,1,2,2} = \ & \big(\mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,3,1,1} + \mathcal{Z}e^{5,1,1,1} - \mathcal{Z}e^{2,2,1,1,2} - \mathcal{Z}e^{2,2,1,2,1} - \mathcal{Z}e^{2,2,2,1,1} \\
& - \mathcal{Z}e^{2,3,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,2} + \mathcal{Z}e^{3,1,1,2,1} + \mathcal{Z}e^{3,1,2,1,1} - \mathcal{Z}e^{3,2,1,1,1}\big)\mathcal{T}e^{2} \\
& - \mathcal{Z}e^{2,2,1,1,1}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,1,2,1,2} = \ & \big(- \mathcal{Z}e^{3,3,2} - \mathcal{Z}e^{5,1,2} - \mathcal{Z}e^{5,2,1} - \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} - \mathcal{Z}e^{2,4,1,1} - \mathcal{Z}e^{3,1,2,2} \\
& - \mathcal{Z}e^{3,1,3,1} - \mathcal{Z}e^{3,2,1,2} - \mathcal{Z}e^{3,2,2,1} - 2\mathcal{Z}e^{3,3,1,1} - 3\mathcal{Z}e^{5,1,1,1} - \mathcal{Z}e^{2,1,2,1,2} \\
& - \mathcal{Z}e^{2,1,2,2,1} - 3\mathcal{Z}e^{2,1,3,1,1} - \mathcal{Z}e^{2,2,2,1,1} - 3\mathcal{Z}e^{2,3,1,1,1} - 4\mathcal{Z}e^{3,1,2,1,1} - 3\mathcal{Z}e^{3,2,1,1,1}\big)\mathcal{T}e^{2} \\
& - \mathcal{Z}e^{2,1,2,1,1}\mathcal{T}e^{3}
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,2,1,1,2} = \ & \big(\mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{5,1,2} + \mathcal{Z}e^{5,2,1} + \mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,3,2,1} \\
& + 2\mathcal{Z}e^{2,4,1,1} + \mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + \mathcal{Z}e^{3,3,1,1} + 3\mathcal{Z}e^{5,1,1,1} - \mathcal{Z}e^{2,1,1,2,2} \\
& - \mathcal{Z}e^{2,1,1,3,1} - \mathcal{Z}e^{2,1,2,2,1} + 2\mathcal{Z}e^{2,1,3,1,1} - \mathcal{Z}e^{2,2,1,2,1} + 3\mathcal{Z}e^{2,3,1,1,1} - 2\mathcal{Z}e^{3,1,1,2,1} \\
& + 2\mathcal{Z}e^{3,1,2,1,1} + 3\mathcal{Z}e^{3,2,1,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,1,2,1}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,2,1,1,1,2} = \ & \big(- \mathcal{Z}e^{2,1,1,4} - \mathcal{Z}e^{2,1,4,1} - \mathcal{Z}e^{2,4,1,1} - \mathcal{Z}e^{5,1,1,1} - 3\mathcal{Z}e^{2,1,1,1,3} - \mathcal{Z}e^{2,1,1,2,2} \\
& - \mathcal{Z}e^{2,1,1,3,1} - \mathcal{Z}e^{2,1,2,1,2} - \mathcal{Z}e^{2,1,3,1,1} - \mathcal{Z}e^{2,2,1,1,2} - \mathcal{Z}e^{2,3,1,1,1} - 2\mathcal{Z}e^{3,1,1,1,2}\big)\mathcal{T}e^{2} \\
& - \mathcal{Z}e^{2,1,1,1,2}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\mathcal{T}e^{3,1,1,1,1,3} = \big(-2\mathcal{Z}e^{3,1,1,1,2} - 2\mathcal{Z}e^{3,1,1,2,1} - 2\mathcal{Z}e^{3,1,2,1,1} - 2\mathcal{Z}e^{3,2,1,1,1} - 6\mathcal{Z}e^{4,1,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,1,1,2,2} + \mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} + \mathcal{Z}e^{2,1,3,1,1} \\ & + \mathcal{Z}e^{2,2,1,1,2} + \mathcal{Z}e^{2,2,1,2,1} + \mathcal{Z}e^{2,2,2,1,1} + \mathcal{Z}e^{2,3,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,2} + 2\mathcal{Z}e^{3,1,1,2,1} \\ & + 2\mathcal{Z}e^{3,1,2,1,1} + 2\mathcal{Z}e^{3,2,1,1,1} + 4\mathcal{Z}e^{4,1,1,1,1}\big)\mathcal{T}e^2 \\ & + \big(\mathcal{Z}e^{2,1,1,1,2} + \mathcal{Z}e^{2,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1} + \mathcal{Z}e^{2,2,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,1}\big)\mathcal{T}e^3 \\ & + \mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,1,1,2,2} = \ & \big(\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,3,1,1} + \mathcal{Z}e^{2,3,1,1,1} + \mathcal{Z}e^{4,1,1,1,1} + 2\mathcal{Z}e^{2,1,1,1,1,2} \\ & + \mathcal{Z}e^{2,1,1,1,2,1} + \mathcal{Z}e^{2,1,1,2,1,1} + \mathcal{Z}e^{2,1,2,1,1,1} + 3\mathcal{Z}e^{2,2,1,1,1,1}\big)\mathcal{T}e^2 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,1,2,1,2} = \ & \big(-\mathcal{Z}e^{2,1,3,2} - \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} - \mathcal{Z}e^{4,1,1,2} - \mathcal{Z}e^{4,1,2,1} - \mathcal{Z}e^{4,2,1,1} - \mathcal{Z}e^{2,1,1,2,2} \\ & - \mathcal{Z}e^{2,1,1,3,1} - \mathcal{Z}e^{2,1,2,1,2} - \mathcal{Z}e^{2,1,2,2,1} - 2\mathcal{Z}e^{2,1,3,1,1} - 2\mathcal{Z}e^{2,2,1,1,2} - 2\mathcal{Z}e^{2,2,1,2,1} \\ & - 2\mathcal{Z}e^{2,2,2,1,1} - 4\mathcal{Z}e^{2,3,1,1,1} - 4\mathcal{Z}e^{4,1,1,1,1} - 2\mathcal{Z}e^{2,1,1,2,1,1} - 3\mathcal{Z}e^{2,1,2,1,1,1} \\ & - 8\mathcal{Z}e^{2,2,1,1,1,1}\big)\mathcal{T}e^2 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,2,1,1,2} = \ & \big(\mathcal{Z}e^{4,2,2} + 2\mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{2,3,1,2} + 2\mathcal{Z}e^{2,3,2,1} + 2\mathcal{Z}e^{4,1,1,2} + 2\mathcal{Z}e^{4,1,2,1} \\ & + 2\mathcal{Z}e^{4,2,1,1} + 2\mathcal{Z}e^{2,1,2,1,2} + 2\mathcal{Z}e^{2,1,2,2,1} + 2\mathcal{Z}e^{2,1,3,1,1} + 4\mathcal{Z}e^{2,2,1,1,2} \\ & + 4\mathcal{Z}e^{2,2,1,2,1} + 4\mathcal{Z}e^{2,2,2,1,1} + 6\mathcal{Z}e^{2,3,1,1,1} + 6\mathcal{Z}e^{4,1,1,1,1} + 4\mathcal{Z}e^{2,1,1,2,1,1} \\ & + 6\mathcal{Z}e^{2,1,2,1,1,1} + 12\mathcal{Z}e^{2,2,1,1,1,1}\big)\mathcal{T}e^2 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,2,1,1,1,2} = \ & \big(-\mathcal{Z}e^{2,1,3,2} - \mathcal{Z}e^{2,3,1,2} - \mathcal{Z}e^{2,3,2,1} - \mathcal{Z}e^{4,1,1,2} - \mathcal{Z}e^{4,1,2,1} - \mathcal{Z}e^{4,2,1,1} \\ & - \mathcal{Z}e^{2,1,1,2,2} - \mathcal{Z}e^{2,1,1,3,1} - \mathcal{Z}e^{2,1,2,1,2} - \mathcal{Z}e^{2,1,2,2,1} - 2\mathcal{Z}e^{2,1,3,1,1} - 2\mathcal{Z}e^{2,2,1,1,2} \\ & - 2\mathcal{Z}e^{2,2,1,2,1} - 2\mathcal{Z}e^{2,2,2,1,1} - 4\mathcal{Z}e^{2,3,1,1,1} - 4\mathcal{Z}e^{4,1,1,1,1} - 2\mathcal{Z}e^{2,1,1,2,1,1} \\ & - 3\mathcal{Z}e^{2,1,2,1,1,1} - 8\mathcal{Z}e^{2,2,1,1,1,1}\big)\mathcal{T}e^2 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,1,1,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,3,1,1} + \mathcal{Z}e^{2,3,1,1,1} + \mathcal{Z}e^{4,1,1,1,1} + 2\mathcal{Z}e^{2,1,1,1,1,2} \\ & + \mathcal{Z}e^{2,1,1,1,2,1} + \mathcal{Z}e^{2,1,1,2,1,1} + \mathcal{Z}e^{2,1,2,1,1,1} + 3\mathcal{Z}e^{2,2,1,1,1,1}\big)\mathcal{T}e^{2} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,1,1,1,3} = \ & \big(- \mathcal{Z}e^{2,1,1,1,1,2} - \mathcal{Z}e^{2,1,1,1,2,1} - \mathcal{Z}e^{2,1,1,2,1,1} - \mathcal{Z}e^{2,1,2,1,1,1} - \mathcal{Z}e^{2,2,1,1,1,1} \\ & - \mathcal{Z}e^{3,1,1,1,1,1}\big)\mathcal{T}e^{2} + \mathcal{Z}e^{2,1,1,1,1,1}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,1,1,1,2} = \ & \big(- \mathcal{Z}e^{2,1,1,1,1,2} - \mathcal{Z}e^{2,1,1,1,2,1} - \mathcal{Z}e^{2,1,1,2,1,1} - \mathcal{Z}e^{2,1,2,1,1,1} - \mathcal{Z}e^{2,2,1,1,1,1} \\ & - \mathcal{Z}e^{3,1,1,1,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,1,1,1,1}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,1,1,1,1,1,2} = 2\mathcal{Z}e^{2,1,1,1,1,1,1}\mathcal{T}e^{2} \ .$$

Tables des multitangentes divergentes, jusqu'au poids 10 .

Bientôt disponible.

Troisième partie

Table de multitangentes, sans multizêtas linéarisés.

Table des multitangentes convergentes, jusqu'au poids 10 .

1 Poids 4.

$$\mathcal{T}e^{2,2} = 2\mathcal{Z}e^2\mathcal{T}e^2 \ .$$

2 Poids 5.

$$\mathcal{T}e^{2,3} = -3\mathcal{Z}e^3\mathcal{T}e^2 + \mathcal{Z}e^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2} = 3\mathcal{Z}e^3\mathcal{T}e^2 + \mathcal{Z}e^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2} = 0 \ .$$

3 Poids 6.

$$\mathcal{T}e^{2,4} = 4\mathcal{Z}e^4\mathcal{T}e^2 - 2\mathcal{Z}e^3\mathcal{T}e^3 + \mathcal{Z}e^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,3} = -6\mathcal{Z}e^4\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{4,2} = 4\mathcal{Z}e^4\mathcal{T}e^2 + 2\mathcal{Z}e^3\mathcal{T}e^3 + \mathcal{Z}e^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,3} = -\left(\mathcal{Z}e^{2,2} + \mathcal{Z}e^{3,1}\right)\mathcal{T}e^2 + \mathcal{Z}e^{2,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,2,2} = 2\left(\mathcal{Z}e^{2,2} + \left(\mathcal{Z}e^2\right)^2\right)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,2} = -\left(\mathcal{Z}e^{2,2} + \mathcal{Z}e^{3,1}\right)\mathcal{T}e^2 - \mathcal{Z}e^{2,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,2} = 2\mathcal{Z}e^{2,1,1}\mathcal{T}e^2 \ .$$

4 Poids 7.

$$\mathcal{T}e^{2,5} = -5\mathcal{Z}e^5\mathcal{T}e^2 + 3\mathcal{Z}e^4\mathcal{T}e^3 - 2\mathcal{Z}e^3\mathcal{T}e^4 + \mathcal{Z}e^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{3,4} = 10\mathcal{Z}e^5\mathcal{T}e^2 - 2\mathcal{Z}e^4\mathcal{T}e^3 + \mathcal{Z}e^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{4,3} = -10\mathcal{Z}e^5\mathcal{T}e^2 - 2\mathcal{Z}e^4\mathcal{T}e^3 - \mathcal{Z}e^3\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,2} = 5\mathcal{Z}e^5\mathcal{T}e^2 + 3\mathcal{Z}e^4\mathcal{T}e^3 + 2\mathcal{Z}e^3\mathcal{T}e^4 + \mathcal{Z}e^2\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{2,1,4} = \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 2\mathcal{Z}e^{4,1}\big)\mathcal{T}e^2 - \big(\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,2,3} = -\big(2\mathcal{Z}e^{2,3} + 3\mathcal{Z}e^{3,2} + \mathcal{Z}e^2\mathcal{Z}e^3\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,3,2} = \big(\mathcal{Z}e^2\big)^2\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,1,3} = 2\mathcal{Z}e^{3,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{3,2,2} = \big(2\mathcal{Z}e^{2,3} + 3\mathcal{Z}e^{3,2} + \mathcal{Z}e^2\mathcal{Z}e^3\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{4,1,2} = -\big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 2\mathcal{Z}e^{4,1}\big)\mathcal{T}e^2 - \big(\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^3 - \mathcal{Z}e^{2,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,1,1,3} = -\big(\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2,1} + 3\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,2} = \big(\mathcal{Z}e^{2,1,2} - \mathcal{Z}e^{2,2,1} + \mathcal{Z}e^2\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,2} = -\big(\mathcal{Z}e^{2,1,2} - \mathcal{Z}e^{2,2,1} + \mathcal{Z}e^2\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,1,2} = \big(\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2,1} + 3\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,2} = 0 \ .$$

