

Pensieve header: Checking that $B(\Phi)$ indeed solves the braidor equations and solving for a fresh braidor. This time to degree 10.

```
SetDirectory["C:/drorbn/AcademicPensieve/Projects/Braidors"];
<< ../WKO4/FreeLie.m;
$SeriesShowDegree = 4;
Φs[2, 1] = Φs[3, 1] = Φs[3, 2] = 0; Φs[3, 1, 2] = 1/24; Φ₀ = DKS[3, Φs];
SeriesSolve[Φ₀, Φ₀σ[3,2,1] ≡ -Φ₀ && Φ₀ ** Φ₀σ[1,23,4] ** Φ₀σ[2,3,4] ≡ Φ₀σ[12,3,4] ** Φ₀σ[1,2,34]];
Φ₀@{6}
```

FreeLie` implements / extends

- {*, +, **, \$SeriesShowDegree, <>, ∫, ≡, ad, Ad, adSeries, AllCyclicWords, AllLyndonWords, AllWords, Arbitrator, ASeries, AW, b, BCH, BooleanSequence, BracketForm, BS, CC, Crop, cw, CW, CWS, CWSeries, D, Deg, DegreeScale, DerivationSeries, div, DK, DKS, DKSeries, 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, αMap, Γ, ℓ, Δ, σ, ħ, ⇐, ⇐}

FreeLie` is in the public domain. Dror Bar-Natan is committed to support it within reason until July 15, 2022. This is version 150814.

SeriesSolve::ArbitrarilySetting: In degree 3 arbitrarily setting {Φs[3, 1, 1, 2] → 0}.

SeriesSolve::ArbitrarilySetting: In degree 5 arbitrarily setting {Φs[3, 1, 1, 1, 2] → 0}.

$$DKS\left[0, \frac{1}{24} \overline{\overline{\overline{t_{13} t_{23}}}}, 0, -\frac{7}{5760} \overline{\overline{\overline{\overline{t_{13} t_{23} t_{23} t_{23}}}}} + \frac{7}{5760} \overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23}}}}} - \frac{t_{13} t_{13} t_{13} t_{23}}{1440}, \right.$$

$$0, \frac{31}{967680} \overline{\overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}}}}} - \frac{157}{1935360} \overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}}}}} - \frac{31}{387072} \overline{\overline{\overline{\overline{\overline{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}}}}} -$$

$$\frac{31}{483840} \overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}}} + \frac{11}{290304} \overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}}} + \frac{31}{725760} \overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}}} +$$

$$\frac{83}{967680} \overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}}} - \frac{13}{241920} \overline{\overline{\overline{\overline{\overline{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}}}} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{60480}, \dots]$$

$\Phi_0^{\sigma[1,2,3]}$

$$DKS\left[0, \frac{1}{24} \overline{\overline{\overline{t_{13} t_{23}}}}, 0, -\frac{7}{5760} \overline{\overline{\overline{\overline{t_{13} t_{23} t_{23} t_{23}}}}} + \frac{7}{5760} \overline{\overline{\overline{\overline{t_{13} t_{13} t_{23} t_{23}}}}} - \frac{t_{13} t_{13} t_{13} t_{23}}{1440}, \dots]$$

Braidors & weak associators: $B = \Phi^{012} R_u^{12} \Phi^{-021}$
 $B^{012} B^{02,1,3} B^{023} = B^{01,2,3} B^{013} B^{03,1,2}$.

$$R = \text{DKS}[t[1, 2] / 2];$$

$$B_0 = \mathfrak{B}_0^{\sigma[1,2,3]} ** R^{\sigma[2,3]} ** (-\mathfrak{B}_0)^{\sigma[1,3,2]}$$

$$\text{DKS}\left[\frac{\overline{t_{23}}}{2}, \frac{1}{12} \overline{t_{13} t_{23}}, 0, -\frac{\overline{\overline{t_{13} t_{23} t_{23} t_{23}}}}{5760} + \frac{1}{720} \overline{t_{13} \overline{t_{13} t_{23} t_{23}}} - \frac{1}{720} \overline{t_{13} t_{13} \overline{t_{13} t_{23}}}, \dots\right]$$

$$\text{lhs} = B_0^{\sigma[1,2,3]} ** B_0^{\sigma[13,2,4]} ** B_0^{\sigma[1,3,4]}$$

$$\begin{aligned} \text{DKS}\left[\frac{\overline{t_{23}}}{2} + \frac{\overline{t_{24}}}{2} + \frac{\overline{t_{34}}}{2}, \frac{1}{12} \overline{t_{13} t_{23}} + \frac{1}{12} \overline{t_{14} t_{24}} + \frac{1}{12} \overline{t_{14} t_{34}} + \frac{1}{24} \overline{t_{24} t_{34}}, 0, \right. \\ \left. -\frac{\overline{\overline{t_{13} t_{23} t_{23} t_{23}}}}{5760} - \frac{\overline{\overline{t_{14} t_{24} t_{24} t_{24}}}}{5760} + \frac{\overline{\overline{t_{14} t_{34} t_{24} t_{24}}}}{2880} + \frac{\overline{\overline{t_{14} t_{34} t_{34} t_{24}}}}{2880} - \frac{\overline{\overline{t_{14} t_{34} t_{34} t_{34}}}}{5760} \right. \\ \left. - \frac{7 \overline{\overline{t_{24} t_{34} t_{34} t_{34}}}}{5760} + \frac{\overline{\overline{t_{14} t_{24} t_{34} t_{24}}}}{1440} + \frac{1}{480} \overline{\overline{t_{14} t_{24} t_{14} t_{34}}} + \frac{1}{360} \overline{\overline{t_{14} t_{34} t_{24} t_{34}}} + \right. \\ \left. \frac{1}{720} \overline{t_{13} \overline{t_{13} t_{23} t_{23}}} - \frac{1}{720} \overline{t_{13} t_{13} \overline{t_{13} t_{23}}} + \frac{1}{720} \overline{t_{14} \overline{t_{14} t_{24} t_{24}}} + \frac{1}{360} \overline{t_{14} \overline{t_{14} t_{34} t_{24}}} + \right. \\ \left. \frac{1}{720} \overline{t_{14} \overline{t_{14} t_{34} t_{34}}} + \frac{1}{360} \overline{t_{14} \overline{t_{24} t_{34} t_{34}}} - \frac{1}{720} \overline{t_{14} t_{14} \overline{t_{14} t_{24}}} - \frac{1}{720} \overline{t_{14} t_{14} \overline{t_{14} t_{34}}} + \right. \\ \left. \frac{\overline{t_{14} t_{14} \overline{t_{24} t_{34}}}}{1440} - \frac{1}{576} \overline{t_{14} t_{24} \overline{t_{24} t_{34}}} + \frac{7 \overline{t_{24} \overline{t_{24} t_{34} t_{34}}}}{5760} - \frac{\overline{t_{24} t_{24} \overline{t_{24} t_{34}}}}{1440}, \dots\right] \end{aligned}$$

