

Quantum Information with Solid-State Devices

VO 141.246

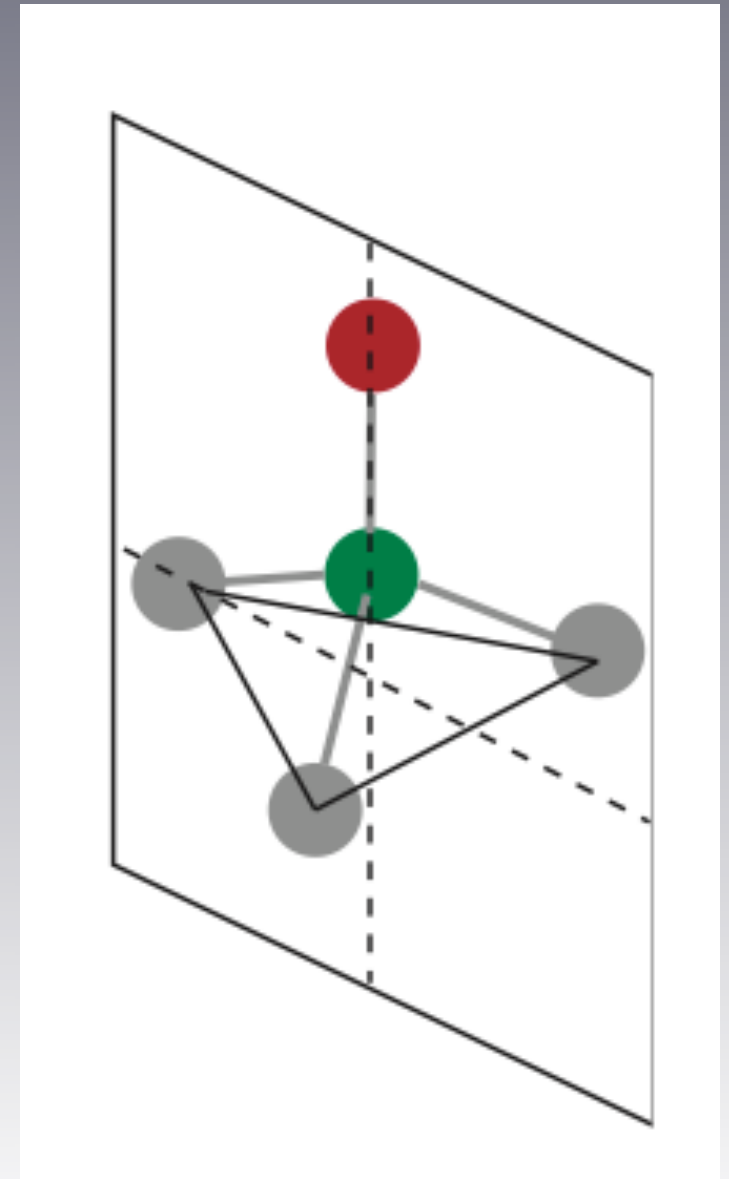
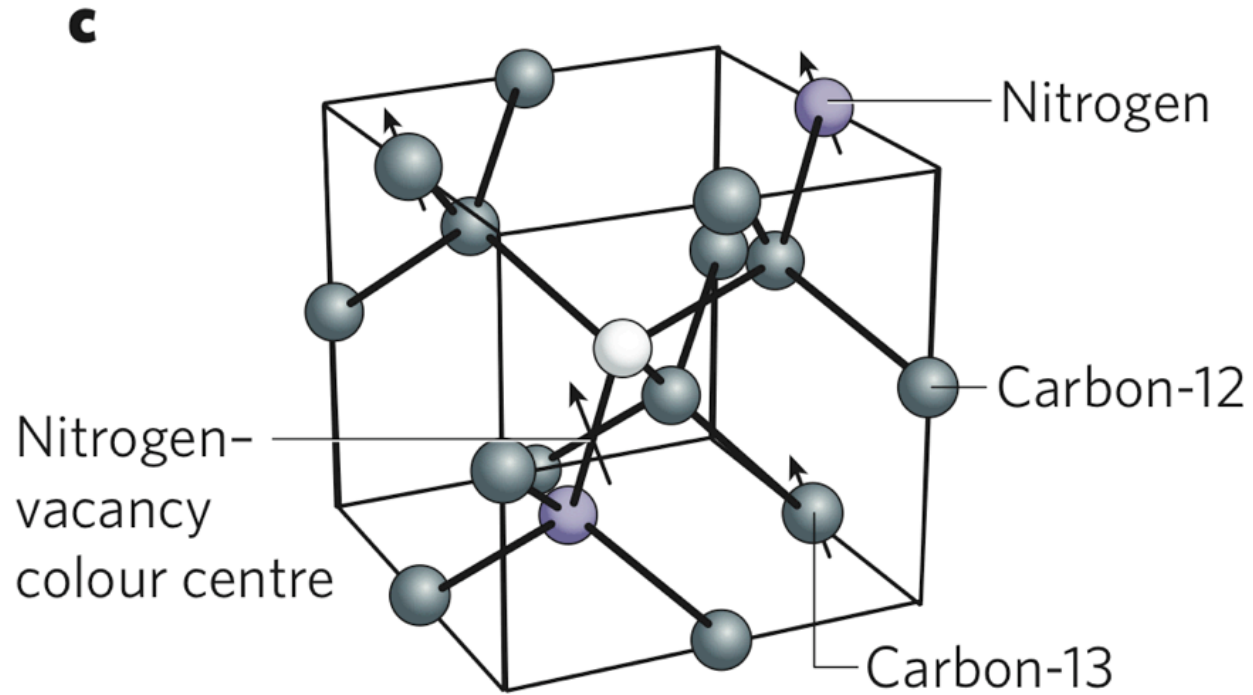
SS2012

