$stat = ['b' 'b'] \mid N = [2 \ 2] \mid J = 1 \mid M = 6 \mid V_a = 0.00 \mid V_b = 0.00 \mid U_a = 1.00e + 00 \mid pbc = 0$ $\hat{H}_{\sigma} = -J \sum_{i=0}^{M-1} (1 - (-1)^{i+1} \Delta t) (a_{\sigma,i}^{\dagger} a_{\sigma,i+1} + h.c) + \frac{V_{\sigma\sigma}}{2} \sum_{i=0}^{M} \hat{n}_{\sigma,i} (\hat{n}_{\sigma,i} - 1), \quad \hat{H}_{ab} = U_{ab} \sum_{i=0}^{M} \hat{n}_{a,i} \hat{n}_{b,i}, \quad \sigma \in a, b$ $\hat{H}_{tot} = H_1 + H_2 + H_{ab}, \quad \hat{H}_{total} | \lambda \rangle = E_{\lambda} | \lambda \rangle$ $\langle \lambda | H_2 | \lambda \rangle$





