

Pensieve header: A Drinfel'd associator to degree 10.

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\2015-02"];
<< ../Projects/WK04/FreeLie.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, DKS, EulerE, Exp, Inverse,
j, J, JA, LieDerivation, LieMorphism, LieSeries, LS, LW, LyndonFactorization,
Morphism, New, RandomCWSeries, Randomizer, RandomLieSeries, RC, SeriesSolve,
Support, t, tb, TopBracketForm, tr, UndeterminedCoefficients, Γ, ℓ, Λ, σ, ħ, ↦, ↷}.
```

## 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]]
```

## 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, -t24t34, 0, ...]
```

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

```
DKS[0, -t14t34, 0, ...]
```

**DKS[b[t[1, 2] + t[2, 3], t[3, 4]]] // σ[1, 2, 3, 45]**

DKS[0, -t<sub>24</sub>t<sub>34</sub> - t<sub>25</sub>t<sub>35</sub>, 0, ...]

**DKS[3, αs]**

DKS[t<sub>12</sub> αs[2, 1] + t<sub>13</sub> αs[3, 1] + t<sub>23</sub> αs[3, 2],  
t<sub>13</sub>t<sub>23</sub> αs[3, 1, 2], t<sub>13</sub>t<sub>13</sub>t<sub>23</sub> αs[3, 1, 1, 2] + t<sub>13</sub>t<sub>23</sub>t<sub>23</sub> αs[3, 1, 2, 2], ...]

**DKS[t[1, 2]]**

DKS[t<sub>12</sub>, 0, 0, ...]

## Morphisms LS → DKS

**BCH[DKS[t[1, 3]], DKS[t[2, 3]]]@{5}**

DKS[t<sub>13</sub> + t<sub>23</sub>,  $\frac{1}{2}$  t<sub>13</sub>t<sub>23</sub>,  $\frac{1}{12}$  t<sub>13</sub>t<sub>23</sub>t<sub>23</sub> +  $\frac{1}{12}$  t<sub>13</sub>t<sub>13</sub>t<sub>23</sub>,  $\frac{1}{24}$  t<sub>13</sub>t<sub>13</sub>t<sub>23</sub>t<sub>23</sub>,  
-  $\frac{1}{720}$  t<sub>13</sub>t<sub>23</sub>t<sub>23</sub>t<sub>23</sub>t<sub>23</sub> +  $\frac{1}{360}$  t<sub>13</sub>t<sub>13</sub>t<sub>23</sub>t<sub>13</sub>t<sub>23</sub> +  $\frac{1}{120}$  t<sub>13</sub>t<sub>23</sub>t<sub>13</sub>t<sub>23</sub>t<sub>23</sub> +  
 $\frac{1}{180}$  t<sub>13</sub>t<sub>13</sub>t<sub>23</sub>t<sub>23</sub>t<sub>23</sub> +  $\frac{1}{180}$  t<sub>13</sub>t<sub>13</sub>t<sub>13</sub>t<sub>23</sub>t<sub>23</sub> -  $\frac{1}{720}$  t<sub>13</sub>t<sub>13</sub>t<sub>13</sub>t<sub>13</sub>t<sub>23</sub>, ...]

**DKS[t[1, 2]] // σ[12, 3]**

DKS[t<sub>13</sub> + t<sub>23</sub>, 0, 0, ...]

**DKS[t[1, 3]] \*\* DKS[t[2, 3]]**

DKS[t<sub>13</sub> + t<sub>23</sub>,  $\frac{1}{2}$  t<sub>13</sub>t<sub>23</sub>,  $\frac{1}{12}$  t<sub>13</sub>t<sub>23</sub>t<sub>23</sub> +  $\frac{1}{12}$  t<sub>13</sub>t<sub>13</sub>t<sub>23</sub>, ...]

