$$F_2[\{-1, i0\_, j0\_\}, \{1, i1\_, j1\_\}] = -\frac{(T_1 - 1)\ (T_3 - 1)\ g_{1,j1,i0}\ g_{2,i1,i0}\ g_{3,j0,i1}}{T_1\ (T_2 - 1)\ T_2} + \frac{(T_1 - 1)\ (T_3 - 1)\ g_{1,j1,i0}\ g_{2,i1,j0}\ g_{3,j0,i1}}{T_1\ (T_2 - 1)} +$$

$$\frac{(T_1 - 1)\ (T_3 - 1)\ g_{1,j1,i0}\ g_{2,j1,i0}\ g_{3,j0,i1}}{T_1\ (T_2 - 1)\ T_2} - \frac{(T_1 - 1)\ (T_3 - 1)\ g_{1,j1,i0}\ g_{2,j1,j0}\ g_{3,j0,i1}}{T_1\ (T_2 - 1)};$$