$$U_{\mathtt{i}|_{\ell_k}} V_{\mathtt{i}|_{\ell_k}}^{-1} L_{\mathtt{i},\theta,k} H_{Q_{\mathtt{i},A_{\mathtt{i}|_{\ell_k}}^{-1}\theta,k}} Q_{\mathtt{i},A_{\mathtt{i}|_{\ell_k}}^{-1}\theta,k}$$

$$T_{2^{kN}\Pi(\mathtt{i}) \mod 1} D_m(2^{kN}\Pi(\mathtt{i}) \mod 1)$$

$(0,0)$

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