

Pensieve header: The Drinfel'd-Kohno algebra and associators.

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SetDirectory["C:\\drorbn\\AcademicPensieve\\2015-02"];  

<< ..Projects/WKO4/FreeLie.m  

<< DrinfeldKohno.m

FreeLie` implements / extends
{*, +, **, $SeriesShowDegree, <>, ∫, ≡, ad, Ad, adSeries, AllCyclicWords,
AllLyndonWords, AllWords, ASeries, AW, b, BCH, BooleanSequence, BracketForm,
BS, CC, Crop, CW, CWS, CWSeries, D, Deg, DegreeScale, DerivationSeries, div, DK,
EulerE, Exp, Inverse, j, J, JA, LieDerivation, LieMorphism, LieSeries, LS, LW,
LyndonFactorization, New, RandomCWSeries, Randomizer, RandomLieSeries, RC, SeriesSolve,
Support, tb, TopBracketForm, tr, UndeterminedCoefficients, Γ, ↷, ↸, ↹, ↺}.

DrinfeldKohno` in FreeLie` implements / extends {DK, DKS, Morphism, t, σ}.
```

DK (Drinfel'd-Kohno Elements)

```
b[t[1, 2], t[1, 3]]  

DK[3, LW[1, 2]]  
  

b[t[1, 2], t[1, 3]] + b[t[1, 2], t[2, 3]]  

0  
  

b[DK[2, LW[1]], DK[4, LW[2, 2, 3] + LW[2, 3, 3]]] // InputForm  

DK[4, -LW[1, 2, 2, 3] - LW[1, 2, 3, 3] + LW[1, 3, 2, 2] - 2*LW[1, 3, 2, 3] - LW[1, 3, 3, 2] + LW[1, 2, 3, 3]]
```

σ

```
t[1, 2] // σ[1, 34]  

DK[3, LW[1]] + DK[4, LW[1]]  
  

t[1, 2] // σ[4, 3]  

DK[4, LW[3]]  
  

DK[3, LW[1, 2]] // σ[1, 2, 34]  

DK[3, LW[1, 2]] + DK[4, LW[1, 2]]
```

DKSeries

```
DKS[b[t[1, 2] + t[2, 3], t[3, 4]]]  

DKS[0, -t₂₄ t₃₄, 0, ...]  
  

DKS[b[t[1, 2] + t[2, 3], t[3, 4]] // σ[2, 1, 3, 4]]  

DKS[0, -t₁₄ t₃₄, 0, ...]
```

```

DKS[b[t[1, 2] + t[2, 3], t[3, 4]] // σ[1, 2, 3, 45]
DKS[0, - $\overline{t_{24} t_{34}} - \overline{t_{25} t_{35}}$ , 0, ...]

DKS[3, αs]
DKS[ $\overline{t_{12}} \alpha s[2, 1] + \overline{t_{13}} \alpha s[3, 1] + \overline{t_{23}} \alpha s[3, 2]$ ,
 $\overline{t_{13} t_{23}} \alpha s[3, 1, 2], \overline{t_{13} \overline{t_{13} t_{23}}} \alpha s[3, 1, 1, 2] + \overline{t_{13} \overline{t_{23} t_{23}}} \alpha s[3, 1, 2, 2]$ , ...]

DKS[t[1, 2]]
DKS[ $\overline{t_{12}}$ , 0, 0, ...]

```

Morphisms LS → DKS

```

BCH[DKS[t[1, 3]], DKS[t[2, 3]]]@{5}
DKS[ $\overline{t_{13}} + \overline{t_{23}}$ ,  $\frac{1}{2} \overline{t_{13} t_{23}}$ ,  $\frac{1}{12} \overline{t_{13} \overline{t_{23} t_{23}}}$  +  $\frac{1}{12} \overline{t_{13} \overline{t_{13} t_{23}}}$ ,  $\frac{1}{24} \overline{t_{13} \overline{t_{13} \overline{t_{23} t_{23}}}}$ ,
-  $\frac{1}{720} \overline{\overline{t_{13} \overline{t_{23} t_{23}} t_{23}}}$  +  $\frac{1}{360} \overline{\overline{t_{13} \overline{t_{13} t_{23}} t_{13} t_{23}}}$  +  $\frac{1}{120} \overline{\overline{t_{13} t_{23} \overline{t_{13} t_{23}} t_{23}}}$  +
 $\frac{1}{180} \overline{\overline{t_{13} \overline{t_{13} t_{23}} t_{23} t_{23}}}$  +  $\frac{1}{180} \overline{\overline{t_{13} t_{13} \overline{t_{13} t_{23}} t_{23}}}$  -  $\frac{1}{720} \overline{\overline{t_{13} t_{13} t_{13} \overline{t_{13} t_{23}}}}$ , ...]

