



SCNS Workshop 2002

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NEUTRONS
FOR SCIENCE



Workshop on the perspectives in
Single Crystal Neutron Spectroscopy (SCNS)
Institut Laue–Langevin, Grenoble, France
12-14 December 2002

Second Circular – Call for abstracts – Final registration

Grenoble, July 2002

Scope

Recent developments in instrumentation for neutron spectroscopy at both reactor-based and spallation sources open up new scientific opportunities for the study of excitations in condensed matter. The purpose of the meeting is to bring together experts in both TAS and TOF neutron instrumentation as well as condensed matter and material scientists using neutron spectroscopy. This forum will review the scientific perspectives opened by state-of-the-art instrumentation on present and future neutron sources. It should be particularly beneficial to younger researchers as well as established scientists who wish to learn more about the latest techniques.

General

The workshop is organised jointly by the Three-Axis Spectroscopy group of the ILL and its collaborating research groups of the CEA/Grenoble and the FZ Jülich and is supported by the Neutron Round-Table. The workshop will start on Thursday morning December 12, 2002 and finish on Saturday at lunchtime December 14, 2002. The workshop will be held "on-site" at the Institut Laue - Langevin, Grenoble, France.

Organisation

Local organising committee

R. Currat (ILL), A. Hiess (ILL), J. Kulda (ILL), L. P. Regnault (CEA/Grenoble), W. Schmidt (FZ Jülich).

International advisory committee

A. Belushkin (Frank Lab., Russia), Ph. Bourges (LLB, France), C. Broholm (J. Hopkins Univ., USA), K. Clausen (FZ Jülich, Germany), G. Eckold (Univ. Göttingen, Germany), H. Graf (HMI, Germany), K. Kakurai (JAERI, Japan), J. Mesot (PSI, Switzerland), T. Perring (ISIS, UK).

Workshop secretary

Mrs. Inga Volino
Institut Laue-Langevin,

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Programme

Presentations

The workshop programme includes invited lectures as well as contributed oral and poster presentations. The contributed oral presentations will be selected from the submitted abstracts. Invited lectures have been grouped into seven sections as follows:

I. Low dimensional systems

- B. Braun (PSI, Villigen, Switzerland) "Solitons in spin 1/2 chains"
C. Broholm (J. Hopkins U., Baltimore, USA) "Neutron scattering from low dimensional systems"
M. Matsuda (JAERI, Tokai, Japan) "Magnetic excitations in the edge-sharing CuO₂ chains"

II. State-of-the-art instrumentation

- G. Eckold (Univ. Göttingen, Germany) "TAS - status and perspectives"
F. Mezei (HMI, Berlin, Germany) "SCNS at future (spallation) neutron sources"
T. Perring (ISIS, Didcot, UK) "TOF - status and perspectives"

III. Special equipment magnetism

- M. Enderle, (ILL, Grenoble, France) "1D antiferromagnetic quantum fluctuations shaking a 3D lattice – high field dynamics of CuGeO₃"
Y. Endoh (Tohoku Univ., Sendai, Japan) "Exotic excitations from small but exotic single crystals"
H. Rønnow, (CEA/Grenoble, France) "Composite correlation functions – reaching further with polarised neutrons"
Ch. Rueegg, (PSI, Villigen, Switzerland) "Quantum spin systems – an expedition into challenging phase diagrams"
A. Schreyer (GKSS, Geesthacht, Germany) "Inelastic scattering from magnetic rare earth superlattices"

IV. Spin-echo on TAS

- R. Gähler (ILL, Grenoble, France) "First results from ZETA on IN3"
A. Ioffe (FZ Jülich, Germany) "Neutron Speed Echo add-on to TAS"
T. Keller (FRM-2, Munich, Germany) "The NRSE-TAS spectrometer at the FRM-2"
J. Kulda, (ILL, Grenoble, France) "Recent experiment with TASSE on IN20"

V. Lattice dynamics

- J. Bossy (CNRS-Grenoble, France) "Excitations in bcc 4He"
P. Elter (Univ. Göttingen, Germany) "Time-evolution of phonon spectra during the decomposition in ionic crystals"
S. Klotz (Univ. P. & M. Curie, Paris, France) "High pressure neutron spectroscopy to 15 GPa"
S. Vakhrushev, (IPTI, St.Petersburg, Russia) "Relaxor ferroelectrics"

VI. Unconventional superconductivity

- M. Braden (Univ. Köln, Germany) "Lattice dynamics in perovskite-compounds with outstanding physical properties"
S. Hayden (Univ. Bristol, U.K.) "Magnetic excitations in unconventional superconductors"
S. Raymond (CEA/Grenoble, France) "Magnetism in Heavy Fermion Compounds"
Y. Sidis (CEA/Saclay, France) "Resonant excitations and incommensurability in HTc"

VII. Instrument simulations, data treatment and science modelling

- R. Coldea, (Univ. Oxford, U.K.) "Studies of quantum magnetism using time-of-flight neutron spectroscopy. Aspect of data analysis and modelling"
K. Lefmann (Risø, Roskilde, Denmark) "The RITA concept and McStas simulations"
J. Saroun (NPI, Rez, Czech Republic) "Restrax: modelling the three axis resolution"
D. Strauch (Univ. Regensburg, Germany) "Theoretical models and data treatment"

Submission of scientific contributions

Abstract submission

Deadline for submission of abstracts is **October 1, 2002**. We will inform you about acceptance of your abstract by November 1, 2002. Abstracts should be generated in RTF format using the template file from our web page (www.ill.fr/Events/ONSITE/SCNS/index.html). Please send your abstract in RTF format by e-mail to scns@ill.fr as an attached file. Write SUBMISSION in the "subject" field of your e-mail. The abstract booklet will be mailed to registered participants by Nov. 15, 2002

Proceedings

Deadline for submission of manuscripts is **December 12, 2002**. The proceedings will contain the manuscripts of the invited and contributed (oral and poster) presentations and will be published as an ILL report in electronic form (CD-ROM). All papers should be written in English and will be refereed. The length of invited and contributed papers should not exceed 6 and 4 printed pages, respectively (including figures). Further instructions for preparing the manuscript will be sent to the authors by e-mail together with the notification about acceptance of abstracts by November 1, 2002.