5 Poids 8.

$$\mathcal{T}e^{2,6} = 6\mathcal{Z}e^6\mathcal{T}e^2 - 4\mathcal{Z}e^5\mathcal{T}e^3 + 3\mathcal{Z}e^4\mathcal{T}e^4 - 2\mathcal{Z}e^3\mathcal{T}e^5 + \mathcal{Z}e^2\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{3,5} = -15\mathcal{Z}e^6\mathcal{T}e^2 + 5\mathcal{Z}e^5\mathcal{T}e^3 - 3\mathcal{Z}e^4\mathcal{T}e^4 + \mathcal{Z}e^3\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{4,4} = 20\mathcal{Z}e^6\mathcal{T}e^2 + 2\mathcal{Z}e^4\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{5,3} = -15\mathcal{Z}e^6\mathcal{T}e^2 - 5\mathcal{Z}e^5\mathcal{T}e^3 - 3\mathcal{Z}e^4\mathcal{T}e^4 - \mathcal{Z}e^3\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{6,2} = 6\mathcal{Z}e^6\mathcal{T}e^2 + 4\mathcal{Z}e^5\mathcal{T}e^3 + 3\mathcal{Z}e^4\mathcal{T}e^4 + 2\mathcal{Z}e^3\mathcal{T}e^5 + \mathcal{Z}e^2\mathcal{T}e^6 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,1,5} = \ & -\big(\mathcal{Z}e^{2,4} + 2\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 3\mathcal{Z}e^{5,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^3 \\ & -\big(\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,1}\mathcal{T}e^5 \ .\end{aligned}$$

$$\mathcal{T}e^{2,2,4} = \big(3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 4\mathcal{Z}e^{4,2} + \mathcal{Z}e^2\mathcal{Z}e^4\big)\mathcal{T}e^2 - \big(2\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{2,3,3} = -\Big(3\mathcal{Z}e^{2,4} + \mathcal{Z}e^{3,3} + 3\mathcal{Z}e^2\mathcal{Z}e^4 - 2\big(\mathcal{Z}e^3\big)^2\Big)\,\mathcal{T}e^2 + \big(\mathcal{Z}e^{2,3} - \mathcal{Z}e^2\mathcal{Z}e^3\big)\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,4,2} = \big(2\mathcal{Z}e^{2,4} + 6\mathcal{Z}e^2\mathcal{Z}e^4 - 4\big(\mathcal{Z}e^3\big)^2\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^2\big)^2\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,1,4} = +\big(\mathcal{Z}e^{3,3} + 2\mathcal{Z}e^{4,2} + 2\mathcal{Z}e^{5,1}\big)\mathcal{T}e^2 - \big(\mathcal{Z}e^{3,2} + 4\mathcal{Z}e^{4,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1}\mathcal{T}e^4 \ .$$

$$\mathcal{T}e^{3,2,3} = -\big(4\mathcal{Z}e^{3,3} + 6\mathcal{Z}e^{4,2}\big)\mathcal{T}e^2 - \big(\mathcal{Z}e^3\big)^2\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,3,2} = -\Big(3\mathcal{Z}e^{2,4} + \mathcal{Z}e^{3,3} + 3\mathcal{Z}e^2\mathcal{Z}e^4 - 2\big(\mathcal{Z}e^3\big)^2\Big)\,\mathcal{T}e^2 - \big(\mathcal{Z}e^{2,3} - \mathcal{Z}e^2\mathcal{Z}e^3\big)\mathcal{T}e^3 \ . \ .$$

$$\mathcal{T}e^{4,1,3} = +\big(\mathcal{Z}e^{3,3} + 2\mathcal{Z}e^{4,2} + 2\mathcal{Z}e^{5,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{3,2} + 4\mathcal{Z}e^{4,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1}\mathcal{T}e^4 \ . \ .$$

$$\mathcal{T}e^{4,2,2} = \big(3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 4\mathcal{Z}e^{4,2} + \mathcal{Z}e^2\mathcal{Z}e^4\big)\mathcal{T}e^2 + \big(2\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,2}\mathcal{T}e^4 \ .$$

$$\begin{aligned}\mathcal{T}e^{5,1,2} = \; & -\big(\mathcal{Z}e^{2,4}+2\mathcal{Z}e^{3,3}+3\mathcal{Z}e^{4,2}+3\mathcal{Z}e^{5,1}\big)\mathcal{T}e^2-\big(\mathcal{Z}e^{2,3}+2\mathcal{Z}e^{3,2}+3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^3\\ & -\big(\mathcal{Z}e^{2,2}+2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^4-\mathcal{Z}e^{2,1}\mathcal{T}e^5\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,4} = \; & \big(\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,2,2}+\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3,2,1}+4\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^2\\ & -\big(\mathcal{Z}e^{2,1,2}+\mathcal{Z}e^{2,2,1}+2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^3+\mathcal{Z}e^{2,1,1}\mathcal{T}e^4\ .\end{aligned}$$

$$\mathcal{T}e^{2,1,2,3} = -\big(2\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,2,2}+2\mathcal{Z}e^{3,1,2}-\mathcal{Z}e^{3,2,1}+\mathcal{Z}e^3\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2+\mathcal{Z}e^{2,1,2}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,3,2} = \big(\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^3\mathcal{Z}e^{2,1}-\mathcal{Z}e^2\mathcal{Z}e^{2,2}-2\mathcal{Z}e^2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2+\mathcal{Z}e^2\mathcal{Z}e^{2,1}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,1,3} = -\big(\mathcal{Z}e^{2,2,2}+2\mathcal{Z}e^{2,3,1}-\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3,2,1}-\mathcal{Z}e^2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2+\mathcal{Z}e^{2,2,1}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,2,2} = \big(2\mathcal{Z}e^{2,2,2}+2\mathcal{Z}e^2\mathcal{Z}e^{2,2}\big)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,3,1,2} = \big(\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^3\mathcal{Z}e^{2,1}-\mathcal{Z}e^2\mathcal{Z}e^{2,2}-2\mathcal{Z}e^2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2-\mathcal{Z}e^2\mathcal{Z}e^{2,1}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,1,1,3} = -\big(2\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3,2,1}+6\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{3,1,2,2} = -\big(\mathcal{Z}e^{2,2,2}+2\mathcal{Z}e^{2,3,1}-\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3,2,1}-\mathcal{Z}e^2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2-\mathcal{Z}e^{2,2,1}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{3,2,1,2} = -\big(2\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,2,2}+2\mathcal{Z}e^{3,1,2}-\mathcal{Z}e^{3,2,1}+\mathcal{Z}e^3\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2-\mathcal{Z}e^{2,1,2}\mathcal{T}e^3\ .$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,2} = \; & \big(\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,2,2}+\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3,2,1}+4\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^2\\ & +\big(\mathcal{Z}e^{2,1,2}+\mathcal{Z}e^{2,2,1}+2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^3+\mathcal{Z}e^{2,1,1}\mathcal{T}e^4\ .\end{aligned}$$

$$\mathcal{T}e^{2,1,1,1,3} = \big(-\mathcal{Z}e^{2,1,1,2}-\mathcal{Z}e^{2,1,2,1}-\mathcal{Z}e^{2,2,1,1}-\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^2+\mathcal{Z}e^{2,1,1,1}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,1,1,2,2} = \big(\mathcal{Z}e^{2,1,1,2}+\mathcal{Z}e^{2,2,1,1}+\mathcal{Z}e^2\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,1,2,1,2} = \Big(2\mathcal{Z}e^{2,1,2,1}-\big(\mathcal{Z}e^{2,1}\big)^2\Big)\mathcal{T}e^2\ .$$

$$\mathcal{T}e^{2,2,1,1,2} = \big(\mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,2,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{3,1,1,1,2} = \big(- \mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,2,1,1} - \mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{2,1,1,1,1,2} = 2\mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^{2} \ .$$

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$$\mathcal{T}e^{2,7} = -7\mathcal{Z}e^7\mathcal{T}e^2 + 5\mathcal{Z}e^6\mathcal{T}e^3 - 4\mathcal{Z}e^5\mathcal{T}e^4 + 3\mathcal{Z}e^4\mathcal{T}e^5 - 2\mathcal{Z}e^3\mathcal{T}e^6 + \mathcal{Z}e^2\mathcal{T}e^7 \ .$$

$$\mathcal{T}e^{3,6} = 21\mathcal{Z}e^7\mathcal{T}e^2 - 9\mathcal{Z}e^6\mathcal{T}e^3 + 6\mathcal{Z}e^5\mathcal{T}e^4 - 3\mathcal{Z}e^4\mathcal{T}e^5 + \mathcal{Z}e^3\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{4,5} = -35\mathcal{Z}e^7\mathcal{T}e^2 + 5\mathcal{Z}e^6\mathcal{T}e^3 - 5\mathcal{Z}e^5\mathcal{T}e^4 + \mathcal{Z}e^4\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{5,4} = 35\mathcal{Z}e^7\mathcal{T}e^2 + 5\mathcal{Z}e^6\mathcal{T}e^3 + 5\mathcal{Z}e^5\mathcal{T}e^4 + \mathcal{Z}e^4\mathcal{T}e^5 \ .$$

$$\mathcal{T}e^{6,3} = -21\mathcal{Z}e^7\mathcal{T}e^2 - 9\mathcal{Z}e^6\mathcal{T}e^3 - 6\mathcal{Z}e^5\mathcal{T}e^4 - 3\mathcal{Z}e^4\mathcal{T}e^5 - \mathcal{Z}e^3\mathcal{T}e^6 \ .$$

$$\mathcal{T}e^{7,2} = 7\mathcal{Z}e^7\mathcal{T}e^2 + 5\mathcal{Z}e^6\mathcal{T}e^3 + 4\mathcal{Z}e^5\mathcal{T}e^4 + 3\mathcal{Z}e^4\mathcal{T}e^5 + 2\mathcal{Z}e^3\mathcal{T}e^6 + \mathcal{Z}e^2\mathcal{T}e^7 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,1,6} = \ & \big(\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^{5,2} + 4\mathcal{Z}e^{6,1}\big)\mathcal{T}e^2 \\ & -\big(\mathcal{Z}e^{2,4} + 2\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 4\mathcal{Z}e^{5,1}\big)\mathcal{T}e^3 + \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^4 \\ & -\big(\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^5 + \mathcal{Z}e^{2,1}\mathcal{T}e^6 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,5} = \ & -\big(4\mathcal{Z}e^{2,5} + 6\mathcal{Z}e^{3,4} + 6\mathcal{Z}e^{4,3} + 5\mathcal{Z}e^{5,2} + \mathcal{Z}e^2\mathcal{Z}e^5\big)\mathcal{T}e^2 \\ & +\big(3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^3 - \big(2\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,2}\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,4} = \ & \big(6\mathcal{Z}e^{2,5} + 6\mathcal{Z}e^{3,4} + 2\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^2\mathcal{Z}e^5 - 2\mathcal{Z}e^3\mathcal{Z}e^4\big)\mathcal{T}e^2 \\ & -\big(3\mathcal{Z}e^{2,4} + 2\mathcal{Z}e^{3,3} - \mathcal{Z}e^2\mathcal{Z}e^4\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,3}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,4,3} = \ & -\big(4\mathcal{Z}e^{2,5} + 3\mathcal{Z}e^{3,4} + 6\mathcal{Z}e^2\mathcal{Z}e^5 - 3\mathcal{Z}e^3\mathcal{Z}e^4\big)\mathcal{T}e^2 \\ & +\Big(\mathcal{Z}e^{2,4} - 3\mathcal{Z}e^2\mathcal{Z}e^4 + 2\big(\mathcal{Z}e^3\big)^2\Big)\mathcal{T}e^3 - \mathcal{Z}e^2\mathcal{Z}e^3\mathcal{T}e^4 \ .\end{aligned}$$

$$\mathcal{T}e^{2,5,2} = \Big(6\mathcal{Z}e^4\mathcal{Z}e^2 - 4\big(\mathcal{Z}e^3\big)^2\Big)\mathcal{T}e^3 + \big(\mathcal{Z}e^2\big)^2\mathcal{T}e^5 \ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,5} = & -\big(\mathcal{Z}e^{3,4}+3\mathcal{Z}e^{4,3}+5\mathcal{Z}e^{5,2}+5\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{2}+\big(\mathcal{Z}e^{3,3}+3\mathcal{Z}e^{4,2}+7\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{3}\\ & -\big(\mathcal{Z}e^{3,2}+3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{4}+\mathcal{Z}e^{3,1}\mathcal{T}e^{5}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,2,4} = & \big(3\mathcal{Z}e^{3,4}+8\mathcal{Z}e^{4,3}+10\mathcal{Z}e^{5,2}+\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{2}-\big(2\mathcal{Z}e^{3,3}+2\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3}\\ & +\mathcal{Z}e^{3,2}\mathcal{T}e^{4}\ .\end{aligned}$$

