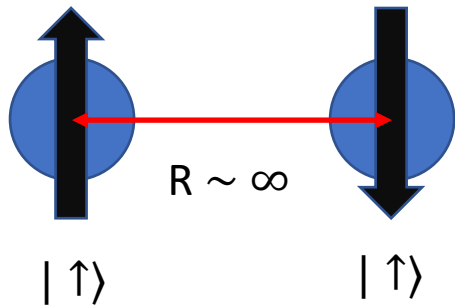
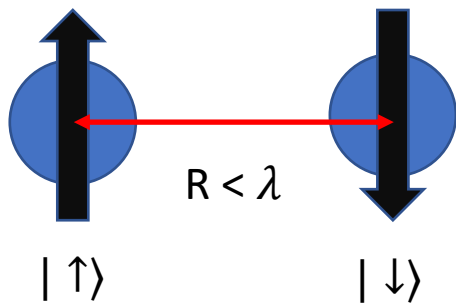


Independent decay:



$$\lim_{t \rightarrow \infty} |\langle \downarrow \downarrow | \psi \rangle|^2 = 1$$

Collective decay:



$$|\uparrow\downarrow\rangle = \frac{1}{\sqrt{2}} (|1,0\rangle + |0,0\rangle), \text{ RHS in J,M basis}$$

$$\lim_{t \rightarrow \infty} |\langle \downarrow \downarrow | \psi \rangle|^2 = \frac{1}{2},$$