Dear MLZ User,

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

Next Proposal Deadline: January 27th, 2017

Please submit your application online within your personal account to > user.frm2.tum.de for instruments supported by

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

Accepted proposals will have the possibility to perform an experiment from April 2017 on.

Templates for the 2-page pdf file for the scientific background can be downloaded from

mlz-garching.de/englisch/user-office/downloads-und-tools

With your personal account you can access the proposal and reporting system. The review of the proposals will take place on March $8^{th} - 9^{th}$, 2017. 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/englisch/user-office/getting-beam-time

Financial Support

Please have a look at mlz-garching.de/englisch/user-office/your-visit-at-mlz/home-again

Please check the eligibility conditions there!



Heinz Maier-Leibnitz Zentrum Lichtenbergstr. 1 85748 Garching / Germany

User Office

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Instruments at the 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 RESI: single crystal diffractometer, thermal source SPODI: high resolution powder diffractometer, thermal source STRESS-SPEC: material science diffractometer, thermal source

SANS AND REFLECTOMETRY

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
REFSANS: time-of-flight reflectometer, cold source
SANS-1: small angle scattering diffractometer, cold source

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 SPHERES: backscattering spectrometer, cold source TOFTOF: 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 these instruments can be found at mlz-garching.de/instruments

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







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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 from

mlz-garching.de/englisch/user-office/downloads-und-tools complete it with details of the sample to be prepared and email it to useroffice@mlz-garching.de.

The users are warmly invited to contact the scientist in charge (Dr. Sabine Puetter; **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

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 from

mlz-garching.de/englisch/user-office/downloads-und-tools

complete it with details of the sample to be observed and email it to **useroffice@mlz-garching.de**.

The users are warmly invited to contact the scientist in charge (Dr. Marie-Sousai Appavou; **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

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 (useroffice@mlz-garching.de) for further information.

Rapid Access Programme

A Rapid Access programme is also available at the MLZ, please check the programme details at

mlz-garching.de/englisch/user-office/getting-beam-time







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Combined Neutron/ Photon Proposals at GEMS

GEMS offers the possibility of combined neutron/photon beam time proposals: The use of the neutron instruments **REFSANS**, **SANS-1** and **STRESS-SPEC** at the MLZ can be combined with the following photon instruments at the HZG outstation at DESY at the synchrotron source PETRA III:

- > HEMS: diffraction and imaging at high energies
- > IBL: micro- and nanotomography
- > **BioSAXS**: Small-Angle X-ray Scattering Beamline
- Nanofocus Endstation at the The Micro- and Nanofocus X-ray Scattering Beamline (nanodiffraction)

If you submitted a proposal for beamtime at one of the above mentioned instruments to the DESY-DOOR system please use the same proposal title and add the corresponding DOOR proposal number in the MLZ proposal. If you are interested in submitting a proposal for beamtime at the BioSAXS instrument please contact the GEMS instrument responsible Vasyl Haramus (vasyl.haramus@hzg.de).

More information is available on our website gems.hzg.de

For these proposals GEMS scientists will coordinate the two beamtimes.

Don't forget!

Experimental Reports

Please note that it is mandatory to submit an experimental report for any experiment performed not later than two months after the end of the experiment.

The absence of mandatory experimental reports will be checked for experiments performed after January 1st, 2015, and will influence the overall evaluation of your proposal, we warmly suggest all the users not to neglect this step.

Only experimental reports submitted to the online system by February 10th, 2017 at the latest will be considered for the review process.

Future Proposal Submission Deadline

The next proposal deadline will be on July 21st, 2017. Find all important dates at

mlz-garching.de/user-office

We look forward to receiving your proposals, best regards from Garching, The MLZ User Office Team



Helmholtz-Zentrum Geesthacht Zentrum für Material- und Küstenforschung





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