

$$\theta[\{1, i\theta_-, j\theta_-\}, \{-1, i1_-, j1_-\}] =$$

$$\begin{aligned}
& (T_3 - 1) \mathcal{G}_{1, j1, i\theta} \mathcal{G}_{2, i1, i\theta} \mathcal{G}_{3, j\theta, i1} - T_1^{-1} (T_3 - 1) \mathcal{G}_{1, j1, j\theta} \mathcal{G}_{2, i1, i\theta} \mathcal{G}_{3, j\theta, i1} - \\
& (T_3 - 1) \mathcal{G}_{1, j1, i\theta} \mathcal{G}_{2, j1, i\theta} \mathcal{G}_{3, j\theta, i1} + T_1^{-1} (T_3 - 1) \mathcal{G}_{1, j1, j\theta} \mathcal{G}_{2, j1, i\theta} \mathcal{G}_{3, j\theta, i1};
\end{aligned}$$