$$\mathcal{T}e^{3,3,3} = \Big(2\mathcal{Z}e^{3,3}-\big(\mathcal{Z}e^{3}\big)^{2}\Big)\,\mathcal{T}e^{3}\ .$$

$$\begin{aligned}\mathcal{T}e^{3,4,2} = & \big(4\mathcal{Z}e^{2,5}+3\mathcal{Z}e^{3,4}+6\mathcal{Z}e^{2}\mathcal{Z}e^{5}-3\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{2}\\ & +\Big(\mathcal{Z}e^{2,4}-3\mathcal{Z}e^{2}\mathcal{Z}e^{4}+2\big(\mathcal{Z}e^{3}\big)^{2}\Big)\,\mathcal{T}e^{3}+\mathcal{Z}e^{3}\mathcal{Z}e^{2}\mathcal{T}e^{4}\ .\end{aligned}$$

$$\mathcal{T}e^{4,1,4} = \big(-8\mathcal{Z}e^{5,1}-2\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3}\ .$$

$$\begin{aligned}\mathcal{T}e^{4,2,3} = & -\big(3\mathcal{Z}e^{3,4}++8\mathcal{Z}e^{4,3}+10\mathcal{Z}e^{5,2}+\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{2}-\big(2\mathcal{Z}e^{3,3}+2\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3}\\ & -\mathcal{Z}e^{3,2}\mathcal{T}e^{4}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,3,2} = & -\big(6\mathcal{Z}e^{2,5}+6\mathcal{Z}e^{3,4}+2\mathcal{Z}e^{4,3}+4\mathcal{Z}e^{2}\mathcal{Z}e^{5}-2\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{2}\\ & -\big(3\mathcal{Z}e^{2,4}+2\mathcal{Z}e^{3,3}-\mathcal{Z}e^{2}\mathcal{Z}e^{4}\big)\mathcal{T}e^{3}-\mathcal{Z}e^{2,3}\mathcal{T}e^{4}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,1,3} = & \big(\mathcal{Z}e^{3,4}+3\mathcal{Z}e^{4,3}+5\mathcal{Z}e^{5,2}+5\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{2}+\big(\mathcal{Z}e^{3,3}+3\mathcal{Z}e^{4,2}+7\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{3}\\ & +\big(\mathcal{Z}e^{3,2}+3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{4}+\mathcal{Z}e^{3,1}\mathcal{T}e^{5}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,2,2} = & \big(4\mathcal{Z}e^{2,5}+6\mathcal{Z}e^{3,4}++6\mathcal{Z}e^{4,3}+5\mathcal{Z}e^{5,2}+\mathcal{Z}e^{5}\mathcal{Z}e^{2}\big)\mathcal{T}e^{2}\\ & +\big(3\mathcal{Z}e^{2,4}+4\mathcal{Z}e^{3,3}+3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{3}+\big(2\mathcal{Z}e^{2,3}+2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{4}+\mathcal{Z}e^{2,2}\mathcal{T}e^{5}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{6,1,2} = & -\big(+\mathcal{Z}e^{2,5}+2\mathcal{Z}e^{3,4}+3\mathcal{Z}e^{4,3}+4\mathcal{Z}e^{5,2}+4\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{2}+\\ & -\big(\mathcal{Z}e^{2,4}+2\mathcal{Z}e^{3,3}+3\mathcal{Z}e^{4,2}+4\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{3}-\big(\mathcal{Z}e^{2,3}+2\mathcal{Z}e^{3,2}+3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{4}\\ & -\big(\mathcal{Z}e^{2,2}+2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{5}-\mathcal{Z}e^{2,1}\mathcal{T}e^{6}\ .\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,5} = & -\big(\mathcal{Z}e^{2,1,4}+\mathcal{Z}e^{2,2,3}+\mathcal{Z}e^{2,3,2}+\mathcal{Z}e^{2,4,1}+2\mathcal{Z}e^{3,1,3}+2\mathcal{Z}e^{3,2,2}+2\mathcal{Z}e^{3,3,1}+3\mathcal{Z}e^{4,1,2}\\
& +3\mathcal{Z}e^{4,2,1}+5\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^2\\
& +\big(\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,2,2}+\mathcal{Z}e^{2,3,1}+2\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3,2,1}+3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^3\\
& -\big(\mathcal{Z}e^{2,1,2}+\mathcal{Z}e^{2,2,1}+2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^4+\mathcal{Z}e^{2,1,1}\mathcal{T}e^5\ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,4} = & \big(3\mathcal{Z}e^{2,1,4}+2\mathcal{Z}e^{2,2,3}+\mathcal{Z}e^{2,3,2}+4\mathcal{Z}e^{3,1,3}+2\mathcal{Z}e^{3,2,2}+3\mathcal{Z}e^{4,1,2}-\mathcal{Z}e^{4,2,1}\\
& +\mathcal{Z}e^4\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2-\big(2\mathcal{Z}e^{2,1,3}+\mathcal{Z}e^{2,2,2}+2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^3+\mathcal{Z}e^{2,1,2}\mathcal{T}e^4\ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,3,3} = & -\big(3\mathcal{Z}e^{2,1,4}+\mathcal{Z}e^{2,2,3}+2\mathcal{Z}e^{3,1,3}+\mathcal{Z}e^{3,3,1}-3\mathcal{Z}e^4\mathcal{Z}e^{2,1}-\mathcal{Z}e^3\mathcal{Z}e^{2,2}\\
& -2\mathcal{Z}e^3\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2+\big(\mathcal{Z}e^{2,1,3}-\mathcal{Z}e^3\mathcal{Z}e^{2,1}\big)\mathcal{T}e^3\ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,4,2} = & \big(\mathcal{Z}e^{2,1,4}-\mathcal{Z}e^{2,4,1}+\mathcal{Z}e^2\mathcal{Z}e^{2,3}+2\mathcal{Z}e^2\mathcal{Z}e^{3,2}+3\mathcal{Z}e^2\mathcal{Z}e^{4,1}-2\mathcal{Z}e^3\mathcal{Z}e^{2,2}\\
& -4\mathcal{Z}e^3\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2-\big(\mathcal{Z}e^2\mathcal{Z}e^{2,2}+2\mathcal{Z}e^2\mathcal{Z}e^{3,1}-2\mathcal{Z}e^3\mathcal{Z}e^{2,1}\big)\mathcal{T}e^3+\mathcal{Z}e^2\mathcal{Z}e^{2,1}\mathcal{T}e^4\ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,2,1,4} = & \big(-\mathcal{Z}e^{4,1,2}-\mathcal{Z}e^2\mathcal{Z}e^{4,1}+\mathcal{Z}e^{2,2,3}+2\mathcal{Z}e^{2,3,2}+3\mathcal{Z}e^{2,4,1}+2\mathcal{Z}e^{3,2,2}+4\mathcal{Z}e^{3,3,1}\\
& +3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^2+\big(-\mathcal{Z}e^{2,2,2}-2\mathcal{Z}e^{2,3,1}-2\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3+\mathcal{Z}e^{2,2,1}\mathcal{T}e^4\ .
\end{aligned}$$

$$\mathcal{T}e^{2,2,2,3} = \big(-3\mathcal{Z}e^{3,2,2}-\mathcal{Z}e^2\mathcal{Z}e^{3,2}-\mathcal{Z}e^3\mathcal{Z}e^{2,2}-2\mathcal{Z}e^{2,2,3}-2\mathcal{Z}e^{2,3,2}\big)\mathcal{T}e^2+\mathcal{Z}e^{2,2,2}\mathcal{T}e^3\ .$$

$$\mathcal{T}e^{2,2,3,2} = \big(-\mathcal{Z}e^{2,3,2}-3\mathcal{Z}e^2\mathcal{Z}e^{2,3}+2\mathcal{Z}e^3\mathcal{Z}e^{2,2}-2\mathcal{Z}e^2\mathcal{Z}e^{3,2}+\mathcal{Z}e^{2,2,3}\big)\mathcal{T}e^2+\mathcal{Z}e^2\mathcal{Z}e^{2,2}\mathcal{T}e^3\ .$$

$$\begin{aligned}
\mathcal{T}e^{2,3,1,3} = & \big(-\mathcal{Z}e^{3,1,3}+3\mathcal{Z}e^2\mathcal{Z}e^{4,1}+\mathcal{Z}e^2\mathcal{Z}e^{3,2}-2\mathcal{Z}e^3\mathcal{Z}e^{3,1}-\mathcal{Z}e^{2,3,2}-3\mathcal{Z}e^{2,4,1}\\
& -2\mathcal{Z}e^{3,3,1}\big)\mathcal{T}e^2+\big(\mathcal{Z}e^2\mathcal{Z}e^{3,1}+\mathcal{Z}e^{2,3,1}\big)\mathcal{T}e^3\ .
\end{aligned}$$

$$\mathcal{T}e^{2,3,2,2} = \big(-\mathcal{Z}e^{2,2,3}+\mathcal{Z}e^{2,3,2}+3\mathcal{Z}e^2\mathcal{Z}e^{2,3}+2\mathcal{Z}e^2\mathcal{Z}e^{3,2}-2\mathcal{Z}e^3\mathcal{Z}e^{2,2}\big)\mathcal{T}e^2+\mathcal{Z}e^2\mathcal{Z}e^{2,2}\mathcal{T}e^3\ .$$

$$\begin{aligned}
\mathcal{T}e^{2,4,1,2} = & -\big(\mathcal{Z}e^{2,1,4}-\mathcal{Z}e^{2,4,1}+\mathcal{Z}e^2\mathcal{Z}e^{2,3}+2\mathcal{Z}e^2\mathcal{Z}e^{3,2}+3\mathcal{Z}e^2\mathcal{Z}e^{4,1}-4\mathcal{Z}e^3\mathcal{Z}e^{3,1}\\
& -2\mathcal{Z}e^3\mathcal{Z}e^{2,2}+3\mathcal{Z}e^4\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2-\big(\mathcal{Z}e^2\mathcal{Z}e^{2,2}+2\mathcal{Z}e^2\mathcal{Z}e^{3,1}-2\mathcal{Z}e^3\mathcal{Z}e^{2,1}\big)\mathcal{T}e^3\\
& -\mathcal{Z}e^2\mathcal{Z}e^{2,1}\mathcal{T}e^4\ .
\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,4} = \ & \big(\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{3,3,1} + 4\mathcal{Z}e^{4,1,2} + 4\mathcal{Z}e^{4,2,1} + 10\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^2 \\ & -\big(\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1} + 2\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{3,1,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,2,3} = \ & \big(-2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,3,1} - 3\mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1} - \mathcal{Z}e^3\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2 \\ & +\big(\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,3,2} = \ & \big(\mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,3,1} - \mathcal{Z}e^2\mathcal{Z}e^{3,2} - 3\mathcal{Z}e^2\mathcal{Z}e^{4,1} \\ & +2\mathcal{Z}e^3\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2 + \big(\mathcal{Z}e^{2,3,1} + \mathcal{Z}e^2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,2,1,3} = \ & \big(+2\mathcal{Z}e^{3,1,3} - 2\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} - 3\mathcal{Z}e^{4,2,1} + \mathcal{Z}e^3\mathcal{Z}e^{3,1}\big)\mathcal{T}e^2 \\ & +\big(\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{3,2,2,2} = \big(2\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{3,2,2} + \mathcal{Z}e^2\mathcal{Z}e^{3,2} + \mathcal{Z}e^3\mathcal{Z}e^{2,2}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,2,2}\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{3,3,1,2} = \ & \big(3\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,3,1} - \mathcal{Z}e^3\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^3\mathcal{Z}e^{3,1} + 3\mathcal{Z}e^4\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 \\ & +\big(\mathcal{Z}e^{2,1,3} - \mathcal{Z}e^3\mathcal{Z}e^{2,1}\big)\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,3} = \ & -\big(\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{3,3,1} + 4\mathcal{Z}e^{4,1,2} + 4\mathcal{Z}e^{4,2,1} + 10\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^2 \\ & -\big(\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1} + 2\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^3 - \mathcal{Z}e^{3,1,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,1,2,2} = \ & -\big(\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,2,2} + 4\mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1} \\ & -\mathcal{Z}e^2\mathcal{Z}e^{4,1}\big)\mathcal{T}e^2 - \big(\mathcal{Z}e^{2,2,2} + 2\mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^3 - \mathcal{Z}e^{2,2,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,2,1,2} = \ & -\big(3\mathcal{Z}e^{2,1,4} + 2\mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + 4\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 3\mathcal{Z}e^{4,1,2} - \mathcal{Z}e^{4,2,1} \\ & +\mathcal{Z}e^4\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 - \big(2\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^3 - \mathcal{Z}e^{2,1,2}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 2\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} \\ & + 3\mathcal{Z}e^{4,2,1} + 5\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^2 \\ & + \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^3 \\ & + \big(\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^5 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,1,4} = \ & \big(\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + \mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,1,2} \\ & + 2\mathcal{Z}e^{3,1,2,1} + 2\mathcal{Z}e^{3,2,1,1} + 2\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^2 \\ & - \big(\mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + \mathcal{Z}e^{2,2,1,1} + 2\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^3 + \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^4 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,2,3} = \ & -\big(2\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,2,1,2} + 2\mathcal{Z}e^{3,1,1,2} + \mathcal{Z}e^{3,2,1,1} + \mathcal{Z}e^3\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^2 \\ & + \mathcal{Z}e^{2,1,1,2}\mathcal{T}e^3 \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,3,2} = \ & \big(+ \mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{2,3,1,1} - \mathcal{Z}e^2\mathcal{Z}e^{2,1,2} - \mathcal{Z}e^2\mathcal{Z}e^{2,2,1} - 2\mathcal{Z}e^2\mathcal{Z}e^{3,1,1} \\ & + 2\mathcal{Z}e^3\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^2\mathcal{Z}e^{2,1,1}\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,2,1,3} = -\big(\mathcal{Z}e^{2,1,2,2} + 2\mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,2,1} + 3\mathcal{Z}e^{3,1,2,1} - \mathcal{Z}e^{3,1}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,2,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,2,2,2} = \big(\mathcal{Z}e^{2,1,2,2} - \mathcal{Z}e^{2,2,2,1} + \mathcal{Z}e^2\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,3,1,2} = -\left(\mathcal{Z}e^{2,1}\right)^2\mathcal{T}e^3 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,2,1,1,3} = \ & -\big(\mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + 2\mathcal{Z}e^{2,3,1,1} + \mathcal{Z}e^{3,1,1,2} + 2\mathcal{Z}e^{3,2,1,1} + \mathcal{Z}e^2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^2 \\ & + \mathcal{Z}e^{2,2,1,1}\mathcal{T}e^3 \ .\end{aligned}$$

