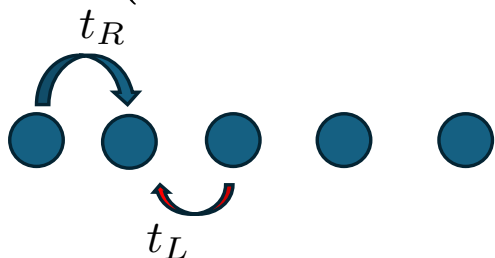


Skin effect and the bulk-boundary correspondence

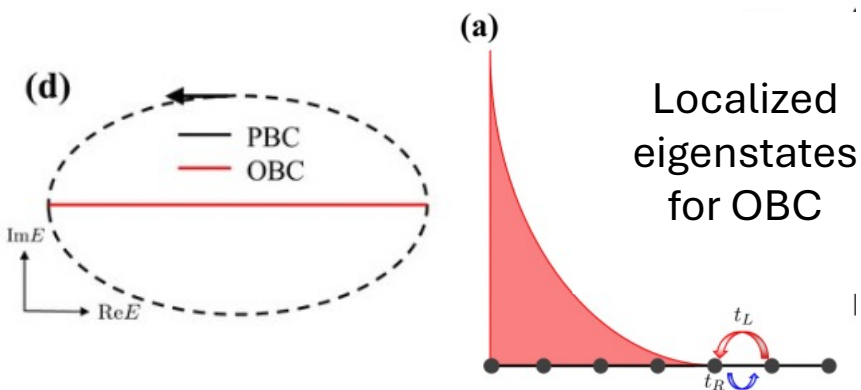
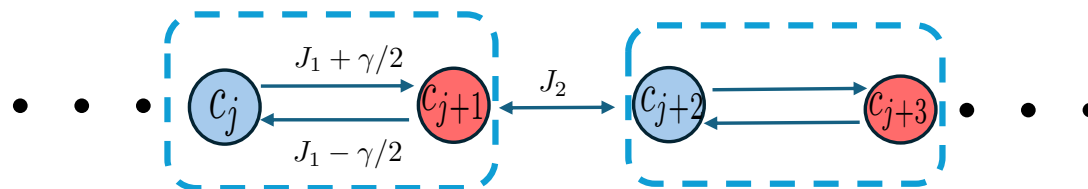
Hatano-Nelson model

$$H = \sum_{n=1}^{L-1} \left(t_R c_{n+1}^\dagger c_n + t_L c_n^\dagger c_{n+1} \right)$$

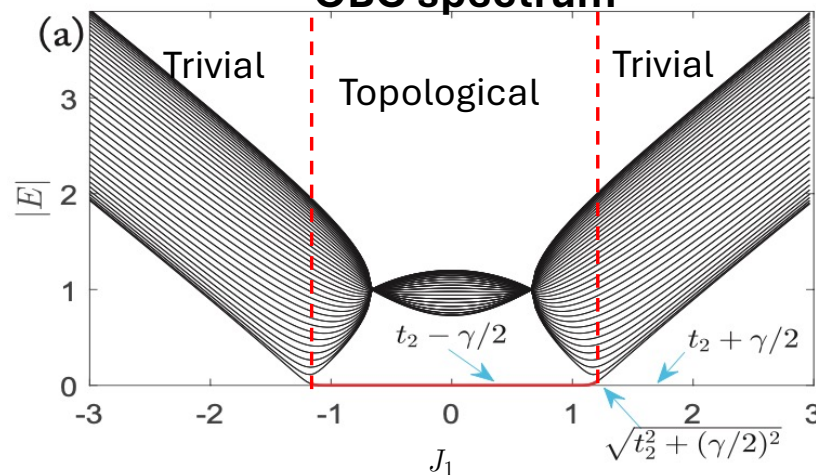


SSH model

$$H_{\text{targ}}^{\text{SSH}} = \sum_j \left(t_1 c_{A,j}^\dagger c_{B,j} + t_2 c_{B,j}^\dagger c_{A,j+1} + h.c. \right)$$



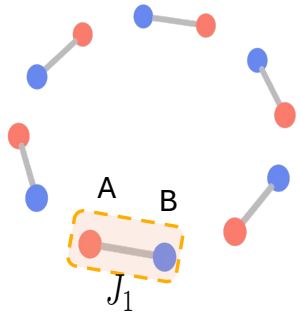
OBC spectrum



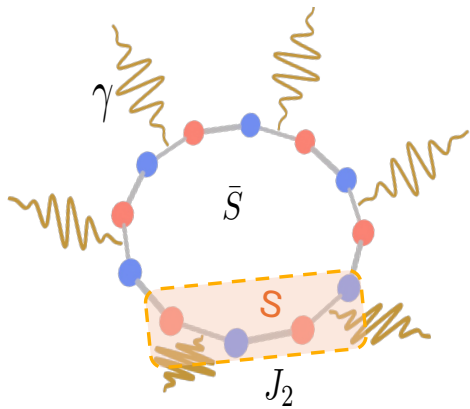
Shunyu Yao and Zhong Wang Phys. Rev. Lett. **121**, 086803 (2018).

Numerics

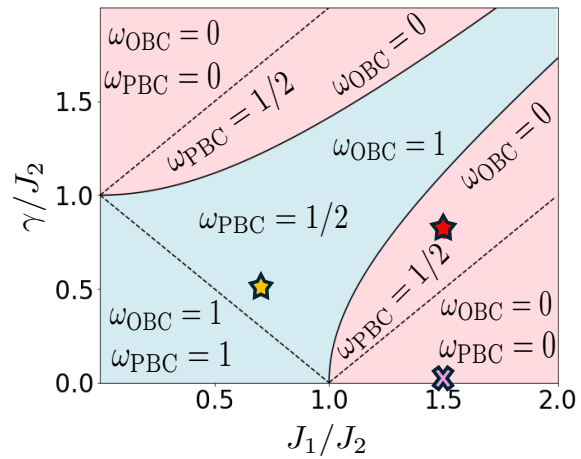
(a) $t = 0$



$t > 0$



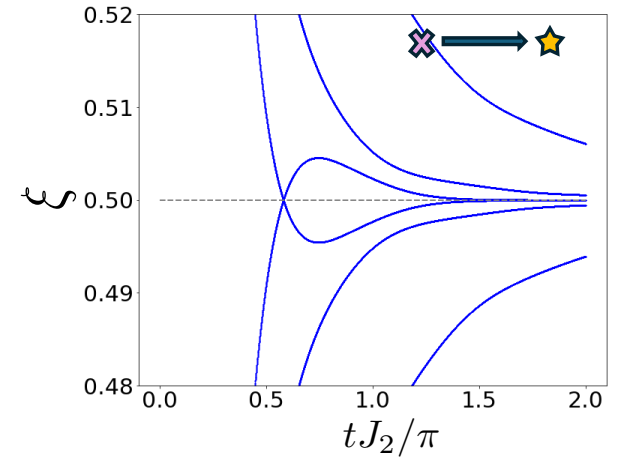
(b) Phase diagram



$$C_{mn} : \text{Tr}[\rho(t) c_n^\dagger c_m]$$

$$\xi_k = \frac{1}{e^{\epsilon_k} + 1}$$

(c) Trivial to topological



(d) Trivial to trivial

