

$$\begin{aligned}
W_{dP_3} = & -X_{12}Y_{31}Z_{23} - X_{45}Y_{64}Z_{56} + X_{45}Y_{31}Z_{14}\frac{\rho_{53}}{\Lambda} + X_{12}Y_{25}Z_{56}\frac{\Phi_{61}}{\Lambda} \\
& + X_{36}Y_{64}Z_{23}\frac{\Psi_{42}}{\Lambda} - X_{36}Y_{25}Z_{14}\frac{\rho_{53}\Phi_{61}\Psi_{42}}{\Lambda^3}
\end{aligned}$$