Language

The official language of the meeting will be English.

Registration

All participants must register in advance and the workshop is now open for final registration. Please complete the registration form on the web (www.ill.fr/Events/ONSITE/SCNS/index.html) before **October 1, 2002**.

Registration fee

The registration fee for workshop participants is 160€ and includes the workshop material, the abstract booklet, the proceedings on CD-ROM, refreshments during the breaks, as well as the meals (see below) during the workshop.

Support for young scientists

A limited number of grants for students are available. For supported young scientists the living expenses (full board accommodation) will be covered and the conference fees will be waived. Young scientists have to apply for support during registration and need to send a supporting letter from their research supervisor. Supported young scientists are expected to participate with a scientific contribution. We will inform the applicants about acceptance of the request by Nov. 1, 2002.

Payment of registration fees

Fees must be paid in Euros. The payment of the registration fee should be made by bank transfer not later than **October 1, 2002**. The bank transfer must be made without any charges for the recipient to the following account:

Bank (Banque):	B.N.P. Paribas	Bank code (Code Banque):	30004
Agency (Guichet):	00617	Account No. (No. de Compte):	00022672370 80

Please use the mention **22012DW06500**, the **name of the drawer** and the **name of the participant** (this is very important!).

Cancellation of registration

Cancellation of registrations must be notified in writing. In case of a cancellation before Nov. 4, 2002 a processing fee of 30€ will be withheld. No refund of registration fees can be made for requests received after Nov. 4, 2002.

Workshop Arrangements

Venue

The workshop will take place at the Institut Laue-Langevin, Grenoble, France.

Accommodation

Accommodation at the Guest House on site will be reserved through the workshop secretariat. Because of the limitation on the number of rooms available, reservations will be accepted on a first-come-first-served basis. Please fill in your dates of arrival and departure on the registration form available on our web page (www.ill.fr/Events/ONSITE/SCNS/index.html). The rate of a single room is 30€ per night (including continental breakfast). No accompanying person is allowed at the ILL Guest House.

Arrival and departure times

A welcome buffet will be organised on-site between 19h-21h for participants arriving on Wednesday Dec. 11, 2002. Workshop registration will take place on Thursday morning Dec. 12, 2002 from 8h00 onwards in the ILL entrance hall. The workshop ends on Saturday Dec. 14, 2002 around midday.

Transportation

The ILL site is easily accessible by public transport. If you come from abroad it is recommended to arrive at Lyon airport (Lyon-Saint Exupéry) and to take the shuttle bus to Grenoble (about hourly). If you choose to arrive at Geneva airport you can reach Grenoble by train. Grenoble railway station has regular train service from Paris (~ 3h by TGV) or other major cities in France. Bus 34 and 35 takes you from the Grenoble railway station to the ILL (Terminus "Polygone Scientifique"). Tickets can be purchased singly from the bus driver or in a "carnet" of 10 at tobacconists "tabacs".

Meals

In the conference fee are included the welcome buffet on Wednesday Dec. 11, lunch and dinner on Tuesday Dec. 12, lunch on Friday Dec. 13, the workshop banquet on Friday evening Dec. 13. Refreshments and coffee will be available in the entrance hall during the breaks.

Passport and visa

Nationals from the EU (European Union) may enter the country with a National Identity Card. Other participants should check with their travel agents, local French embassy or consulate to see if they require a visa to enter France.

Money Exchange

You can withdraw money with most credit cards from a money machine located close to the workshop site. Banks in town are usually open from about 9h00 – 12h00 and 14h00 – 16h30.

Social programme

A visit by bus of some local attractions like the "Cave de Chartreuse" and the "Église de St. Hugues" is proposed on Saturday afternoon Dec. 14, 2002. The fee for participation in the social programme is 50€ and includes lunch and dinner on Saturday Dec. 14, 2002. Please indicate your participation on the registration form.

Further information

Further information can be found on our web page www.ill.fr/Events/ONSITE/SCNS/index.html, the ILL web page www.ill.fr as well as the web page of the city of Grenoble www.ville-grenoble.fr. We will send more information to registered participants on Nov. 15, 2002.

Deadlines and important dates

Deadline for registration and payment of registration fee	October 1, 2002
Deadline for application for young scientists support	October 1, 2002
Deadline for submission of abstracts	October 1, 2002
Notification of acceptance of abstracts	November 1, 2002
Notification about support for young scientists	November 1, 2002
Deadline for cancellation of participation	November 4, 2002
Mailing of 3 rd circular and abstract booklet (to registered participants)	November 15, 2002
Deadline for submission of manuscripts for the proceedings	December 12, 2002
Welcome party	December 11, 2002
Workshop dates	December 12 – 14, 2002

Deadline for registration: October 1, 2002

For further information or in case of problems, please send an e-mail to scns@ill.fr

SCNS Workshop 2002

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