DKS[t[1, 2]] // σ[12, 3]
DKS[ $\overline{t_{13}} + \overline{t_{23}}$ , 0, 0, ...]

DKS[t[1, 3]] ** DKS[t[2, 3]]
DKS[ $\overline{t_{13}} + \overline{t_{23}}$ ,  $\frac{1}{2} \overline{t_{13} t_{23}}$ ,  $\frac{1}{12} \overline{t_{13} \overline{t_{23} t_{23}}}$  +  $\frac{1}{12} \overline{t_{13} \overline{t_{13} t_{23}}}$ , ...]

```

Associators

```

φs[2, 1] = φs[3, 1] = φs[3, 2] = 0; φs[3, 1, 2] = -1/24;
{Φ = DKS[3, φs], R = DKS[t[1, 2]/2]};
HFEqn = (Φ ** (Φ // σ[3, 2, 1])) = DKS[0];
PentEqn =
(Φ ** (Φ // σ[1, 23, 4]) ** (Φ // σ[2, 3, 4])) ≡ ((Φ // σ[12, 3, 4]) ** (Φ // σ[1, 2, 34]));
BS[3 True, 2  $\overline{1 \overline{2} \overline{3}}$  φs[3, 1, 2, 2] +  $\overline{1 \overline{3} \overline{2}}$  φs[3, 1, 2, 2] == 0, ...]

