

$$\begin{aligned}
 & \frac{4}{3} \textcolor{blue}{1}.\mathcal{R}_{abcd} + \frac{2}{3} \textcolor{blue}{1}.\mathcal{R}_{acbd} + \textcolor{blue}{2}.\mathcal{R}_{abcd} + \textcolor{blue}{3}.\mathcal{R}_{abcd} + \frac{1}{2} Y_{bd} \textcolor{blue}{4}.\mathcal{R}_{ac} - \frac{1}{2} Y_{bc} \textcolor{blue}{4}.\mathcal{R}_{ad} -
 \end{aligned}$$

$$\begin{aligned}
 & \frac{1}{2} Y_{ad} \textcolor{blue}{4}.\mathcal{R}_{bc} + \frac{1}{2} Y_{ac} \textcolor{blue}{4}.\mathcal{R}_{bd} + \frac{1}{2} Y_{bd} \textcolor{blue}{5}.\mathcal{R}_{ac} - \frac{1}{2} Y_{bc} \textcolor{blue}{5}.\mathcal{R}_{ad} -
 \end{aligned}$$

$$\begin{aligned}
 & \frac{1}{2} Y_{ad} \textcolor{blue}{5}.\mathcal{R}_{bc} + \frac{1}{2} Y_{ac} \textcolor{blue}{5}.\mathcal{R}_{bd} + \frac{1}{12} Y_{ad} Y_{bc} \textcolor{blue}{6}.\mathcal{R} - \frac{1}{12} Y_{ac} Y_{bd} \textcolor{blue}{6}.\mathcal{R}
 \end{aligned}$$