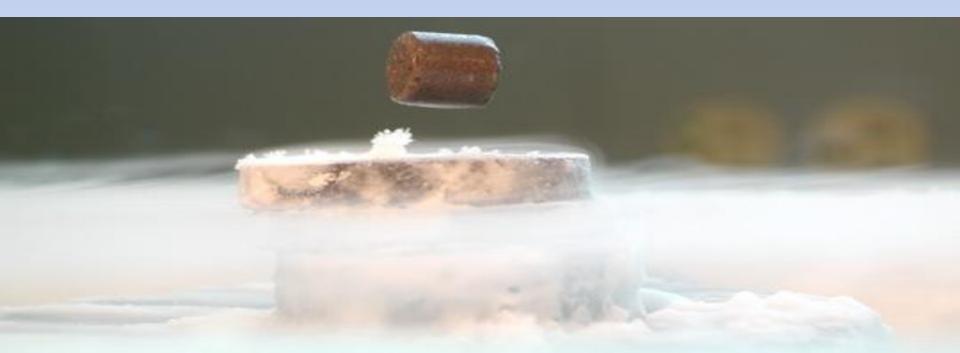
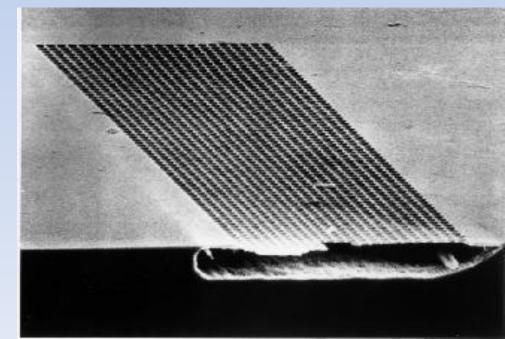
Condensed Matter Experiment at UBC

Studies the physical properties of materials Develops new materials and artificial structures Drives the development of future device technology



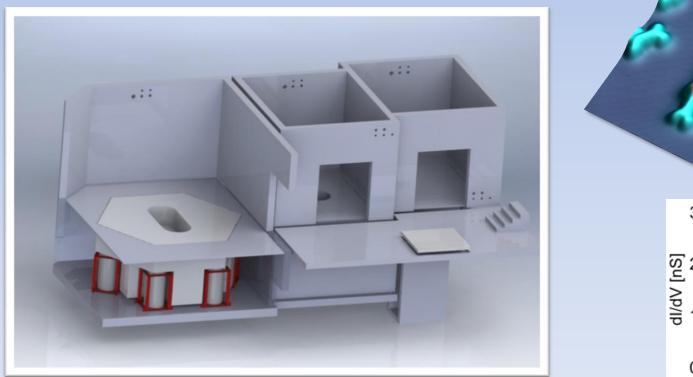
Materials and Structures

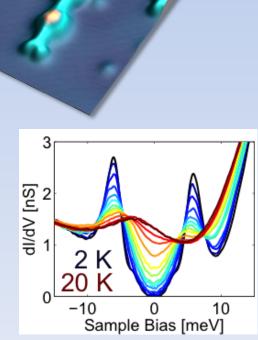
- Bonn single crystal growth, cuprates, pnictides
- Burke organic molecules on surfaces, graphene
- Damascelli in situ growth of transition metal oxides
- Folk graphene, quantum dots
- Hoffman in-situ growth of
 - topological insulators
- **Young** nanostructures for photonics and quantum computation



Measurement Techniques

Burke - atomic force & scanning tunneling microscopy
Bonn – microwaves, transport, scanning microscopy
Hoffman – scanning tunneling microscopy/spectroscopy

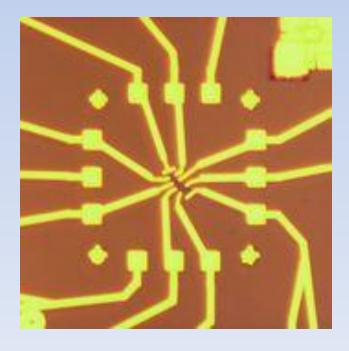


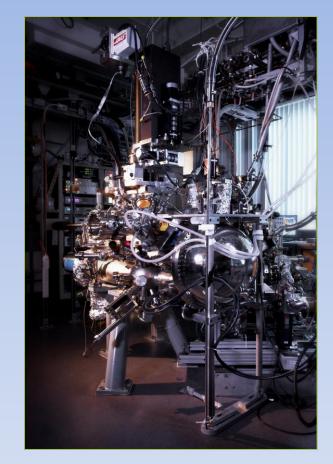


Measurement Techniques

Damascelli

angle-resolved photoemission **Sawatzky** – resonant X-ray scattering, X-ray absorption





Folk – high magnetic field measurements and transport

Major Facilities

AMPEL

Advanced Materials and Process Engineering Lab **Quantum Matter Institute** partnered with Max Planck Society



Canadian Light Source ARPES and X-Ray scattering with dedicated UBC beamlines



TRIUMF β -NMR, μ -SR (Kiefl, Macfarlane)