$$\text{rhs} = B_0^{\sigma[12,3,4]} ** B_0^{\sigma[1,2,4]} ** B_0^{\sigma[14,2,3]}$$

$$\begin{aligned} \text{DKS}\left[\frac{\overline{t_{23}}}{2} + \frac{\overline{t_{24}}}{2} + \frac{\overline{t_{34}}}{2}, \frac{1}{12} \overline{t_{13} t_{23}} + \frac{1}{12} \overline{t_{14} t_{24}} + \frac{1}{12} \overline{t_{14} t_{34}} + \frac{1}{24} \overline{t_{24} t_{34}}, 0, \right. \\ \left. -\frac{\overline{\overline{t_{13} t_{23} t_{23} t_{23}}}}{5760} - \frac{\overline{\overline{t_{14} t_{24} t_{24} t_{24}}}}{5760} + \frac{\overline{\overline{t_{14} t_{34} t_{24} t_{24}}}}{2880} + \frac{\overline{\overline{t_{14} t_{34} t_{34} t_{24}}}}{2880} - \frac{\overline{\overline{t_{14} t_{34} t_{34} t_{34}}}}{5760} \right. \\ \left. - \frac{7 \overline{\overline{t_{24} t_{34} t_{34} t_{34}}}}{5760} + \frac{\overline{\overline{t_{14} t_{24} t_{34} t_{24}}}}{1440} + \frac{1}{480} \overline{\overline{t_{14} t_{24} t_{14} t_{34}}} + \frac{1}{360} \overline{\overline{t_{14} t_{34} t_{24} t_{34}}} + \right. \\ \left. \frac{1}{720} \overline{t_{13} \overline{t_{13} t_{23} t_{23}}} - \frac{1}{720} \overline{t_{13} t_{13} \overline{t_{13} t_{23}}} + \frac{1}{720} \overline{t_{14} \overline{t_{14} t_{24} t_{24}}} + \frac{1}{360} \overline{t_{14} \overline{t_{14} t_{34} t_{24}}} + \right. \\ \left. \frac{1}{720} \overline{t_{14} \overline{t_{14} t_{34} t_{34}}} + \frac{1}{360} \overline{t_{14} \overline{t_{24} t_{34} t_{34}}} - \frac{1}{720} \overline{t_{14} t_{14} \overline{t_{14} t_{24}}} - \frac{1}{720} \overline{t_{14} t_{14} \overline{t_{14} t_{34}}} + \right. \\ \left. \frac{\overline{t_{14} t_{14} \overline{t_{24} t_{34}}}}{1440} - \frac{1}{576} \overline{t_{14} t_{24} \overline{t_{24} t_{34}}} + \frac{7 \overline{t_{24} \overline{t_{24} t_{34} t_{34}}}}{5760} - \frac{\overline{t_{24} t_{24} \overline{t_{24} t_{34}}}}{1440}, \dots\right] \end{aligned}$$

$$(\text{lhs} = \text{rhs}) @ \{6\}$$

$$\text{BS}[7 \text{ True}, \dots]$$

$$\text{Bs}[2, 1] = \text{Bs}[3, 1] = 0; \text{Bs}[3, 2] = 1/2; B_1 = \text{DKS}[3, \text{Bs}];$$

$$\text{SeriesSolve}[B_1, B_1^{\sigma[1,2,3]} ** B_1^{\sigma[13,2,4]} ** B_1^{\sigma[1,3,4]} \equiv B_1^{\sigma[12,3,4]} ** B_1^{\sigma[1,2,4]} ** B_1^{\sigma[14,2,3]}];$$

B₁@{6}

SeriesSolve::ArbitrarilySetting : In degree 3 arbitrarily setting {Bs[3, 1, 2, 2] → 0}.

SeriesSolve::ArbitrarilySetting : In degree 5 arbitrarily setting {Bs[3, 1, 1, 1, 2, 2] → 0}.

$$\begin{aligned}
 \text{DKS} \left[\frac{t_{23}}{2}, \frac{1}{12} t_{13} t_{23}, 0, -\frac{t_{13} t_{23} t_{23} t_{23}}{5760} + \frac{1}{720} t_{13} t_{13} t_{23} t_{23} - \frac{1}{720} t_{13} t_{13} t_{13} t_{23}, \right. \\
 -\frac{t_{13} t_{23} t_{23} t_{23} t_{23}}{7680} + \frac{t_{13} t_{23} t_{13} t_{23} t_{23}}{8640} + \frac{t_{13} t_{13} t_{23} t_{23} t_{23}}{3840}, \\
 \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{645120} - \frac{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{145152} - \frac{71 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{2903040} - \\
 \frac{23 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{483840} + \frac{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{20160} + \frac{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{22680} + \\
 \left. \frac{13 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{161280} - \frac{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}{15120} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{30240}, \dots \right]
 \end{aligned}$$

B₀@{6}

$$\begin{aligned}
 \text{DKS} \left[\frac{t_{23}}{2}, \frac{1}{12} t_{13} t_{23}, 0, -\frac{t_{13} t_{23} t_{23} t_{23}}{5760} + \frac{1}{720} t_{13} t_{13} t_{23} t_{23} - \frac{1}{720} t_{13} t_{13} t_{13} t_{23}, \right. \\
 -\frac{t_{13} t_{23} t_{23} t_{23} t_{23}}{7680} + \frac{t_{13} t_{23} t_{13} t_{23} t_{23}}{8640} + \frac{t_{13} t_{13} t_{23} t_{23} t_{23}}{3840}, \\
 \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{645120} - \frac{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{145152} - \frac{71 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{2903040} - \\
 \frac{23 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{483840} + \frac{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{20160} + \frac{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{22680} + \\
 \left. \frac{13 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{161280} - \frac{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}{15120} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{30240}, \dots \right]
 \end{aligned}$$

(B₀ ≡ B₁)@{7}

SeriesSolve::ArbitrarilySetting : In degree 7 arbitrarily setting {Φs[3, 1, 1, 1, 1, 1, 2] → 0}.

