

CALL FOR PROPOSALS 1ST SEMESTER 2012

The Helmholtz-Zentrum Berlin für Materialien und Energie (HZB) operates the research reactor BER II and the synchrotron radiation source BESSY II. We invite you to submit proposals for the 6th joint proposal round for both large scale facilities with beam time being allocated **between February 2012 and July 2012**.

HZB hosts a major European neutron scattering facility with a **world-leading sample environment for complex experiments under extreme conditions**: high static magnetic fields up to 17T, high to ultra-low temperatures and controlled gas pressures up to 10 kbar. The **advanced and partly unique neutron scattering instrumentation** and the quality of the user service attract researchers worldwide. Details on the instrumentation and coordinates of the instrument scientists are available on the our webpages at

<http://www.helmholtz-berlin.de/user/neutrons/instrumentation/neutron-instruments/>

To strengthen the synergetic use of neutron and synchrotron radiation, HZB has implemented a common HZB Scientific Selection Panel dealing with proposals for neutron and synchrotron radiation beam time at BER II and BESSY II in joint sessions.

To this purpose, the **HZB Scientific Selection Panel** is organised in **6 Scientific Colleges**, which are grouped according to research fields in order to facilitate discussions on the scientific merit of the proposals. All users applying for either neutron or synchrotron radiation beam time are requested to choose the appropriate **Scientific College** for their proposal upon on-line submission.

THE DEADLINE FOR PROPOSAL SUBMISSION IS 1 SEPTEMBER 2011 (23:59 CET)

Applications for beam time should be made by using GATE, the common user portal for both neutron and synchrotron radiation applications

http://www.helmholtz-berlin.de/user/gate_en.html

Research projects for the complementary use of HZB Neutrons and HZB Photons are strongly encouraged.

For use in 2012_I (February 2012-July 2012), we offer the following instruments::

BER II	Thermal Neutrons	BER II	Cold Neutrons
Instruments in full user service			
E2	Flat-Cone Single Crystal Diffractometer	V1	Membrane Diffractometer
E3	Residual Stress Analysis and Texture Diffractometer	V2	I: 3-axis spectrom. for Cold Neutrons (FLEXX) II: FLEXX with spin-echo mode (FLEXX is the upgraded FLEX)
E4	2-Axis Diffractometer	V6	Reflectometer
E5	4-Circle-Diffractometer	V7	Cold Neutron Tomography (CONRAD)
E6	Focusing Single Crystal and Powder Diffractometer	V12	Double Crystal Diffractometer (USANS)
E9	Fine Resolution Powder Diffractometer (FIREPOD)	V18	Reflectometer for Biological Applications (BioRef)
<p>Experiments in the E-Hall can only be performed efficiently, if you have free access to this hall. Please apply in good time for clearance and take into consideration that the security check might take up to three months.</p>		<p>V3 (NEAT) is undergoing a major upgrade</p>	
Intruments with limited access (in close co-operation with local staff members)			
E7	Residual Stress Analysis Diffractometer (interested users please contact local scientist before application)	V15	Extreme Environment Diffractometer (EXED) (interested users please contact local

Additional Information for HZB Neutron Users

Support from the European Commission for European Access to HZB Neutrons

We are pleased to inform our European users that the NMI3 consortium with HZB as a partner has again successfully applied for EU support to provide access to neutron facilities under the new EU Framework Programme 7 (FP7-NMI3). Users from EU member states and associated states can apply to the Head of User Office Neutrons for getting funded under this programme. Successful applicants are supported via HZB by

- ◆ Refund of travel costs
- ◆ Free accommodation
- ◆ Free use of HZB Neutrons facilities including necessary technical consumables
- ◆ costs for related publications in international scientific journals

Publications

Services of HZB Neutrons are normally free of charge for members of universities and other public institutions. The readiness **to publish the scientific results** within a reasonable period of time **giving proper mention to the HZB** is a prerequisite for the charge-free admission of external users. **Local Contacts, operators of complex sample environment, and scientists** responsible for building **recent instruments** are - as a rule - to be credited by **co-authorship** of user experiment publications.

The results of all measurements must be reported to the HZB Scientific Panel. These **Experimental Reports** are only interim summaries; they do not release the user from the obligation to publish the results in an appropriate international journal. HZB reserves the right to include the reports and results in its annual HZB Experimental Reports.

Your feedback on the performance of your project (s. GATE) is highly welcome and will enable us to improve our service.

Travel Support

Limited funds are available to assist with travel and subsistence expenses, whereby users from **German universities** get preferential treatment. Normally, one young scientist per experiment is supported by HZB. Groups coming from **EU Member States and Associated States** may qualify for a travel grant provided by the European Commission under the FP7-NMI3 action for access to *HZB Neutrons* (see above).

Arrangements for travel support have to be cleared with the Head of the User Office Neutrons Dr. Thomas Gutberlet (neutrons@helmholtz-berlin.de) prior to undertaking the trip.

Accommodation on-site

Our 30-bedroom on-site guest house is at your disposal and the User Office Wannsee shall be pleased to assist with the arrangement of accommodation.

In case of any further questions, please, do not hesitate to contact us via the

User Office Neutrons
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User Administration:	Dr. Astrid Brandt	+49 30 8062 2169
Guest Office Neutrons:	Heike Gast	+49 30 8062 2304
<i>(formalities, accommodation)</i>	Andreas Rödiger	+49 30 8062 3153

common e-mail address: neutrons@helmholtz-berlin.de