## 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 1 2 3 φs[3, 1, 2, 2] + 1 3 2 φs[3, 1, 2, 2] = 0, ...]

SeriesSolve[ϕ, HFEqn && PentEqn];

ϕ@{6}

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

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

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

**8@{8}**

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

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

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

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

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

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

$$\begin{aligned}
 & \frac{23 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{967\,680} - \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23}}}{80\,640} + \frac{t_{13} t_{13} \overbrace{t_{13} t_{13} t_{13} t_{23}}}{60\,480}, \\
 0, & \frac{\overbrace{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{2\,419\,200} - \frac{2293 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}{116\,121\,600} + \\
 & \frac{173 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{23\,224\,320} + \frac{397 \overbrace{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{58\,060\,800} + \\
 & \frac{11 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}}{38\,707\,200} + \frac{181 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}}{19\,353\,600} - \\
 & \frac{259 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}{49\,766\,400} - \frac{293 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}}{116\,121\,600} + \\
 & \frac{t_{13} \overbrace{t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}}{194\,400} - \frac{809 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}}{464\,486\,400} + \frac{t_{13} \overbrace{t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{483\,840} - \\
 & \frac{19 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{5\,529\,600} - \frac{t_{13} \overbrace{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{1\,935\,360} + \frac{799 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{69\,672\,960} - \\
 & \frac{101 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{43\,545\,600} + \frac{11\,279 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{1\,393\,459\,200} + \\
 & \frac{2929 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{696\,729\,600} + \frac{67 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}{58\,060\,800} + \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{2\,764\,800} - \\
 & \frac{1399 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{348\,364\,800} - \frac{1469 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{348\,364\,800} + \\
 & \frac{61 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{58\,060\,800} - \frac{6191 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{348\,364\,800} + \\
 & \frac{5291 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{1\,393\,459\,200} - \frac{499 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{464\,486\,400} + \\
 & \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}{241\,920} - \frac{2131 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}{348\,364\,800} + \\
 & \frac{61 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{58\,060\,800} - \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}}{1\,935\,360} + \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}}{2\,419\,200}, \dots ]
 \end{aligned}$$

$\mathbb{Z}\langle 10 \rangle$

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

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

$$\begin{aligned}
 &DKS\left[0, -\frac{1}{24} \overline{\overline{\overline{\overline{\overline{t_{13} t_{23}}}}}}}, 0, -\frac{7 \overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{23} t_{23}}}}}}}}{5760} + \frac{7 \overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{23}}}}}}}}{5760} - \frac{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23}}}}}}}}{1440}, 0, \right. \\
 &-\frac{31 \overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}}}}}}}}}{967\,680} + \frac{157 \overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}}}}}}}}}{1\,935\,360} + \frac{31 \overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}}}}}}}}}{387\,072} \\
 &-\frac{31 \overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}}}}}}}}}{483\,840} - \frac{11 \overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}}}}}}}}}{290\,304} - \frac{31 \overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}}}}}}}}}{725\,760} - \\
 &\frac{83 \overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}}}}}}}}}{967\,680} + \frac{13 \overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}}}}}}}}}}{241\,920} - \frac{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}}}}}}}}}}{60\,480}, \\
 &0, -\frac{127 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}}}}}}}}}}}{154\,828\,800} + \frac{503 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}}}}}}}}}}}{69\,672\,960} + \\
 &\frac{71 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}}}}}}}}}}}{9\,289\,728} + \frac{127 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}}}}}}}}}}}{22\,118\,400} + \\