$$\mathcal{T}e^{2,2,1,2,2} = 0 \ .$$

$$\mathcal{T}e^{2,2,2,1,2} = \big(- \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,2,2,1} - \mathcal{Z}e^2\mathcal{Z}e^{2,1,2} - \mathcal{Z}e^{2,2}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 \ .$$

$$\begin{aligned}\mathcal{T}e^{2,3,1,1,2} = \ & \big(- \mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,3,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1} \\ & -2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\mathcal{T}e^{3,1,1,1,3} = 2\mathcal{Z}e^{3,1,1,1}\mathcal{T}e^{3} \ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,2,2} = \ & \big(\mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + 2\mathcal{Z}e^{2,3,1,1} + \mathcal{Z}e^{3,1,1,2} + 2\mathcal{Z}e^{3,2,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^{2} \\ & +\mathcal{Z}e^{2,2,1,1}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\mathcal{T}e^{3,1,2,1,2} = \big(\mathcal{Z}e^{2,1,2,2} + 2\mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,2,1} + 3\mathcal{Z}e^{3,1,2,1} - \mathcal{Z}e^{3,1}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{2} + \mathcal{Z}e^{2,1,2,1}\mathcal{T}e^{3} \ .$$

$$\begin{aligned}\mathcal{T}e^{3,2,1,1,2} = \ & \big(2\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,2,1,2} + 2\mathcal{Z}e^{3,1,1,2} + \mathcal{Z}e^{3,2,1,1} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} \\ & +\mathcal{Z}e^{2,1,1,2}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,1,2} = \ & -\big(\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + \mathcal{Z}e^{2,3,1,1} \\ & +2\mathcal{Z}e^{3,1,1,2} + 2\mathcal{Z}e^{3,1,2,1} + 2\mathcal{Z}e^{3,2,1,1} + 2\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^{2} \\ & -\big(\mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + \mathcal{Z}e^{2,2,1,1} + 2\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{3} - \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^{4} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,1,1,1,1,3} = \ & -\big(\mathcal{Z}e^{2,1,1,1,2} + \mathcal{Z}e^{2,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1} + \mathcal{Z}e^{2,2,1,1,1} + 3\mathcal{Z}e^{3,1,1,1,1}\big)\mathcal{T}e^{2} \\ & +\mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,1,1,2,2} = \big(\mathcal{Z}e^{2,1,1,1,2} - \mathcal{Z}e^{2,2,1,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{2,1,1,2,1,2} = \big(\mathcal{Z}e^{2,1,1,2,1} - \mathcal{Z}e^{2,1,2,1,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{2,1,2,1,1,2} = -\big(\mathcal{Z}e^{2,1,1,2,1} - \mathcal{Z}e^{2,1,2,1,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{2,2,1,1,1,2} = -\big(\mathcal{Z}e^{2,1,1,1,2} - \mathcal{Z}e^{2,2,1,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,1,1,2} + \mathcal{Z}e^{2,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1} + \mathcal{Z}e^{2,2,1,1,1} + 3\mathcal{Z}e^{3,1,1,1,1}\big)\mathcal{T}e^{2} \\ & +\mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,1,1,1,1,2} = 0 \ .$$

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$$\mathcal{T}e^{2,8} = 8\mathcal{Z}e^{8}\mathcal{T}e^{2} - 6\mathcal{Z}e^{7}\mathcal{T}e^{3} + 5\mathcal{Z}e^{6}\mathcal{T}e^{4} - 4\mathcal{Z}e^{5}\mathcal{T}e^{5} + 3\mathcal{Z}e^{4}\mathcal{T}e^{6} - 2\mathcal{Z}e^{3}\mathcal{T}e^{7} + \mathcal{Z}e^{2}\mathcal{T}e^{8} \ .$$

$$\mathcal{T}e^{3,7} = -28\mathcal{Z}e^{8}\mathcal{T}e^{2} + 14\mathcal{Z}e^{7}\mathcal{T}e^{3} - 10\mathcal{Z}e^{6}\mathcal{T}e^{4} + 6\mathcal{Z}e^{5}\mathcal{T}e^{5} - 3\mathcal{Z}e^{4}\mathcal{T}e^{6} + \mathcal{Z}e^{3}\mathcal{T}e^{7} \ .$$

$$\mathcal{T}e^{4,6} = 56\mathcal{Z}e^{8}\mathcal{T}e^{2} - 14\mathcal{Z}e^{7}\mathcal{T}e^{3} + 11\mathcal{Z}e^{6}\mathcal{T}e^{4} - 4\mathcal{Z}e^{5}\mathcal{T}e^{5} + \mathcal{Z}e^{4}\mathcal{T}e^{6} \ .$$

$$\mathcal{T}e^{5,5} = -70\mathcal{Z}e^{8}\mathcal{T}e^{2} - 10\mathcal{Z}e^{6}\mathcal{T}e^{4} \ .$$

$$\mathcal{T}e^{6,4} = 56\mathcal{Z}e^{8}\mathcal{T}e^{2} + 14\mathcal{Z}e^{7}\mathcal{T}e^{3} + 11\mathcal{Z}e^{6}\mathcal{T}e^{4} + 4\mathcal{Z}e^{5}\mathcal{T}e^{5} + \mathcal{Z}e^{4}\mathcal{T}e^{6} \ .$$

$$\mathcal{T}e^{7,3} = -28\mathcal{Z}e^{8}\mathcal{T}e^{2} - 14\mathcal{Z}e^{7}\mathcal{T}e^{3} - 10\mathcal{Z}e^{6}\mathcal{T}e^{4} - 6\mathcal{Z}e^{5}\mathcal{T}e^{5} - 3\mathcal{Z}e^{4}\mathcal{T}e^{6} - \mathcal{Z}e^{3}\mathcal{T}e^{7} \ .$$

$$\mathcal{T}e^{8,2} = 8\mathcal{Z}e^{8}\mathcal{T}e^{2} + 6\mathcal{Z}e^{7}\mathcal{T}e^{3} + 5\mathcal{Z}e^{6}\mathcal{T}e^{4} + 4\mathcal{Z}e^{5}\mathcal{T}e^{5} + 3\mathcal{Z}e^{4}\mathcal{T}e^{6} + 2\mathcal{Z}e^{3}\mathcal{T}e^{7} + \mathcal{Z}e^{2}\mathcal{T}e^{8} \ .$$

$$\begin{aligned}\mathcal{T}e^{2,1,7} = \ & -\big(\mathcal{Z}e^{2,6} + 2\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{4,4} + 4\mathcal{Z}e^{5,3} + 5\mathcal{Z}e^{6,2} + 5\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2} \\ & +\big(\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^{5,2} + 5\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3} \\ & -\big(\mathcal{Z}e^{2,4} + 2\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 4\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4} + \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{5} \\ & -\big(\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{6} + \mathcal{Z}e^{2,1}\mathcal{T}e^{7} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,6} = \ & \big(5\mathcal{Z}e^{2,6} + 8\mathcal{Z}e^{3,5} + 9\mathcal{Z}e^{4,4} + 8\mathcal{Z}e^{5,3} + 6\mathcal{Z}e^{6,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{6}\big)\mathcal{T}e^{2} \\ & -\big(4\mathcal{Z}e^{2,5} + 6\mathcal{Z}e^{3,4} + 6\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} + \big(3\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4} \\ & -\big(2\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{5} + \mathcal{Z}e^{2,2}\mathcal{T}e^{6} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,5} = \ & -\big(10\mathcal{Z}e^{2,6} + 12\mathcal{Z}e^{3,5} + 9\mathcal{Z}e^{4,4} + 3\mathcal{Z}e^{5,3} + 5\mathcal{Z}e^{2}\mathcal{Z}e^{6} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{5}\big)\mathcal{T}e^{2} \\ & +\big(6\mathcal{Z}e^{2,5} + 6\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} - \mathcal{Z}e^{2}\mathcal{Z}e^{5}\big)\mathcal{T}e^{3} - \big(3\mathcal{Z}e^{2,4} + 2\mathcal{Z}e^{3,3}\big)\mathcal{T}e^{4} \\ & +\mathcal{Z}e^{2,3}\mathcal{T}e^{5} \ .\end{aligned}$$

$$\mathcal{T}e^{2,4,4} = \Big(10\mathcal{Z}e^{2,6} + 8\mathcal{Z}e^{3,5} + 4\mathcal{Z}e^{4,4} + 10\mathcal{Z}e^{2}\mathcal{Z}e^{6} - 8\mathcal{Z}e^{3}\mathcal{Z}e^{5} + 3\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2}$$
$$-\big(4\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} - 4\mathcal{Z}e^{2}\mathcal{Z}e^{5} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{3} + \big(\mathcal{Z}e^{2,4} + \mathcal{Z}e^{2}\mathcal{Z}e^{4}\big)\mathcal{T}e^{4} \ .$$

$$\mathcal{T}e^{2,5,3} = -\Big(5\mathcal{Z}e^{2,6} + \mathcal{Z}e^{3,5} + 10\mathcal{Z}e^{2}\mathcal{Z}e^{6} - 16\mathcal{Z}e^{3}\mathcal{Z}e^{5} + 9\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2}$$
$$+\big(\mathcal{Z}e^{2,5} - 6\mathcal{Z}e^{2}\mathcal{Z}e^{5} + 3\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{3} - \Big(3\mathcal{Z}e^{2}\mathcal{Z}e^{4} - 2\big(\mathcal{Z}e^{3}\big)^{2}\Big)\mathcal{T}e^{4}$$
$$-\mathcal{Z}e^{2}\mathcal{Z}e^{3}\mathcal{T}e^{5} \ .$$

$$\mathcal{T}e^{2,6,2} = \Big(2\mathcal{Z}e^{2,6} + 10\mathcal{Z}e^{2}\mathcal{Z}e^{6} - 16\mathcal{Z}e^{3}\mathcal{Z}e^{5} + 9\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2} + \Big(6\mathcal{Z}e^{2}\mathcal{Z}e^{4} - 4\big(\mathcal{Z}e^{3}\big)^{2}\Big)\mathcal{T}e^{4}$$
$$+\big(\mathcal{Z}e^{2}\big)^{2}\mathcal{T}e^{6} \ .$$

$$\mathcal{T}e^{3,1,6} = \big(\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{4,4} + 6\mathcal{Z}e^{5,3} + 9\mathcal{Z}e^{6,2} + 9\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2}$$
$$-\big(\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 6\mathcal{Z}e^{5,2} + 11\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3} + \big(\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 6\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4}$$
$$-\big(\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{5} + \mathcal{Z}e^{3,1}\mathcal{T}e^{6} \ .$$

$$\mathcal{T}e^{3,2,5} = -\big(4\mathcal{Z}e^{3,5} + 9\mathcal{Z}e^{4,4} + 14\mathcal{Z}e^{5,3} + 15\mathcal{Z}e^{6,2} + \mathcal{Z}e^{3}\mathcal{Z}e^{5}\big)\mathcal{T}e^{2}$$
$$+\big(3\mathcal{Z}e^{3,4} + 6\mathcal{Z}e^{4,3} + 5\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3} - \big(2\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{3,2}\mathcal{T}e^{5} \ .$$

$$\mathcal{T}e^{3,3,4} = \Big(6\mathcal{Z}e^{3,5} + 6\mathcal{Z}e^{4,4} + 2\mathcal{Z}e^{5,3} + 4\mathcal{Z}e^{3}\mathcal{Z}e^{5} - 3\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2}$$
$$-\big(3\mathcal{Z}e^{3,4} + 4\mathcal{Z}e^{4,3} - \mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{3,3}\mathcal{T}e^{4} \ .$$

$$\mathcal{T}e^{3,4,3} = -\Big(8\mathcal{Z}e^{3,5} + 6\mathcal{Z}e^{4,4} + 12\mathcal{Z}e^{3}\mathcal{Z}e^{5} - 9\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{3}\big)^{2}\mathcal{T}e^{4} \ .$$

$$\mathcal{T}e^{3,5,2} = -\Big(5\mathcal{Z}e^{2,6} + \mathcal{Z}e^{3,5} + 10\mathcal{Z}e^{2}\mathcal{Z}e^{6} - 16\mathcal{Z}e^{3}\mathcal{Z}e^{5} + 9\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2}$$
$$-\big(\mathcal{Z}e^{2,5} - 6\mathcal{Z}e^{2}\mathcal{Z}e^{5} + 3\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{3} - \Big(3\mathcal{Z}e^{2}\mathcal{Z}e^{4} - 2\big(\mathcal{Z}e^{3}\big)^{2}\Big)\mathcal{T}e^{4}$$
$$+\mathcal{Z}e^{2}\mathcal{Z}e^{3}\mathcal{T}e^{5} \ .$$