SeriesSolve::ArbitrarilySetting : In degree 7 arbitrarily setting {Bs[3, 1, 1, 1, 1, 1, 2, 2] → 0}.

BS[8 True, ...]

B₁@{10} // Timing

SeriesSolve::ArbitrarilySetting : In degree 8 arbitrarily setting {Bs[3, 1, 1, 1, 1, 2, 1, 2, 2] → 0}.

SeriesSolve::ArbitrarilySetting : In degree 9 arbitrarily setting {Bs[3, 1, 1, 1, 1, 1, 1, 1, 2, 2] → 0}.

SeriesSolve::ArbitrarilySetting : In degree 10 arbitrarily setting {Bs[3, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2, 2] → 0}.

General::stop : Further output of SeriesSolve::ArbitrarilySetting will be suppressed during this calculation. >>

$$\left\{ 45\,613.5, \text{DKS} \left[\frac{t_{23}}{2}, \frac{1}{12} t_{13} t_{23}, 0, -\frac{t_{13} t_{23} t_{23} t_{23}}{5760} + \frac{1}{720} t_{13} t_{13} t_{23} t_{23} - \frac{1}{720} t_{13} t_{13} t_{13} t_{23}, \right. \right. \\
 - \frac{t_{13} t_{23} t_{23} t_{23} t_{23}}{7680} + \frac{t_{13} t_{23} t_{13} t_{23} t_{23}}{8640} + \frac{t_{13} t_{13} t_{23} t_{23} t_{23}}{3840}, \\
 \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{645\,120} - \frac{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{145\,152} - \frac{71 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{2\,903\,040} - \\
 \frac{23 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{483\,840} + \frac{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{20\,160} + \frac{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{22\,680} + \\
 \frac{13 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{161\,280} - \frac{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}{15\,120} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{30\,240}, \\
 \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{258\,048} - \frac{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}{241\,920} - \frac{149 t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{11\,612\,160} - \\
 \frac{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}{40\,320} - \frac{41 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{2\,903\,040} + \frac{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}{181\,440} - \\
 \frac{25 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{1\,161\,216} + \frac{19 t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{967\,680} - \\
 \frac{5 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{387\,072} + \frac{7 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{207\,360} + \frac{5 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{193\,536} + \\
 \frac{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{64\,512} - \frac{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{725\,760} - \frac{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{96\,768}, \\
 - \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{77\,414\,400} + \frac{283 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}{29\,030\,400} - \\
 \frac{1811 t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{696\,729\,600} - \frac{4187 t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{1\,393\,459\,200} - \\
 \frac{61 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}{278\,691\,840} - \frac{2041 t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}{464\,486\,400} + \\
 \frac{367 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}{87\,091\,200} + \frac{157 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}{87\,091\,200} -
 \left. \right\}$$

$$\begin{aligned}
 & \frac{31 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}}{9\,676\,800} + \frac{31 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}}{58\,060\,800} - \\
 & \frac{59 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{92\,897\,280} + \frac{1171 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{464\,486\,400} + \\
 & \frac{587 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{464\,486\,400} - \frac{t_{13} \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{153\,600} - \\
 & \frac{6751 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{1\,393\,459\,200} - \frac{2369 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{174\,182\,400} - \\
 & \frac{787 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{87\,091\,200} + \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}{604\,800} + \frac{41 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{12\,441\,600} - \\
 & \frac{839 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{139\,345\,920} + \frac{133 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{12\,441\,600} - \\
 & \frac{253 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{66\,355\,200} + \frac{107 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{7\,257\,600} + \\
 & \frac{1231 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{174\,182\,400} + \frac{43 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{7\,257\,600} - \\
 & \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}{241\,920} - \frac{73 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{14\,515\,200} + \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{403\,200} - \\
 & \frac{t_{13} \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}}{1\,209\,600} - \frac{t_{13} \overbrace{t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{9\,830\,400} - \\
 & \frac{29 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{116\,121\,600} + \frac{2707 \overbrace{t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{1\,393\,459\,200} + \\
 & \frac{3827 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}{2\,090\,188\,800} + \frac{23 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}{34\,836\,480} - \\
 & \frac{t_{13} \overbrace{t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{1\,612\,800} + \frac{1703 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}}{167\,215\,104} +
 \end{aligned}$$

$$\begin{array}{r}
 \overline{131 \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} + \overline{577 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23}} + \\
 39 \ 813 \ 120 \qquad \qquad \qquad 232 \ 243 \ 200 \\
 \\
 \overline{1327 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} + \overline{3431 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23}} + \\
 278 \ 691 \ 840 \qquad \qquad \qquad 1 \ 114 \ 767 \ 360 \\
 \\
 \overline{t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23}} - \overline{713 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23}} - \\
 1 \ 612 \ 800 \qquad \qquad \qquad 209 \ 018 \ 880 \\
 \\
 \overline{59 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} - \overline{751 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23}} - \\
 87 \ 091 \ 200 \qquad \qquad \qquad 696 \ 729 \ 600 \\
 \\
 \overline{127 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{13} \ t_{23}} - \overline{43 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23}} + \\
 87 \ 091 \ 200 \qquad \qquad \qquad 49 \ 766 \ 400 \\
 \\
 \overline{t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23}} - \overline{379 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23}} - \\
 4 \ 838 \ 400 \qquad \qquad \qquad 174 \ 182 \ 400 \\
 \\
 \overline{691 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} + \overline{19 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} + \\
 348 \ 364 \ 800 \qquad \qquad \qquad 12 \ 441 \ 600 \\
 \\
 \overline{173 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} - \overline{769 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23}} - \\
 99 \ 532 \ 800 \qquad \qquad \qquad 418 \ 037 \ 760 \\
 \\
 \overline{14 \ 849 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} + \overline{137 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} + \\
 2 \ 090 \ 188 \ 800 \qquad \qquad \qquad 87 \ 091 \ 200 \\
 \\
 \overline{43 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} - \overline{t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23}} - \\
 88 \ 473 \ 600 \qquad \qquad \qquad 5 \ 529 \ 600 \\
 \\
 \overline{19 \ 349 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} - \overline{28 \ 289 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} - \\
 4 \ 180 \ 377 \ 600 \qquad \qquad \qquad 5 \ 573 \ 836 \ 800 \\
 \\
 \overline{14 \ 921 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23}} - \overline{19 \ 951 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} + \\
 2 \ 786 \ 918 \ 400 \qquad \qquad \qquad 2 \ 786 \ 918 \ 400 \\
 \\
 \overline{313 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23}} + \overline{373 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{13} \ t_{23}} - \\
 87 \ 091 \ 200 \qquad \qquad \qquad 174 \ 182 \ 400
 \end{array}$$

