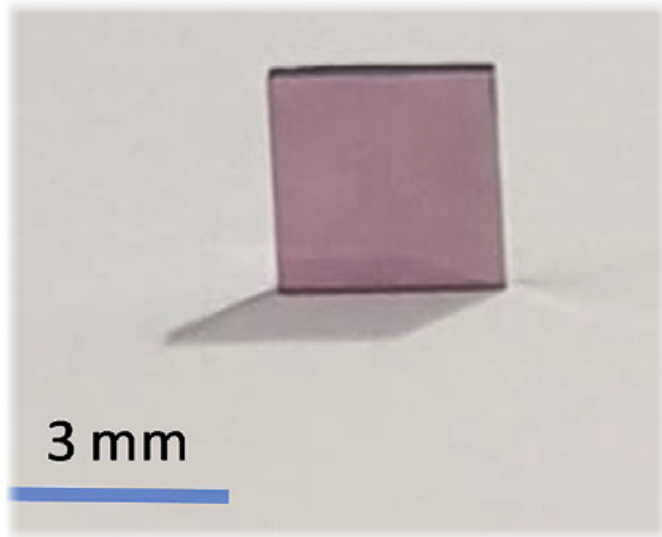
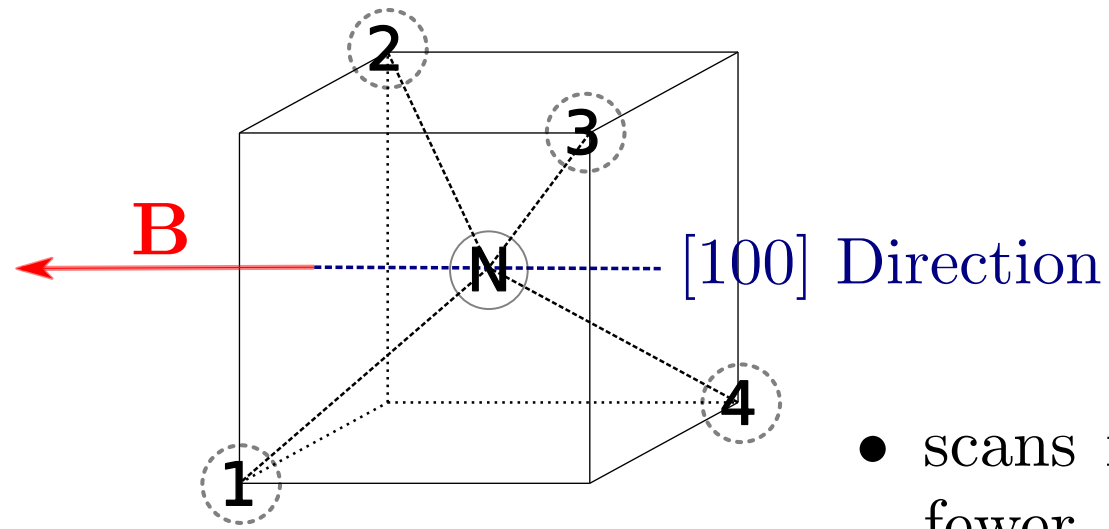


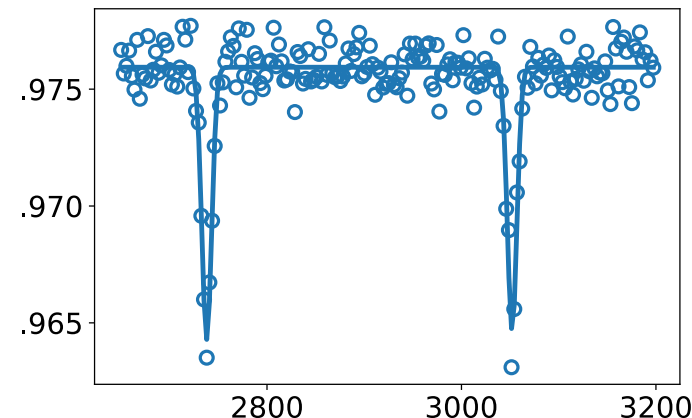
- Cross-relaxation require a high concentration of NV centers (a few ppm) to increase dipolar coupling
→ Previous studies done on HPHT sample
- Scans always done on the $[111]$ direction to prevent depolarization at high field



CVD pink diamond (~ 5 ppm NV)
Provided by Alexandre Tallaire



ODMR spectrum



- scans in the $[100]$ leads to fewer and sharper cross-relaxation conditions.
- limited to ~ 200 G because of the transverse field