$$\begin{aligned}\mathcal{T}e^{4,1,5} = & -\big(\mathcal{Z}e^{4,4}+3\mathcal{Z}e^{5,3}+5\mathcal{Z}e^{6,2}+5\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2}+\big(\mathcal{Z}e^{4,3}+5\mathcal{Z}e^{5,2}+15\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3}\\ & -\big(\mathcal{Z}e^{4,2}+3\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4}+\mathcal{Z}e^{4,1}\mathcal{T}e^{5}\ .\end{aligned}$$

$$\mathcal{T}e^{4,2,4} = \Big(6\mathcal{Z}e^{4,4}+16\mathcal{Z}e^{5,3}+20\mathcal{Z}e^{6,2}+\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2}+2\mathcal{Z}e^{4,2}\mathcal{T}e^{4}\ .$$

$$\begin{aligned}\mathcal{T}e^{4,3,3} = & \Big(6\mathcal{Z}e^{3,5}+6\mathcal{Z}e^{4,4}+2\mathcal{Z}e^{5,3}+4\mathcal{Z}e^{3}\mathcal{Z}e^{5}-3\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2}\\ & +\big(3\mathcal{Z}e^{3,4}+4\mathcal{Z}e^{4,3}-\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{3}+\mathcal{Z}e^{3,3}\mathcal{T}e^{4}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{4,4,2} = & \Big(10\mathcal{Z}e^{2,6}+8\mathcal{Z}e^{3,5}+4\mathcal{Z}e^{4,4}+10\mathcal{Z}e^{2}\mathcal{Z}e^{6}-8\mathcal{Z}e^{3}\mathcal{Z}e^{5}+3\big(\mathcal{Z}e^{4}\big)^{2}\Big)\mathcal{T}e^{2}\\ & +\big(4\mathcal{Z}e^{2,5}+2\mathcal{Z}e^{3,4}-4\mathcal{Z}e^{2}\mathcal{Z}e^{5}+2\mathcal{Z}e^{3}\mathcal{Z}e^{4}\big)\mathcal{T}e^{3}+\big(\mathcal{Z}e^{2,4}+\mathcal{Z}e^{2}\mathcal{Z}e^{4}\big)\mathcal{T}e^{4}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,1,4} = & -\big(\mathcal{Z}e^{4,4}+3\mathcal{Z}e^{5,3}+5\mathcal{Z}e^{6,2}+5\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2}-\big(\mathcal{Z}e^{4,3}+5\mathcal{Z}e^{5,2}+15\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3}\\ & -\big(\mathcal{Z}e^{4,2}+3\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4}-\mathcal{Z}e^{4,1}\mathcal{T}e^{5}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,2,3} = & -\big(4\mathcal{Z}e^{3,5}+9\mathcal{Z}e^{4,4}+14\mathcal{Z}e^{5,3}+15\mathcal{Z}e^{6,2}+\mathcal{Z}e^{3}\mathcal{Z}e^{5}\big)\mathcal{T}e^{2}\\ & -\big(3\mathcal{Z}e^{3,4}+6\mathcal{Z}e^{4,3}+5\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3}-\big(2\mathcal{Z}e^{3,3}+3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4}-\mathcal{Z}e^{3,2}\mathcal{T}e^{5}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{5,3,2} = & -\big(10\mathcal{Z}e^{2,6}+12\mathcal{Z}e^{3,5}+9\mathcal{Z}e^{4,4}+3\mathcal{Z}e^{5,3}+5\mathcal{Z}e^{2}\mathcal{Z}e^{6}-2\mathcal{Z}e^{3}\mathcal{Z}e^{5}\big)\mathcal{T}e^{2}\\ & -\big(6\mathcal{Z}e^{2,5}+6\mathcal{Z}e^{3,4}+3\mathcal{Z}e^{4,3}-\mathcal{Z}e^{2}\mathcal{Z}e^{5}\big)\mathcal{T}e^{3}-\big(3\mathcal{Z}e^{2,4}+2\mathcal{Z}e^{3,3}\big)\mathcal{T}e^{4}\\ & -\mathcal{Z}e^{2,3}\mathcal{T}e^{5}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{6,1,3} = & \big(\mathcal{Z}e^{3,5}+3\mathcal{Z}e^{4,4}+6\mathcal{Z}e^{5,3}+9\mathcal{Z}e^{6,2}+9\mathcal{Z}e^{7,1}\big)\mathcal{T}e^{2}\\ & +\big(\mathcal{Z}e^{3,4}+3\mathcal{Z}e^{4,3}+6\mathcal{Z}e^{5,2}+11\mathcal{Z}e^{6,1}\big)\mathcal{T}e^{3}+\big(\mathcal{Z}e^{3,3}+3\mathcal{Z}e^{4,2}+6\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{4}\\ & +\big(\mathcal{Z}e^{3,2}+3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{5}+\mathcal{Z}e^{3,1}\mathcal{T}e^{6}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{6,2,2} = & \big(5\mathcal{Z}e^{2,6}+8\mathcal{Z}e^{3,5}+9\mathcal{Z}e^{4,4}+8\mathcal{Z}e^{5,3}+6\mathcal{Z}e^{6,2}+\mathcal{Z}e^{2}\mathcal{Z}e^{6}\big)\mathcal{T}e^{2}\\ & +\big(4\mathcal{Z}e^{2,5}+6\mathcal{Z}e^{3,4}+6\mathcal{Z}e^{4,3}+4\mathcal{Z}e^{5,2}\big)\mathcal{T}e^{3}+\big(3\mathcal{Z}e^{2,4}+4\mathcal{Z}e^{3,3}+3\mathcal{Z}e^{4,2}\big)\mathcal{T}e^{4}\\ & +\big(2\mathcal{Z}e^{2,3}+2\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{5}+\mathcal{Z}e^{2,2}\mathcal{T}e^{6}\ .\end{aligned}$$

$$
\begin{aligned}
\mathcal{T}e^{7,1,2} = \; & -\big(\mathcal{Z}e^{2,6} + 2\mathcal{Z}e^{3,5} + 3\mathcal{Z}e^{4,4} + 4\mathcal{Z}e^{5,3} + 5\mathcal{Z}e^{6,2} + 5\mathcal{Z}e^{7,1}\big)\mathcal{T}e^2 \\
& -\big(\mathcal{Z}e^{2,5} + 2\mathcal{Z}e^{3,4} + 3\mathcal{Z}e^{4,3} + 4\mathcal{Z}e^{5,2} + 5\mathcal{Z}e^{6,1}\big)\mathcal{T}e^3 \\
& -\big(\mathcal{Z}e^{2,4} + 2\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{4,2} + 4\mathcal{Z}e^{5,1}\big)\mathcal{T}e^4 - \big(\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{4,1}\big)\mathcal{T}e^5 \\
& -\big(\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{3,1}\big)\mathcal{T}e^6 - \mathcal{Z}e^{2,1}\mathcal{T}e^7 \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,1,6} = \; & \big(\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} \\
& +2\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} + 4\mathcal{Z}e^{5,1,2} + 4\mathcal{Z}e^{5,2,1} + 6\mathcal{Z}e^{6,1,1} + \big)\mathcal{T}e^2 \\
& -\big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 2\mathcal{Z}e^{3,3,1} \\
& +3\mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1} + 4\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^3 \\
& +\big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^4 \\
& -\big(\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^5 + \mathcal{Z}e^{2,1,1}\mathcal{T}e^6 \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,2,5} = \; & -\big(4\mathcal{Z}e^{2,1,5} + 3\mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,4,2} + 6\mathcal{Z}e^{3,1,4} + 4\mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} \\
& +6\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 4\mathcal{Z}e^{5,1,2} - \mathcal{Z}e^{5,2,1} + \mathcal{Z}e^{5}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 \\
& +\big(3\mathcal{Z}e^{2,1,4} + 2\mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + 4\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 3\mathcal{Z}e^{4,1,2}\big)\mathcal{T}e^3 \\
& -\big(2\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^4 + \mathcal{Z}e^{2,1,2}\mathcal{T}e^5 \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,3,4} = \; & \big(6\mathcal{Z}e^{2,1,5} + 3\mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,3,3} + 6\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} + 3\mathcal{Z}e^{4,1,3} + \mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{4}\mathcal{Z}e^{2,2} \\
& -2\mathcal{Z}e^{4}\mathcal{Z}e^{3,1} + 4\mathcal{Z}e^{5}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 - \big(3\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{4}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^3 \\
& +\mathcal{Z}e^{2,1,3}\mathcal{T}e^4 \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,4,3} = \; & -\big(4\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,4,1} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} \\
& -3\mathcal{Z}e^{4}\mathcal{Z}e^{2,2} - 6\mathcal{Z}e^{4}\mathcal{Z}e^{3,1} + 6\mathcal{Z}e^{5}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^2 \\
& +\big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,1} - 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^3 - \mathcal{Z}e^{3}\mathcal{Z}e^{2,1}\mathcal{T}e^4 \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,5,2} = \; & \big(\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,5,1} + 4\mathcal{Z}e^{5}\mathcal{Z}e^{2,1} - 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,2} - 6\mathcal{Z}e^{4}\mathcal{Z}e^{3,1} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,3} + 4\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} \\
& + 6\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,2} - 4\mathcal{Z}e^{2}\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2}\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,2} - 4\mathcal{Z}e^{3}\mathcal{Z}e^{3,1} + 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{3} \\
& + \big(2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,2} - 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1}\mathcal{T}e^{5} \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,2,1,5} = \; & -\big(\mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,2,3} + 4\mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{3,4,1} \\
& + 3\mathcal{Z}e^{4,2,2} + 6\mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{5,1,2} + 4\mathcal{Z}e^{5,2,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,2,2} + 4\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^{3} \\
& - \big(\mathcal{Z}e^{2,2,2} + 2\mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{2,2,1}\mathcal{T}e^{5} \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,2,2,4} = \; & \big(3\mathcal{Z}e^{2,2,4} + 4\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{3,2,3} + 4\mathcal{Z}e^{3,3,2} + 4\mathcal{Z}e^{4,2,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{4,2} \\
& + \mathcal{Z}e^{4}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{2} - \big(2\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2,2,2}\mathcal{T}e^{4} \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,2,3,3} = \; & -\big(3\mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} + 2\mathcal{Z}e^{3,2,3} - \mathcal{Z}e^{3,3,2} - \mathcal{Z}e^{2}\mathcal{Z}e^{3,3} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,3} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} \\
& + 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{3}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{3} \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,2,4,2} = \; & \big(\mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{2}\mathcal{Z}e^{2,4} + 4\mathcal{Z}e^{2}\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,2} - 4\mathcal{Z}e^{3}\mathcal{Z}e^{2,3} - 4\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} \\
& + 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{2} - \big(2\mathcal{Z}e^{2}\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,2} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,2}\mathcal{T}e^{4} \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,3,1,4} = \; & \big(\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} + 6\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{3,4,1} + \mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{4,2} \\
& - 4\mathcal{Z}e^{2}\mathcal{Z}e^{5,1} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} + \big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{3} \\
& + \mathcal{Z}e^{2,3,1}\mathcal{T}e^{4} \; .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,3,2,3} = \; & -\big(2\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,2} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,3} \\
& - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2}\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{3} \; .
\end{aligned}
$$

$$
\mathcal{T}e^{2,3,3,2} = \big(2\mathcal{Z}e^{2,3,3} - 6\mathcal{Z}e^{2}\mathcal{Z}e^{2,4} - 4\mathcal{Z}e^{2}\mathcal{Z}e^{3,3} + 4\mathcal{Z}e^{3}\mathcal{Z}e^{2,3}\big)\mathcal{T}e^{2} \; .
$$

