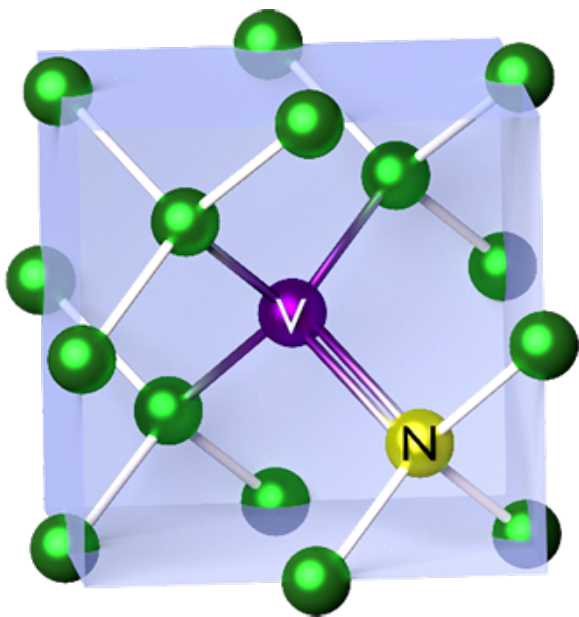
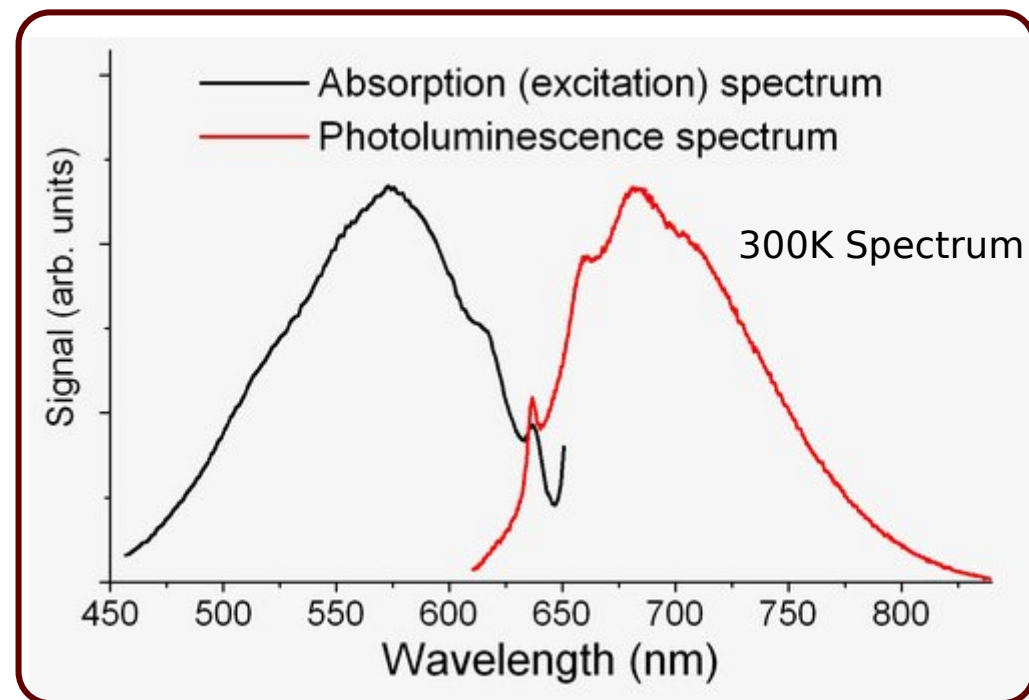


Crystalline structure

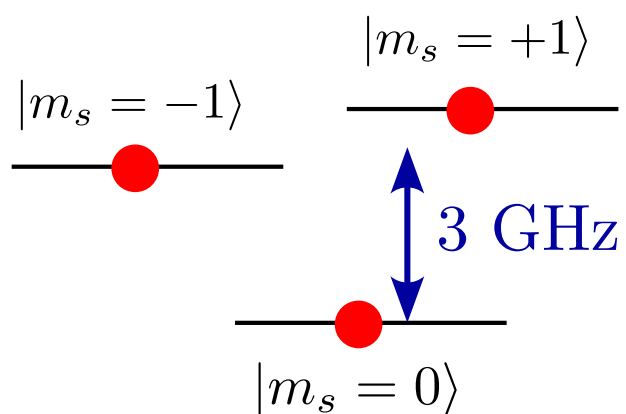


Optical properties



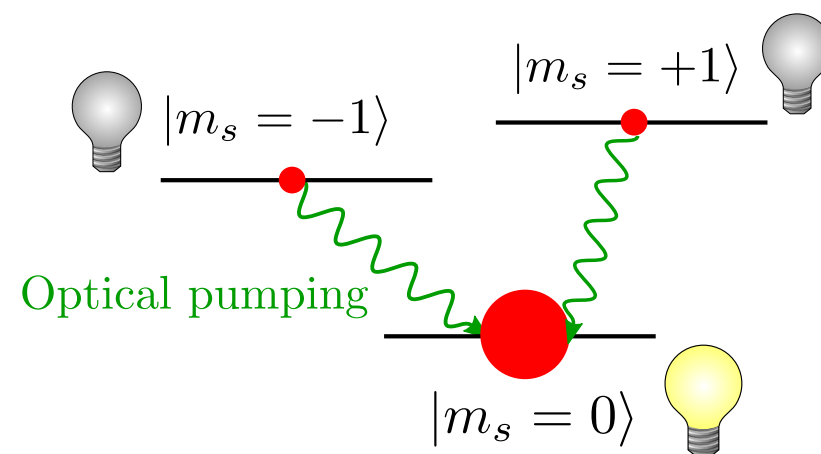
Spin properties

$S = 1$ in the electronic ground state



Unpolarized at 300 K :
 $\rho_{00} \approx 1/3 \approx \rho_{+1+1} \approx \rho_{-1-1}$

Interplay between spin and light



- Optical pumping in the $|m_s = 0\rangle$ state
- $|m_s = 0\rangle$ state brighter than $|m_s = \pm 1\rangle$