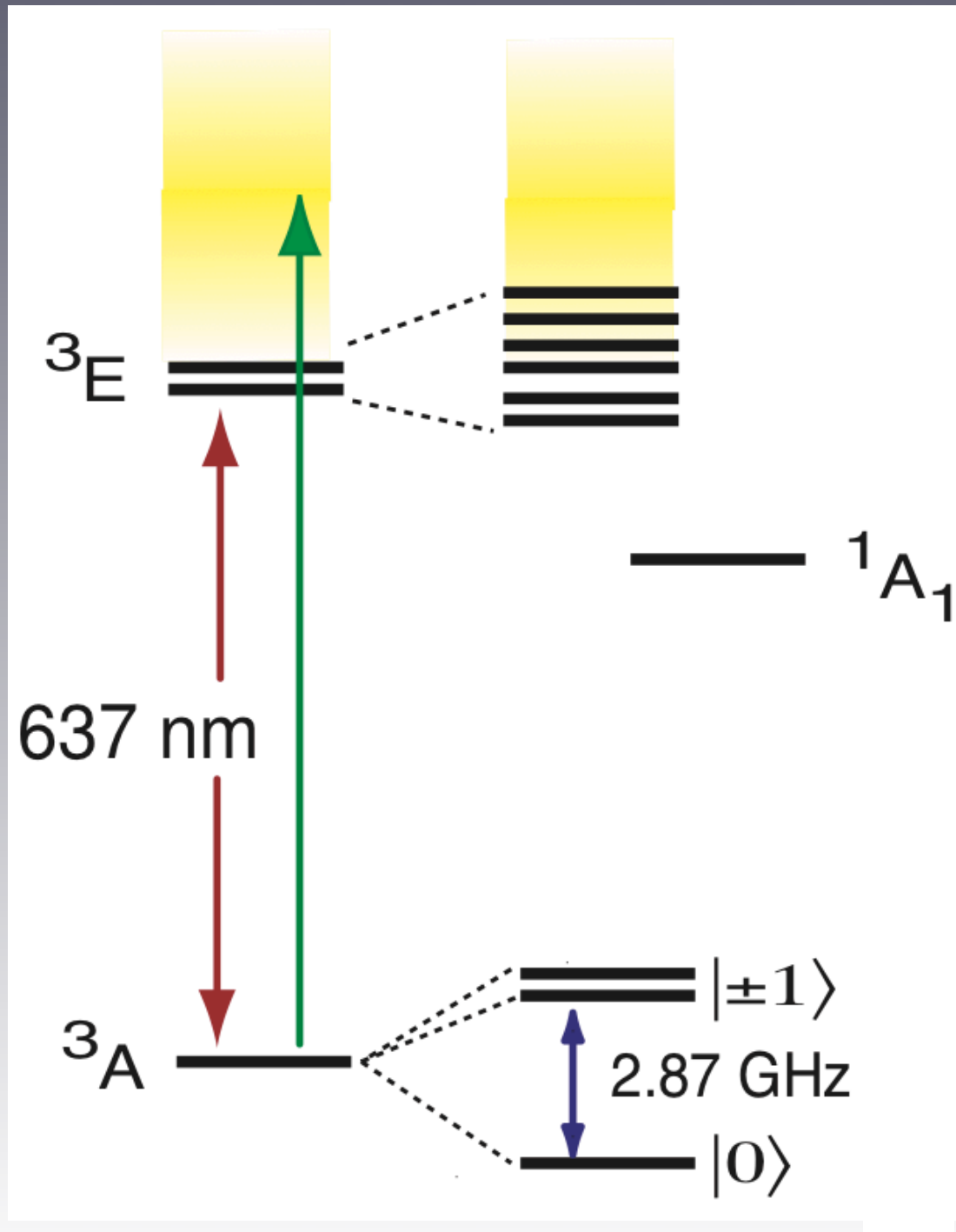
Dr. Johannes Majer

Lecture 10