$$\begin{aligned}
\mathcal{T}e^{2,4,1,3} = \; & \big(\mathcal{Z}e^{2,1,4} + 6\mathcal{Z}e^{2}\mathcal{Z}e^{5,1} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,3} - 6\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} \\
& + 3\mathcal{Z}e^{4}\mathcal{Z}e^{3,1} - \mathcal{Z}e^{2,4,2} - 4\mathcal{Z}e^{2,5,1} - 2\mathcal{Z}e^{3,4,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,1}\mathcal{T}e^{4} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,4,2,2} = \; & \big(\mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{2}\mathcal{Z}e^{2,4} + 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,2} - 4\mathcal{Z}e^{3}\mathcal{Z}e^{2,3} - 4\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} + 4\mathcal{Z}e^{2}\mathcal{Z}e^{3,3} \\
& + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,2} + \mathcal{Z}e^{2,2,4}\big)\mathcal{T}e^{2} + \big(2\mathcal{Z}e^{2}\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,2} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{3} \\
& + \mathcal{Z}e^{2}\mathcal{Z}e^{2,2}\mathcal{T}e^{4} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,5,1,2} = \; & \big(\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,5,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,4} - 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,3} - 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,2} - 4\mathcal{Z}e^{2}\mathcal{Z}e^{5,1} \\
& + 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,3} + 4\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} + 6\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} - 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,2} - 6\mathcal{Z}e^{4}\mathcal{Z}e^{3,1} + 4\mathcal{Z}e^{5}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{2} \\
& - \big(\mathcal{Z}e^{2}\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,2} - 4\mathcal{Z}e^{3}\mathcal{Z}e^{3,1} \\
& + 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{3} - \big(\mathcal{Z}e^{2}\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{4} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,1}\mathcal{T}e^{5} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,1,5} = \; & -\big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,3,2} + \mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} \\
& + 7\mathcal{Z}e^{5,1,2} + 7\mathcal{Z}e^{5,2,1} + 15\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1} + 5\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^{3} \\
& - \big(\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{3,1,1}\mathcal{T}e^{5} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,2,4} = \; & \big(3\mathcal{Z}e^{2,1,4} + 2\mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} - 2\mathcal{Z}e^{4,3,1} + 6\mathcal{Z}e^{5,1,2} \\
& - 4\mathcal{Z}e^{5,2,1} + \mathcal{Z}e^{4}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{2} - \big(2\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + 3\mathcal{Z}e^{4,1,2} + \mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^{3} \\
& + \mathcal{Z}e^{3,1,2}\mathcal{T}e^{4} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,3,3} = \; & -\big(3\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,3,2} + 3\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{3}\mathcal{Z}e^{3,2} \\
& - 3\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} + 3\mathcal{Z}e^{4}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{3}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{3} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,1,4,2} = \ & \big(\mathcal{Z}e^{2,1,4} - \mathcal{Z}e^{2,4,2} - 4\mathcal{Z}e^{2,5,1} - 2\mathcal{Z}e^{3,4,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,2} + 6\mathcal{Z}e^{2}\mathcal{Z}e^{5,1} \\
& -2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} - 6\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} + 3\mathcal{Z}e^{4}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{2} \\
& -\big(\mathcal{Z}e^{2,4,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,2,1,4} = \ & \big(\mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} + 3\mathcal{Z}e^{3,4,1} - 2\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} + 6\mathcal{Z}e^{4,3,1} - 4\mathcal{Z}e^{5,1,2} \\
& +6\mathcal{Z}e^{5,2,1} - \mathcal{Z}e^{3}\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{3,2,2} + 2\mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^{3} \\
& +\mathcal{Z}e^{3,2,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\mathcal{T}e^{3,2,2,3} = -\big(4\mathcal{Z}e^{3,2,3} + 4\mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{4,2,2} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{2} \ .$$

$$\begin{aligned}
\mathcal{T}e^{3,2,3,2} = \ & -\big(2\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} - \mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,3} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,2} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,3} \\
& -2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{2,3,2} - \mathcal{Z}e^{2}\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,3,1,3} = \ & -\big(3\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,3,2} + 3\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{3}\mathcal{Z}e^{3,2} \\
& -3\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} + 3\mathcal{Z}e^{4}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{3,3,1} - \mathcal{Z}e^{3}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,3,2,2} = \ & -\big(3\mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} + 2\mathcal{Z}e^{3,2,3} - \mathcal{Z}e^{3,3,2} - \mathcal{Z}e^{2}\mathcal{Z}e^{3,3} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,3} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} \\
& +3\mathcal{Z}e^{4}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{2,2,3} - \mathcal{Z}e^{3}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,4,1,2} = \ & -\big(4\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{3,1,4} - \mathcal{Z}e^{3,4,1} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,3} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,2} + 3\mathcal{Z}e^{3}\mathcal{Z}e^{4,1} \\
& -3\mathcal{Z}e^{4}\mathcal{Z}e^{2,2} - 6\mathcal{Z}e^{4}\mathcal{Z}e^{3,1} + 6\mathcal{Z}e^{5}\mathcal{Z}e^{2,1}\big)\mathcal{T}e \\
& -\big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,2} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,1} - 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{3} - \mathcal{Z}e^{3}\mathcal{Z}e^{2,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\mathcal{T}e^{4,1,1,4} = \big(2\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} + 2\mathcal{Z}e^{4,3,1} + 8\mathcal{Z}e^{5,1,2} + 8\mathcal{Z}e^{5,2,1} + 20\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^{2} + 2\mathcal{Z}e^{4,1,1}\mathcal{T}e^{4} \ .$$

$$\begin{aligned}
\mathcal{T}e^{4,1,2,3} = \ & \big(+ \mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} + 3\mathcal{Z}e^{3,4,1} - 2\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} + 6\mathcal{Z}e^{4,3,1} - 4\mathcal{Z}e^{5,1,2} \\
& +6\mathcal{Z}e^{5,2,1} - \mathcal{Z}e^{3}\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{2} + \big(2\mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^{3} \\
& +\mathcal{Z}e^{3,2,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,3,2} = \; & \big(\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} + 6\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{3,4,1} + \mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,3,1} \\
& - \mathcal{Z}e^{2}\mathcal{Z}e^{4,2} - 4\mathcal{Z}e^{2}\mathcal{Z}e^{5,1} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,3,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2,3,1}\mathcal{T}e^{4} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,2,1,3} = \; & \big(3\mathcal{Z}e^{2,1,4} + 2\mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{4,1,3} + 2\mathcal{Z}e^{4,2,2} - 2\mathcal{Z}e^{4,3,1} + 6\mathcal{Z}e^{5,1,2} \\
& - 4\mathcal{Z}e^{5,2,1} + \mathcal{Z}e^{4}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{2} + \big(2\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + 3\mathcal{Z}e^{4,1,2} + \mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^{3} \\
& + \mathcal{Z}e^{3,1,2}\mathcal{T}e^{4} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,2,2,2} = \; & \big(3\mathcal{Z}e^{2,2,4} + 4\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{3,2,3} + 4\mathcal{Z}e^{3,3,2} + 4\mathcal{Z}e^{4,2,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{4,2} \\
& + \mathcal{Z}e^{4}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{2} + \big(2\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 2\mathcal{Z}e^{3,2,2}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2,2,2}\mathcal{T}e^{4} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,3,1,2} = \; & \big(6\mathcal{Z}e^{2,1,5} + 3\mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,3,3} + 6\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} + 3\mathcal{Z}e^{4,1,3} + \mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{4}\mathcal{Z}e^{2,2} \\
& - 2\mathcal{Z}e^{4}\mathcal{Z}e^{3,1} + 4\mathcal{Z}e^{5}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{2} + \big(3\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{3,1,3} - \mathcal{Z}e^{4}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{3} \\
& + \mathcal{Z}e^{2,1,3}\mathcal{T}e^{4} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{5,1,1,3} = \; & -\big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{3,2,3} + \mathcal{Z}e^{3,3,2} + \mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} + 7\mathcal{Z}e^{5,1,2} \\
& + 7\mathcal{Z}e^{5,2,1} + 15\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^{2} \\
& - \big(\mathcal{Z}e^{3,1,3} + \mathcal{Z}e^{3,2,2} + \mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} + 3\mathcal{Z}e^{4,2,1} + 5\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^{3} \\
& - \big(\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^{4} - \mathcal{Z}e^{3,1,1}\mathcal{T}e^{5} \; .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{5,1,2,2} = \; & -\big(\mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} + 3\mathcal{Z}e^{2,4,2} + 4\mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,2,3} + 4\mathcal{Z}e^{3,3,2} + 6\mathcal{Z}e^{3,4,1} \\
& + 3\mathcal{Z}e^{4,2,2} + 6\mathcal{Z}e^{4,3,1} - \mathcal{Z}e^{5,1,2} + 4\mathcal{Z}e^{5,2,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{5,1}\big)\mathcal{T}e^{2} \\
& - \big(\mathcal{Z}e^{2,2,3} + 2\mathcal{Z}e^{2,3,2} + 3\mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,2,2} + 4\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,2,1}\big)\mathcal{T}e^{3} \\
& - \big(\mathcal{Z}e^{2,2,2} + 2\mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,2,1}\big)\mathcal{T}e^{4} - \mathcal{Z}e^{2,2,1}\mathcal{T}e^{5} \; .
\end{aligned}$$

$$
\begin{aligned}
\mathcal{T}e^{5,2,1,2} = & -\big(4\mathcal{Z}e^{2,1,5} + 3\mathcal{Z}e^{2,2,4} + 2\mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,4,2} + 6\mathcal{Z}e^{3,1,4} + 4\mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} \\
& + 6\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 4\mathcal{Z}e^{5,1,2} - \mathcal{Z}e^{5,2,1} + \mathcal{Z}e^{5}\mathcal{Z}e^{2,1}\big)\mathcal{T}e^{2} \\
& - \big(3\mathcal{Z}e^{2,1,4} + 2\mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + 4\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 3\mathcal{Z}e^{4,1,2}\big)\mathcal{T}e^{3} \\
& - \big(2\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + 2\mathcal{Z}e^{3,1,2}\big)\mathcal{T}e^{4} - \mathcal{Z}e^{2,1,2}\mathcal{T}e^{5} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{6,1,1,2} = & \big(\mathcal{Z}e^{2,1,5} + \mathcal{Z}e^{2,2,4} + \mathcal{Z}e^{2,3,3} + \mathcal{Z}e^{2,4,2} + \mathcal{Z}e^{2,5,1} + 2\mathcal{Z}e^{3,1,4} + 2\mathcal{Z}e^{3,2,3} + 2\mathcal{Z}e^{3,3,2} \\
& + 2\mathcal{Z}e^{3,4,1} + 3\mathcal{Z}e^{4,1,3} + 3\mathcal{Z}e^{4,2,2} + 3\mathcal{Z}e^{4,3,1} + 4\mathcal{Z}e^{5,1,2} + 4\mathcal{Z}e^{5,2,1} + 6\mathcal{Z}e^{6,1,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2,1,4} + \mathcal{Z}e^{2,2,3} + \mathcal{Z}e^{2,3,2} + \mathcal{Z}e^{2,4,1} + 2\mathcal{Z}e^{3,1,3} + 2\mathcal{Z}e^{3,2,2} + 2\mathcal{Z}e^{3,3,1} + 3\mathcal{Z}e^{4,1,2} \\
& + 3\mathcal{Z}e^{4,2,1} + 4\mathcal{Z}e^{5,1,1}\big)\mathcal{T}e^{3} \\
& + \big(\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^{4} \\
& + \big(2\mathcal{Z}e^{3,1,1} + \mathcal{Z}e^{2,2,1} + \mathcal{Z}e^{2,1,2}\big)\mathcal{T}e^{5} + \mathcal{Z}e^{2,1,1}\mathcal{T}e^{6} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,1,1,5} = & -\big(\mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,2,3,1} \\
& + \mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,3,2,1} + \mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,1,1,3} + 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,1,3,1} + 2\mathcal{Z}e^{3,2,1,2} \\
& + 2\mathcal{Z}e^{3,2,2,1} + 2\mathcal{Z}e^{3,3,1,1} + 3\mathcal{Z}e^{4,1,1,2} + 3\mathcal{Z}e^{4,1,2,1} + 3\mathcal{Z}e^{4,2,1,1} + 3\mathcal{Z}e^{5,1,1,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + \mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,1,2} \\
& + 2\mathcal{Z}e^{3,1,2,1} + 2\mathcal{Z}e^{3,2,1,1} + 3\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^{3} \\
& - \big(\mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + \mathcal{Z}e^{2,2,1,1} + 2\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{4} + \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^{5} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,1,2,4} = & \big(3\mathcal{Z}e^{2,1,1,4} + 2\mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,3,2} + 2\mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,3,1,2} + 4\mathcal{Z}e^{3,1,1,3} \\
& + 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,1,2} + 3\mathcal{Z}e^{4,1,1,2} + \mathcal{Z}e^{4,2,1,1} + \mathcal{Z}e^{4}\mathcal{Z}e^{2,1,1} + \big)\mathcal{T}e^{2} \\
& - \big(2\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,2,1,2} + 2\mathcal{Z}e^{3,1,1,2}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2,1,1,2}\mathcal{T}e^{4} \ .
\end{aligned}
$$