 &\frac{3613 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}}}}}}}}}}}}{464\,486\,400} + \frac{7 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}}}}}}}}}}}}{737\,280} + \\
 &\frac{107 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}}}}}}}}}}}{29\,030\,400} - \frac{251 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}}}}}}}}}}}}{116\,121\,600} - \\
 &\frac{881 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}}}}}}}}}}}}{174\,182\,400} - \frac{209 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}}}}}}}}}}}}{51\,609\,600} + \\
 &\frac{127 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}}}}}}}}}}}{22\,118\,400} - \frac{199 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}}}}}}}}}}}{21\,772\,800} + \\
 &\frac{127 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}}}}}}}}}}}{51\,609\,600} - \frac{367 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}}}}}}}}}}}{69\,672\,960} - \\
 &\frac{6439 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}}}}}}}}}}}{696\,729\,600} - \frac{25\,577 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}}}}}}}}}}}{1\,393\,459\,200} - \\
 &\frac{55 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}}}}}}}}}}}{3\,981\,312} + \frac{163 \overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}}}}}}}}}}}{58\,060\,800} +
 \end{aligned}$$

$$\begin{aligned}
 & \frac{67 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}{11\,612\,160} - \frac{2003 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{139\,345\,920} + \\
 & \frac{673 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{43\,545\,600} - \frac{2399 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{464\,486\,400} + \\
 & \frac{2693 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{348\,364\,800} + \frac{15\,859 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{1\,393\,459\,200} + \\
 & \frac{2893 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{464\,486\,400} - \frac{1007 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{348\,364\,800} - \\
 & \frac{271 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{58\,060\,800} + \frac{19 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}{9\,676\,800} - \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{2\,419\,200}, \\
 & 0, - \frac{73 t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{3\,503\,554\,560} + \frac{117\,347 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}{91\,968\,307\,200} + \\
 & \frac{511 t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{1\,167\,851\,520} + \frac{1\,055\,083 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}{735\,746\,457\,600} + \\
 & \frac{1\,023\,721 t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}{245\,248\,819\,200} + \frac{2\,510\,923 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}{2\,207\,239\,372\,800} + \\
 & \frac{199 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{232\,243\,200} - \frac{19\,847 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}{91\,968\,307\,200} - \\
 & \frac{66\,301 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}{183\,936\,614\,400} + \frac{4561 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}{1\,916\,006\,400} + \\
 & \frac{23\,239 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{22\,295\,347\,200} + \frac{73 t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{145\,981\,440} - \\
 & \frac{39\,043 t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{30\,656\,102\,400} + \frac{5947 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}{11\,678\,515\,200} + \\
 & \frac{4751 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}{5\,839\,257\,600} + \frac{841 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{875\,888\,640} +
 \end{aligned}$$

$$\begin{aligned}
 & \frac{2437 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{7431782400} + \frac{8269 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{6131220480} - \\
 & \frac{206323 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23}}}{183936614400} - \frac{132277 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}}{122624409600} + \\
 & \frac{213901 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}{122624409600} - \frac{85363 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}}}{245248819200} - \\
 & \frac{41 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{56770560} - \frac{2929 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{6812467200} - \\
 & \frac{3653 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{8758886400} - \frac{94807 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23}}}{245248819200} - \\
 & \frac{6049 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}}}{17517772800} - \frac{2273 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}}{16349921280} - \\
 & \frac{266111 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}}{735746457600} + \frac{863 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{13} t_{23}}}{15328051200} + \\
 & \frac{6679 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}{22992076800} + \frac{199 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{1277337600} - \\