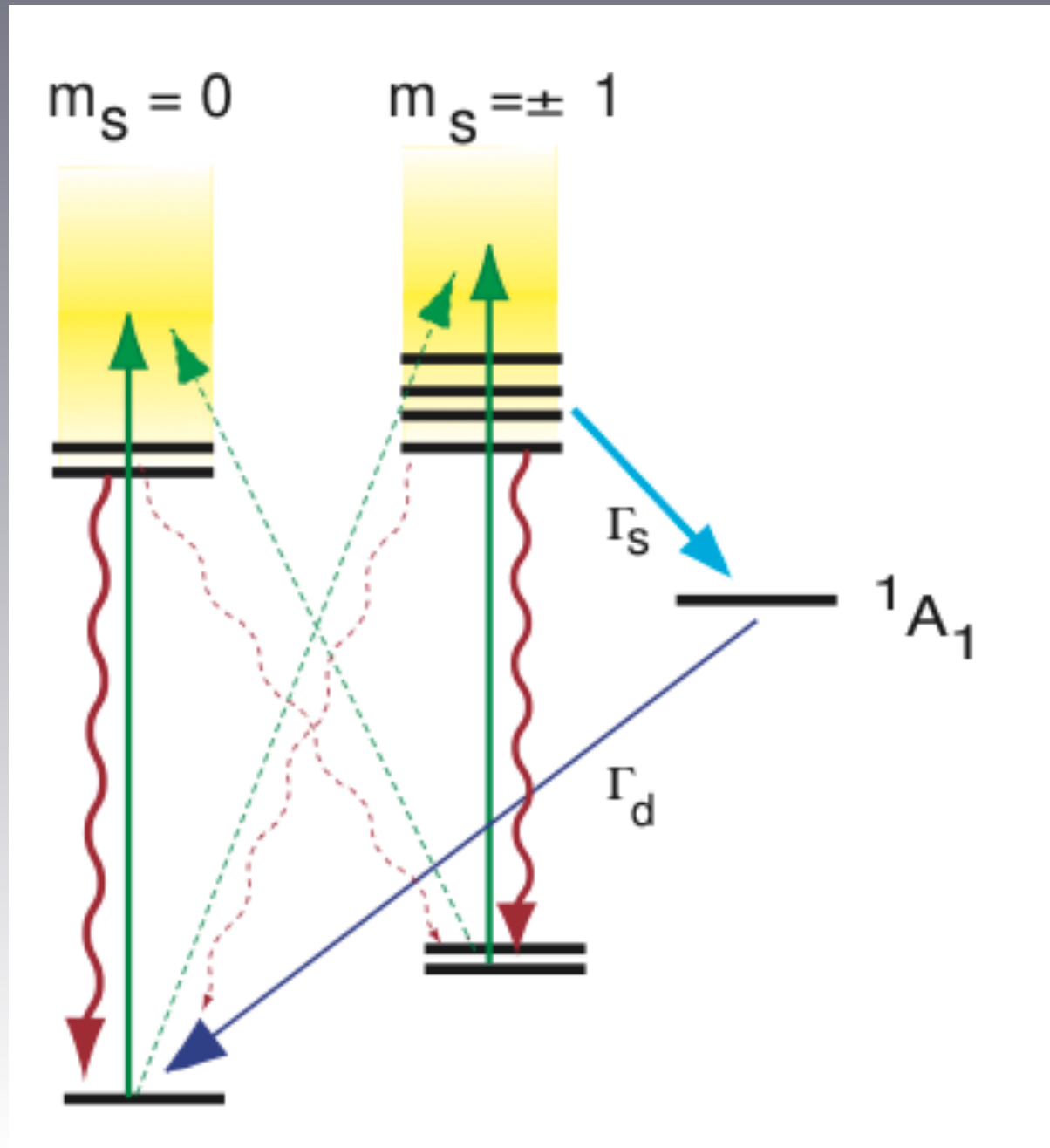


NV⁻ center

