

$$\begin{aligned}
 F_1[\{s_, i_, j_\}] &:= \text{CF} \Big[\\
 & s \left(1/2 - g_{3ii} + T_2^s g_{1ii} g_{2ji} - g_{1ii} g_{2jj} - (T_2^s - 1) g_{2ji} g_{3ii} + \right. \\
 & 2 g_{2jj} g_{3ii} - (1 - T_3^s) g_{2ji} g_{3ji} - g_{2ii} g_{3jj} - T_2^s g_{2ji} g_{3jj} + \\
 & g_{1ii} g_{3jj} + \\
 & \left((T_1^s - 1) g_{1ji} (T_2^{2s} g_{2ji} - T_2^s g_{2jj} + T_2^s g_{3jj}) + \right. \\
 & (T_3^s - 1) g_{3ji} (1 - T_2^s g_{1ii} - (T_1^s - 1) (T_2^s + 1) g_{1ji} + \\
 & \left. \left. (T_2^s - 2) g_{2jj} + g_{2ij} \right) \right) / (T_2^s - 1) \Big]
 \end{aligned}$$