

Highlights in Solid State Physics - Workshop in memory of Giuseppe Pastori Parravicini

Friday 24 April 2020, University of Pavia, Department of Physics

TENTATIVE PROGRAMME (updated 21/02/2020)

Thursday 23 April at 20h: Social dinner at Collegio Cairoli, Piazza Collegio Cairoli 1, Pavia

Friday 24 April, Department of Physics, via Bassi 6, Pavia – Aule 101 e 102

- 9.00-9.10 **Opening**
- 9.10-9.30 Erio Tosatti (SISSA and ICTP, Trieste): *“Theory of solids in Italy – from birth to adult age”*
- 9.30-9.50 Giovanni Vignale (University of Missouri): *“Many-body effects in graphene”*
- 9.50-10.10 Paolo Giannozzi (University of Udine): *“Electronic-structure computation in solid state physics and beyond”*
- 10.10-10.30 Giovanni Pizzi (EPFL): *“Automated high-throughput Wannierisation”*
- 10.30-11.00 *Coffee break*
- 11.00-11.20 Stefano Baroni (SISSA Trieste): *“The importance of being non-local: excitons, TDDFT, and Peppino's lesson”*
- 11.20-11.40 Silvana Botti (University of Jena): *“Structural prediction and computational materials design: from bulk to interfaces”*
- 11.40-12.00 Alessandro Cresti (CNRS, Grenoble INP, IMEP-LAHC): *“Electron transport along and across disordered mirror twin grain boundaries in MoS₂”*
- 12.00-12.20 Iacopo Carusotto (CNR-INO BEC Center Trento): *“Topology in band structures, from electrons to phonons and photons”*
- 12.20-12.40 Sandro Scandolo (ICTP Trieste): *“A solid-state physicist's journey to the centers of planets”*
- 12.40-14.00 *Lunch break*
- 14.00-14.20 Carlo Piermarocchi (Michigan State University): *“Spin Glass Models of Cancer Cells”*
- 14.20-14.40 Mario Agio (University of Siegen): *“Ultrafast coupling of light with quantum emitters”*
- 14.40-15.00 Marco Fornari (Central Michigan University): *“Sleeping phonons and dancing electrons: the thermoelectric conundrum”*
- 15.00-15.20 Matteo Cococcioni (University of Pavia): *“Electronic localization, valence shift, and energetics in materials for rechargeable batteries”*
- 15.20-15.30 *Mini-break*
- 15.30-16.30 **Sessione in memoria di Giuseppe Pastori Parravicini, aula 102:**
Giuseppe La Rocca (SNS Pisa): *“L'eredità scientifica di Giuseppe Pastori Parravicini”*
Raffaello Girlanda (Università di Messina) *“Messina anni '60”*
Giuseppe Grosso (Università di Pisa): *“Pisa anni '70 – '80”*
Lucio Andreani (Università di Pavia): *“Pavia anni '90 – '00”*
Interventi liberi & closing
- 16.30-17.00 **Rinfresco**
- 17.00- For those who stay in Pavia: free programme (visit to laboratories, dinner...)