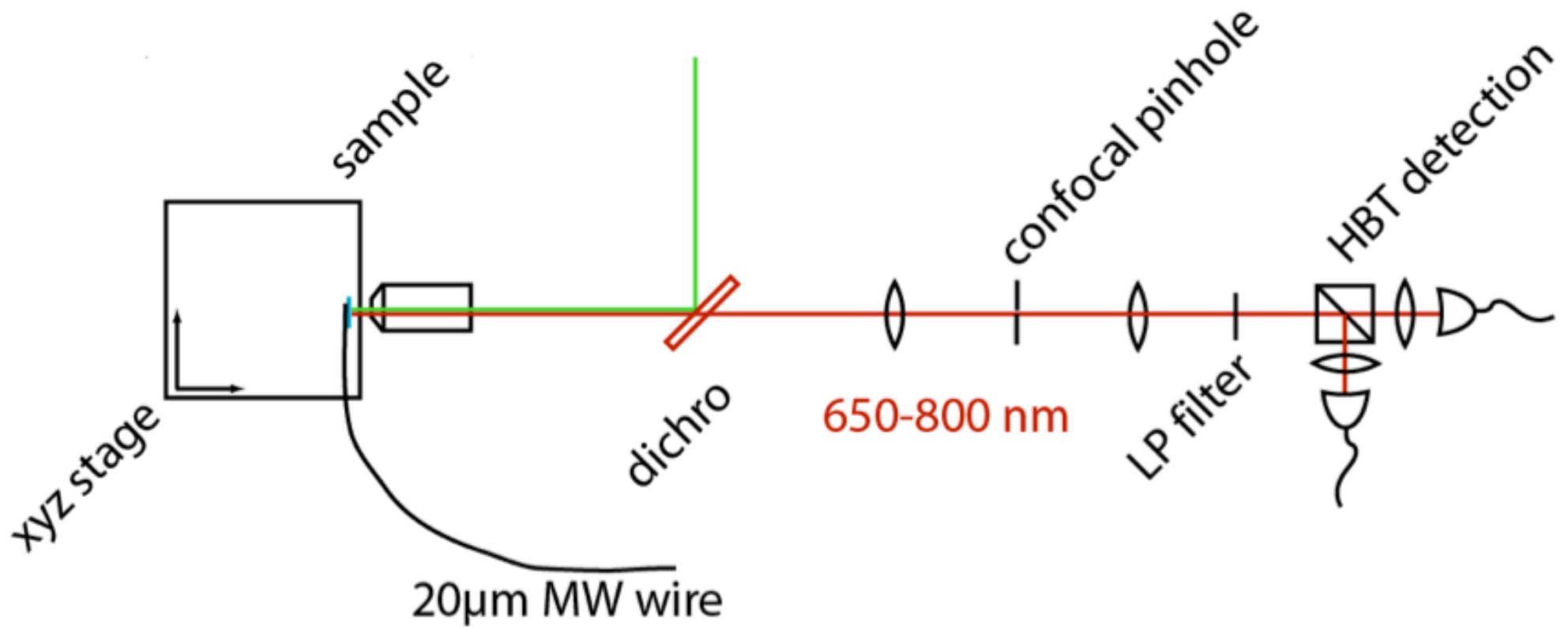




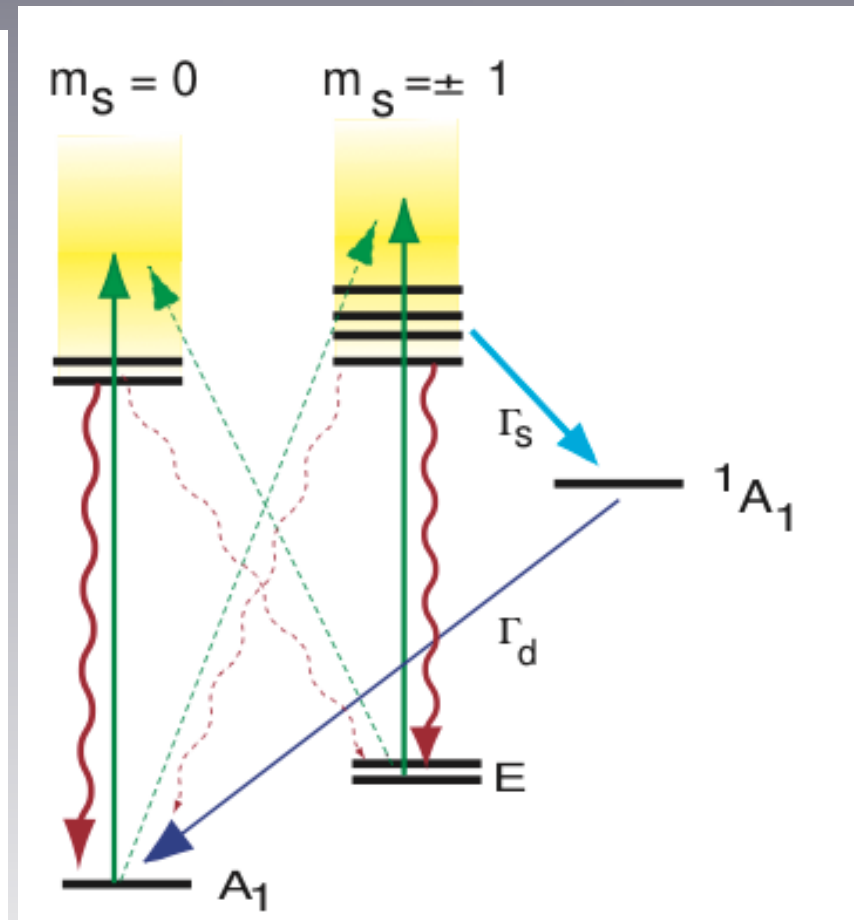