$$\begin{aligned}
 & \frac{17 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}{58\,060\,800} + \frac{977 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}{348\,364\,800} - \\
 & \frac{971 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{222\,953\,472} + \frac{19\,769 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{2\,786\,918\,400} - \\
 & \frac{91 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{88\,473\,600} - \frac{29 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}{58\,060\,800} + \\
 & \frac{353 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{557\,383\,680} + \frac{359 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}{116\,121\,600} + \\
 & \frac{53 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{87\,091\,200} - \frac{19 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}{58\,060\,800} + \\
 & \frac{121 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{30\,965\,760} - \frac{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{2\,488\,320} + \\
 & \frac{19 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{14\,745\,600} - \frac{107 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{87\,091\,200} - \\
 & \frac{697 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{348\,364\,800} - \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{1\,105\,920} + \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{2\,419\,200} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{2\,764\,800} , \\
 & \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{9\,809\,952\,768} + \frac{6047 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}{13\,795\,246\,080} + \\
 & \frac{2279 t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{367\,873\,228\,800} + \frac{409 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}{367\,873\,228\,800} + \\
 & \frac{1853 t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}{2\,724\,986\,880} + \frac{211\,511 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{437 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{1\,459\,814\,400} + \frac{29 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}{287\,400\,960} +
 \end{aligned}$$

$$\begin{aligned}
 & \frac{20\,773 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}^{\text{---}}}{91\,968\,307\,200} + \frac{12\,697 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}^{\text{---}}}{91\,968\,307\,200} + \\
 & \frac{3007 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}^{\text{---}}}{147\,149\,291\,520} + \frac{7967 \overbrace{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}^{\text{---}}}{183\,936\,614\,400} - \\
 & \frac{667 \overbrace{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}^{\text{---}}}{8\,360\,755\,200} + \frac{3461 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}^{\text{---}}}{735\,746\,457\,600} + \\
 & \frac{1493 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}^{\text{---}}}{16\,721\,510\,400} + \frac{289 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}^{\text{---}}}{91\,968\,307\,200} + \\
 & \frac{25\,393 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}^{\text{---}}}{122\,624\,409\,600} + \frac{14\,083 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}^{\text{---}}}{45\,984\,153\,600} + \\
 & \frac{2777 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23}}^{\text{---}}}{3\,284\,582\,400} + \frac{2687 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}^{\text{---}}}{61\,312\,204\,800} + \\
 & \frac{4237 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}^{\text{---}}}{8\,360\,755\,200} + \frac{3811 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}}^{\text{---}}}{18\,393\,661\,440} - \\
 & \frac{10\,999 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}^{\text{---}}}{45\,984\,153\,600} + \frac{7589 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}^{\text{---}}}{45\,984\,153\,600} - \\
 & \frac{41 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}^{\text{---}}}{1\,532\,805\,120} - \frac{257 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23}}^{\text{---}}}{13\,138\,329\,600} + \\
 & \frac{1207 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}}^{\text{---}}}{30\,656\,102\,400} + \frac{479 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}^{\text{---}}}{1\,916\,006\,400} + \\
 & \frac{241 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}^{\text{---}}}{656\,916\,480} + \frac{173 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{13} t_{23}}^{\text{---}}}{1\,916\,006\,400} - \\
 & \frac{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{9\,123\,840} + \frac{67 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}^{\text{---}}}{696\,729\,600} + \\
 & \frac{949 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}^{\text{---}}}{2\,299\,207\,680} + \frac{23\,251 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}^{\text{---}}}{91\,968\,307\,200} -
 \end{aligned}$$

$$\begin{array}{r}
 \overline{919 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} - \overline{37 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23}} + \\
 7 \ 664 \ 025 \ 600 \qquad \qquad \qquad 109 \ 486 \ 080 \\
 \\
 \overline{2371 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} - \overline{17 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23}} + \\
 122 \ 624 \ 409 \ 600 \qquad \qquad \qquad 5 \ 748 \ 019 \ 200 \\
 \\
 \overline{1447 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} - \overline{28 \ 363 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} - \\
 245 \ 248 \ 819 \ 200 \qquad \qquad \qquad 61 \ 312 \ 204 \ 800 \\
 \\
 \overline{251 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} - \overline{8081 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} + \\
 66 \ 886 \ 041 \ 600 \qquad \qquad \qquad 245 \ 248 \ 819 \ 200 \\
 \\
 \overline{9767 \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23}} - \overline{1129 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} + \\
 220 \ 723 \ 937 \ 280 \qquad \qquad \qquad 35 \ 035 \ 545 \ 600 \\
 \\
 \overline{821 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23}} + \overline{94 \ 999 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} + \\
 2 \ 554 \ 675 \ 200 \qquad \qquad \qquad 183 \ 936 \ 614 \ 400 \\
 \\
 \overline{11 \ 003 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23}} - \overline{989 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23}} - \\
 15 \ 328 \ 051 \ 200 \qquad \qquad \qquad 9 \ 196 \ 830 \ 720 \\
 \\
 \overline{251 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23}} + \overline{36 \ 247 \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} + \\
 4 \ 598 \ 415 \ 360 \qquad \qquad \qquad 13 \ 138 \ 329 \ 600 \\
 \\
 \overline{6269 \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23}} + \overline{296 \ 353 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23}} + \\
 6 \ 812 \ 467 \ 200 \qquad \qquad \qquad 367 \ 873 \ 228 \ 800 \\
 \\
 \overline{122 \ 707 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} + \overline{49 \ 697 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23}} - \\
 91 \ 968 \ 307 \ 200 \qquad \qquad \qquad 61 \ 312 \ 204 \ 800 \\
 \\
 \overline{31 \ t_{13} \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{13} \ t_{23}} - \overline{559 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{23}} - \\
 35 \ 481 \ 600 \qquad \qquad \qquad 408 \ 748 \ 032 \\
 \\
 \overline{1049 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{23} \ t_{13} \ t_{23} \ t_{23}} - \overline{2449 \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23}} - \\
 1 \ 703 \ 116 \ 800 \qquad \qquad \qquad 6 \ 131 \ 220 \ 480 \\
 \\
 \overline{7517 \ t_{13} \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{23} \ t_{13} \ t_{13} \ t_{23}} - \overline{707 \ t_{13} \ t_{13} \ t_{13} \ t_{13} \ t_{23} \ t_{23} \ t_{13} \ t_{13} \ t_{23} \ t_{23}} + \\
 11 \ 496 \ 038 \ 400 \qquad \qquad \qquad 1 \ 642 \ 291 \ 200
 \end{array}$$