 & \frac{313739 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{2207239372800} - \frac{365903 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{183936614400} - \\
 & \frac{279221 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{245248819200} + \frac{350419 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{735746457600} - \\
 & \frac{1973 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{3892838400} + \frac{24961 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{61312204800} + \\
 & \frac{73 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{259522560} - \frac{320863 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{122624409600} - \\
 & \frac{19183 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{11678515200} - \frac{238369 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{147149291520} +
 \end{aligned}$$

$$\begin{array}{r}
 \overline{6445 t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}} + \overline{73 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 2\ 675\ 441\ 664 \qquad \qquad \qquad 875\ 888\ 640 \\
 \\
 \overline{41 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}} - \overline{79\ 559 t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 1\ 724\ 405\ 760 \qquad \qquad \qquad 91\ 968\ 307\ 200 \\
 \\
 \overline{36\ 791 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}} - \overline{454\ 001 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}} \\
 \hline
 12\ 262\ 440\ 960 \qquad \qquad \qquad 147\ 149\ 291\ 520 \\
 \\
 \overline{29\ 173 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}} - \overline{20\ 683 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}} \\
 \hline
 147\ 149\ 291\ 520 \qquad \qquad \qquad 2\ 874\ 009\ 600 \\
 \\
 \overline{88\ 439 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}} - \overline{1\ 464\ 809 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}} \\
 \hline
 40\ 874\ 803\ 200 \qquad \qquad \qquad 735\ 746\ 457\ 600 \\
 \\
 \overline{42\ 221 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}} - \overline{27\ 367 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 11\ 496\ 038\ 400 \qquad \qquad \qquad 13\ 624\ 934\ 400 \\
 \\
 \overline{3851 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23}} + \overline{6289 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}} \\
 \hline
 3\ 832\ 012\ 800 \qquad \qquad \qquad 3\ 185\ 049\ 600 \\
 \\
 \overline{133\ 009 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}} + \overline{30\ 853 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 122\ 624\ 409\ 600 \qquad \qquad \qquad 35\ 035\ 545\ 600 \\
 \\
 \overline{38\ 989 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23}} + \overline{2629 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}} \\
 \hline
 35\ 035\ 545\ 600 \qquad \qquad \qquad 4\ 459\ 069\ 440 \\
 \\
 \overline{311 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23}} - \overline{629 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{23}} \\
 \hline
 2\ 554\ 675\ 200 \qquad \qquad \qquad 1\ 703\ 116\ 800 \\
 \\
 \overline{352\ 211 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}} + \overline{19\ 069 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 183\ 936\ 614\ 400 \qquad \qquad \qquad 13\ 624\ 934\ 400 \\
 \\
 \overline{631\ 669 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}} - \overline{26\ 947 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 735\ 746\ 457\ 600 \qquad \qquad \qquad 22\ 992\ 076\ 800 \\
 \\
 \overline{14\ 669 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}} + \overline{391 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 13\ 138\ 329\ 600 \qquad \qquad \qquad 87\ 588\ 864
 \end{array}$$

$$\begin{aligned}
 & \frac{42\,709\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{23}}{45\,984\,153\,600} - \frac{1621\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{23}\, t_{23}\, t_{23}}{6812\,467\,200} + \\
 & \frac{172\,429\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{13}\, t_{23}\, t_{13}\, t_{23}}{147\,149\,291\,520} + \frac{247\,139\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{23}\, t_{13}\, t_{23}\, t_{23}}{147\,149\,291\,520} + \\
 & \frac{152\,261\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{23}}{91\,968\,307\,200} + \frac{127\,823\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{23}\, t_{13}\, t_{23}}{52\,553\,318\,400} + \\
 & \frac{1547\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{13}\, t_{23}\, t_{23}}{547\,430\,400} - \frac{52\,153\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{23}\, t_{13}\, t_{23}}{61\,312\,204\,800} - \\
 & \frac{1037\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{13}\, t_{13}\, t_{23}}{1\,703\,116\,800} + \frac{16\,501\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}}{91\,968\,307\,200} - \\
 & \frac{71\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{23}}{72\,990\,720} + \frac{55\,163\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{23}}{30\,656\,102\,400} - \\
