

New SPM Systems

Fermi DryCool™ SPM

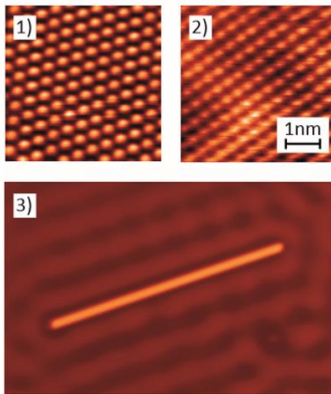
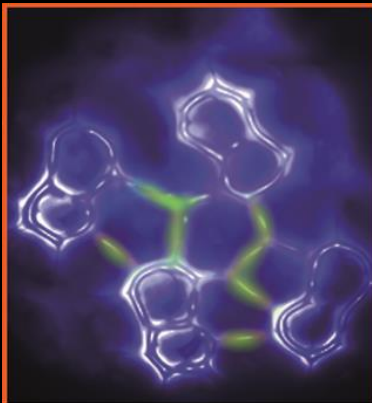


Fig. 1: STM measurement on Ag(111) at T = 9.8 K with running CC-cooler
 Fig. 2: nc-AFM QPlus measurement on Si (111)
 Fig. 3: Ag nanowire on Ag(111) surface

- Cryogen-free cooling for unlimited operation at low & variable temperatures
- Independent tip & sample temperature control from LT to above RT
- Ultra-low noise level below 1 pm with active cooling
- Superior drift performance
- Scienta Omicron's leading QPlus AFM technology

LT STM III



QPlus AFM:
 8-hydroxyquinoline molecular assemblies on Cu(111).
 Xiaohui Qiu et al. (China)



- Extended hold times to > 65 hours
- STS with $\Delta E < 1$ meV
- New cabling for GHz signals for improved time resolution
- Scienta Omicron's leading QPlus AFM technology

Tesla JT SPM



Ultra-compact TESLA JT SPM head.
 The use of non-magnetic material allows for the operation at virtually any magnetic field.

- Imaging at T < 1.4 K and B > 3 T
- >120 hours of hold time with active magnet
- Optical access in-situ for ease of use and deposition
- Scienta Omicron's leading QPlus AFM technology