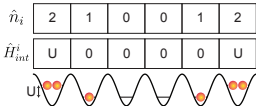


$$\hat{H}_{int} = \sum_i \hat{H}_{int}^i = \frac{U}{2} \sum_i n_i(n_i - 1)$$



Temperature = 3.8 J

