Dear MLZ User.

we like to remind you to apply for beam time at the Heinz Maier-Leibnitz Zentrum (MLZ).

# Deadline for proposal submission is May 2<sup>nd</sup>, 2014

Accepted proposals will have the possibility to perform an experiment between August 2014 and February 2015.

Please submit your application online within your personal account to

- https://user.frm2.tum.de for instruments supported by TUM, Helmoltz-Zentrum Geesthacht and MPG
- https://fzj.frm2.tum.de for instruments supported by Forschungszentrum Jülich

Templates for the 2-page pdf file for the scientific background can be downloaded from mlz-garching.de/download

With your personal account you can access the proposal and reporting system. The review of the proposals will take place on June 26<sup>th</sup>/27<sup>th</sup>, 2014. Results of the review will be available online about two weeks later.

To ensure the feasibility of the proposed experiment please contact the instrument scientist well in advance. Please find all detailed information in "Getting beam time", at mlz-garching.de/beamtime

#### **FINANCIAL SUPPORT**

Please have a look at mlz-garching.de/support

Researchers working in EU member states or associated states other than Germany can apply for travel and subsistence reimbursement offered by the EU supported network of European neutron facilities (NMI3-II in FP7). Please check the eligibility conditions available in the web page quoted above.

Researchers working at German universities can apply for travel and subsistence reimbursement offered by the MLZ Partners. Please check the eligibility conditions available in the web page quoted above.

### **INSTRUMENTS AT MLZ**

The following instruments are available for applications:

#### **DIFFRACTION:**

BIODIFF: diffractometer for large unit cells, cold source
HEIDI: single crystal diffractometer, hot source
MIRA: multipurpose instrument, cold source

POLI: polarized hot neutron diffractometer, hot source \* single crystal diffractometer, thermal source

SPODI: high resolution powder diffractometer, thermal source STRESS-SPEC: material science diffractometer, thermal source

#### SANS AND REFLECTROMETRY

KWS-1: small angle scattering diffractometer, cold source
 KWS-2: small angle scattering diffractometer, cold source
 KWS-3: very small angle scattering diffractometer, cold source
 MARIA: magnetic reflectometer with high incident angle, cold source

NREX: reflectometer with X-ray option, cold source time-of-flight reflectometer, cold source

SANS-1: small angle scattering diffractometer, cold source

<sup>\*</sup> limited number of beam days for Test Experiments available.

#### SPECTROSCOPY:

**DNS**: diffuse scattering spectrometer, cold source

J-NSE: spin-echo spectrometer, cold source
PANDA: three-axes spectrometer, cold source
PUMA: three-axes spectrometer, thermal source

RESEDA: resonance spin-echo spectrometer, cold source backscattering spectrometer, cold source time-of-flight spectrometer, cold source

TRISP: three-axes spin-echo spectrometer, thermal source

### **IMAGING AND ANALYSIS:**

**ANTARES**: radiography and tomography, cold source

**NECTAR**: radiography and tomography, fission neutron source

**PGAA**: prompt gamma-activation analysis

# **POSITRONS:**

### **NEPOMUC**:

- positron beam ("open beam port")
- positron defect spectrometer ("Coincidence doppler broadening")
- positron life time spectroscopy ("PLEPS")

Details of the instruments can be found at mlz-garching.de/instruments

Details of the available sample environments can be found at mlz-garching.de/se

### THIN FILM LABORATORY

Access to the thin film laboratory for the sample preparation via a MBE system is offered ONLY in combination with successful proposals submitted to the reflectometers MARIA and N-REX. Users can apply for remote access (the sample is fabricated by staff scientists without the user), or collaborative access (the user fabricates the sample under the supervision of staff scientists). In order to apply for access to the thin film lab, please download the additional thin film lab proposal template (mlz-garching.de/download), fill it with details of the sample to be prepared and email it to user office@mlz-garching.de .

The users are warmly invited to contact the scientist in charge (Dr. Sabine Puetter; email address: s.puetter@fz-juelich.de) before submitting a combined proposal for accessing the thin film laboratory. Please find further information at mlz-garching.de/mbe

#### TRANSMISSION ELECTRON MICROSCOPY

For the first time, access to the Transmission Electron Microscopy is offered for soft matter investigations ONLY in combination with successful proposals submitted to any MLZ instrument.

Users can apply for remote access (the sample is observed by staff scientists without the user), or collaborative access (the user observes the sample under the supervision of staff scientists). In order to apply for access to the Transmission Electron Microscopy, please download the additional TEM proposal template (mlz-garching.de/download), fill it with details of the sample to be prepared and email it to user office@mlz-garching.de .

The users are warmly invited to contact the scientist in charge (Dr. Marie-Sousai Appavou; email address: m.s.appavou@fz-juelich.de) before submitting a combined proposal for accessing the Transmission Electron Microscopy.

Please find further information at mlz-garching.de/tem

# RAPID ACCESS PROGRAMME

The Rapid Access programme is also available at the MLZ, please check the programme details at mlz-garching.de/beamtime

# **COMBINED NEUTRON/ PHOTON PROPOSALS**

The call for combined neutron/ photon proposals for beam time at the GEMS instruments is suspended due to the current shutdown of PETRA III and will be continued after the restart of PETRA III scheduled for February 2015.

# **EXPERIMENTAL REPORTS**

Please note that experimental reports for experiments performed at an MLZ instrument shall be submitted not later than 2 months after the end of the experiment; not fulfilling this condition may yield to rejection of your newly submitted proposals.

#### **IRRADIATION FACILITIES**

In addition to beam tube experiments, irradiation facilities are available for neutron activation analysis, isotope production and silicon doping. Please contact the User Office (user office@mlz-garching.de) for further information.

#### **FUTURE PROPOSAL SUBMISSION DEADLINE**

Last but not least, please note that at the MLZ there will be likely only one proposal round in the year 2015 due to the long break of the FRM II reactor for the implementation of the new neutron guide system. The dates will be published at the MLZ User Office page mlz-garching.de/user-office

We look forward to receiving your proposals, best regards from Garching,

The MLZ User Office Team

\_\_\_\_\_

Dr. Flavio Carsughi
Dr. Ina Lommatzsch
Ms. Ramona Bucher
Heinz Maier-Leibnitz Zentrum (MLZ)
User Office
Lichtenbergstrasse 1
D-85747 Garching

Phone: +49-(0)89.289.10703/10794 Fax: +49-(0)89.289.10799

e-mail: useroffice@mlz-garching.de

mlz-garching.de