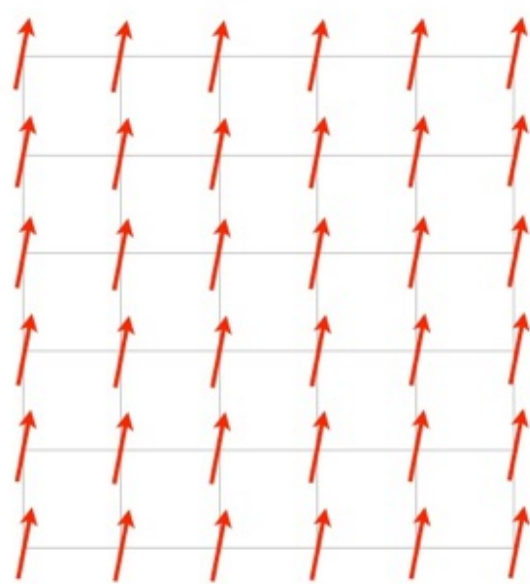


$$\langle \Psi_i \rangle = \Psi_0 \neq 0$$

Long-range
order



J_c

Trivial

$$\langle \Psi_i \rangle = 0$$

$$\langle \Psi_i \Psi_j^* \rangle \sim \frac{\exp(-|\mathbf{r}_i - \mathbf{r}_j|/\xi)}{|\mathbf{r}_i - \mathbf{r}_j|}$$

Gapped excitations
with charges $Q = \pm 1$

J