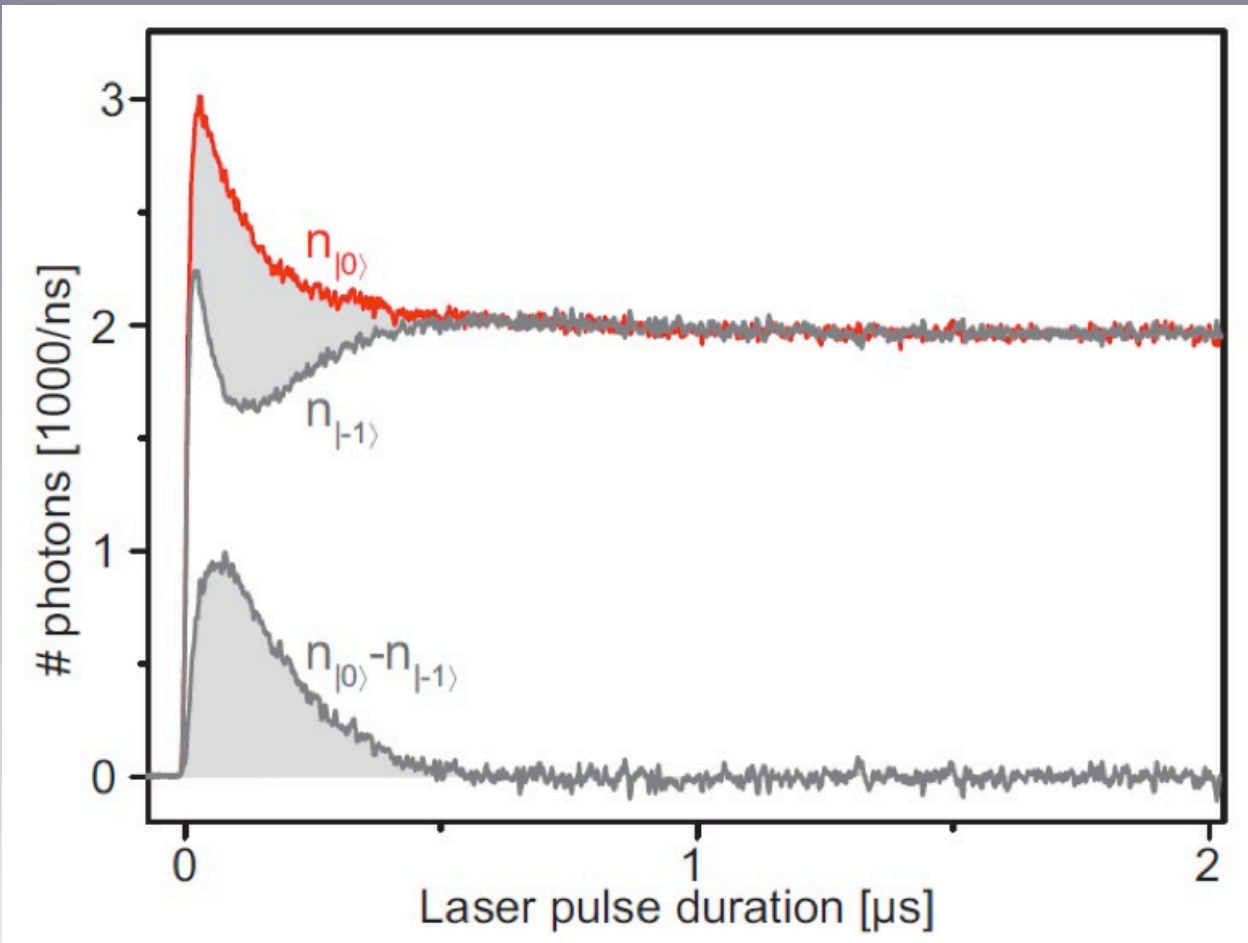
Spin Polarization



