



$$|+\rangle = \frac{|+1\rangle + |-1\rangle}{\sqrt{2}} \quad |-\rangle = \frac{|+1\rangle - |-1\rangle}{\sqrt{2}}$$

- Level anti-crossing in zero magnetic field
 → New single-spin Hamiltonian eigenstates
 → Modification of the dipole-dipole interaction
- Near-resonance of double-flip terms $|0, +\rangle \langle -, 0|$