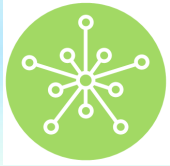
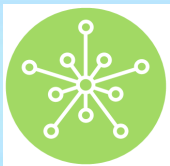


## Coorganizers



## Financial support



<http://mnl2012.ifs.hr>

[mnl2012@ifs.hr](mailto:mnl2012@ifs.hr)

**Collaborative  
Workshop  
on**

**Modulation  
&  
Nanostructuring  
in  
Layered  
Materials**

**Program**

**28 - 31 March 2012**

**Institute of Physics  
Zagreb, Croatia**

Wednesday, March 28th 2012

Arrival/Registration  
Welcome drink /Dinner

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Thursday, March 29th 2012

09:00-19:00

**Welcome address to participants**

**Introduction by** *László Forró*, collaborative coordinator

**Presentation of the Institute of Physics (IP)**

*Petar Pervan*, director

**Polytypoid Layered Nanostructures**

*Velimir Radmilović*, Belgrade, Serbia

**The Quest for novel HTS Materials**

*Ivan Božović*, BNL, USA

**Facilities at Budapest University of Technology and Economics**

*Titusz Fehér*, Budapest, Hungary

*Coffee break*

**IR spectroscopy**

*Martin Dressel/Rebecca Beyer*, Stuttgart, Germany

**Superstripes**

*Antonio Biancone*, Rome, Italy

**Signature of the long range triplet proximity effect in the density of states**

*Zoran Radović*, UniBg, Belgrade, Serbia

13.00-15:00, *Lunch break*

**Nanoscale science and novel electronic materials at EPFL**

*László Forró*, Lausanne, Switzerland

**Transport properties of the textured 1T-TaS<sub>2</sub> phase**

*Kristijan Velebit*, IP, Zagreb

**Solid state theory: correlated physics**

*Peter Prelovšek*, IJS, Ljubljana, Slovenia

17:00 -18:30, *Poster session & coffee break*

**Electron-phonon effects in perovskites and polaron theory**

*Vittorio Cataudella*, Uni di Napoli, Napoli, Italy

*Dinner and discussions*

Friday, March 29th 2012

09:00-19:00

**Optics and photonics theory group at UniZg**

*Hrvoje Buljan*, UniZg, Zagreb

**The influence of disorder and magnetic field on the inhomogeneous superconductivity in layered conductors**

*Jean-Paul Pouget*, UniParis Sud, Orsay, France

**Magnetism research at IP**

*Ivica Živković*, IP, Zagreb

**Transport measurements under high pressure and high magnetic field at IP**

*Petar Popčević/Ana Smontara*, IP, Zagreb

**New perspectives for cuprate research: CLBLCO single crystals**

*Amit Keren*, Tehnion, Haifa, Israel

*Coffee break*

**Unconventional high-T<sub>c</sub> superconductivity from repulsive interactions**

*Victor Kabanov*, IJS, Ljubljana, Slovenia

**Open problems in the research of high-temperature superconductors**

*Denis Sunko*, UniZg, Zagreb

**QM group at Cavendish Laboratory, University of Cambridge**

*John R. Cooper*, UniCambridge, Cambridge, UK

12:30-14:30, *Lunch break*

**Presentation of the project proposal “thinSplit”**

*Ante Bilušić*, UniSplit, Split

**Modelling electronic processes and devices**

*Eduard Tutiš*, IP, Zagreb

**CENN Nanocenter**

*Dragan Mihailović*, IJS, Ljubljana, Slovenia

**NanoCenter Belgrade**

*László Forró*, Lausanne, Switzerland

16:30 -19:00, *Tour of old Zagreb*

*Dinner and discussions*

Saturday, March 31st 2012

09:00-13:00

9:00-11:00, **Tour of Labs : Institute of Physics and Faculty of Science UniZg**

*Coffee break*

**Pseudogap phase and superconducting fluctuation regime of the cuprate superconductors**

*Neven Barišić*, Orsay, France

**Microwave and radiofrequency measurements in superconductors**

*Antonio Dulčić*, UniZg, Zagreb

**Grants' review**

*Ante Bilušić*, UniSplit, Split

**Short summary and conclusions**

*Eduard Tutiš*