

**International Workshop
on Polarized Neutrons for Condensed Matter Investigation (PNCMI-2002) (16-19 September, 2002)
and the 1st Summer School on Polarized Neutron Scattering (11-14 September 2002)**

to be held in Jülich - Aachen, Germany.

Internet: <http://www.fz-juelich.de/iff/termine/PNCMI-2002>
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This workshop will be the 4th meeting in the series that started in 1996 by the PNCMI'96 in Dubna (Russia) and followed by PNCMI'98 in Grenoble (France) and PNCMI'2000 in Gatchina (Russia). This time, a special session will be devoted to polarized neutron methods and technologies on existing and future pulsed neutron sources.

The workshop in Jülich will be organized by the Institute for Solid State Research of the Research Center Jülich (Forschungszentrum Jülich GmbH, Institut für Festkörperforschung).

The workshop is the most comprehensive one in this field. The meeting will cover a variety of problems of polarized neutron scattering techniques with the main topics being:

Polarized neutron applications:

- Magnetic structures and excitations
- Magnetic short range order and fluctuations
- Magnetization density maps
- Magnetic thin films, multilayers and nanostructures
- Amorphous solids and complex fluids (coherent and incoherent scattering separation)
- Nuclear spin order

Polarized neutron methodology:

- Spherical (3D) neutron polarimetry
- XYZ neutron polarimetry
- Neutron depolarization in magnetic systems
- Polarized neutron reflectometry (specular and off-specular)
- Maximum entropy reconstruction of magnetization densities

Polarized neutron technology:

- Polarizing devices (monochromators, supermirrors, ³He neutron spin filters)
- Devices for polarization handling (spin flippers, spin nutators)
- Zero field polarimeters
- New instrumentation (neutron spin echo, Larmor diffraction etc.)

The Workshop program will include invited lectures and contributed papers. Invited speakers will be chosen by the Program Committee and the International Advisory Committee. The contributed papers will be selected on the basis of abstracts submitted. The list of invited lectures, deadline for papers and related information will be given in the Second Announcement. The proceedings of the workshop will be published as a special issue of Physica B: Condensed Matter. All contributions should be presented in English that is the official language of the Workshop.

**In connection with the workshop we are planning to organize
the Summer School on Polarized Neutron scattering.**

The course will precede the workshop and contain both lectures and a laboratory course with a number of polarized neutron scattering instruments. This course is addressed to scientists and students familiar with neutron scattering techniques, seeking additional training in polarized neutrons. During 3.5 days participants will get a theoretical background learning what can be studied by polarized neutron scattering, will get accustomed with different techniques and, finally, will study the practical aspects by carrying out experiments on 5 polarized beam instruments at the FRJ-II reactor in Jülich, covering practically the whole spectrum of present day applications of polarized neutron scattering:

1. Specular and off-specular reflection of polarized neutrons

2. Diffuse elastic and inelastic scattering of polarized neutrons
3. Neutron Spin-Echo Spectroscopy
4. Inelastic polarized neutron scattering
5. Neutron depolarization and 3-dimensional analysis of the neutron polarization.

On behalf of the Organizing Committee of the PNCMI-2002,

Thomas Brueckel
Alexander Ioffe
Werner Schweika