 & \frac{351\,163\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{23}\, t_{23}}{147\,149\,291\,520} + \frac{12\,941\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{23}\, t_{23}}{30\,656\,102\,400} + \\
 & \frac{t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{13}\, t_{23}}{14\,598\,144} - \frac{18\,811\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{13}\, t_{23}\, t_{23}\, t_{23}}{45\,984\,153\,600} - \\
 & \frac{91\,661\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{13}\, t_{23}}{66\,886\,041\,600} - \frac{45\,701\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{13}\, t_{23}\, t_{23}}{91\,968\,307\,200} + \\
 & \frac{569\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{13}\, t_{23}}{7\,664\,025\,600} + \frac{3841\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{13}\, t_{23}\, t_{23}}{15\,328\,051\,200} - \\
 & \frac{1\,117\,661\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{23}}{735\,746\,457\,600} + \frac{424\,531\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{13}\, t_{23}\, t_{23}}{735\,746\,457\,600} - \\
 & \frac{2281\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{23}\, t_{23}\, t_{23}}{4\,541\,644\,800} + \frac{6187\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{13}\, t_{23}\, t_{23}\, t_{13}\, t_{23}}{22\,992\,076\,800} +
 \end{aligned}$$

$$\frac{211\,187\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{23}}{245\,248\,819\,200} + \frac{6103\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{23}}{15\,328\,051\,200} -$$

$$\frac{11\,903\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}}{45\,984\,153\,600} - \frac{59\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}}{283\,852\,800} +$$

$$\frac{5\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}}{76\,640\,256} - \frac{t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}}{95\,800\,320}, \dots]$$

**TimeUsed[] / 3600**

8.06263

**(# // σ[1, 3, 2])@{10}**

$$\text{DKS}[0, \frac{1}{24} t_{13} t_{23}, 0, \frac{t_{13} t_{23} t_{23} t_{23}}{1440} - \frac{t_{13} t_{13} t_{23} t_{23}}{5760} + \frac{t_{13} t_{13} t_{13} t_{23}}{1440},$$

$$0, \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{60\,480} - \frac{199\,t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{5\,806\,080} - \frac{19\,t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{1\,451\,520} -$$

$$\frac{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{80\,640} + \frac{17\,t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{1\,451\,520} + \frac{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{725\,760} +$$

$$\frac{23\,t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{967\,680} - \frac{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}{80\,640} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{60\,480},$$

$$0, \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{2\,419\,200} - \frac{2293\,t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}{116\,121\,600} +$$

$$\frac{173\,t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{23\,224\,320} + \frac{397\,t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{58\,060\,800} +$$

$$\frac{11\,t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}{38\,707\,200} + \frac{181\,t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}{19\,353\,600} -$$

$$\frac{259\,t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}{49\,766\,400} - \frac{293\,t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}{116\,121\,600} +$$

$$\frac{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}{194\,400} - \frac{809\,t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}{464\,486\,400} + \frac{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{483\,840} -$$

$$\begin{aligned}
 & \frac{19 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{5\,529\,600} - \frac{\overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{1\,935\,360} + \frac{\overbrace{799 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{69\,672\,960} - \\
 & \frac{101 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{43\,545\,600} + \frac{11\,279 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{1\,393\,459\,200} + \\
 & \frac{2929 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{696\,729\,600} + \frac{67 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}{58\,060\,800} + \frac{\overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{2\,764\,800} - \\
 & \frac{1399 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{348\,364\,800} - \frac{1469 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{348\,364\,800} + \\
 & \frac{61 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{58\,060\,800} - \frac{6191 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{348\,364\,800} + \\
 & \frac{5291 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{1\,393\,459\,200} - \frac{499 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{464\,486\,400} + \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{241\,920} - \frac{2131 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}{348\,364\,800} + \\
 & \frac{61 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{58\,060\,800} - \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}}{1\,935\,360} + \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}}{2\,419\,200} , \\
