



Bonn-Cologne Graduate School of Physics and Astronomy Intensive Week: Spectroscopic characterization of the electronic and vibrational structure of surfaces and solids

## 12. - 16. October 2015,

Seminar room - II. Phys. Institute, University of Cologne
Lecturers: Prof. Karl Michel (University of Antwerp)
Dr. Alexei Nefedov (Karlsruhe Institute of Technology)
Dr. Luca Petaccia (ELETTRA Sincrotrone, Trieste)
Prof. Jörg Fink (IFW-Dresden)



Contents of the course:

- Electrons & phonons in solids
- Near edge x-ray absorption spectroscopy
- Photoemission spectroscopy using synchrotron radiation (XPS and ARPES)
- Description of interacting electrons (ARPES data analysis)
- Optical Spectroscopies: Raman, Optical absorption, Photoluminescence

<u>Solving exercises for next day:</u> 13<sup>30</sup> - 15<sup>30</sup>

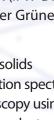
Exercise classes: 15<sup>30</sup> - 17<sup>00</sup> from Tue-Fri & 9<sup>30</sup> - 11<sup>00</sup> on Sat

<u>Audience:</u> The course is intended for MSc students who want to do a PhD in Spectroscopy/ Cond. Matt. Physics. The number of participants is limited to 12. Application deadline is Sept 1, 2015. Please register with: <u>grueneis@ph2.uni-koeln.de</u>

As a specialized course within the area of specialization of Condensed Matter Physics, 4 CP will be awarded to successful participants.

II. Physikalisches Institut, Zülpicher Straße 77, 50937 Köln





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