

$$\begin{aligned}
R_1 [s_-, i_-, j_-] = & \text{CF} [\\
& s \left(\frac{1}{2} - g_{3ii} + T_2^s g_{1ii} g_{2ji} - g_{1ii} g_{2jj} - (T_2^s - 1) g_{2ji} g_{3ii} + \right. \\
& 2 g_{2jj} g_{3ii} - (1 - T_3^s) g_{2ji} g_{3ji} - g_{2ii} g_{3jj} - T_2^s g_{2ji} g_{3jj} + \\
& g_{1ii} g_{3jj} + \\
& \left. \left((T_1^s - 1) g_{1ji} (T_2^{2s} g_{2ji} - T_2^s g_{2jj} + T_2^s g_{3jj}) + \right. \right. \\
& \left. \left. (T_3^s - 1) g_{3ji} (1 - T_2^s g_{1ii} - (T_1^s - 1) (T_2^s + 1) g_{1ji} + \right. \right. \\
& \left. \left. (T_2^s - 2) g_{2jj} + g_{2ij}) \right) / (T_2^s - 1) \right] ;
\end{aligned}$$