

13th

PSI Summer School 2014

Exploring time, energy and length scales in condensed matter

Lectures: August 9–15, 2014
 Institut Montana Zug, Switzerland

Organising committee:

J. Friso van der Veen (chair), Kurt N. Clausen, Rafael Abela, Oliver Bunk, Michel Kenzelmann, Elvezio Morenzoni, Christopher Mudry, Stefan Müller, Frithjof Nolting, Christian Rüegg, Daniela Jahns (secretary)

Registration:

<http://www.psi.ch/summerschool>

Contact: zug2014@psi.ch

Deadlines: Early registration: April 30, 2014

Regular registration: June 30, 2014

Invited speakers

Peter Abbamonte (University of Illinois); N. Peter Armitage (The Johns Hopkins University); Michael Coey (Trinity College Dublin); Pierre Dalmas de Réotier (CEA Grenoble, INAC/SPSMS); Peter Derlet (Paul Scherrer Institut); Christian Grünzweig (Paul Scherrer Institut); Steven Johnson (ETH Zürich); Florian Kronast (Helmholtz-Zentrum Berlin); Tom Lancaster (Durham University); Gaetano Mileti (Université de Neuchâtel); M. Pavlik Lettinga (Forschungszentrum Jülich); Rajmund Mokso (Paul Scherrer Institut); Bruce Patterson (Paul Scherrer Institut); Toby Perring (Rutherford Appleton Laboratory); Cinthia Piamonteze (Paul Scherrer Institut); David A. Reis (Stanford University); Christian Rüegg (Paul Scherrer Institut); Gebhard F.X. Schertler (Paul Scherrer Institut); Joachim Stöhr (SLAC National Accelerator Laboratory/Stanford University); Andreas Suter (Paul Scherrer Institut); Jeroen van den Brink (IFW Dresden); J. Friso van der Veen (Paul Scherrer Institut); Martin Weinelt (Freie Universität Berlin); Philippe Wernet (Helmholtz-Zentrum Berlin)

Scope

The PSI summer school 2014 is dedicated to the topic: Exploring time, energy and length scales in condensed matter. International experts and PSI staff members will introduce and deepen your knowledge of these scientific topics. Additionally, you will learn about the experimental methods applied at the large-scale facilities of PSI in order to understand the phenomena, presently at the forefront of modern solid state physics and chemistry.

Synchrotron radiation, neutron, and muon sources are used to investigate the structural, electronic and magnetic properties of condensed matter. Using these facilities, the focus of the school is the study of dynamic processes in nature and technology, over the full range of time and length scales at which they actually occur. The principles of the underlying experimental methods will be explained. Evening lectures will address the importance of time, energy and length scales in other scientific fields. Following the school a practical training at PSI is offered to a limited number of participants. The training allows a hands-on experience at the beamlines of the facilities.

Practical training:
 August 16 – 18, 2014
 Paul Scherrer Institut