$$\begin{array}{r}
 \overline{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23}} + \overline{11 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{23}} - \\
 19\,160\,064 \qquad \qquad \qquad 87\,091\,200 \\
 \\
 \overline{23 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}} - \overline{1217 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}} + \\
 11\,943\,936 \qquad \qquad \qquad 1\,642\,291\,200 \\
 \\
 \overline{733 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}} + \overline{45\,877 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} - \\
 1\,916\,006\,400 \qquad \qquad \qquad 91\,968\,307\,200 \\
 \\
 \overline{27\,703 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}} - \overline{96\,529 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}} + \\
 45\,984\,153\,600 \qquad \qquad \qquad 45\,984\,153\,600 \\
 \\
 \overline{7991 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}} + \overline{34\,747 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} - \\
 11\,496\,038\,400 \qquad \qquad \qquad 245\,248\,819\,200 \\
 \\
 \overline{563 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}} - \overline{3 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}} - \\
 261\,273\,600 \qquad \qquad \qquad 2\,252\,800 \\
 \\
 \overline{10\,973 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}} - \overline{303\,929 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}} - \\
 9\,196\,830\,720 \qquad \qquad \qquad 183\,936\,614\,400 \\
 \\
 \overline{12\,413 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}} + \overline{361 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}} + \\
 6\,812\,467\,200 \qquad \qquad \qquad 11\,496\,038\,400 \\
 \\
 \overline{1109 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}} + \overline{3583 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}} + \\
 1\,642\,291\,200 \qquad \qquad \qquad 11\,496\,038\,400 \\
 \\
 \overline{18\,829 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}} - \overline{26\,681 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}} + \\
 22\,992\,076\,800 \qquad \qquad \qquad 22\,992\,076\,800 \\
 \\
 \overline{317\,033 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}} - \overline{3349 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} + \\
 183\,936\,614\,400 \qquad \qquad \qquad 10\,218\,700\,800 \\
 \\
 \overline{2221 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}} + \overline{11\,953 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}} + \\
 3\,832\,012\,800 \qquad \qquad \qquad 36\,787\,322\,880
 \end{array}$$

$$\begin{aligned}
 & \frac{3583 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}{2\,090\,188\,800} + \frac{9103 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{11\,496\,038\,400} - \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}{4\,790\,016} - \frac{2567 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}{11\,496\,038\,400} + \\
 & \frac{27\,809 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{22\,992\,076\,800} - \frac{10\,063 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{11\,496\,038\,400} + \\
 & \frac{4001 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{8\,758\,886\,400} - \frac{221 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{212\,889\,600} - \\
 & \frac{7211 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{11\,496\,038\,400} - \frac{1571 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{3\,832\,012\,800} + \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{4\,561\,920} + \frac{299 t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{1\,277\,337\,600} - \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}{11\,975\,040} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{47\,900\,160}, \dots \}
 \end{aligned}$$

B₀@{10} // Timing

SeriesSolve::ArbitrarilySetting : In degree 8 arbitrarily setting {Φs[3, 1, 1, 1, 1, 2, 1, 2] → 0}.

SeriesSolve::ArbitrarilySetting : In degree 9 arbitrarily setting {Φs[3, 1, 1, 1, 1, 1, 1, 1, 2] → 0}.

SeriesSolve::ArbitrarilySetting : In degree 10 arbitrarily setting {Φs[3, 1, 1, 1, 1, 1, 1, 1, 2, 1, 2] → 0}.

General::stop : Further output of SeriesSolve::ArbitrarilySetting will be suppressed during this calculation. >>

$$\begin{aligned}
 & \{19\,522.5, \text{DKS} \left[\frac{t_{23}}{2}, \frac{1}{12} t_{13} t_{23}, 0, -\frac{t_{13} t_{23} t_{23} t_{23}}{5760} + \frac{1}{720} t_{13} t_{13} t_{23} t_{23} - \frac{1}{720} t_{13} t_{13} t_{13} t_{23}, \right. \\
 & - \frac{t_{13} t_{23} t_{23} t_{23} t_{23}}{7680} + \frac{t_{13} t_{23} t_{13} t_{23} t_{23}}{8640} + \frac{t_{13} t_{13} t_{23} t_{23} t_{23}}{3840}, \\
 & \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{645\,120} - \frac{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{145\,152} - \frac{71 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{2\,903\,040} - \\
 & \left. \frac{23 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{483\,840} + \frac{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{20\,160} + \frac{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{22\,680} + \right.
 \end{aligned}$$