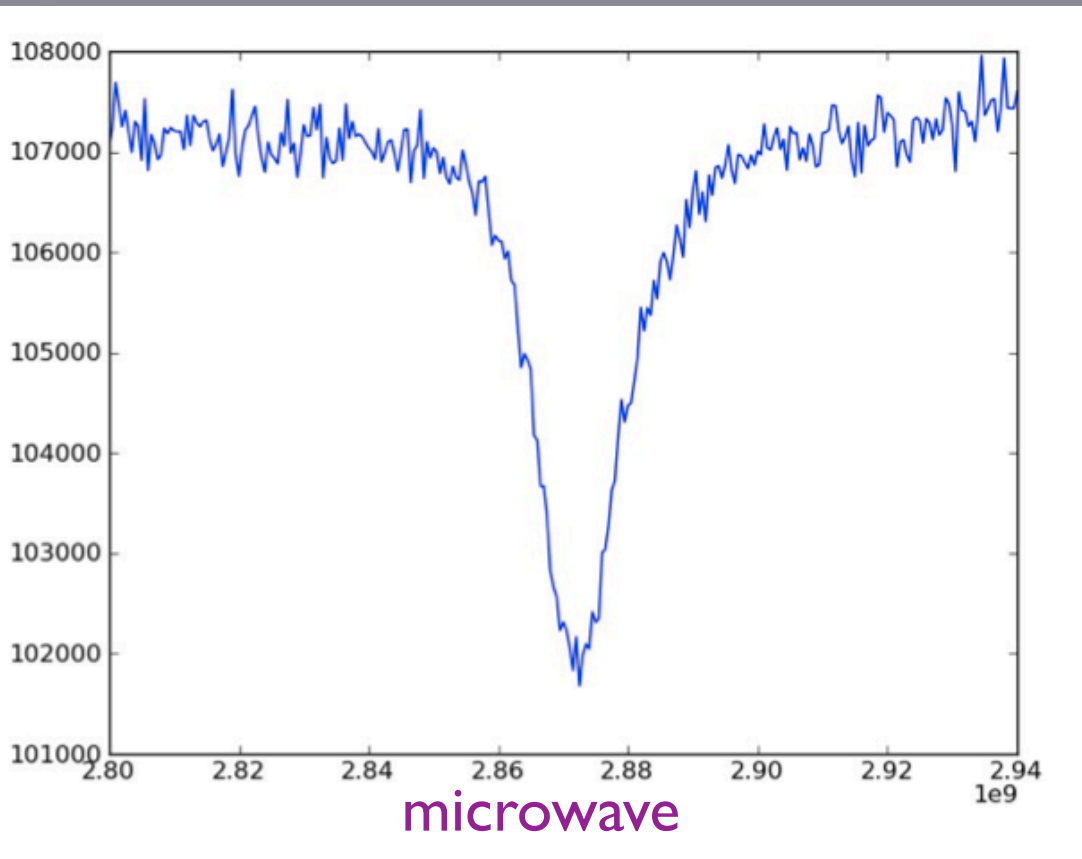
Measurement Setup



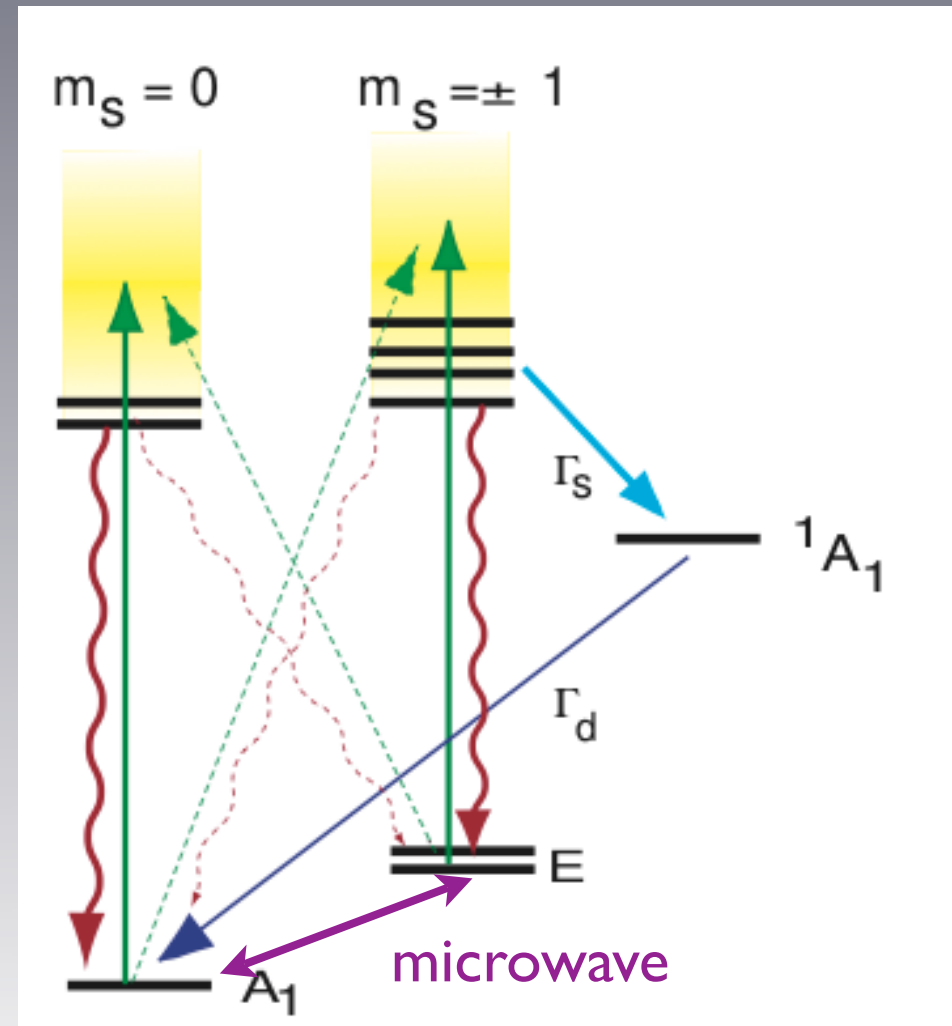
Polarization

