5.8-1 Domain walls in the Ising model

Chapter 5.8: Domain walls in the Ising model

$$H_{\text{Ising}} = -J \sum_{j=1}^{N-1} S_j S_{j+1}$$

Analysis of excitations in 1D

Ground state

Excited state

 $\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$

5.8-2 Domain walls in the Ising model

Analysis of excitations in 2D

Ground state

Excited state