$$\begin{aligned}
 & \frac{13 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{161\,280} - \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}}{15\,120} + \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}}{30\,240}, \\
 & \frac{\overbrace{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{258\,048} - \frac{\overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{241\,920} - \frac{149 \overbrace{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{11\,612\,160} - \\
 & \frac{\overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{40\,320} - \frac{41 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{2\,903\,040} + \frac{\overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{181\,440} - \\
 & \frac{25 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{1\,161\,216} + \frac{19 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{967\,680} - \\
 & \frac{5 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{387\,072} + \frac{7 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{207\,360} + \frac{5 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{193\,536} + \\
 & \frac{\overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{64\,512} - \frac{\overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}{725\,760} - \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{96\,768}, \\
 & - \frac{\overbrace{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{77\,414\,400} + \frac{1049 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}{58\,060\,800} - \\
 & \frac{4709 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{696\,729\,600} - \frac{10\,627 \overbrace{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{1\,393\,459\,200} - \\
 & \frac{2237 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}}{1\,393\,459\,200} - \frac{5261 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}}{464\,486\,400} + \\
 & \frac{2917 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}{348\,364\,800} + \frac{53 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}}}{14\,515\,200} - \\
 & \frac{601 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}}}{87\,091\,200} + \frac{223 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}}{116\,121\,600} - \\
 & \frac{3461 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{1\,393\,459\,200} + \frac{1249 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{154\,828\,800} + \\
 & \frac{587 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{464\,486\,400} - \frac{\overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{82\,944} - \\
 & \frac{8683 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{1\,393\,459\,200} - \frac{6187 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{348\,364\,800} -
 \end{aligned}$$

$$\begin{aligned}
 & \frac{4597 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}}{348\,364\,800} + \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}}{604\,800} + \\
 & \frac{7 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{1\,658\,880} - \frac{3229 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{696\,729\,600} + \\
 & \frac{739 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{49\,766\,400} - \frac{253 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{66\,355\,200} + \\
 & \frac{803 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}}{43\,545\,600} + \frac{1979 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}}{348\,364\,800} + \\
 & \frac{43 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}}{7\,257\,600} - \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}}{241\,920} + \frac{23 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}}{12\,441\,600} - \\
 & \frac{73 \overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}}{14\,515\,200} + \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}}{403\,200} - \frac{\overbrace{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}}{1\,209\,600}, \\
 & - \frac{\overbrace{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}}{9\,830\,400} - \frac{19 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}}{11\,612\,160} + \\
 & \frac{1439 \overbrace{t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}}{464\,486\,400} - \frac{5387 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}}{4\,180\,377\,600} - \\
 & \frac{253 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}}{55\,738\,368} - \frac{61 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}}{46\,448\,640} + \\
 & \frac{6431 \overbrace{t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}}{418\,037\,760} + \frac{977 \overbrace{t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}}{199\,065\,600} + \\
 & \frac{263 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}}{92\,897\,280} + \frac{9533 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}}{1\,393\,459\,200} + \\
 & \frac{5363 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}}{1\,114\,767\,360} - \frac{\overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23}}}{1\,612\,800} - \\
 & \frac{4301 \overbrace{t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}}{836\,075\,520} - \frac{5291 \overbrace{t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}}{1\,393\,459\,200} -
 \end{aligned}$$

$$\begin{array}{r}
 \overbrace{397 t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 278\ 691\ 840
 \end{array}
 -
 \begin{array}{r}
 \overbrace{223 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23}} \\
 \hline
 116\ 121\ 600
 \end{array}
 -$$

$$\begin{array}{r}
 \overbrace{11 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}} \\
 \hline
 8\ 294\ 400
 \end{array}
 +
 \begin{array}{r}
 \overbrace{t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{23}} \\
 \hline
 4\ 838\ 400
 \end{array}
 +$$

$$\begin{array}{r}
 \overbrace{17 t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}} \\
 \hline
 46\ 448\ 640
 \end{array}
 -
 \begin{array}{r}
 \overbrace{3247 t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 1\ 393\ 459\ 200
 \end{array}
 +$$

$$\begin{array}{r}
 \overbrace{7 t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}} \\
 \hline
 2\ 073\ 600
 \end{array}
 +
 \begin{array}{r}
 \overbrace{73 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 33\ 177\ 600
 \end{array}
 -$$

$$\begin{array}{r}
 \overbrace{769 t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 418\ 037\ 760
 \end{array}
 -
 \begin{array}{r}
 \overbrace{4799 t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 522\ 547\ 200
 \end{array}
 -$$

$$\begin{array}{r}
 \overbrace{353 t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}} \\
 \hline
 696\ 729\ 600
 \end{array}
 +
 \begin{array}{r}
 \overbrace{43 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 88\ 473\ 600
 \end{array}
 +$$

$$\begin{array}{r}
 \overbrace{497 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}} \\
 \hline
 49\ 766\ 400
 \end{array}
 -
 \begin{array}{r}
 \overbrace{1481 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}} \\
 \hline
 261\ 273\ 600
 \end{array}
 -$$

$$\begin{array}{r}
 \overbrace{13\ 723 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 1\ 857\ 945\ 600
 \end{array}
 -
 \begin{array}{r}
 \overbrace{2791 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}} \\
 \hline
 557\ 383\ 680
 \end{array}
 -$$

$$\begin{array}{r}
 \overbrace{20\ 917 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}} \\
 \hline
 2\ 786\ 918\ 400
 \end{array}
 +
 \begin{array}{r}
 \overbrace{3667 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}} \\
 \hline
 348\ 364\ 800
 \end{array}
 +$$

$$\begin{array}{r}
 \overbrace{89 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23}} \\
 \hline
 29\ 030\ 400
 \end{array}
 -
 \begin{array}{r}
 \overbrace{373 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23}} \\
 \hline
 174\ 182\ 400
 \end{array}
 +$$

$$\begin{array}{r}
 \overbrace{569 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 174\ 182\ 400
 \end{array}
 -
 \begin{array}{r}
 \overbrace{10\ 453 t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 1\ 857\ 945\ 600
 \end{array}
 +$$

$$\begin{array}{r}
 \overbrace{21\ 701 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 2\ 786\ 918\ 400
 \end{array}
 -
 \begin{array}{r}
 \overbrace{91 t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 88\ 473\ 600
 \end{array}
 -$$

$$\begin{array}{r}
 \overbrace{19 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}} \\
 \hline
 5\ 806\ 080
 \end{array}
 +
 \begin{array}{r}
 \overbrace{3697 t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 2\ 786\ 918\ 400
 \end{array}
 +$$