$$
\begin{aligned}
\mathcal{T}e^{2,1,1,3,3} = & -\big(3\mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,2,1,3} + 2\mathcal{Z}e^{3,1,1,3} - \mathcal{Z}e^{3,3,1,1} - \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,2} \\
& - \mathcal{Z}e^{3}\mathcal{Z}e^{2,2,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,1,1} + 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}
$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,4,2} = \ & \big(\mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,4,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,2} \\
& + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,2,1} + 3\mathcal{Z}e^{2}\mathcal{Z}e^{4,1,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,2} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,2,1} - 4\mathcal{Z}e^{3}\mathcal{Z}e^{3,1,1} \\
& + 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{3} \\
& + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,1,4} = \ & \big(\mathcal{Z}e^{2,1,2,3} + 2\mathcal{Z}e^{2,1,3,2} + 3\mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{2,3,2,1} + 2\mathcal{Z}e^{3,1,2,2} \\
& + 4\mathcal{Z}e^{3,1,3,1} + 2\mathcal{Z}e^{3,2,2,1} + 4\mathcal{Z}e^{4,1,2,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{2} \\
& - \big(\mathcal{Z}e^{2,1,2,2} + 2\mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,2,1} + 2\mathcal{Z}e^{3,1,2,1}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2,1,2,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,2,3} = \ & -\big(2\mathcal{Z}e^{2,1,2,3} + 2\mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{3,1,2,2} - \mathcal{Z}e^{3,2,2,1} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,2} \\
& + \mathcal{Z}e^{2,1}\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{2} + \mathcal{Z}e^{2,1,2,2}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,3,2} = \ & \big(\mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,3,2,1} - 2\mathcal{Z}e^{2}\mathcal{Z}e^{2,1,3} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,2,2} - 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,2} \\
& - \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,3}\big)\mathcal{T}e^{2} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,3,1,3} = \ & -\Big(\mathcal{Z}e^{2,1,3,2} + 3\mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{3,1,3,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{3,2} - 3\mathcal{Z}e^{2,1}\mathcal{Z}e^{4,1} \\
& + \mathcal{Z}e^{2,2}\mathcal{Z}e^{3,1} + 2\big(\mathcal{Z}e^{3,1}\big)^{2}\Big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,1}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,3,2,2} = \ & \Big(\mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,3} + 2\mathcal{Z}e^{2,1}\mathcal{Z}e^{3,2} + 2\mathcal{Z}e^{2,1}\mathcal{Z}e^{2,3} - \big(\mathcal{Z}e^{2,2}\big)^{2} \\
& - 2\mathcal{Z}e^{2,2}\mathcal{Z}e^{3,1}\Big)\mathcal{T}e^{2} + \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,2}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,4,1,2} = \ & \Big(2\mathcal{Z}e^{2,1,4,1} - 2\mathcal{Z}e^{2,1}\mathcal{Z}e^{2,3} - 4\mathcal{Z}e^{2,1}\mathcal{Z}e^{3,2} - 6\mathcal{Z}e^{2,1}\mathcal{Z}e^{4,1} + 4\mathcal{Z}e^{2,2}\mathcal{Z}e^{3,1} + \big(\mathcal{Z}e^{2,2}\big)^{2} \\
& + 4\big(\mathcal{Z}e^{3,1}\big)^{2}\Big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{2,1}\big)^{2}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,1,1,4} = &\big(\mathcal{Z}e^{2,2,1,3}+\mathcal{Z}e^{2,2,2,2}+\mathcal{Z}e^{2,2,3,1}+2\mathcal{Z}e^{2,3,1,2}+2\mathcal{Z}e^{2,3,2,1}+3\mathcal{Z}e^{2,4,1,1}+2\mathcal{Z}e^{3,2,1,2}\\&+2\mathcal{Z}e^{3,2,2,1}+4\mathcal{Z}e^{3,3,1,1}+\mathcal{Z}e^{4,1,1,2}+3\mathcal{Z}e^{4,2,1,1}+\mathcal{Z}e^{2}\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^{2}\\&-\big(\mathcal{Z}e^{2,2,1,2}+\mathcal{Z}e^{2,2,2,1}+2\mathcal{Z}e^{2,3,1,1}+2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^{3}+\mathcal{Z}e^{2,2,1,1}\mathcal{T}e^{4}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,1,2,3} = &-\big(2\mathcal{Z}e^{2,2,1,3}+\mathcal{Z}e^{2,2,2,2}+2\mathcal{Z}e^{2,3,1,2}+\mathcal{Z}e^{3,2,1,2}-\mathcal{Z}e^{2}\mathcal{Z}e^{3,2,1}+\mathcal{Z}e^{3}\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^{2}\\&+\mathcal{Z}e^{2,2,1,2}\mathcal{T}e^{3}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,1,3,2} = &\big(\mathcal{Z}e^{2,2,1,3}+\mathcal{Z}e^{2,3,1,2}-\mathcal{Z}e^{2}\mathcal{Z}e^{2,2,2}-\mathcal{Z}e^{2}\mathcal{Z}e^{2,3,1}-2\mathcal{Z}e^{2}\mathcal{Z}e^{3,2,1}+2\mathcal{Z}e^{3}\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^{2}\\&+\mathcal{Z}e^{2}\mathcal{Z}e^{2,2,1}\mathcal{T}e^{3}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,2,2,1,3} = &-\big(\mathcal{Z}e^{2,2,2,2}+2\mathcal{Z}e^{2,2,3,1}+2\mathcal{Z}e^{2,3,2,1}-\mathcal{Z}e^{3,1,2,2}+2\mathcal{Z}e^{3,2,2,1}-\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,2}\\&-\mathcal{Z}e^{3,1}\mathcal{Z}e^{2,2}\big)\mathcal{T}e^{2}+\mathcal{Z}e^{2,2,2,1}\mathcal{T}e^{3}\ .\end{aligned}$$

$$\mathcal{T}e^{2,2,2,2,2} = \Big(2\mathcal{Z}e^{2,2,2,2}+2\mathcal{Z}e^{2}\mathcal{Z}e^{2,2,2}+\big(\mathcal{Z}e^{2,2}\big)^{2}\Big)\mathcal{T}e^{2}\ .$$

$$\begin{aligned}\mathcal{T}e^{2,2,3,1,2} = &\Big(\mathcal{Z}e^{2,1,3,2}+\mathcal{Z}e^{2,2,3,1}+\mathcal{Z}e^{2}\mathcal{Z}e^{2,1,3}+2\mathcal{Z}e^{2,1}\mathcal{Z}e^{2,3}+2\mathcal{Z}e^{2,1}\mathcal{Z}e^{3,2}-\big(\mathcal{Z}e^{2,2}\big)^{2}\\&-2\mathcal{Z}e^{2,2}\mathcal{Z}e^{3,1}\Big)\mathcal{T}e^{2}-\mathcal{Z}e^{2,1}\mathcal{Z}e^{2,2}\mathcal{T}e^{3}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,1,1,3} = &-\big(\mathcal{Z}e^{2,3,1,2}+\mathcal{Z}e^{2,3,2,1}+3\mathcal{Z}e^{2,4,1,1}-\mathcal{Z}e^{3,1,1,3}+2\mathcal{Z}e^{3,3,1,1}+\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,2}+\mathcal{Z}e^{2}\mathcal{Z}e^{3,2,1}\\&+3\mathcal{Z}e^{2}\mathcal{Z}e^{4,1,1}-2\mathcal{Z}e^{3}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^{2}+\big(\mathcal{Z}e^{2,3,1,1}-\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^{3}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,1,2,2} = &\big(\mathcal{Z}e^{2,2,1,3}+\mathcal{Z}e^{2,3,1,2}-\mathcal{Z}e^{2}\mathcal{Z}e^{2,2,2}-\mathcal{Z}e^{2}\mathcal{Z}e^{2,3,1}-2\mathcal{Z}e^{2}\mathcal{Z}e^{3,2,1}+2\mathcal{Z}e^{3}\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^{2}\\&-\mathcal{Z}e^{2}\mathcal{Z}e^{2,2,1}\mathcal{T}e^{3}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,3,2,1,2} = &\big(\mathcal{Z}e^{2,1,2,3}+\mathcal{Z}e^{2,3,2,1}-2\mathcal{Z}e^{2}\mathcal{Z}e^{2,1,3}-\mathcal{Z}e^{2}\mathcal{Z}e^{2,2,2}-2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,2}+2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,2}\\&-\mathcal{Z}e^{2,1}\mathcal{Z}e^{2,3}\big)\mathcal{T}e^{2}-\mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2}\mathcal{T}e^{3}\ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{2,4,1,1,2} = \ & \big(\mathcal{Z}e^{2,4,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,3} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,2,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,3,1} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,2} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,2,1} \\ & +3\mathcal{Z}e^{2}\mathcal{Z}e^{4,1,1} + \mathcal{Z}e^{2,1,1,4} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,2} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,2,1} - 4\mathcal{Z}e^{3}\mathcal{Z}e^{3,1,1} \\ & +3\mathcal{Z}e^{4}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{3} \\ & +\mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1}\mathcal{T}e^{4} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,1,4} = \ & \big(\mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{3,1,2,2} + \mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + \mathcal{Z}e^{3,3,1,1} + 2\mathcal{Z}e^{4,1,1,2} \\ & +2\mathcal{Z}e^{4,1,2,1} + 2\mathcal{Z}e^{4,2,1,1} + 2\mathcal{Z}e^{5,1,1,1}\big)\mathcal{T}e^{2} \\ & +\big(-4\mathcal{Z}e^{4,1,1,1} - \mathcal{Z}e^{3,1,1,2} - \mathcal{Z}e^{3,1,2,1} - \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{3,1,1,1}\mathcal{T}e^{4} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,2,3} = \ & -\big(2\mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,1,} + \mathcal{Z}e^{3,2,2,1} + 2\mathcal{Z}e^{3,3,1,1} + 3\mathcal{Z}e^{4,1,1,2} + 3\mathcal{Z}e^{4,2,1,1} \\ & +\mathcal{Z}e^{3}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^{2} + \big(\mathcal{Z}e^{3,1,1,2} - \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^{3} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,1,3,2} = \ & -\big(\mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,3,2,1} + 3\mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,3,1,1} - \mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,1,2} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,2,1} \\ & +3\mathcal{Z}e^{2}\mathcal{Z}e^{4,1,1} - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{2,3,1,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^{3} \ .\end{aligned}$$

$$\mathcal{T}e^{3,1,2,1,3} = -\Big(2\mathcal{Z}e^{3,1,2,2} + 4\mathcal{Z}e^{3,1,3,1} + 2\mathcal{Z}e^{3,2,2,1} + 6\mathcal{Z}e^{4,1,2,1} - \big(\mathcal{Z}e^{3,1}\big)^{2}\Big)\,\mathcal{T}e^{2} \ .$$

$$\begin{aligned}\mathcal{T}e^{3,1,2,2,2} = \ & -\big(\mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,2,1} - \mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,2,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{3,1,2} \\ & -\mathcal{Z}e^{2,2}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,2,2,1}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,1,3,1,2} = \ & -\Big(\mathcal{Z}e^{2,1,3,2} + 3\mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{3,1,3,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{3,2} - 3\mathcal{Z}e^{2,1}\mathcal{Z}e^{4,1} \\ & +\mathcal{Z}e^{2,2}\mathcal{Z}e^{3,1} + 2\big(\mathcal{Z}e^{3,1}\big)^{2}\Big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,1}\mathcal{Z}e^{3,1}\big)\mathcal{T}e^{3} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,2,1,1,3} = \ & -\big(2\mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + 2\mathcal{Z}e^{3,3,1,1} + 3\mathcal{Z}e^{4,1,1,2} + 3\mathcal{Z}e^{4,2,1,1} \\ & +\mathcal{Z}e^{3}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{3,1,1,2} - \mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^{3} \ .\end{aligned}$$

