

Master Thesis

starting 2017

(in experimental physics, physical chemistry, nano science)

Covalent Network Formation of Corrole Molecules Studied by Scanning Tunneling Microscopy

Topic: The work addresses the adsorption behavior, self-alignment and thermally induced network formation of metallo-corrole molecules on a single-crystalline noble metal surface under ultra-high vacuum conditions.

The main experimental tool will be a low-temperature scanning tunneling microscope (LT-STM) offering sub-nanometer spatial resolution and meV energy resolution for performing local conductance spectroscopy over selected positions of individual adsorbed corrole molecules.

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