SeriesSolve[Φ, HFEqn && PentEqn];
Φ@{6}

```

Arbitrator called on $\{\phi s[3, 1, 1, 2]\} \dots$

Arbitrator called on $\{\phi s[3, 1, 1, 1, 1, 2]\} \dots$

$$\begin{aligned} & \text{DKS}\left[0, -\frac{1}{24} \overline{t_{13} t_{23}}, 0, -\frac{7 \overline{\overline{t_{13} t_{23}} \overline{t_{23} t_{23}}}}{5760} + \frac{7 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23}}}}{5760} - \frac{\overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{23}}}}{1440}, 0, \right. \\ & -\frac{31 \overline{\overline{t_{13} t_{23}} \overline{t_{23} t_{23}} \overline{t_{23} t_{23}}}}{967680} + \frac{157 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23} t_{13}}}}{1935360} + \frac{31 \overline{t_{13} \overline{t_{23}} \overline{t_{13} t_{23} t_{23} t_{23}}}}{387072} + \\ & \frac{31 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23} t_{23} t_{23}}}}{483840} - \frac{11 \overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{23} t_{13} t_{23}}}}{290304} - \frac{31 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23} t_{23}}}}{725760} - \\ & \frac{83 \overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{23} t_{23} t_{23}}}}{967680} + \frac{13 \overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{13} t_{23}}}}{241920} - \frac{\overline{t_{13} \overline{t_{13} t_{13} t_{13}} \overline{t_{13} t_{23}}}}{60480}, \dots \right] \end{aligned}$$

#@{8}

Arbitrator called on $\{\phi s[3, 1, 1, 1, 1, 1, 1, 2]\} \dots$

Arbitrator called on $\{\phi s[3, 1, 1, 1, 1, 1, 2, 1, 2]\} \dots$

$$\begin{aligned} & \text{DKS}\left[0, -\frac{1}{24} \overline{t_{13} t_{23}}, 0, -\frac{7 \overline{\overline{t_{13} t_{23}} \overline{t_{23} t_{23}}}}{5760} + \frac{7 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23}}}}{5760} - \frac{\overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{23}}}}{1440}, 0, \right. \\ & -\frac{31 \overline{\overline{t_{13} t_{23}} \overline{t_{23} t_{23}} \overline{t_{23} t_{23}}}}{967680} + \frac{157 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23} t_{13}}}}{1935360} + \frac{31 \overline{t_{13} \overline{t_{23}} \overline{t_{13} t_{23} t_{23} t_{23}}}}{387072} + \\ & \frac{31 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23} t_{23} t_{23}}}}{483840} - \frac{11 \overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{23} t_{13} t_{23}}}}{290304} - \frac{31 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23} t_{23}}}}{725760} - \\ & \frac{83 \overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{23} t_{23} t_{23}}}}{967680} + \frac{13 \overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{13} t_{23}}}}{241920} - \frac{\overline{t_{13} \overline{t_{13} t_{13} t_{13}} \overline{t_{13} t_{23}}}}{60480}, \dots \right. \\ & 0, -\frac{127 \overline{t_{13} t_{23} \overline{t_{23} t_{23}} \overline{t_{23} t_{23}} \overline{t_{23}}}}{154828800} + \frac{503 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23} t_{13}} \overline{t_{23} t_{13}}}}{69672960} + \\ & \frac{71 \overline{t_{13} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23} t_{13}} \overline{t_{23}}}}{9289728} + \frac{127 \overline{t_{13} \overline{t_{23}} \overline{t_{23} t_{13}} \overline{t_{23} t_{23}} \overline{t_{23}}}}{22118400} + \\ & \frac{3613 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}} \overline{t_{23} t_{13}} \overline{t_{23}}}}{464486400} + \\ & \frac{7 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}}}}{737280} + \frac{107 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}} \overline{t_{13}}}}{29030400} - \\ & \frac{251 \overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{23} t_{23}} \overline{t_{23} t_{13}} \overline{t_{23}}}}{116121600} - \frac{881 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{13}} \overline{t_{23} t_{23}} \overline{t_{13}}}}{174182400} - \end{aligned}$$

$$\begin{aligned}
& \frac{209 \overline{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{51\,609\,600} + \frac{127 \overline{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{22\,118\,400} - \\
& \frac{199 \overline{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{21\,772\,800} + \frac{127 \overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{51\,609\,600} - \\
& \frac{367 \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{69\,672\,960} - \frac{6439 \overline{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{696\,729\,600} - \\
& \frac{25\,577 \overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}{1\,393\,459\,200} - \frac{55 \overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}{3\,981\,312} + \\
& \frac{163 \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}{58\,060\,800} + \frac{67 \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}{11\,612\,160} - \\
& \frac{2003 \overline{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{139\,345\,920} + \frac{673 \overline{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{43\,545\,600} - \\
& \frac{2399 \overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{464\,486\,400} + \frac{2693 \overline{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{348\,364\,800} + \\
& \frac{15\,859 \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{1\,393\,459\,200} + \frac{2893 \overline{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{464\,486\,400} - \\
& \frac{1007 \overline{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{348\,364\,800} - \frac{271 \overline{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{58\,060\,800} + \\
& \frac{19 \overline{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{9\,676\,800} - \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{2\,419\,200}, \dots
\end{aligned}$$

$(\Phi // \sigma[1, 3, 2]) @\{8\}$

$$\begin{aligned}