 & 0, \frac{\overbrace{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{95\,800\,320} - \frac{287\,129 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{275\,904\,921\,600} + \\
 & \frac{769 \overbrace{t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{1\,532\,805\,120} - \frac{130\,651 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}{245\,248\,819\,200} - \\
 & \frac{6551 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}{6\,569\,164\,800} - \frac{153\,359 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}{275\,904\,921\,600} + \\
 & \frac{4087 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{81\,749\,606\,400} + \frac{22\,619 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}{91\,968\,307\,200} + \\
 & \frac{310\,309 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}}{735\,746\,457\,600} + \frac{7019 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}}{3\,065\,610\,240} +
 \end{aligned}$$

$$\begin{aligned}
 & \frac{53\,791 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{45\,984\,153\,600} + \frac{113 \overbrace{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{232\,243\,200} - \\
 & \frac{4933 \overbrace{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{3\,832\,012\,800} + \frac{5 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}}{51\,093\,504} + \\
 & \frac{979 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}}{1\,393\,459\,200} + \frac{481 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{510\,935\,040} - \\
 & \frac{599\,747 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{735\,746\,457\,600} + \frac{1193 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{7\,357\,464\,576} + \\
 & \frac{320\,183 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23}}}{183\,936\,614\,400} - \frac{70\,283 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}}{245\,248\,819\,200} - \\
 & \frac{111\,079 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}{245\,248\,819\,200} - \frac{1171 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}}}{3\,284\,582\,400} - \\
 & \frac{329 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{4\,777\,574\,400} - \frac{678\,541 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{735\,746\,457\,600} - \\
 & \frac{13\,957 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{40\,874\,803\,200} - \frac{113 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23}}}{1\,362\,493\,440} - \\
 & \frac{58\,483 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}}}{245\,248\,819\,200} + \frac{27\,233 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}}{66\,886\,041\,600} + \\
 & \frac{42\,223 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}}{49\,049\,763\,840} + \frac{347 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{13} t_{23}}}{2\,189\,721\,600} - \\
 & \frac{1301 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}{11\,496\,038\,400} + \frac{1481 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{7\,664\,025\,600} + \\
 & \frac{2\,939\,197 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{2\,207\,239\,372\,800} + \\
 & \frac{903\,641 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{735\,746\,457\,600} + \frac{96\,319 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{245\,248\,819\,200} -
 \end{aligned}$$

$$\begin{array}{r}
 \overline{69\,413\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}} \\
 \hline
 81\,749\,606\,400
 \end{array}
 -
 \begin{array}{r}
 \overline{17\,827\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 245\,248\,819\,200
 \end{array}
 +$$

$$\begin{array}{r}
 \overline{120\,737\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 367\,873\,228\,800
 \end{array}
 +
 \begin{array}{r}
 \overline{t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 9\,123\,840
 \end{array}
 +$$

$$\begin{array}{r}
 \overline{28\,103\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}} \\
 \hline
 245\,248\,819\,200
 \end{array}
 -
 \begin{array}{r}
 \overline{18\,503\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 30\,656\,102\,400
 \end{array}
 -$$

$$\begin{array}{r}
 \overline{16\,073\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 22\,992\,076\,800
 \end{array}
 -
 \begin{array}{r}
 \overline{26\,183\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 68\,976\,230\,400
 \end{array}
 -$$

$$\begin{array}{r}
 \overline{t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 54\,743\,040
 \end{array}
 +
 \begin{array}{r}
 \overline{1087\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}} \\
 \hline
 1\,254\,113\,280
 \end{array}
 +$$

$$\begin{array}{r}
 \overline{12\,241\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 45\,984\,153\,600
 \end{array}
 +
 \begin{array}{r}
 \overline{72\,593\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}} \\
 \hline
 61\,312\,204\,800
 \end{array}
 +$$

$$\begin{array}{r}
 \overline{61\,903\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}} \\
 \hline
 105\,106\,636\,800
 \end{array}
 +
 \begin{array}{r}
