

1 Benchamrk week 5

Context: 30×15 SC with open boundary conditons.

We have a phase gradient of 117° . Starting from $\pi/2$. $T = 10^{-3}K$ and we iterrate until a relative change in both the real and imaginary part of Δ reach 0.001%.

The way matlab deals with the eigenvectors and eigenvalues seams strange. So if we take χ_n along with E_n like the theory does, the algorithm dosnt converge for: 1

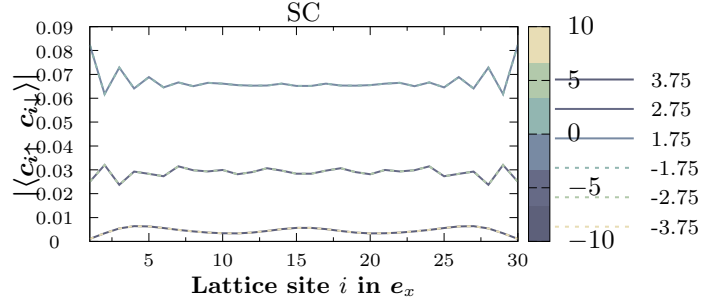


Figure 1

From this we can read the following parameters: $\mu = \pm 1.75 - > 0.0651$, $\mu = \pm 2.75 - > 0.02836$, $\mu = \pm 3.75 - > 0.00568$.

2

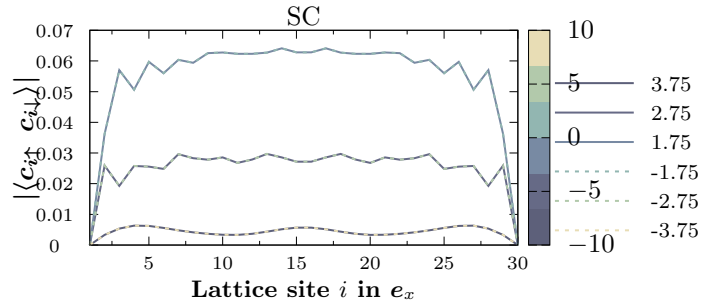


Figure 2