Frequencies for the $|0\rangle \rightarrow |-1\rangle$ transition for all four classes of NV 2900 E 2800 Sample: Hedneucy 2500 2500 $15 \ \mu m \ HPHT$ $\sim 5 \text{ PPM NV}$ (Adamas) Photoluminescence 1.0000 0.9975 0.9950 0.9925 Corresponding 0.9900 photoluminescence 0.9875 -20 60 40 80 0 100