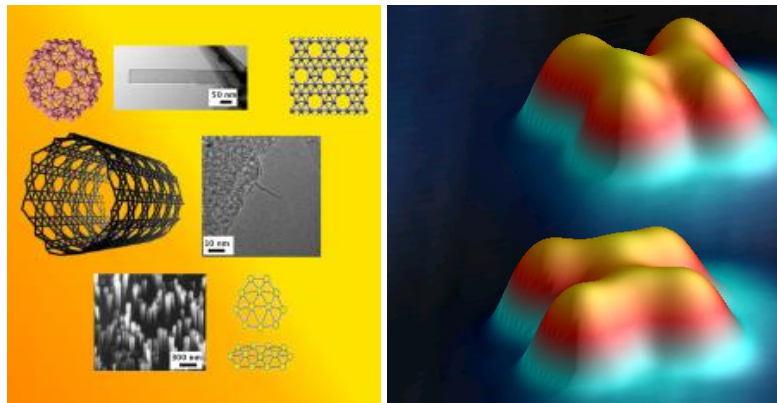


SoSe 2017 | LECTURE ANNOUNCEMENT

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	04.04.2017
LOCATION	SCH/A216/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 and their fabrication. Lab classes accompany the course. The following topics are discussed: <ul style="list-style-type: none"> • 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 • density of states and electron transport in low-dimensional systems • nanoelectronic devices, biosensors • microfluidics and optofluidics

