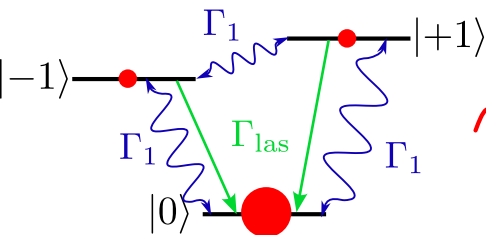
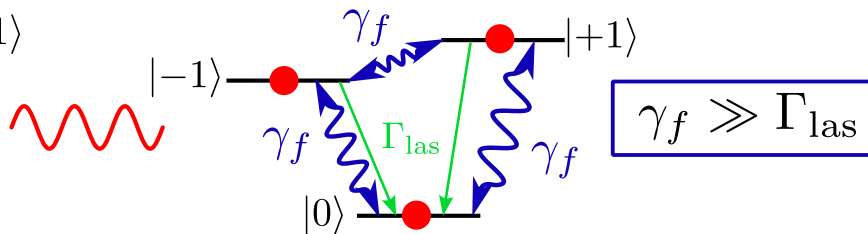


## Normal NV



## Fluctuator NV



~~NV-NV Cross-relaxation~~  
 → NV-fluct Cross-relaxation

## Fluctuators:

- Same spin levels as NV centers
- Unpolarized

## Precedents in:

- *P*-doped Si
- Solid-state NMR
- FRET

## Potential microscopic origin:

- Charge tunneling
  - Modulation of contact interaction
- Fluctuator = impurity cluster