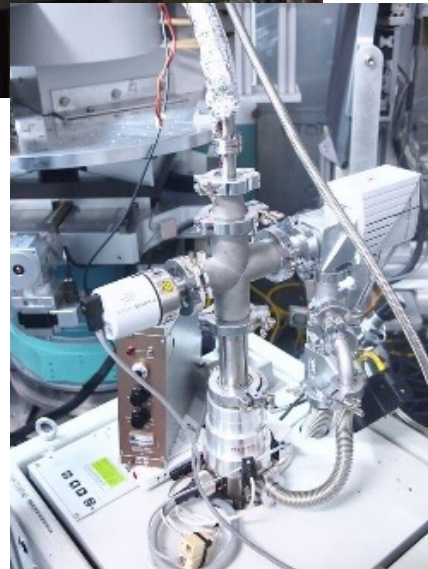


Unique experiments on MR :

PNR experiments on Spontelectric films - new class of spontaneously polarized molecular solids grown *in situ* on magnetic reference layer

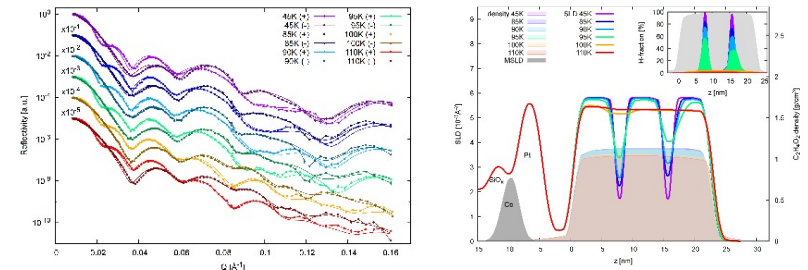


- **'Spontelectric solids'** - a new form of molecular solid which spontaneously harbor electric fields of 10^8 Vm^{-1}
- **Potential applications:** in molecular optoelectronics, quantum well formation, solid-state q-bits, and nano-ion traps
- **The implications of this phenomenon** range from understanding VUV spectra for condensed molecular solids to models of star formation

❑ Dedicated PNR setup to study molecular diffusion in layered spontelectric solids

❑ growth *in situ*, under clean high vacuum conditions at cryo-temperatures

Methyl formate



A. Cassidy et al, *ChemCom*, 2021