$$\begin{aligned}
 & \frac{61 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}}{696\,729\,600} - \frac{1669 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{696\,729\,600} + \\
 & \frac{47 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}}{348\,364\,800} + \frac{383 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}}{77\,414\,400} + \\
 & \frac{41 t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}}{12\,441\,600} + \frac{19 t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{14\,745\,600} + \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{1\,612\,800} - \frac{733 t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{232\,243\,200} - \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{1\,105\,920} + \frac{233 t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{174\,182\,400} + \\
 & \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{2\,764\,800} + \frac{t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{9\,809\,952\,768} + \\
 & \frac{184\,177 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}}{157\,659\,955\,200} + \frac{6133 t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}}{33\,443\,020\,800} + \\
 & \frac{34\,883 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}}{105\,106\,636\,800} + \frac{282\,937 t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}}{122\,624\,409\,600} + \\
 & \frac{3\,912\,793 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{7499 t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23}}{9\,083\,289\,600} + \\
 & \frac{6343 t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23}}{22\,992\,076\,800} + \frac{11\,113 t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}}{27\,249\,868\,800} + \\
 & \frac{209\,147 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}{183\,936\,614\,400} + \frac{51\,773 t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{105\,106\,636\,800} + \\
 & \frac{10\,237 t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}}{36\,787\,322\,880} - \frac{3353 t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}}{5\,255\,331\,840} + \\
 & \frac{89\,489 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}}{735\,746\,457\,600} + \frac{22\,969 t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}}{45\,984\,153\,600} +
 \end{aligned}$$

$$\begin{array}{r}
 \overline{32\,881\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}} + \overline{1499\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}} + \\
 91\,968\,307\,200 \qquad \qquad \qquad 3\,892\,838\,400 \\
 \\
 \overline{3389\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}} + \overline{6547\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}} - \\
 3\,678\,732\,288 \qquad \qquad \qquad 3\,284\,582\,400 \\
 \\
 \overline{803\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}} + \overline{343\,627\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}} + \\
 3\,185\,049\,600 \qquad \qquad \qquad 245\,248\,819\,200 \\
 \\
 \overline{4807\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}} - \overline{20\,197\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}} + \\
 13\,377\,208\,320 \qquad \qquad \qquad 26\,276\,659\,200 \\
 \\
 \overline{95\,567\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}} - \overline{2041\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} - \\
 735\,746\,457\,600 \qquad \qquad \qquad 8\,174\,960\,640 \\
 \\
 \overline{22\,619\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}} - \overline{563\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}} + \\
 245\,248\,819\,200 \qquad \qquad \qquad 9\,083\,289\,600 \\
 \\
 \overline{28\,069\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}} + \overline{169\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}} + \\
 45\,984\,153\,600 \qquad \qquad \qquad 212\,889\,600 \\
 \\
 \overline{793\ t_{13}\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{13}\ t_{13}\ t_{23}} - \overline{73\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}} + \\
 3\,832\,012\,800 \qquad \qquad \qquad 212\,889\,600 \\
 \\
 \overline{3709\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}} + \overline{2929\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}} + \\
 15\,328\,051\,200 \qquad \qquad \qquad 2\,874\,009\,600 \\
 \\
 \overline{26\,131\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{13}\ t_{23}} - \overline{797\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}} - \\
 105\,106\,636\,800 \qquad \qquad \qquad 1\,857\,945\,600 \\
 \\
 \overline{4343\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}} - \overline{5147\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} + \\
 5\,748\,019\,200 \qquad \qquad \qquad 81\,749\,606\,400 \\
 \\
 \overline{2557\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}} + \overline{61\,829\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} - \\
 16\,721\,510\,400 \qquad \qquad \qquad 735\,746\,457\,600 \\
 \\
 \overline{392\,089\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}} - \overline{79\,741\ t_{13}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{13}\ t_{23}\ t_{23}\ t_{23}\ t_{23}} - \\
 245\,248\,819\,200 \qquad \qquad \qquad 147\,149\,291\,520
 \end{array}$$

$$\begin{array}{r}
 \overline{88\,247\, t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}} + \overline{818\,803\, t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 147\,149\,291\,520 \qquad \qquad \qquad 1\,103\,619\,686\,400
 \end{array}$$

$$\begin{array}{r}
 \overline{1129\, t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} + \overline{257\, t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23} t_{13} t_{23}} \\
 \hline
 35\,035\,545\,600 \qquad \qquad \qquad 510\,935\,040
 \end{array}$$

$$\begin{array}{r}
 \overline{75\,001\, t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23}} - \overline{65\,029\, t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23}} \\
 \hline
 91\,968\,307\,200 \qquad \qquad \qquad 367\,873\,228\,800
 \end{array}$$

$$\begin{array}{r}
 \overline{823\,961\, t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23}} - \overline{233\, t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23}} \\
 \hline
 367\,873\,228\,800 \qquad \qquad \qquad 2\,299\,207\,680
 \end{array}$$

$$\begin{array}{r}
 \overline{519\,229\, t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}} + \overline{56\,369\, t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23}} \\
 \hline
 147\,149\,291\,520 \qquad \qquad \qquad 45\,984\,153\,600
 \end{array}$$

$$\begin{array}{r}
 \overline{121\,987\, t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23}} + \overline{1\,224\,611\, t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23}} \\
 \hline
 147\,149\,291\,520 \qquad \qquad \qquad 735\,746\,457\,600
 \end{array}$$

$$\begin{array}{r}
 \overline{27\,403\, t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}} - \overline{5063\, t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{13} t_{13} t_{23}} \\
 \hline
 24\,524\,881\,920 \qquad \qquad \qquad 2\,554\,675\,200
 \end{array}$$

$$\begin{array}{r}
 \overline{100\,267\, t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{13} t_{23}} - \overline{17\,491\, t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23} t_{13} t_{23} t_{23}} \\
 \hline
 49\,049\,763\,840 \qquad \qquad \qquad 8\,174\,960\,640
 \end{array}$$

$$\begin{array}{r}
 \overline{9293\, t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23}} - \overline{31\, t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{13} t_{13} t_{23}} \\
 \hline
 16\,349\,921\,280 \qquad \qquad \qquad 31\,539\,200
 \end{array}$$