 \overline{179\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}} \\
 \hline
 3\,027\,763\,200
 \end{array}
 +$$

$$\begin{array}{r}
 \overline{3469\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}} \\
 \hline
 16\,349\,921\,280
 \end{array}
 -
 \begin{array}{r}
 \overline{25\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 153\,280\,512
 \end{array}
 +$$

$$\begin{array}{r}
 \overline{22\,909\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}} \\
 \hline
 147\,149\,291\,520
 \end{array}
 +
 \begin{array}{r}
 \overline{228\,083\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}} \\
 \hline
 735\,746\,457\,600
 \end{array}
 +$$

$$\begin{array}{r}
 \overline{58\,187\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 122\,624\,409\,600
 \end{array}
 -
 \begin{array}{r}
 \overline{389\ t_{13}\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}} \\
 \hline
 239\,500\,800
 \end{array}
 +$$

$$\begin{array}{r}
 \overline{52\,919\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}} \\
 \hline
 183\,936\,614\,400
 \end{array}
 +
 \begin{array}{r}
 \overline{14\,459\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}} \\
 \hline
 61\,312\,204\,800
 \end{array}
 -$$

$$\begin{array}{r}
 \overline{2473\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}} \\
 \hline
 30\,656\,102\,400
 \end{array}
 -
 \begin{array}{r}
 \overline{8719\ t_{13}\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}} \\
 \hline
 22\,295\,347\,200
 \end{array}
 -$$

$$\begin{array}{r}
 \overline{4633\ t_{13}\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}} \\
 \hline
 11\,678\,515\,200
 \end{array}
 -
 \begin{array}{r}
 \overline{533\ t_{13}\ t_{13}\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{13}\ t_{23}} \\
 \hline
 7\,664\,025\,600
 \end{array}
 -$$

$$\frac{1643 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{23}}{15\ 328\ 051\ 200} - \frac{430\ 919 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{183\ 936\ 614\ 400}$$

$$\frac{1747 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{8\ 758\ 886\ 400} + \frac{659 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{735\ 746\ 457\ 600}$$

$$\frac{5359 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{45\ 984\ 153\ 600} + \frac{10\ 477 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{45\ 984\ 153\ 600}$$

$$\frac{673 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{3\ 406\ 233\ 600} - \frac{3631 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{91\ 968\ 307\ 200}$$

$$\frac{37 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{851\ 558\ 400} - \frac{603\ 373 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}{245\ 248\ 819\ 200}$$

$$\frac{1103 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{14\ 714\ 929\ 152} + \frac{11\ 333 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{105\ 106\ 636\ 800}$$

$$\frac{407\ 797 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}{735\ 746\ 457\ 600} - \frac{3233 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}{3\ 892\ 838\ 400}$$

$$\frac{51\ 223 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}{61\ 312\ 204\ 800} + \frac{11\ 437 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}{15\ 328\ 051\ 200}$$

$$\frac{43\ 979 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}{91\ 968\ 307\ 200} + \frac{1121 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}{5\ 109\ 350\ 400}$$

$$\frac{9421 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{245\ 248\ 819\ 200} + \frac{24\ 599 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{52\ 553\ 318\ 400}$$

$$\frac{139 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{2\ 189\ 721\ 600} + \frac{5 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}{4\ 866\ 048}$$

$$\frac{258\ 317 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{735\ 746\ 457\ 600} + \frac{576\ 193 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}{735\ 746\ 457\ 600}$$

$$\begin{aligned}
 & \frac{3817 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{8\,360\,755\,200} - \frac{1031 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}{7\,664\,025\,600} + \\
 & \frac{299 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}{1\,703\,116\,800} + \frac{7309 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{367\,873\,228\,800} - \\
 & \frac{74\,633 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{147\,149\,291\,520} + \frac{149 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{1\,946\,419\,200} - \\
 & \frac{1027 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{1\,045\,094\,400} + \frac{4343 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{49\,049\,763\,840} - \\
 & \frac{139 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{2\,189\,721\,600} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{4\,561\,920} - \\
 & \frac{13\,351 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{45\,984\,153\,600} + \frac{37 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{851\,558\,400} - \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}{54\,743\,040} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{95\,800\,320}, \dots ]
 \end{aligned}$$