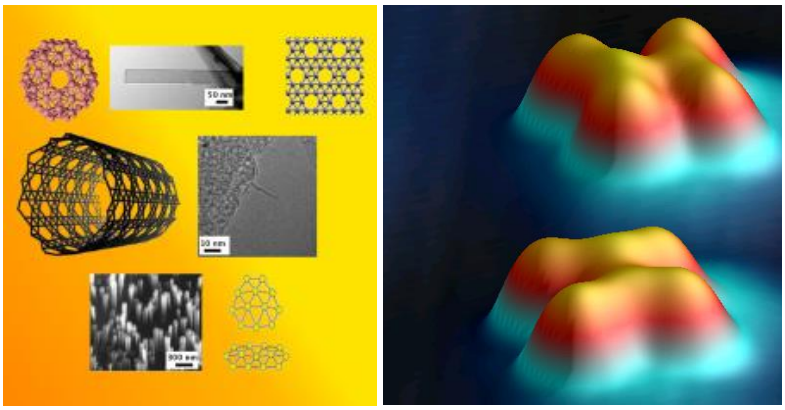
SoSe 2019 | LECTURE ANNOUNCEMENT

NANOSTRUCTURED MATERIALS



TIME	Lecture: Tuesdays 2. DS (09.20 a.m. – 10.50 a.m.) Exercise: Wednesdays 4. DS (1.00 p.m. – 2.30 p.m.) Lab course: on appointments
START	09.04.2018
LOCATION	**WIL/B321/H** (Lecture), **MOL/213/H** (Exercise)
LECTURERS	Prof. Dr. G. Cuniberti / Dr. L. Baraban
LANGUAGE	English
SUBJECT	The course deals with the physical properties of nanostructured materials, their fabrication and applications. Lab classes accompany the course. The following topics are discussed:

- scaling laws, mesoscopic systems, quantum effects
- bottom-up synthesis of the materials
- top-down nanostructuring via electron beam lithography, optical lithography, and scanning probe techniques
- low-dimensional systems
- nanoelectronic devices, biosensors
- microfluidics and optofluidics