

$$\begin{aligned}
 R_1 [1, i_, j_] = & CF [\\
 & 1 / 2 - T_3 g_{1ji} g_{2ji} - g_{3ii} + g_{2jj} g_{3ii} + T_1 (T_3 - 1) g_{1ji} g_{3ji} + \\
 & T_2 (T_3 - 1) g_{2ji} g_{3ji} - T_2 g_{2ji} g_{3jj} + \\
 & (g_{1jj} g_{2ii} + (T_3 - 1) g_{1jj} g_{2ji} - T_1 g_{1ii} g_{2jj} - g_{1jj} g_{3ii} - \\
 & T_1 (T_3 - 1) g_{1jj} g_{3ji} + T_1 g_{1ii} g_{3jj}) / (T_1 - 1)] ;
 \end{aligned}$$