

International Workshop on “New Trends in Molecular Electronics and Mechanics”

Workshop Programme

Wednesday 28 th June 2017		
Time	Speaker	Title of talk
08:30 - 09:00	Registration	
09:00 - 09:30	Opening	
09:30 - 10:00	Christian Joachim	A general introduction on nanotechnology, nanomaterials and nanoscience (Including STM, AFM, 4-STM...)
10:30 - 11:00	Break and Discussion	
11:00 - 12:00	Mehrdad Atabak	Scanning Probe Microscopy Techniques for Atomic Scale Characterization and Molecular Electronics Applications
12:00 - 14:30	Lunch and Discussion	
14:30 - 15:30	Keivan Navi	Nanotechnology Design
15:30 - 15:45	Discussion	
15:45 - 16:45	Christian Joachim	Tutorial on Single molecule mechanics: gears, motors and cars
16:45 - 17:00	Break and Discussion	
17:00 - 18:00	Bertrand Georgeot	Quantum computation with small system

Thursday 29th June 2017

Time	Speaker	Title of talk
09:30 - 10:30	Christian Joachim	Tutorial and introduction on molecular electronics
10:30 - 11:00	Break and Discussion	
11:00 - 12:00	Zahra Shaterzadeh	Characterization of coupled dangling-bond pairs on a silicon surface
12:00 - 14:30	Lunch and Discussion	
14:30 - 15:30	Christian Joachim	Quantum Hamiltonian Logic gates
15:30 - 15:45	Discussion	
15:45 - 16:45	Omid Faizy	Designing QHC logic gates: on a Si(100)-H surface and using Molecules
16:45 - 17:00	Break And Discussion	
17:00 - 18:00	Sébastien Gauthier	nc-AFM and KPFM investigation of AlN(0001) surfaces and metals deposited on AlN(0001) surfaces