& \text{DKS}\left[0, \frac{1}{24} \overline{t_{13} t_{23}}, 0, \frac{\overline{t_{13} t_{23} t_{23} t_{23}}}{1440} - \frac{\overline{t_{13} t_{13} t_{23} t_{23}}}{5760} + \frac{\overline{t_{13} t_{13} t_{13} t_{23}}}{1440}, \right. \\
& 0, \frac{\overline{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{60\,480} - \frac{199 \overline{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{5\,806\,080} - \frac{19 \overline{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{1\,451\,520} - \\
& \left. \frac{\overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{80\,640} + \frac{17 \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}{1\,451\,520} + \frac{\overline{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}{725\,760} \right]
\end{aligned}$$

$$\begin{aligned}
& \frac{23 t_{13} t_{13} \overline{t_{13} t_{23} t_{23} t_{23}}}{967680} - \frac{t_{13} t_{13} \overline{t_{13} t_{23} t_{23}}}{80640} + \frac{t_{13} t_{13} \overline{t_{13} t_{13} t_{23}}}{60480}, \\
& 0, \frac{\overline{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{2419200} - \frac{2293 \overline{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{116121600} + \\
& \frac{173 \overline{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{23224320} + \frac{397 \overline{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{58060800} + \\
& \frac{11 t_{13} t_{13} \overline{t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}}{38707200} + \frac{181 t_{13} \overline{t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{19353600} - \\
& \frac{259 t_{13} t_{13} \overline{t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}{49766400} - \frac{293 t_{13} t_{13} \overline{t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}}{116121600} + \\
& \frac{t_{13} \overline{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{194400} - \frac{809 t_{13} \overline{t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{464486400} + \frac{t_{13} \overline{t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{483840} - \\
& \frac{19 t_{13} \overline{t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{5529600} - \frac{t_{13} \overline{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{1935360} + \frac{799 t_{13} \overline{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{69672960} - \\
& \frac{101 t_{13} \overline{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{43545600} + \frac{11279 t_{13} \overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{1393459200} + \\
& \frac{2929 t_{13} \overline{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{696729600} + \frac{67 t_{13} \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}{58060800} + \frac{t_{13} \overline{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}{2764800} - \\
& \frac{1399 t_{13} \overline{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{348364800} - \frac{1469 t_{13} \overline{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{348364800} + \\
& \frac{61 t_{13} \overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{58060800} - \frac{6191 t_{13} \overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{348364800} + \\
& \frac{5291 t_{13} \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}{1393459200} - \frac{499 t_{13} \overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{464486400} + \\
& \frac{t_{13} \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}{241920} - \frac{2131 t_{13} \overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}{348364800} + \\
& \frac{61 t_{13} \overline{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}}{58060800} - \frac{t_{13} \overline{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}}{1935360} + \frac{t_{13} \overline{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}}{2419200}, \dots
\end{aligned}$$

$\Phi @ \{10\}$

Arbitrator called on $\{\phi s[3, 1, 1, 1, 1, 1, 1, 1, 1, 2]\} \dots$

Arbitrator called on $\{\phi s[3, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2]\} \dots$

$$\begin{aligned}
 & \text{DKS}\left[0, -\frac{1}{24} \overline{t_{13} t_{23}}, 0, -\frac{7 \overline{\overline{t_{13} t_{23}} \overline{t_{23}} t_{23}}}{5760} + \frac{7 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23}}}}{5760} - \frac{\overline{t_{13} \overline{t_{13} t_{13}} \overline{t_{23}}}}{1440}, 0, \right. \\
 & -\frac{31 \overline{\overline{t_{13} t_{23}} \overline{t_{23}} t_{23} t_{23}}}{967680} + \frac{157 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{13} t_{23}}}{1935360} + \frac{31 \overline{t_{13} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}}}}{387072} + \\
 & \frac{31 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{23} t_{23}}}{483840} - \frac{11 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{13} t_{23}}}{290304} - \frac{31 \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}}}}{725760} - \\
 & \frac{83 t_{13} \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{23} t_{23}}}{967680} + \frac{13 t_{13} \overline{t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{23}}}{241920} - \frac{t_{13} \overline{t_{13} t_{13} \overline{t_{13} t_{23}}}}{60480}, \\
 & 0, -\frac{127 \overline{t_{13} t_{23} \overline{t_{23}} t_{23} t_{23} t_{23}}}{154828800} + \frac{503 t_{13} \overline{t_{13} t_{23} \overline{t_{23}} t_{13} t_{23} t_{13} t_{23}}}{69672960} + \\
 & \frac{71 \overline{t_{13} t_{23} \overline{t_{13} t_{23}} \overline{t_{23}} t_{13} t_{23} t_{23}}}{9289728} + \frac{127 \overline{t_{13} t_{23} \overline{t_{23}} t_{13} t_{23} t_{23} t_{23}}}{22118400} + \\
 & \frac{3613 t_{13} \overline{t_{13} t_{23} \overline{t_{23}} t_{23} t_{23} t_{13} t_{23}}}{464486400} + \frac{7 t_{13} \overline{t_{13} t_{23} \overline{t_{23}} t_{23} t_{13} t_{23} t_{23}}}{737280} + \\
 & \frac{107 t_{13} \overline{t_{13} t_{23} \overline{t_{13} t_{23}} \overline{t_{23}} t_{13} t_{23}}}{29030400} - \frac{251 t_{13} \overline{t_{13} t_{23} \overline{t_{23}} t_{13} t_{13} t_{23}}}{116121600} - \\
