



# Nanoscience and Nanotechnology

## Tuesday, 15 October 2019

### Fundamental Properties: Nanotheory - Aula Thouschek (11:30 - 13:20)

time	[id] title	presenter
11:30	[27] Dynamical charge density fluctuations pervading the phase diagram of a Cu-based high-Tc superconductor	Prof. CAPRARA , Sergio
11:55	[29] Spin and Charge Transport in Two-dimensional systems in the Presence of Rashba Spin-Orbit Coupling	Prof. RAIMONDI, Roberto
12:20	[36] First-principles nonequilibrium Green's function approach to real-time simulations of correlated electrons in molecular systems	Prof. PERFETTO , Enrico
12:45	[33] A monolayer transition metal dichalcogenide as a topological excitonic insulator	Prof. VARSANO , Daniele

### Fundamental Properties - Aula Thouschek (16:30 - 18:10)

time	[id] title	presenter
16:30	[32] Phonon assisted luminescence in hexagonal Boron Nitride	Prof. CANNUCCIA , Elena
16:55	[31] Interaction of MXene and Perovskites	Prof. PECCHIA , Alessandro
17:20	[28] Phase transition and electronic structure of the antimonene/Bi <sub>2</sub> Se <sub>3</sub> van der Waals heterostructure	Prof. HOGAN, Conor
17:45	[34] Silicene on insulating substrates and in heterostructures	Prof. GORI , Paola