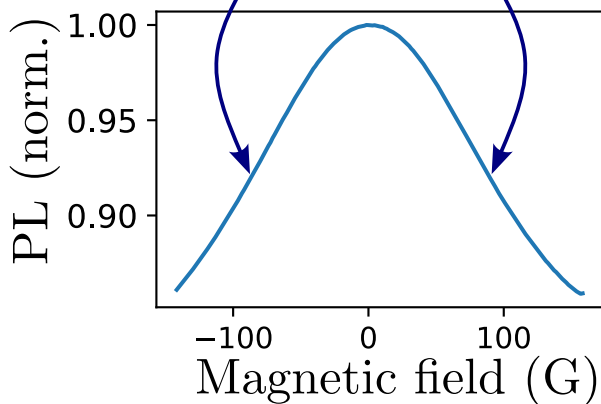
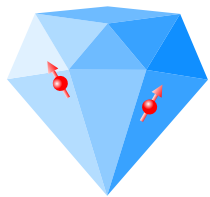
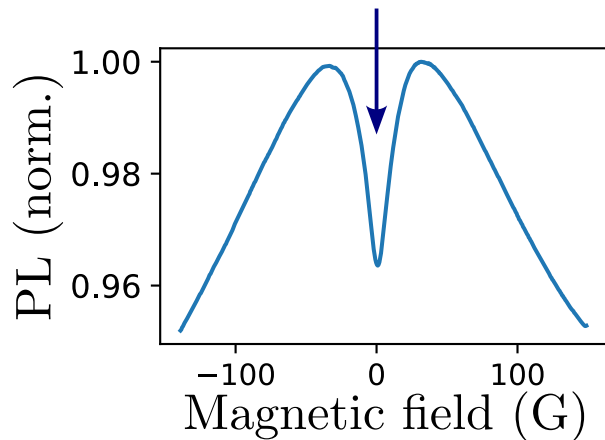


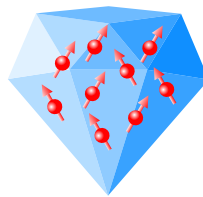
Transverse field



Dipole-dipole spin relaxation



Low NV density  
 $[NV] \leq 100$  ppb



High NV density  
 $[NV] \geq 1$  ppm

- Better understand the dipole-dipole interaction in dense NV ensembles
- Exploit the PL feature for magnetometry