 & \frac{881 t_{13} \overline{t_{13} t_{23} \overline{t_{13} t_{13}} \overline{t_{23}} t_{13} t_{23} t_{13} t_{23}}}{174182400} - \frac{209 t_{13} \overline{t_{13} t_{23} \overline{t_{13} t_{13}} \overline{t_{23}} t_{23} t_{23}}}{51609600} + \\
 & \frac{127 \overline{t_{13} t_{23} \overline{t_{13} t_{23}} \overline{t_{23}} t_{23} t_{23} t_{23}}}{22118400} - \frac{199 \overline{t_{13} t_{23} \overline{t_{13} t_{13}} \overline{t_{23}} t_{13} t_{23} t_{23} t_{23}}}{21772800} + \\
 & \frac{127 t_{13} \overline{t_{13} t_{23} \overline{t_{23}} t_{23} t_{23} t_{23} t_{23}}}{51609600} - \frac{367 t_{13} \overline{t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{13} t_{23} t_{13} t_{23}}}{69672960} \\
 & \frac{6439 t_{13} \overline{t_{13} t_{23} \overline{t_{23}} t_{13} t_{23} t_{23} t_{23}}}{696729600} - \frac{25577 t_{13} \overline{t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{23} t_{13} t_{23}}}{1393459200} - \\
 & \frac{55 t_{13} \overline{t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{13} t_{23} t_{23}}}{3981312} + \frac{163 t_{13} \overline{t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} t_{13} t_{13} t_{23}}}{58060800} +
 \end{aligned}$$

$$\begin{aligned}
& \frac{67 t_{13} t_{13} \overline{t_{13} t_{23}} t_{13} \overline{t_{13} t_{23}} t_{23}}{11612160} - \frac{2003 t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} t_{23} \overline{t_{23} t_{23}}}{139345920} + \\
& \frac{673 t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} t_{13} \overline{t_{23} t_{23}}}{43545600} - \frac{2399 t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}}}{464486400} + \\
& \frac{2693 t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}}}{348364800} + \frac{15859 t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}}}{1393459200} + \\
& \frac{2893 t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}}}{464486400} - \frac{1007 t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}}}{348364800} - \\
& \frac{271 t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}}}{58060800} + \frac{19 t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23} t_{23}}}{9676800} - \frac{t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{13}} \overline{t_{13} t_{23}}}{2419200}, \\
& 0, - \frac{73 t_{13} \overline{t_{23}} \overline{t_{23}} t_{23} \overline{t_{23}} \overline{t_{23}} t_{23} \overline{t_{23}} \overline{t_{23}}}{3503554560} + \frac{117347 t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}}}{91968307200} + \\
& \frac{511 t_{13} \overline{t_{23}} \overline{t_{23}} \overline{t_{23}} t_{23} \overline{t_{23}} \overline{t_{23}} t_{23} \overline{t_{23}} \overline{t_{23}}}{1167851520} + \frac{1055083 t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} t_{23} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}}}{735746457600} + \\
& \frac{1023721 t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} t_{13} \overline{t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}}}{245248819200} + \frac{2510923 t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}}}{2207239372800} + \\
& \frac{199 t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}}}{232243200} - \frac{19847 t_{13} \overline{t_{13} t_{13}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}}}{91968307200} - \\
& \frac{66301 t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{23}}}{183936614400} + \frac{4561 t_{13} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}}}{1916006400} + \\
& \frac{23239 t_{13} \overline{t_{13} t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}}}{22295347200} + \frac{73 t_{13} \overline{t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{23}}}{145981440} - \\
& \frac{39043 t_{13} \overline{t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{23}}}{30656102400} + \frac{5947 t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}}}{11678515200} + \\
& \frac{4751 t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}}}{5839257600} + \frac{841 t_{13} \overline{t_{13} t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{23}} \overline{t_{13} t_{23}} \overline{t_{23}}}{875888640} +
\end{aligned}$$

$$\begin{aligned}
 & \frac{2437 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13} t_{23}}^{\text{---}}}{7431782400} + \frac{8269 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{6131220480} - \\
 & 206323 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{23} t_{13} t_{23}}^{\text{---}} - \frac{132277 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{183936614400} + \frac{122624409600}{122624409600} \\
 & 213901 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{23} t_{13} t_{23}}^{\text{---}} - \frac{85363 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{245248819200} \\
 & 41 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13} t_{23}}^{\text{---}} - \frac{2929 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{6812467200} \\
 & 3653 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} - \frac{94807 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}}}{245248819200} \\
 & 6049 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}} - \frac{2273 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}}}{16349921280} \\
 & 266111 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}} + \frac{863 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}}}{15328051200} + \\
 & 6679 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}} + \frac{199 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}}}{1277337600} - \\
 & 313739 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} - \frac{365903 t_{13} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{2207239372800} + \frac{183936614400}{183936614400} \\
 & 279221 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}} + \frac{350419 t_{13} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}}}{735746457600} - \\