$$\begin{aligned}\mathcal{T}e^{3,2,1,2,2} = \ & -\big(2\mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{3,2,1,2} - \mathcal{Z}e^{2}\mathcal{Z}e^{3,2,1} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^{2} \\ & -\mathcal{Z}e^{2,2,1,2}\mathcal{T}e^{3} \ .\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,2,2,1,2} = & -\big(2\mathcal{Z}e^{2,1,2,3} + 2\mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{3,1,2,2} - \mathcal{Z}e^{3,2,2,1} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,2} \\
& + \mathcal{Z}e^{2,1}\mathcal{Z}e^{3,2}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,2,2}\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{3,3,1,1,2} = & -\big(3\mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,2,1,3} + 2\mathcal{Z}e^{3,1,1,3}\mathcal{Z}e^{3,3,1,1} - \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,2} - \mathcal{Z}e^{3}\mathcal{Z}e^{2,2,1} \\
& - 2\mathcal{Z}e^{3}\mathcal{Z}e^{3,1,1} + 3\mathcal{Z}e^{4}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} - \big(\mathcal{Z}e^{2,1,1,3} - \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{3} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,1,1,3} = & \big(\mathcal{Z}e^{3,1,1,3} + \mathcal{Z}e^{3,1,2,2} + \mathcal{Z}e^{3,1,3,1} + \mathcal{Z}e^{3,2,1,2} + \mathcal{Z}e^{3,2,2,1} + \mathcal{Z}e^{3,3,1,1} + 2\mathcal{Z}e^{4,1,1,2} \\
& + 2\mathcal{Z}e^{4,1,2,1} + 2\mathcal{Z}e^{4,2,1,1} + 2\mathcal{Z}e^{5,1,1,1}\big)\mathcal{T}e^{2} \\
& + \big(4\mathcal{Z}e^{4,1,1,1} + \mathcal{Z}e^{3,2,1,1} + \mathcal{Z}e^{3,1,2,1} + \mathcal{Z}e^{3,1,1,2}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{3,1,1,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,1,2,2} = & \big(\mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,2,3,1} + 2\mathcal{Z}e^{2,3,1,2} + 2\mathcal{Z}e^{2,3,2,1} + 3\mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,2,1,2} \\
& + 2\mathcal{Z}e^{3,2,2,1} + 4\mathcal{Z}e^{3,3,1,1} + \mathcal{Z}e^{4,1,1,2} + 3\mathcal{Z}e^{4,2,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{4,1,1}\big)\mathcal{T}e^{2} \\
& + \big(\mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + 2\mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,2,1,1}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2,2,1,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,1,2,1,2} = & \big(\mathcal{Z}e^{2,1,2,3} + 2\mathcal{Z}e^{2,1,3,2} + 3\mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,2,2} + 2\mathcal{Z}e^{2,2,3,1} + \mathcal{Z}e^{2,3,2,1} + 2\mathcal{Z}e^{3,1,2,2} \\
& + 4\mathcal{Z}e^{3,1,3,1} + 2\mathcal{Z}e^{3,2,2,1} + 4\mathcal{Z}e^{4,1,2,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{4,1}\big)\mathcal{T}e^{2} \\
& + \big(2\mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,2,2,1} + 2\mathcal{Z}e^{3,1,2,1} + \big)\mathcal{T}e^{3} + \mathcal{Z}e^{2,1,2,1}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{4,2,1,1,2} = & \big(3\mathcal{Z}e^{2,1,1,4} + 2\mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,3,2} + 2\mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,3,1,2} + 4\mathcal{Z}e^{3,1,1,3} \\
& + 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,2,1,2} + 3\mathcal{Z}e^{4,1,1,2} + \mathcal{Z}e^{4,2,1,1} + \mathcal{Z}e^{4}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} \\
& + \big(2\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,2,1,2} + 2\mathcal{Z}e^{3,1,1,2}\big)\mathcal{T}e^{3} + \mathcal{Z}e^{2,1,1,2}\mathcal{T}e^{4} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{5,1,1,1,2} = & -\big(\mathcal{Z}e^{2,1,1,4} + \mathcal{Z}e^{2,1,2,3} + \mathcal{Z}e^{2,1,3,2} + \mathcal{Z}e^{2,1,4,1} + \mathcal{Z}e^{2,2,1,3} + \mathcal{Z}e^{2,2,2,2} + \mathcal{Z}e^{2,2,3,1} \\
& + \mathcal{Z}e^{2,3,1,2} + \mathcal{Z}e^{2,3,2,1} + \mathcal{Z}e^{2,4,1,1} + 2\mathcal{Z}e^{3,1,1,3} + 2\mathcal{Z}e^{3,1,2,2} + 2\mathcal{Z}e^{3,1,3,1} + 2\mathcal{Z}e^{3,2,1,2} \\
& + 2\mathcal{Z}e^{3,2,2,1} + 2\mathcal{Z}e^{3,3,1,1} + 3\mathcal{Z}e^{4,1,1,2} + 3\mathcal{Z}e^{4,1,2,1} + 3\mathcal{Z}e^{4,2,1,1} + 3\mathcal{Z}e^{5,1,1,1}\big)\mathcal{T}e^{2} \\
& - \big(\mathcal{Z}e^{2,1,1,3} + \mathcal{Z}e^{2,1,2,2} + \mathcal{Z}e^{2,1,3,1} + \mathcal{Z}e^{2,2,1,2} + \mathcal{Z}e^{2,2,2,1} + \mathcal{Z}e^{2,3,1,1} + 2\mathcal{Z}e^{3,1,1,2} \\
& + 2\mathcal{Z}e^{3,1,2,1} + 2\mathcal{Z}e^{3,2,1,1} + 3\mathcal{Z}e^{4,1,1,1}\big)\mathcal{T}e^{3} \\
& - \big(\mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,1,2,1} + \mathcal{Z}e^{2,2,1,1} + 2\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{4} - \mathcal{Z}e^{2,1,1,1}\mathcal{T}e^{5} \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,1,1,4} = \ & \big(\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,1,1,2,2} + \mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} + \mathcal{Z}e^{2,1,3,1,1} \\
& + \mathcal{Z}e^{2,2,1,1,2} + \mathcal{Z}e^{2,2,1,2,1} + \mathcal{Z}e^{2,2,2,1,1} + \mathcal{Z}e^{2,3,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,2} + 2\mathcal{Z}e^{3,1,1,2,1} \\
& + 2\mathcal{Z}e^{3,1,2,1,1} + 2\mathcal{Z}e^{3,2,1,1,1} + 4\mathcal{Z}e^{4,1,1,1,1}\big)\mathcal{T}e^2 \\
& - \big(\mathcal{Z}e^{2,1,1,1,2} + \mathcal{Z}e^{2,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1} + \mathcal{Z}e^{2,2,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,1}\big)\mathcal{T}e^3 \\
& + \mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^4 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,1,2,3} = \ & \big(- 2\mathcal{Z}e^{2,1,1,1,3} - \mathcal{Z}e^{2,1,1,2,2} - \mathcal{Z}e^{2,1,2,1,2} - \mathcal{Z}e^{2,2,1,1,2} - 2\mathcal{Z}e^{3,1,1,1,2} + \mathcal{Z}e^{3,2,1,1,1} \\
& - \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1,1,2}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,1,3,2} = \ & \big(\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,3,1,1,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,2,1,1} \\
& - 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1,1} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1,1}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,2,1,3} = \ & - \big(\mathcal{Z}e^{2,1,1,2,2} + 2\mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,2,2,1} + \mathcal{Z}e^{2,2,1,2,1} + 2\mathcal{Z}e^{3,1,1,2,1} - \mathcal{Z}e^{3,1,2,1,1} \\
& - \mathcal{Z}e^{3,1}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1,2,1}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\mathcal{T}e^{2,1,1,2,2,2} = \big(\mathcal{Z}e^{2,1,1,2,2} + \mathcal{Z}e^{2,2,2,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,2}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^2 \ .$$

$$\begin{aligned}
\mathcal{T}e^{2,1,1,3,1,2} = \ & \big(\mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,3,1,1} + \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{2,1}\mathcal{Z}e^{3,1,1} \\
& - \mathcal{Z}e^{2,2}\mathcal{Z}e^{2,1,1} - 2\mathcal{Z}e^{3,1}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^2 - \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,1}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\begin{aligned}
\mathcal{T}e^{2,1,2,1,1,3} = \ & - \big(\mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} + 2\mathcal{Z}e^{2,1,3,1,1} + \mathcal{Z}e^{2,2,2,1,1} - \mathcal{Z}e^{3,1,1,2,1} + 2\mathcal{Z}e^{3,1,2,1,1} \\
& + \mathcal{Z}e^{2,1}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,2,1,1}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\mathcal{T}e^{2,1,2,1,2,2} = \big(\mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,2,1,2,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,2,1,2} = \big(2\mathcal{Z}e^{2,1,2,2,1} - 2\mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,2}\big)\mathcal{T}e^2 \ .$$

$$\begin{aligned}
\mathcal{T}e^{2,1,3,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,3,1,1} + \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,2} + \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,2,1} + 2\mathcal{Z}e^{2,1}\mathcal{Z}e^{3,1,1} \\
& - \mathcal{Z}e^{2,2}\mathcal{Z}e^{2,1,1} - 2\mathcal{Z}e^{3,1}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,1}\mathcal{T}e^3 \ .
\end{aligned}$$

$$\mathcal{T}e^{2,2,1,1,1,3} = -\big(\mathcal{Z}e^{2,2,1,1,2} + \mathcal{Z}e^{2,2,1,2,1} + \mathcal{Z}e^{2,2,2,1,1} + 2\mathcal{Z}e^{2,3,1,1,1} - \mathcal{Z}e^{3,1,1,1,2} + 2\mathcal{Z}e^{3,2,1,1,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{2} + \mathcal{Z}e^{2,2,1,1,1}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{2,2,1,1,2,2} = \big(2\mathcal{Z}e^{2,2,1,1,2} + 2\mathcal{Z}e^{2}\mathcal{Z}e^{2,2,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{2,2,1,2,1,2} = \big(\mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,2,1,2,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,2,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{2,2,2,1,1,2} = \big(\mathcal{Z}e^{2,1,1,2,2} + \mathcal{Z}e^{2,2,2,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1,2} + \mathcal{Z}e^{2,2}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{2,3,1,1,1,2} = \big(\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,3,1,1,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1,2} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,2,1} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,2,1,1} - 2\mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1,1} + 2\mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2}\mathcal{Z}e^{2,1,1,1}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{3,1,1,1,1,3} = -\big(2\mathcal{Z}e^{3,1,1,1,2} + 2\mathcal{Z}e^{3,1,1,2,1} + 2\mathcal{Z}e^{3,1,2,1,1} + 2\mathcal{Z}e^{3,2,1,1,1} + 6\mathcal{Z}e^{4,1,1,1,1}\big)\mathcal{T}e^{2} \ .$$

$$\mathcal{T}e^{3,1,1,1,2,2} = -\big(\mathcal{Z}e^{2,2,1,1,2} + \mathcal{Z}e^{2,2,1,2,1} + \mathcal{Z}e^{2,2,2,1,1} + 2\mathcal{Z}e^{2,3,1,1,1} - \mathcal{Z}e^{3,1,1,1,2} + 2\mathcal{Z}e^{3,2,1,1,1} + \mathcal{Z}e^{2}\mathcal{Z}e^{3,1,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,2,1,1,1}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{3,1,1,2,1,2} = -\big(\mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} + 2\mathcal{Z}e^{2,1,3,1,1} + \mathcal{Z}e^{2,2,2,1,1} - \mathcal{Z}e^{3,1,1,2,1} + 2\mathcal{Z}e^{3,1,2,1,1} + \mathcal{Z}e^{2,1}\mathcal{Z}e^{3,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,2,1,1}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{3,1,2,1,1,2} = -\big(\mathcal{Z}e^{2,1,1,2,2} + 2\mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,2,2,1} + \mathcal{Z}e^{2,2,1,2,1} + 2\mathcal{Z}e^{3,1,1,2,1} - \mathcal{Z}e^{3,1,2,1,1} - \mathcal{Z}e^{3,1}\mathcal{Z}e^{2,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,1,2,1}\mathcal{T}e^{3} \ .$$

$$\mathcal{T}e^{3,2,1,1,1,2} = -\big(2\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,1,1,2,2} + \mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,2,1,1,2} + 2\mathcal{Z}e^{3,1,1,1,2} - \mathcal{Z}e^{3,2,1,1,1} + \mathcal{Z}e^{3}\mathcal{Z}e^{2,1,1,1}\big)\mathcal{T}e^{2} - \mathcal{Z}e^{2,1,1,1,2}\mathcal{T}e^{3} \ .$$

$$\begin{aligned}\mathcal{T}e^{4,1,1,1,1,2} = \ & \big(\mathcal{Z}e^{2,1,1,1,3} + \mathcal{Z}e^{2,1,1,2,2} + \mathcal{Z}e^{2,1,1,3,1} + \mathcal{Z}e^{2,1,2,1,2} + \mathcal{Z}e^{2,1,2,2,1} + \mathcal{Z}e^{2,1,3,1,1} \\ & + \mathcal{Z}e^{2,2,1,1,2} + \mathcal{Z}e^{2,2,1,2,1} + \mathcal{Z}e^{2,2,2,1,1} + \mathcal{Z}e^{2,3,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,2} + 2\mathcal{Z}e^{3,1,1,2,1} \\ & + 2\mathcal{Z}e^{3,1,2,1,1} + 2\mathcal{Z}e^{3,2,1,1,1} + 4\mathcal{Z}e^{4,1,1,1,1}\big)\mathcal{T}e^{2} \\ & + \big(\mathcal{Z}e^{2,1,1,1,2} + \mathcal{Z}e^{2,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1} + \mathcal{Z}e^{2,2,1,1,1} + 2\mathcal{Z}e^{3,1,1,1,1}\big)\mathcal{T}e^{3} \\ & + \mathcal{Z}e^{2,1,1,1,1}\mathcal{T}e^{4} \ .\end{aligned}$$

$$\mathcal{T}e^{2,1,1,1,1,1,1,3} = -\big(\mathcal{Z}e^{2,1,1,1,1,1,2} + \mathcal{Z}e^{2,1,1,1,1,2,1} + \mathcal{Z}e^{2,1,1,1,2,1,1} + \mathcal{Z}e^{2,1,1,2,1,1,1} + \mathcal{Z}e^{2,1,2,1,1,1,1} + \mathcal{Z}e^{2,2,1,1,1,1,1} + \mathcal{Z}e^{3,1,1,1,1,1,1}\big)\mathcal{T}e^2 + \mathcal{Z}e^{2,1,1,1,1,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,2,2} = \big(\mathcal{Z}e^{2,1,1,1,1,1,2} + \mathcal{Z}e^{2,2,1,1,1,1,1} + \mathcal{Z}e^2\mathcal{Z}e^{2,1,1,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,2,1,2} = \big(\mathcal{Z}e^{2,1,1,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1,1,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,1,1,2,1,1,2} = \Big(2\mathcal{Z}e^{2,1,1,1,2,1,1} + \big(\mathcal{Z}e^{2,1,1}\big)^2\Big)\,\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,1,2,1,1,1,1,2} = \big(\mathcal{Z}e^{2,1,1,1,1,2,1} + \mathcal{Z}e^{2,1,2,1,1,1,1} - \mathcal{Z}e^{2,1}\mathcal{Z}e^{2,1,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{2,2,1,1,1,1,1,2} = \big(\mathcal{Z}e^{2,1,1,1,1,1,2} + \mathcal{Z}e^{2,2,1,1,1,1,1} + \mathcal{Z}e^2\mathcal{Z}e^{2,1,1,1,1,1}\big)\mathcal{T}e^2 \ .$$

$$\mathcal{T}e^{3,1,1,1,1,1,1,2} = -\big(\mathcal{Z}e^{2,1,1,1,1,1,2} + \mathcal{Z}e^{2,1,1,1,1,2,1} + \mathcal{Z}e^{2,1,1,1,2,1,1} + \mathcal{Z}e^{2,1,1,2,1,1,1} + \mathcal{Z}e^{2,1,2,1,1,1,1} + \mathcal{Z}e^{2,2,1,1,1,1,1} + \mathcal{Z}e^{3,1,1,1,1,1,1}\big)\mathcal{T}e^2 - \mathcal{Z}e^{2,1,1,1,1,1,1}\mathcal{T}e^3 \ .$$

$$\mathcal{T}e^{2,1,1,1,1,1,1,1,2} = 2\mathcal{Z}e^{2,1,1,1,1,1,1,1}\mathcal{T}e^2 \ .$$

Tables des multitangentes divergentes, jusqu'au poids 10 .

Bientôt disponible.

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