

# Doctoral School of Physics - University of Trieste

## YEAR-END SEMINARS

### Solid State Physics

**Monday Nov 25<sup>th</sup> 11:15 lecture room D**  
**Physics Department, via Valerio**

11:15 - FILIASI

Physical and Mathematical Models for Financial Risk Evaluation

11:40 - DI FRAIA

Time-Resolved and Imaging Techniques for Photoionization Studies of Atoms,  
Molecules and Clusters

12:15 - ESPOSITO

Pulsed homodyne detection applied to study quantum effects in out-of-equilibrium  
matter-light interactions

12:30 - PIVIDORI

Molecular lattice on a metal surface: a computational approach (via skype from  
EPFL)

**Wednesday Nov 27<sup>th</sup> 16:30 lecture room B**  
**Physics Department, via Valerio**

16:30 - BATTISTONI

Broad band acoustic spectroscopy in disordered systems

16:55 - GIANGRISOSTOMI

Matter under extreme and metastable conditions investigated by femtosecond  
pump-probe experiments

17:30 - CASOLARI

Coherent Diffractive Imaging (CDI) experiments at the DiProI beamline

17:45 - FERRARI

Impact on performance of non-Gaussian electron-energy heating of a seeded free  
electron laser

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### Theoretical Physics

**Monday Nov 25<sup>th</sup> 10:30 lecture room 204**  
**Physics Department, Miramare**

10.30 - CAROLLO

Algebra of fluctuation operators

10.50 - GASBARRI

Quantum linear Boltzmann equation

11.10 - TITIMBO

Ultrafast Dynamics of Phonons by Pump-Probe Technique

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Nuclear and subnuclear physics

**Wednesday Nov 27<sup>th</sup> 13:30, lecture room A**  
**Physics Department, via Valerio**

**13:30 - CUMANI**

Study of different configuration of the GAMMA-400 apparatus

**13:55 - UMER**

b-tagging and c-tagging tools & algorithms

**14:10 - PANIZZO**

New Physics signals from measurable polarization asymmetries at LHC

**14:35 - COSTA**

Breast unit: a tool for multimodality non-rigid registration of breast images

**14:50 - LA LICATA**

Associated production of a Z boson and b-tagged jets

**15:15 - FEDON**

Monte Carlo Dosimetric Evaluations for Breast Mammography with Synchrotron  
Radiation

**15:30 - CAFARO**

Preliminary RPA definition via conditional simulations

**15:55 - SCHIZZI**

Associated production of a Z boson and hadronic jets

**16:15 - DOGO**

Progress in statistical models of DNA repair-misrepair dynamics

**16:40 - MUNINI**

Time dependent galactic cosmic rays electrons and positrons and Solar Flares with  
PAMELA

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Astrophysics

**Monday Nov 25<sup>th</sup> 14:00 seminar room**  
**Physics Department, Villa Bazzoni**

**14:00 - POMANTE**

Study of the Intergalactic Medium with high resolution spectroscopy of Quasars

**14:25 - COSTANZI**

Cosmology with massive neutrinos: constraints from the study of the galaxy clusters

**14:50 - GOZ**

Numerical simulation of galaxies in cosmological volumes

**15:05 - ANNUNZIATELLA**

The stellar mass function of MACSJ206"

**Doctoral School of Physics - University  
of Trieste**

**PhD STUDENTS SEMINARS**

**Thursday Nov 28<sup>th</sup> 9:00 lecture room B  
Physics Department - via Valerio**

**9:00 - CANDELISE Vieri**

Measurement of the associated production of a Z boson and b quarks in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the CMS experiment at LHC

**9:50 - FORMATO Valerio**

Measurement of nuclear and isotopic composition of galactic cosmic rays with the PAMELA experiment.

**10:40 Coffee break**

**11:00 - SALVINI Simona**

Double Parton Scattering in proton-nucleus collisions

**11:50 - BIANCO Raffaello**

Chern Invariant and Orbital Magnetization as Local Quantities

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**Thursday Nov 28<sup>th</sup> 14:30 lecture room A  
Physics Department, via Valerio**

**14:30 - DONADI Sandro**

Electromagnetic Radiation Emission and Flavour Oscillations in Collapse Models

**15:20 - CONTINI Emanuele**

Galaxy Populations in Clusters and Proto-Clusters

**16:00 Coffee break**

**16:30 - GIACOBBE Paolo**

Photometric transit search for planets around cool stars from the Western Italian Alps: the APACHE survey.

**17:20 - GRIECO Valentina Luciana**

Gamma Ray Bursts, Supernovae and identification of the hosts by means of chemical evolution models

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**Friday Nov 29<sup>th</sup> 9:00 lecture room B  
Physics Department, via Valerio**

**9:00 - MUNARI Emiliano**

The mass distribution in galaxy clusters from their internal dynamics

**9:50 - ARGENTIERI Giuseppe**

Entanglement and entropy production in Open Quantum Systems

**10:40 Coffee break**

**11:00 - ORLANDO Fabrizio**

Physical properties and functionalization of low-dimensional materials