 & 1973 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} + \frac{24961 t_{13} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}}}{3892838400} + \frac{61312204800}{61312204800} \\
 & 73 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} - \frac{320863 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23} t_{23}}^{\text{---}}}{259522560} + \frac{122624409600}{122624409600} \\
 & 19183 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} - \frac{238369 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23} t_{23}}^{\text{---}}}{11678515200} + \frac{147149291520}{147149291520}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{6445 t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{2675441664} + \frac{73 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{875888640} \\
 & - \frac{41 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}{1724405760} - \frac{79559 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{91968307200} \\
 & - \frac{36791 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{12262440960} - \frac{454001 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{147149291520} + \\
 & \frac{29173 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{147149291520} - \frac{20683 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{2874009600} \\
 & - \frac{88439 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{40874803200} - \frac{1464809 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}{735746457600} \\
 & - \frac{42221 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}{11496038400} - \frac{27367 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{13624934400} + \\
 & \frac{3851 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23}}{3832012800} + \frac{6289 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}{3185049600} - \\
 & + \frac{133009 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{122624409600} + \frac{30853 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}}{35035545600} + \\
 & - \frac{38989 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23}}{35035545600} + \frac{2629 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}}{4459069440} - \\
 & - \frac{311 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23}}{2554675200} - \frac{629 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23}}{1703116800} + \\
 & + \frac{352211 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}{183936614400} + \frac{19069 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}{13624934400} - \\
 & - \frac{631669 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{735746457600} - \frac{26947 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{22992076800} + \\
 & + \frac{14669 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{13138329600} + \frac{391 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}{87588864} -
 \end{aligned}$$

$$\begin{aligned}
& \frac{42709 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{45984153600} - \frac{1621 t_{13} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{6812467200} + \\
& \frac{172429 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{147149291520} + \frac{247139 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{147149291520} + \\
& \frac{152261 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{91968307200} + \frac{127823 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}}}{52553318400} + \\
& \frac{1547 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{547430400} - \frac{52153 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{61312204800} - \\
& \frac{1037 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}}}{1703116800} + \frac{16501 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{91968307200} - \\
& \frac{71 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{72990720} + \frac{55163 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{30656102400} - \\
& \frac{351163 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{147149291520} + \frac{12941 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{30656102400} + \\
& \frac{t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{14598144} - \frac{18811 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{45984153600} - \\
& \frac{91661 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{66886041600} - \frac{45701 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{91968307200} + \\
& \frac{569 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{7664025600} + \frac{3841 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{15328051200} - \\
& \frac{1117661 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{735746457600} + \frac{424531 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{735746457600} - \\
& \frac{2281 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}} \overbrace{t_{23} t_{23}}^{\text{---}}}{4541644800} + \frac{6187 t_{13} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{13}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}} \overbrace{t_{13} t_{23}}^{\text{---}}}{22992076800} +
\end{aligned}$$

$$\begin{aligned}
 & \frac{211187 t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} t_{13} t_{23} t_{23}}{245248819200} + \frac{6103 t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} t_{23} t_{23}}{15328051200} - \\
 & \frac{11903 t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} t_{13} t_{23} t_{23}}{45984153600} - \frac{59 t_{13} t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} t_{23} t_{23}}{283852800} + \\
 & \frac{5 t_{13} t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{23}} t_{23}}{76640256} - \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} \overline{t_{13} t_{23}}}{95800320}, \dots]
 \end{aligned}$$

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