$$\begin{array}{r}
 \overline{5821\, t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{13} t_{23} t_{23}} + \overline{t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23}} \\
 \hline
 7\,664\,025\,600 \qquad \qquad \qquad 19\,160\,064
 \end{array}$$

$$\begin{array}{r}
 \overline{283\, t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{13} t_{23} t_{23}} - \overline{6529\, t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}} \\
 \hline
 1\,532\,805\,120 \qquad \qquad \qquad 2\,299\,207\,680
 \end{array}$$

$$\begin{array}{r}
 \overline{27\,457\, t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}} + \overline{11\,573\, t_{13} t_{13} t_{13} t_{23} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}} \\
 \hline
 30\,656\,102\,400 \qquad \qquad \qquad 15\,328\,051\,200
 \end{array}$$

$$\begin{array}{r}
 \overline{32\,861\, t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23} t_{23} t_{23} t_{23}} - \overline{4645\, t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{13} t_{23} t_{23} t_{23}} \\
 \hline
 61\,312\,204\,800 \qquad \qquad \qquad 7\,357\,464\,576
 \end{array}$$

$$\begin{array}{r}
 \overline{468\,493\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{23}} + \overline{5197\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}} + \\
 183\,936\,614\,400 \qquad\qquad\qquad 13\,138\,329\,600 \\
 \\
 \overline{34\,747\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{23}\,t_{23}\,t_{23}\,t_{23}} - \overline{22\,181\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{13}\,t_{23}\,t_{13}\,t_{23}} - \\
 245\,248\,819\,200 \qquad\qquad\qquad 11\,496\,038\,400 \\
 \\
 \overline{1\,165\,709\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{13}\,t_{23}\,t_{23}} - \overline{1\,064\,969\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{23}} - \\
 735\,746\,457\,600 \qquad\qquad\qquad 735\,746\,457\,600 \\
 \\
 \overline{42\,839\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{23}\,t_{13}\,t_{23}} - \overline{43\,327\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{13}\,t_{23}\,t_{23}} + \\
 27\,249\,868\,800 \qquad\qquad\qquad 27\,249\,868\,800 \\
 \\
 \overline{2243\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{13}\,t_{23}} + \overline{145\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{13}\,t_{13}\,t_{23}} + \\
 3\,832\,012\,800 \qquad\qquad\qquad 153\,280\,512 \\
 \\
 \overline{617\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}} + \overline{529\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}} - \\
 2\,090\,188\,800 \qquad\qquad\qquad 638\,668\,800 \\
 \\
 \overline{18\,029\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{23}\,t_{23}} + \overline{156\,199\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{23}} - \\
 13\,377\,208\,320 \qquad\qquad\qquad 105\,106\,636\,800 \\
 \\
 \overline{3349\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{23}\,t_{23}\,t_{23}} + \overline{179\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{13}\,t_{23}} + \\
 10\,218\,700\,800 \qquad\qquad\qquad 255\,467\,520 \\
 \\
 \overline{58\,781\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{23}} + \overline{34\,417\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{13}\,t_{23}} + \\
 105\,106\,636\,800 \qquad\qquad\qquad 22\,992\,076\,800 \\
 \\
 \overline{1321\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{13}\,t_{23}\,t_{23}} - \overline{t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{13}\,t_{23}} - \\
 2\,299\,207\,680 \qquad\qquad\qquad 4\,790\,016 \\
 \\
 \overline{337\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{13}\,t_{23}\,t_{23}} + \overline{143\,777\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{23}} - \\
 3\,832\,012\,800 \qquad\qquad\qquad 105\,106\,636\,800 \\
 \\
 \overline{173\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{13}\,t_{23}\,t_{23}} + \overline{4001\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{13}\,t_{23}\,t_{23}\,t_{23}\,t_{23}\,t_{23}} - \\
 287\,400\,960 \qquad\qquad\qquad 8\,758\,886\,400
 \end{array}$$

$$\begin{aligned}
 & \frac{791 \text{ } t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{13} t_{23}}{821\,145\,600} - \frac{1439 \text{ } t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23} t_{23}}{1\,916\,006\,400} - \\
 & \frac{1571 \text{ } t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23} t_{23}}{3\,832\,012\,800} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23}}{4\,561\,920} + \\
 & \frac{43 \text{ } t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{13} t_{23} t_{23}}{1\,149\,603\,840} + \frac{299 \text{ } t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23} t_{23}}{1\,277\,337\,600} - \\
 & \left. \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23} t_{23}}{11\,975\,040} + \frac{t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{13} t_{23}}{47\,900\,160}, \dots \right\}
 \end{aligned}$$

$(B_0 \equiv B_1) @ \{8\}$

BS[8 True,

$$\begin{aligned}
 & \frac{23 \text{ } 11112122}{12\,441\,600} - \frac{23 \text{ } 11121222}{16\,588\,800} + \frac{23 \text{ } 11112212}{6\,220\,800} + \frac{23 \text{ } 11212122}{5\,529\,600} + \frac{23 \text{ } 11212222}{16\,588\,800} + \\
 & \frac{23 \text{ } 11121122}{24\,883\,200} - \frac{23 \text{ } 11122122}{5\,529\,600} - \frac{23 \text{ } 11122212}{5\,529\,600} - \frac{23 \text{ } 11221222}{16\,588\,800} - \\
 & \frac{23 \text{ } 11121212}{4\,147\,200} + \frac{23 \text{ } 12121222}{4\,147\,200} - \frac{23 \text{ } 12122222}{12\,441\,600} + \frac{23 \text{ } 11211222}{16\,588\,800} - \\
 & \frac{23 \text{ } 11211212}{6\,220\,800} + \frac{23 \text{ } 111222112}{12\,441\,600} + \frac{23 \text{ } 11212212}{5\,529\,600} - \frac{23 \text{ } 11222122}{3\,317\,760} - \\
 & \frac{23 \text{ } 11222212}{16\,588\,800} - \frac{23 \text{ } 12212222}{4\,976\,640} - \frac{23 \text{ } 12122122}{5\,529\,600} + \frac{23 \text{ } 11221212}{2\,764\,800} = 0, \dots
 \end{aligned}$$