



MultiSuper Network

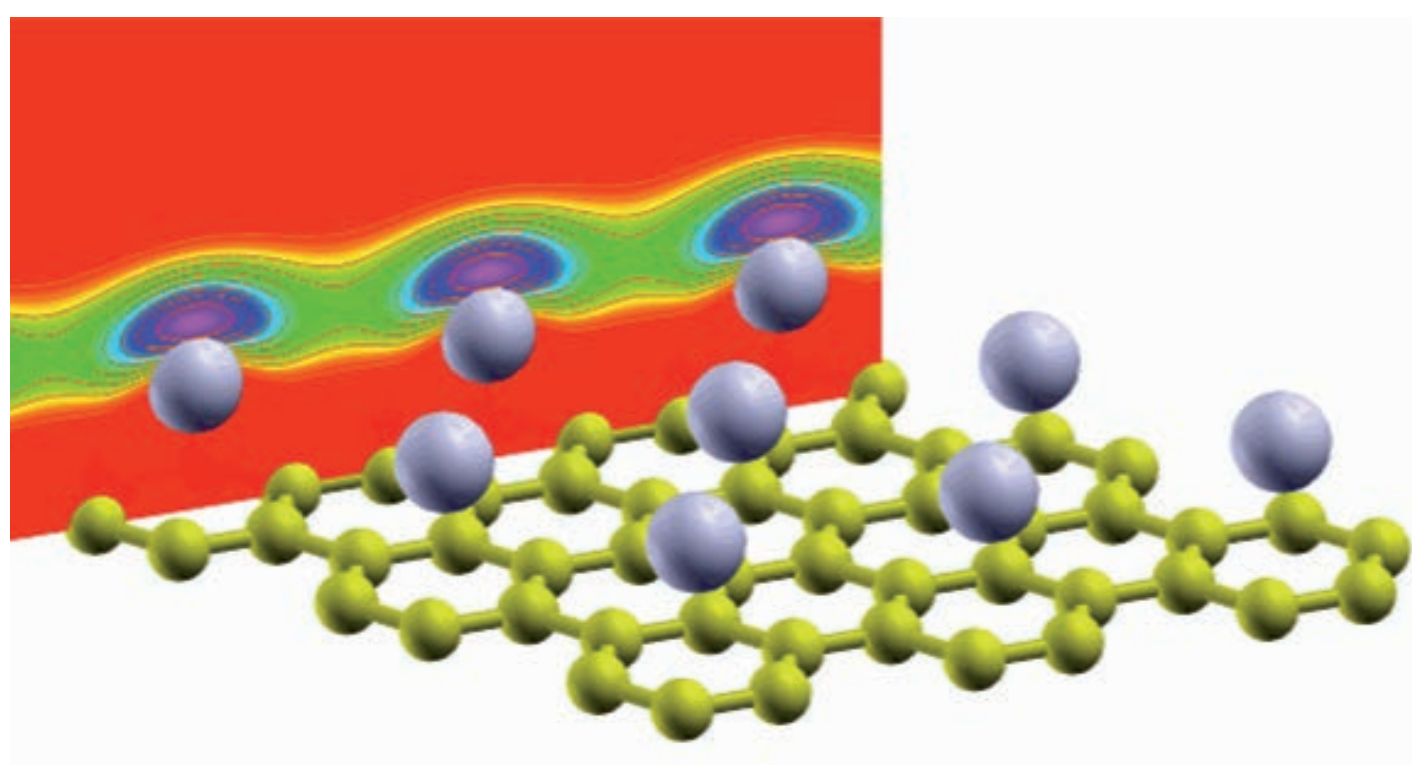


International MultiSuper Workshop 'UltraThinSuper 2016'

