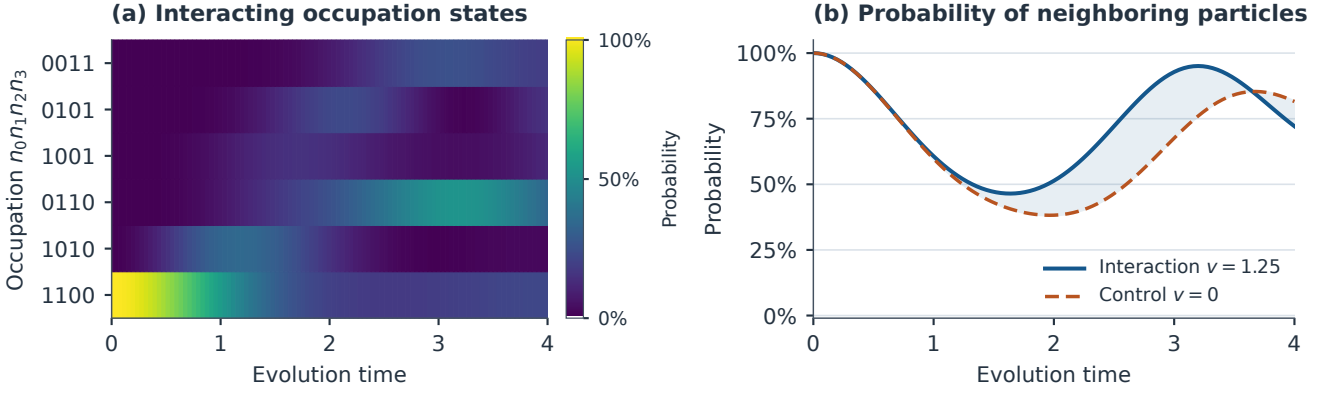

(a) Interacting occupation states
Occupation $n_0n_1n_2n_3$
0011
0101
1001
0110
1010
1100
0
1
2
3
4
Evolution time
100%
50%
0%
Probability
(b) Probability of neighboring particles
Probability
100%
75%
50%
25%
0%
0
1
2
3
4
Evolution time
Interaction $v = 1.25$
Control $v = 0$