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INVITED TALKS AT CONFERENCES 2003-October 2018

Ab-initio calculation of vibrational Raman spectra in large systems
16-18 January 2003, Trieste (Italy)
XI International Workshop on computational physics and material science

Role of anharmonicity in phonon frequencies and lifetimes of MgB₂
2-4 July 2003 Rome (Italy)
Workshop: Open questions in understanding the superconducting and normal state properties of MgB₂

Ab-initio simulation of NMR and EPR spectra in solids
1-4 September 2004, Genoa (Italy)
Conference on computational physics 2004

Ab-initio simulation of NMR spectra in solids
5-11 September 2004, Lille (France)
AMPERE/EENC European conference on NMR and EPR

Pseudopotential Hamiltonian in Magnetic field: the orbital magnetism within a pseudopotential framework
4-6 July 2005, Lyon (France)
Cecam workshop: The anomalous Hall effect: Recent advances via the geometric-phase approach

Simulations of spectroscopies by first principles codes: a useful interpretation tool for experimental data that can be accessible outside the electronic-structure community
12-13 July 2005, Rome (Italy)
ESF driven workshop on: European cyberinfrastructure for atomistic simulation of hard, soft, and biological matter

Calculation of vibrational Raman spectra in large systems by high-order density matrix perturbation theory
17-21 September 2005 Schwäbisch Gmünd (Germany)
Psi-K international conference: Toward atomistic materials design

Electron-phonon coupling and superconductivity in Ca intercalated graphite
12-14 January 2006, Cambridge (UK)
International workshop: Recent developments in computational electronic structure

Hot phonons in carbon nanotubes and superconductivity in Ca intercalated graphite
4-11 March 2006, Kirchberg (Austria)
International Winterschool on Electronic Properties of Novel Materials (IWEPNM)
2006

Electron-phonon coupling, Raman spectra, electron transport and hot phonons in carbon nanotubes
29 May-June 2006, Nice (France)
The European Materials Research Society (E-MRS) Spring Meeting

Hole self-trapping by Al impurity in quartz: a challenge for DFT
28-31 August 2006, Trieste (Italy)
International Symposium on the Jahn-Teller Effects: Novel Aspects in Orbital
Physics and Vibronic Dynamics of Molecules and Crystals

Superconductivity in intercalated graphites
21-23 September 2006, Palau (Italy)
International workshop in Computational Material Science

Non-adiabatic vibrations in doped graphene
11-13 January 2007, Trieste (Italy)
XI International Workshop on computational physics and material science

Non-adiabatic vibrations in doped graphene
28 May- 1 June 2007, Strasbourg (France)
The European Materials Research Society (E-MRS) Spring Meeting

Current saturation and hot phonons in carbon nanotubes at high field
June 21-22 2007, Trieste (Italy)
International workshop in honor of Roberto Car's 60th birthday

Non-adiabatic vibrations in doped graphene
28-30 May 2007, San Sebastian (Spain)
Ab-initio approaches to electron-phonon coupling and superconductivity

Electron-phonon coupling and superconductivity in intercalated graphites from first-principles
28-30 September 2007, Manchester (UK)
Workshop on solving the Bogoliubov-de Gennes and Gross-Pitaevskii equations
for superconductors, superfluids and BEC

Probing the doping in metallic and semiconducting carbon nanotubes by Raman
1-8 March 2008, Kirchberg (Austria)
International Winterschool on Electronic Properties of Novel Materials (IWEPNM)
2008

Giant violation of the adiabatic Born-Oppenheimer approximation in the vibrational Raman spectra of layered metals
23-27 June 2008, Trieste (Italy)
CPMD2008 - Conference on modeling and computation of structure and dynamics
of condensed phase systems

Giant violation of the adiabatic Born-Oppenheimer approximation in the vibrational Raman spectra of layered metals

25-29 August 2008, Trieste (Italy)
ICTP Conference Graphene Week 2008

Stability, chemical structure and Clar's aromatic sextets in graphene hydrogenated edges