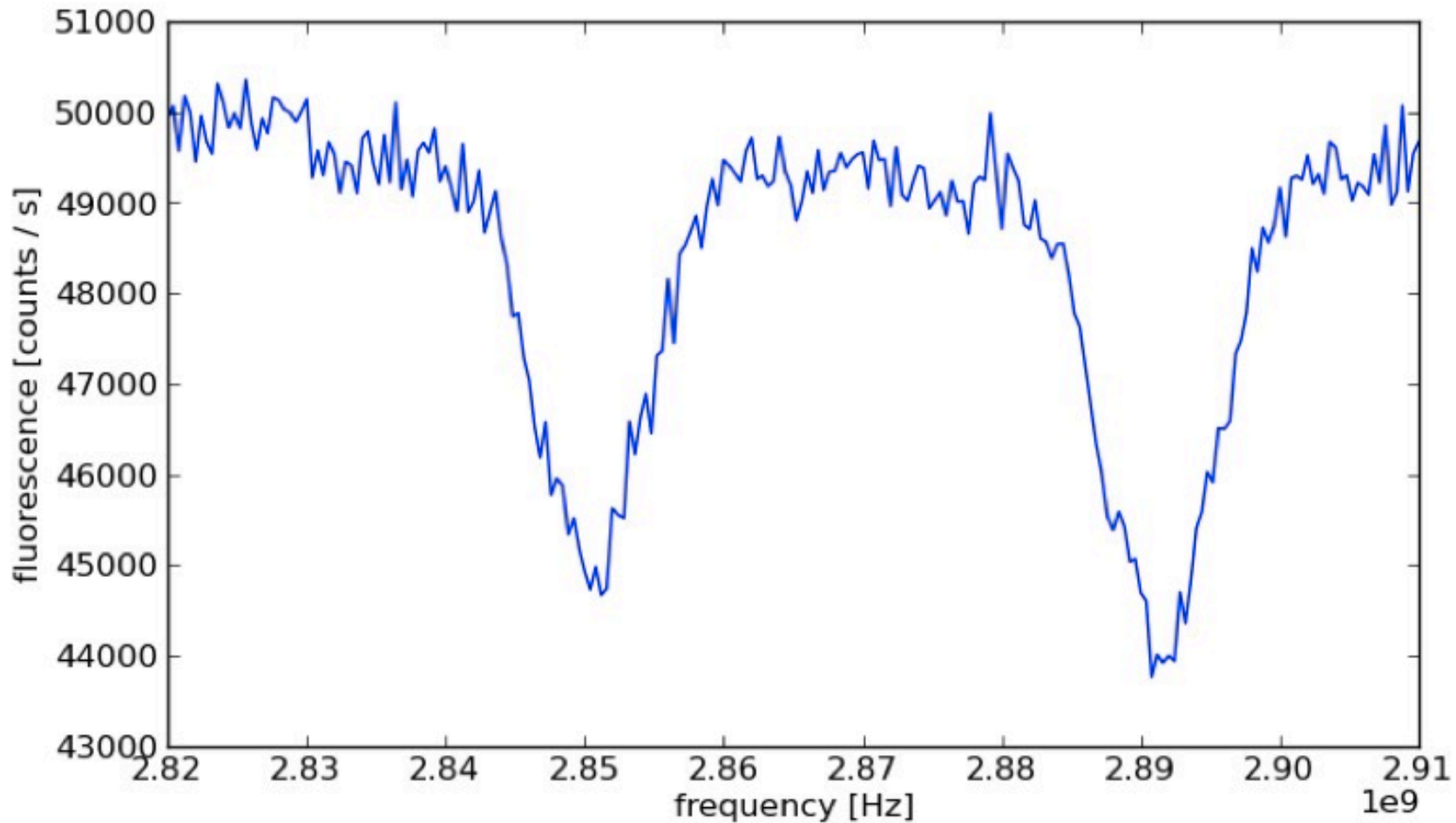


Microwave Spectroscopy



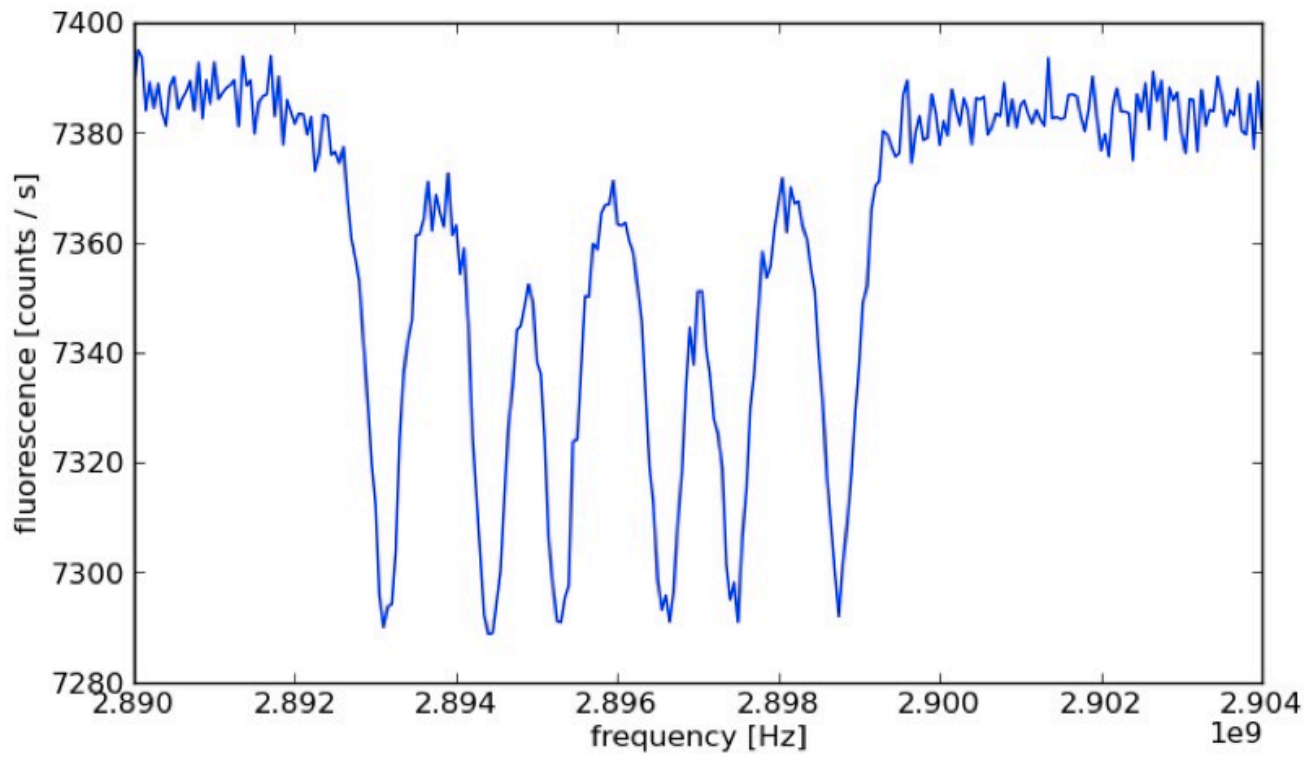
Derntl, Putz, Nöbauer





Zeeman Splitting

$$\hbar\omega = D \pm g_L \mu_B B \cos(\theta)$$



^{14}N : $I=1$
 ^{13}C : $I=1/2$

