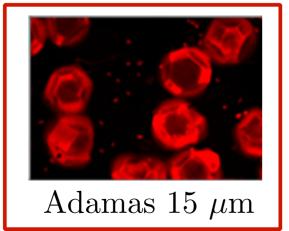
## Experimental setup LIA signal (V) 5 Lock in Demodulated PL ref in out -100100 DM $B_0$ (G) 520 nm laser Direct PL 1.00 contrast APD $B_0 + \tilde{B}_{AC}$ 0.98 $ilde{U}_{ m AC}$ 0.96 Ampli $U_0$ LĒ 0.94 -100100 $B_0$ (G) Samples Experimental parameters



- $f_{\rm mod} \sim 1 \text{ kHz}$
- $|B_{\rm mod}| \sim 10 \; {\rm G}$
- $I_{\rm las} \sim 1 \ {\rm mW}$
- PL  $\sim 1 \ \mu W$