7-14 March 2009, Kirchberg (Austria)
International Winterschool on Electronic Properties of Novel Materials (IWEPNM) 2009

Electron-phonon interaction within GW in graphite and graphene: correlation effects beyond DFT

21-22 March 2009, Berkeley (US)
Frontiers in Condensed Matter Physics and Nanoscience: A Symposium in Honor of the 60th Birthday of Steven G. Louie

Stability, chemical structure and Clar's aromatic sextets in graphene hydrogenated edges

22-26 March 2009, Lake City (US)
237th ACS National Meeting and Exposition

Stability, chemical structure and Clar's aromatic sextets in graphene hydrogenated edges

31 August - 4 September March 2009, Lyon (France)
DFT09- 13th International Conference on the Applications of Density Functional Theory in Chemistry and Physics

Transport, current saturation and hot phonons at high bias in metallic nanotubes and graphene

5-8 October 2009, centre Paul Langevin, Aussois (France)
Plenary conference of the GDR "Mesoscopic Quantum Physics"

Three lectures on graphene: Raman spectroscopy, charge transport, ribbons and edges

14-25 December 2009, Hanoi (Vietnam)
ICTP Regional School on Physics at the Nanoscale

Transport in graphene at high bias: current saturation and Klein tunneling

6-13 March 2010, Kirchberg (Austria)
International Winterschool on Electronic Properties of Novel Materials (IWEPNM) 2010

Transport in graphene at high bias: current saturation and Klein tunneling

15 - 18 August 2010, Physikzentrum Bad Honnef Bonn (Germany)
457. WE-Heraeus-Seminar: Graphene Electronics - Material, Physics and Devices

Two lectures on charge transport in graphene and carbon nanotubes

17 - 28 May 2010, ICTP Trieste (Italy)
ICTP Spring College on Computational Nanoscience

Tutorial lecture: Ab-initio calculation of resonant Raman spectra in graphene
26 Feb - 5 March 2011, Kirchberg (Austria)
International Winterschool on Electronic Properties of Novel Materials (IWEPNM)
2011

How to Make Graphene Superconducting
29 August - 3 September 2011, Cambridge (UK)
SCES 2011 - Commemorating 100 Years of Superconductivity

How to Make Graphene Superconducting
14-16 September, 2011, Lancaster (UK)
Workshop on First-Principles Computational Methodologies for Two-Dimensional
Materials

Resonant Raman spectra in graphene
23-17 January 2012, Ecully (France)
Annual meeting of the GDR-I Graphene and Nanotubes Science and Applications

*Charge density waves, pseudo-gaps, superconductivity in bulk and exfoliated tran-
sition metal dichalcogenides*
25-27 September 2012, Abbaye des Premontres Nancy (France)
DARPA Workshop: Two-Dimensional Materials Beyond Graphene

Superconducting graphene
23-26 April 2013, Bilbao (Spain)
Graphene 2013

Electron-phonon interaction and superconductivity in graphene
24-28 June 2013, Aalto University, Espoo (Finland)
NT13

*Electron-phonon interaction and superconductivity in intercalated graphite and
graphene*
9-13 September 2013, Milano (Italy)
FISMAT

*Stochastic Self-Consistent Harmonic Approximation: Inverse Isotope Effect in
Palladium Hydride superconductors*
November 2013, Trieste (Italy)
Frontiers of Condensed Matter Physics

*Stochastic Self-Consistent Harmonic Approximation: Inverse Isotope Effect in
Palladium Hydride superconductors*
17-20 June 2014, Trento (Italy)
ECT* workshop on "New Frontiers in Multiscale Modelling of Advanced Materials
- MAM1"

*Phonon-mediated superconductivity in ZrNCl: universal enhancement in 2D ma-
terials in the low doping limit*
9-11 July 2014, Dublin (Ireland)
Flatlands Beyond Graphene (FBG) 2014

