



$$\hat{\Omega}^{[1]} + \sum_{i,j \neq i}^A \left(\begin{array}{c} \hat{l}_{ij}^\dagger \hat{\Omega}_i \\ \hat{\Omega}_i \hat{l}_{ij} \end{array} + \hat{l}_{ij}^\dagger \hat{\Omega}_i \hat{l}_{ij} \right)$$



disconnected