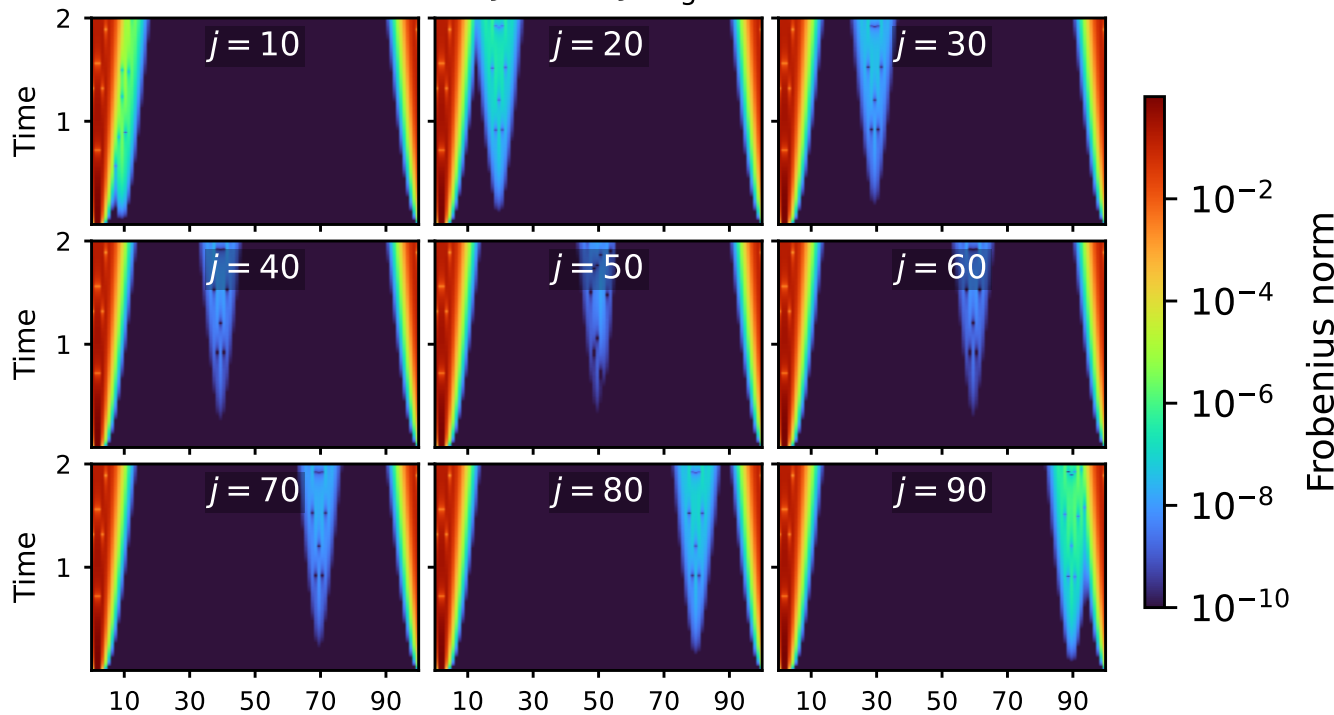


PBC: $N=100, J_z = 1, J_{\text{long}} = 2, \alpha = 0.5$



PBC: $N=100, J_z = 1, J_{\text{long}} = 2, (2, j; 3, j), \alpha = 0.5$

