

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

$$\mathbf{Z}_B = (-\Phi)^{\sigma[13,2,4]} ** \Phi^{\sigma[1,3,2]} ** \mathbf{R}^{\sigma[2,3]} ** (-\Phi)^{\sigma[1,2,3]} ** \Phi^{\sigma[12,3,4]};$$

$$\mathbf{Z}_B @ \{4\}$$

$$\begin{aligned} & \text{DKS} \left[ \frac{\overline{t_{23}}}{2}, -\frac{1}{12} \overline{t_{13} t_{23}} - \frac{1}{24} \overline{t_{14} t_{24}} + \frac{1}{24} \overline{t_{14} t_{34}} + \frac{1}{12} \overline{t_{24} t_{34}}, \right. \\ & 0, \frac{\overline{t_{13} t_{23} t_{23} t_{23}}}{5760} + \frac{7 \overline{t_{14} t_{24} t_{24} t_{24}}}{5760} + \frac{\overline{t_{14} t_{34} t_{24} t_{24}}}{1920} - \\ & \frac{\overline{t_{14} t_{34} t_{34} t_{24}}}{1920} - \frac{7 \overline{t_{14} t_{34} t_{34} t_{34}}}{5760} - \frac{\overline{t_{24} t_{34} t_{34} t_{34}}}{5760} + \frac{\overline{t_{14} t_{24} t_{34} t_{24}}}{1920} + \\ & \frac{\overline{t_{14} t_{24} t_{14} t_{34}}}{1920} - \frac{\overline{t_{14} t_{34} t_{24} t_{34}}}{1920} - \frac{1}{720} t_{13} \overline{t_{13} t_{23} t_{23}} + \\ & \frac{1}{720} t_{13} \overline{t_{13} t_{13} t_{23}} - \frac{7 \overline{t_{14} t_{14} t_{24} t_{24}}}{5760} + \frac{7 \overline{t_{14} t_{14} t_{34} t_{34}}}{5760} - \\ & \frac{\overline{t_{14} t_{24} t_{34} t_{34}}}{5760} + \frac{\overline{t_{14} t_{14} t_{14} t_{24}}}{1440} - \frac{\overline{t_{14} t_{14} t_{14} t_{34}}}{1440} - \frac{1}{960} t_{14} \overline{t_{14} t_{24} t_{34}} + \\ & \left. \frac{\overline{t_{14} t_{24} t_{24} t_{34}}}{5760} - \frac{1}{960} t_{24} \overline{t_{24} t_{34} t_{34}} - \frac{\overline{t_{24} t_{24} t_{24} t_{34}}}{5760}, \dots \right] \end{aligned}$$