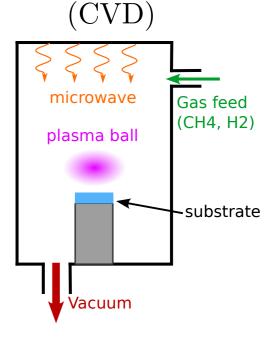
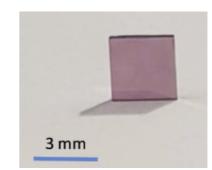
Highe Pressure High Temperature (HPHT) $T = 1300 \sim 1600 \, ^{\circ}C$ NV center $P=5\sim6$ GPa graphite $\Delta T =$ $20 \sim 50 \, ^{\circ}\mathrm{C}$ Diamond Diamond N_s (P1 center) Adamas $15/150 \ \mu \text{m}$

 $[NV] \approx 3 \text{ ppm}$ $[P1] \approx 100 \text{ ppm}$



Chemical Vapour Deposition



IRCP-LSPM $[NV] \approx 4.5 \text{ ppm}$ $[P1] \approx 25 \text{ ppm}$

Tallaire, A., et al (2020). Carbon, 170, 421-429.