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www.fz-juelich.de/jcns/JCNS-Workshop2016
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www.mlz-garching.de

JCNS operates a suite of high performance neutron scattering instruments at the Heinz Maier-Leibnitz Zentrum (MLZ) in Garching near Munich.

Location and Accommodation

Conference center of the Evangelische Akademie Tutzing at lake Starnberg in the area south of Munich.
<http://www.ev-akademie-tutzing.de/en/>
<http://www.tutzing.de>

Attendees will be accommodated on-site at the Conference Center in Tutzing. Single and double rooms are available. If the number of attendees may exceed the available number of rooms, equivalent accommodation in nearby hotels in Tutzing will be organized.



Workshop Fee

Full fee: 540 EUR (19% VAT included)
Students: 300 EUR (19% VAT included)
Third party groups: 2000 EUR (19% VAT included)
The workshop fee includes full lodging (4 nights) and board at the Conference Center and workshop dinner.
Workshop fee without accommodation:
330 EUR (19% VAT included)

After registration payment via bank transfer to

Forschungszentrum Jülich GmbH
Reference: Reference number JCNS - last name

IBAN: DE 14 3955 0110 0000 33 77 09
SWIFT/BIC: SDUEDE33XXX

Member of the Helmholtz Association

Joint JCNS-Workshop and Flipper

Modern Trends in Neutron Scattering for Magnetic Systems and Single Crystal Diffraction with Polarized Neutron

3 – 7 October 2016, Tutzing

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e-mail: jcns-workshop@fz-juelich.de



Joint JCNS-Workshop and Flipper

Modern Trends in Neutron Scattering from Magnetic Systems and Single-crystal Diffraction with Polarized Neutrons

3 – 7 October, 2016, Tutzing

In 2016 the JCNS-Workshop is dedicated to neutron scattering from magnetic systems. It will also host the workshop FLIPPER, Single-crystal Diffraction with Polarized Neutrons, which was first organized in 2010 and 2013 by the Institute Laue Langevin. This will bring related communities together and stimulate discussion and scientific exchange between them.

Scope of the Workshop

Recent realizations of emergent quasi-particles such as skyrmions, magnetic monopoles and Weyl fermions in condensed matter have stimulated tremendous research interests in fundamental studies of quantum materials and nanomagnetism, as well as in realizing their potential applications for future information technology. As unique probe for studying magnetism, neutron scattering matches the entire range of length- and time-scales relevant for many novel magnetic and electronic phenomena. In the present JCNS-Workshop, the current status and future trends in neutron scattering from magnetic systems will be discussed.

Single-crystal diffraction with polarized neutrons addresses challenging scientific problems related to magnetic ordering which are often intractable with other methods. The classical applications - spin density mapping, magnetic form factor determination, separation between different scattering contributions – are supplemented by topical studies: (i) direct discrimination between cycloidal, helical and amplitude modulated spin arrangements; (ii) interplay between crystal and magnetic chirality; (iii) short range magnetic/nuclear correlations in frustrated systems; (iv) local spin anisotropy at the unit cell level. Current trends and method developments will be in the focus of the FLIPPER workshop.

The topics addressed are

- Unconventional superconductors
- Frustrated spin systems
- Functional materials
- Neutron methods
- Nanomagnetism
- Molecular magnets
- Multiferroics/domains
- Chirality
- Actinides
- 4d/5d transition-metal compounds

All topics will be covered by distinguished invited speakers.

Confirmed invited speakers

- Philipp Gegenwart (Universität Augsburg)
- Tatiana Guidi (ISIS)
- Nils van Dijk (TU Delft)
- Stéphane Raymond (CEA)
- Lieh-Jeng Chang (Nat. Cheng Kung University)
- Arsen Gukassov (CEA)
- Peter Böni (TUM)
- Pascale Deen (ESS)
- Andrew Boothroyd (University of Oxford)
- Rodrigue Lescouëzec (IPCM)
- J. A. Rodriguez Velamazán (ICMA at ILL)
- Laurent Chapon (ILL)
- Kristiaan Temst (KU Leuven)

Call for Papers

Contributions dealing with the topics of the workshop to be presented as oral or poster presentation are requested. To present your work, please submit an abstract headed by title, name(s) and complete address(es) of the author(s) as Word-File via the JCNS web page.

www.fz-juelich.de/jcns/JCNS-Workshop 2016

At the webpage a template can be downloaded.
Please indicate the author who will present the paper.

Deadlines

Submission of abstracts:	1 August, 2016
Notification of acceptance:	15 August, 2016
Final registration:	31 August, 2016
Payment:	15 September, 2016

Beginning of the Workshop

Monday, 3 October 2016
14:00 h Registration is open

Tuesday, 4 October 2016
09:00 h Opening of the Workshop

End of the Workshop

Friday, 7 October 2016
13:00 h end of the scientific program
13:00 h Lunch
14:00 h end of the Workshop



View from the workshop venue to the Alps.

The workshop is supported by



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