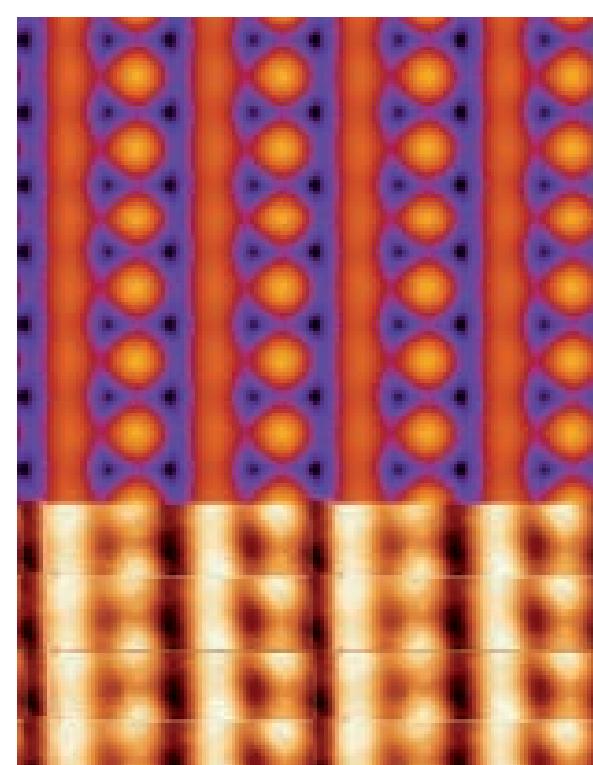
NOVEL QUANTUM PHENOMENA IN ULTRA THIN SUPERCONDUCTORS

7-8 April 2016

University of Camerino, Italy
Physics Building - Camerino



Charge density of the interlayer state in superconducting Li-doped graphene.
Courtesy Gianni Profeta group University of L'Aquila



Simulated and measured STM of magnetic iron chalcogenide FeTe surface.
Courtesy Gianni Profeta group University of L'Aquila



foto Mario Severini

The workshop is an event of the *International MultiSuper Network*
<http://www.multisuper.org>

Topics

Quantum confined superconductors: nano and ultrathin films, stripes.
Superconductivity in monolayers: graphene and iron-chalcogenides systems.
Coexistence of quantum states: pairing, charge, magnetism.
Multi-band and multi-component superconductivity in layered systems.
Electron-hole superfluidity in multilayered systems (graphene, GaAs).
Vortex phenomena at the nanoscale.
Superconducting devices engineered at the nanoscale.

Sponsored by

School of Pharmacy of the University of Camerino.

FAR project 'Control and Enhancement of Superconductivity by Engineering Materials at the Nanoscale' of the University of Camerino.

Scientific and Organizing Committee

Mauro Doria (co-director), Rio de Janeiro-Camerino
David Neilson, Camerino
Milorad Milošević, Antwerp
Andrea Perali (co-director), Camerino

Opening

Thursday 7th April 2016, 9:00 am
Physics Building, Room E (ground floor)

Participants

Christophe Berthod, Université de Genève, Switzerland
Antonio Bianconi, RICMASS, Rome, Italy
Massimo Capone, SISSA, Trieste, Italy
Sergio Caprara, University of Rome 'Sapienza', Italy
Marco Cariglia, University of Camerino, Italy and Universidade Federal de Ouro Preto, Brazil
Sara Conti, University of Camerino, Italy
Natascia De Leo, INRIM, Torino, Italy
Daniele Di Gioacchino, INFN-LNF, Frascati, Italy
Mauro M. Doria, University of Camerino, Italy and Universidade Federal do Rio de Janeiro, Brazil
Luca Flammia, University of Camerino, Italy and University of Antwerp, Belgium
Matteo Fretto, INRIM, Torino, Italy
Antonio M. Garcia-Garcia, University of Cambridge, United Kingdom
Renato Gonnelli, Politecnico di Torino, Italy
Pieralberto Marchetti, University of Padua, Italy
Milorad Milošević, University of Antwerp, Belgium
David Neilson, University of Camerino, Italy
Andrea Perali, University of Camerino, Italy
Nicola Pinto, University of Camerino, Italy
Gianni Profeta, University of L'Aquila, Italy
Javad Rezvani, University of Camerino, Italy
Dimitri Roditchev, ESPCI Paris Tech, France
Antonio Romaguera, Universidade Federal Rural de Pernambuco, Brazil
Violel Sandu, National Institute of Materials Physics, Magurele, Romania
Arkady Shanenko, Universidade Federal de Pernambuco, Brazil
Cesare Tresca, University of L'Aquila, Italy
Alexei Vagov, University of Bayreuth, Germany
Davide Valentinis, Université de Genève, Switzerland
Alfredo Vargas-Paredes, University of Camerino, Italy and University of Antwerp, Belgium
Lingfeng Zhang, University of Antwerp, Belgium

www.multisuper.org/ultrathinsuper-2016