Superconductivity in flatland: universal enhancement in 2D semiconductors at low doping

6-14 March 2015, Kirchberg (Austria)

International Winterschool on Electronic Properties of Novel Materials (IWEPNM) 2011

Superconductivity in flatland: universal enhancement in 2D semiconductors at low doping

25-28 May 2015, Foz do Iguacu (Brazil)

2015 Brazilian Physical Society Meeting (XXXVIII ENFMC)

Superconductivity in flatland: universal enhancement in 2D semiconductors at low doping

13-17 July 2015, Donostia-San Sebastian (Spain)

Interaction effects in graphene and related materials

Superconductivity in flatland: universal enhancement in 2D semiconductors at low doping

28 September- 2 October 2015, Palermo (Italy)

FisMat2015

Hydrogen sulphide at high pressure: a strongly-anharmonic phonon-mediated superconductor

17-19 December 2015, Rome (Italy)

Ugo Fano Gold Medal Ceremony and Ugo Fano symposium

Anharmonic matter: charge-density-waves in dichalcogenides and hydrogen sulfide superconductor

13-20 February 2016, Kirchberg (Austria)

International Winterschool on Electronic Properties of Novel Materials (IWEPNM) 2016

Enhancement of spin susceptibility, electron-phonon coupling and superconductivity by electron-electron interaction in doped 2D semiconductors

6-8 May 2017, Barcellona (Spain)

Graphene Flagship EU-Japan Workshop Graphene and related 2D materials and heterostructures

Anharmonic phonons and second-order phase-transitions by the stochastic self-consistent harmonic approximation

March 13-17, 2017; New Orleans (US)

APS March Meeting 2017

Anharmonic phonons and second-order phase-transitions

September 13-15, 2017 Rome (Italy)

Physics and chemistry of emerging superconductors and thermoelectric materials

Magnetic Band-Gap Opening Rhombohedral-stacked Graphene: a platform for spintronic devices

December 18-19, 2017 Rome (Italy)

2D layered materials for opto-electronics: a theoretical/computational perspective
mbox

Flat bands, magnetism, half-metallic behavior and spin current polarization in multilayer rhombohedral graphene

March 18-23 2018, Kirchberg (Austria)

International Winterschool on Electronic Properties of Novel Materials (IWEPNM) 2018

Anharmonic phonons and second-order phase-transitions by the stochastic self-consistent harmonic approximation

22-24 May 2018 - Louvain-la-Neuve, (Belgium)

Workshop: Electron-phonon interaction and its effects in condensed matter and reduced dimensionality systems

ORGANIZED WORKSHOPS AND CONFERENCES

15 Mai- 9 June 2000 ICTP, Trieste (Italy)

ICTP Spring college on “Electronic structure approaches to the physics of materials”

July 2001 CECAM, Lyon (France)

CECAM/Psi-K workshop “Application of first-principle methods in geophysics”

8-10 January 2009 ICTP, Trieste (Italy)

14th International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods

9-12 June 2009 E-MRS Spring Meeting Strasbourg (France)

E-MRS Spring Meeting. Symposium N: Carbon Nanotubes and Graphene ? Low Dimensional Carbon Structures

15-17 June 2009 CECAM, Lausanne (Swiss)

CECAM/Psi-K workshop “Orbital Magnetization in Condensed Matter”

9-10 May June 2016 Rome (Italy)

1st International Workshop SUPERHYDRIDES Towards Room Temperature Superconductivity: Hydrides and More”

SERVICES ON PROGRAM COMMITTEES OF INTERNATIONAL CONFERENCES

Since 2008-today committee member of the annual edition of the International Winterschool on Electronic Properties of Novel Materials
Kirchberg (Austria)

21-26 June 2009, Beijing, China

NT09: Tenth International Conference on the Science and Application of Nanotubes

Since 2011-today, committee member of the annual edition of the International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods