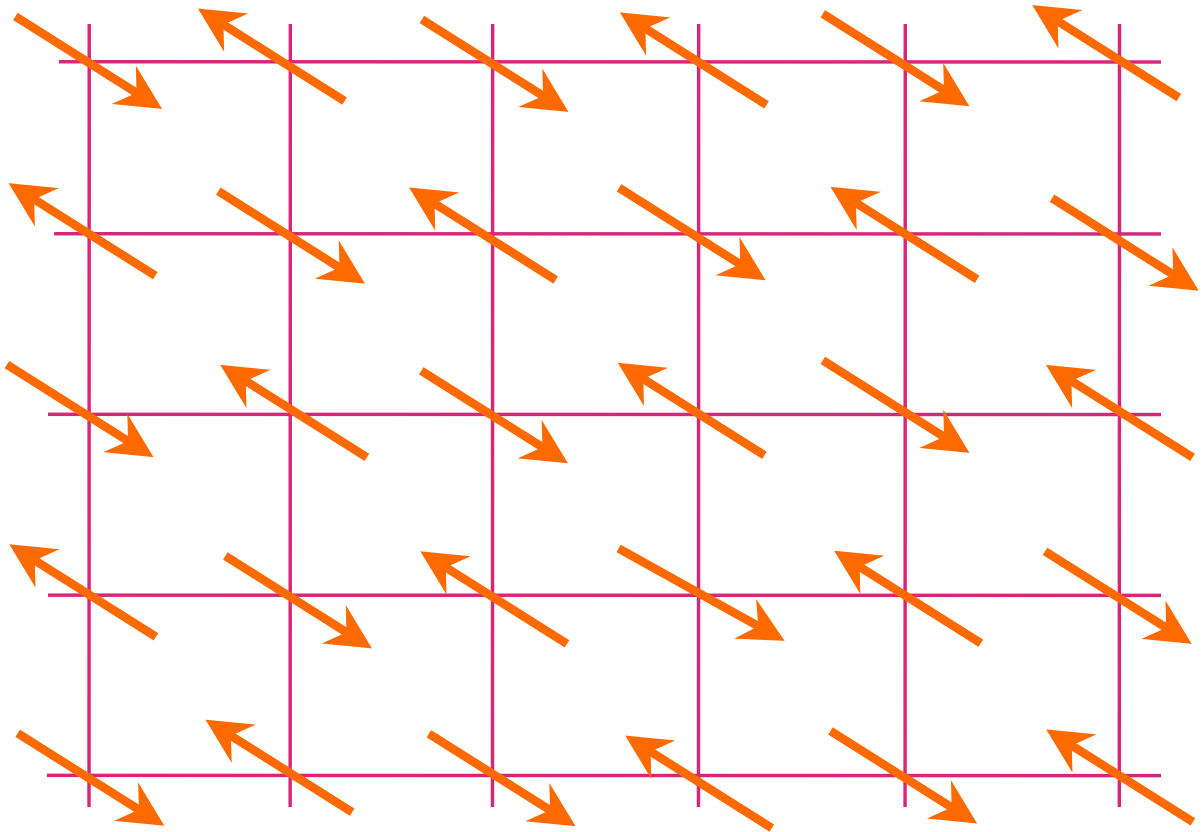
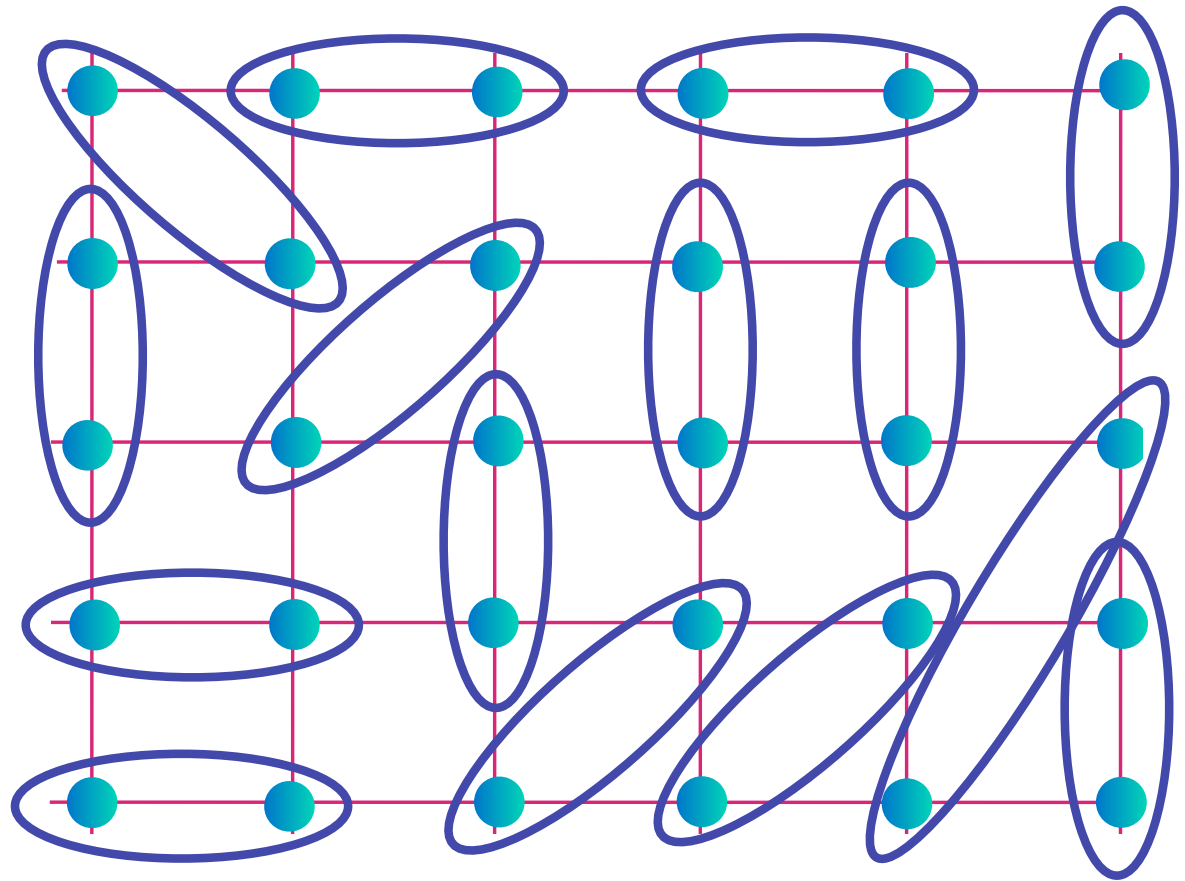


(a)

AF

 $|D_i\rangle$ 

$$\text{Oval with two dots} = (|\uparrow\downarrow\rangle - |\downarrow\uparrow\rangle) / \sqrt{2}$$