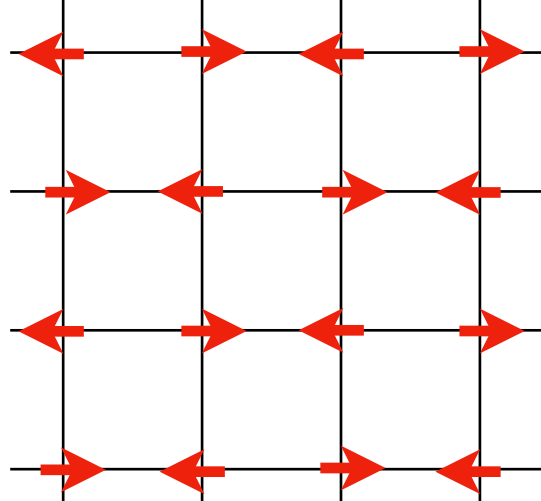
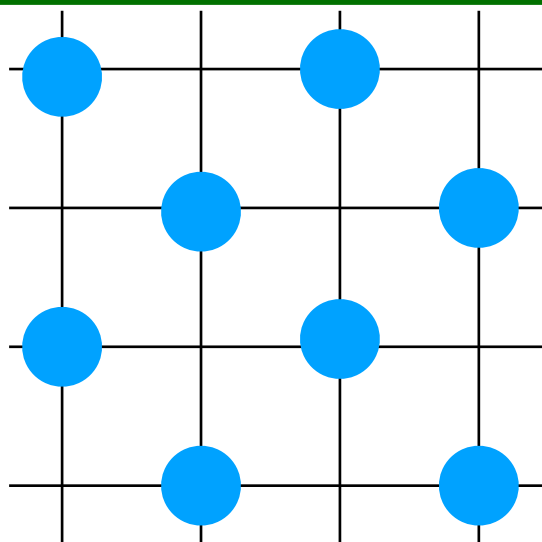


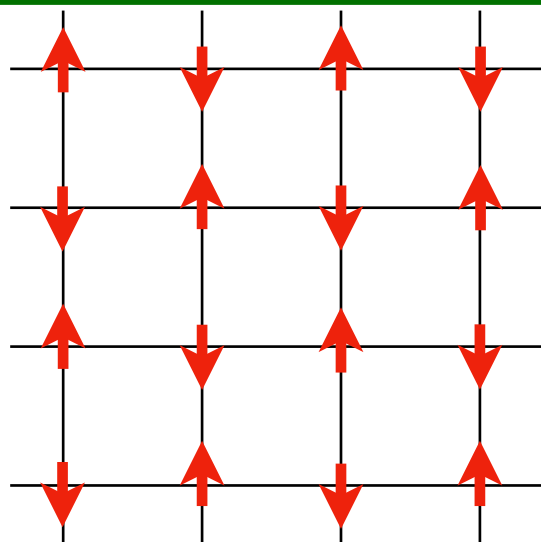
Superfluid, $\langle B_i \rangle \neq 0$



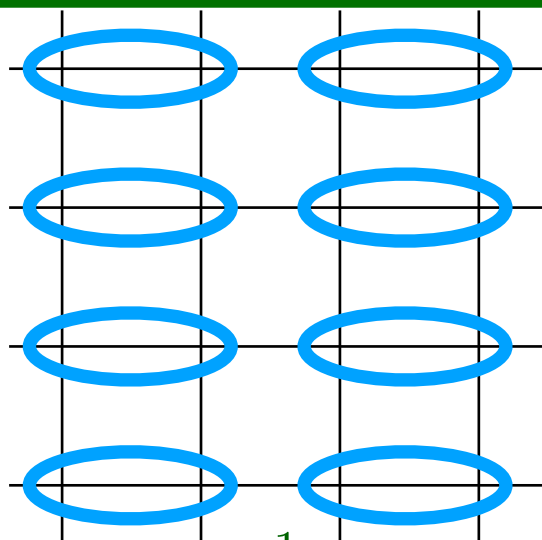
X-Néel, $\eta_i \langle S_{ix} \rangle \neq 0$



Site density wave,
 $\eta_i \langle B_i^\dagger B_i - \frac{1}{2} \rangle \neq 0$

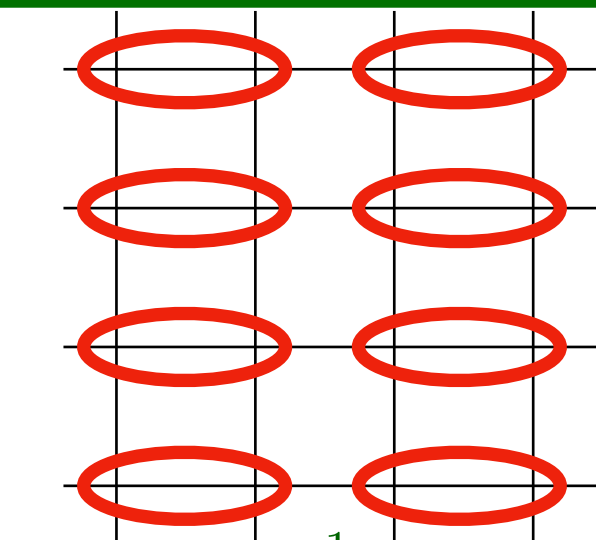


Z-Néel, $\eta_i \langle S_{iz} \rangle \neq 0$



$$\text{blue oval} = \frac{1}{\sqrt{2}} (B_1^\dagger + B_2^\dagger) |0\rangle$$

Bond density wave



$$\text{red oval} = \frac{1}{\sqrt{2}} (|\uparrow\downarrow\rangle - |\downarrow\uparrow\rangle)$$

Valence bond solid