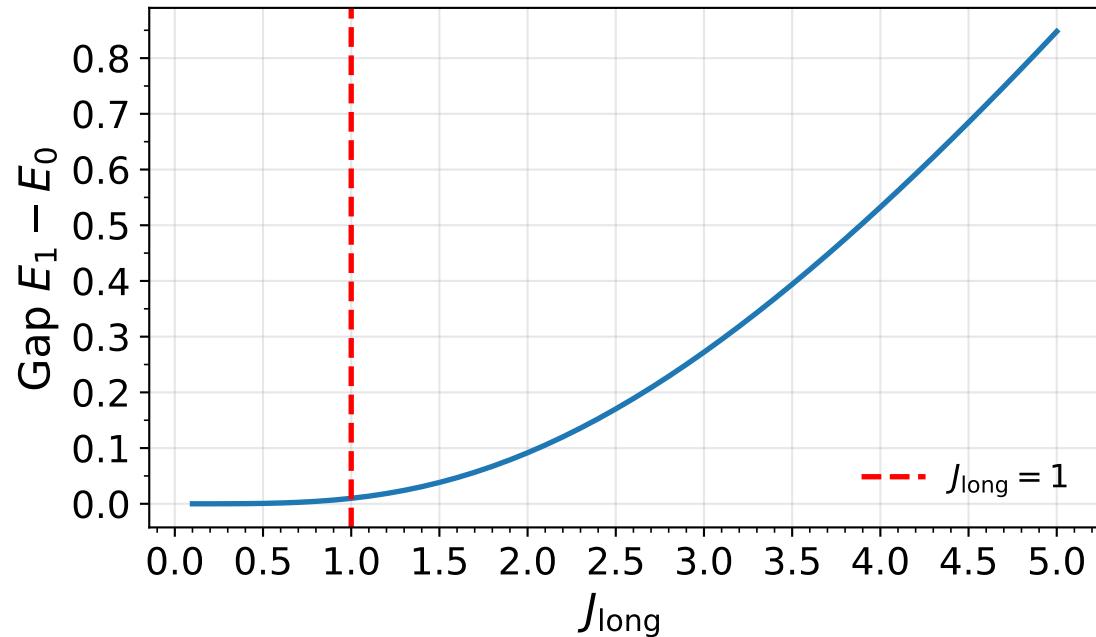


Spectral gap (LFIM with  $J_z = 1$ ,  $N = 10$ ,  $\alpha = 0$ )Lowest 6 eigenvalues (LFIM with  $J_z = 1$ ,  $N = 10$ ,  $\alpha = 0$ )