

How to Apply for Beamtime

Bella Lake *HZB, TUB*

HFM/EXED READY FOR PROPOSALS!

HFM/EXED ready for proposals!

Building HFM

- 7.5 year to build,
- large team involved in the construction,
- ~20M€

Running HFM/EXED

- Large team for HFM and EXED operation
- 1M€ running cost per year
- Until december 2019

Flagship experiments

- Require H>15T, only possible at HFM
- Highest quality science
- Top publications

We are looking for the best ideas for the experiments from the neutron and high magnetic field community

THE PROPOSAL SYSTEM

HFM-EXED is accepting proposals for elastic mode (diffraction & SANS) with beamtime allocation starting from 2015.

HFM-EXED proposals can be submitted **at any time** and will be peer reviewed by members of the

HFM STAC and

College 5b "Magnetism and Superconductivity (Neutrons)"

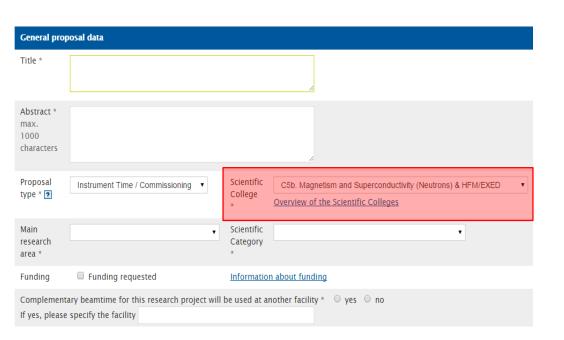
The proposals will be reviewed every few months

Proposals should be submitted in the normal way (via online **General Access Tool, GATE**). But the proposal form has some **additional requirements**.



Login at Gate https://www.helmholtz-berlin.de/pubbin/hzbgate

 college 5b Magnetism and superconductivity (neutrons) & HFM/EXED



 HFM/EXED - Requirements for the High Magnetic Field Facility for Neutron Scattering

Add technical requirement					
Neutrons – Requirements for experiments at BER II Photons – Requirements for experiments at BESSY II MX – Requirements for macromolecular crystallography at RESSY II					
HFM/EXED - Requirements for	the High Magnetic Fie	eld Facility for Neu	tron Scattering		
add					
previous step	next step	continue later			

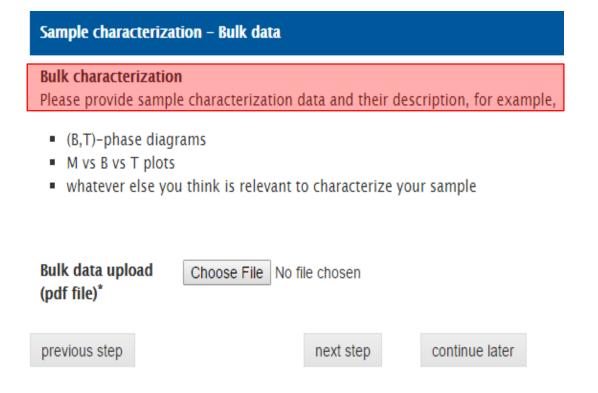
The proposal must be discussed with one of the local contacts, and you will be requested to name that contact

Discussion before proposal submission						
This proposal was discussed with:*	Oleksandr Prokhnenko ▼					
Feedback	received on 30th Oct 2014					
Please note:						
No proposal will be accepted that has not been discussed in detail with one of the instrument scientists of HFM/EXED in advance.						
This is a necessary measure to ensure that the conditions of the proposed experiment can be realized at HFM/EXED.						

→ 1

WRITING A PROPOSAL

It is necessary to show bulk property measurements e.g. specific heat or magnetization preferable at the fields requested.



The sample must have been characterized by neutrons

Sample characterization - Neutron data

Characterization by neutron scattering

The proposal will not be accepted if the sample has not been characterized by means of neutron scattering in advance. Please provide the following information:

- 1. **sample quality** as checked with neutron diffraction (e.g. neutron Laue picture or powder diffraction pattern, individual rocking curves or regions of powder data, results from data fitting etc.)
- 2. **(hkl) d/Q list with clearly marked regions/reflections of interest** (the ones that are going to be measured in the here proposed experiment)
- 3. Please state for the above indicated reflections the conditions at which they have been measured:
- sample size (ideally the same sample as going to be measured at HFM/EXED);
- instrument and facility where the sample has been measured;
- flux and wavelength (range) of the respective instrument and the resulting count rate;
- whatever else that might be relevant (e.g. signal to noise ratio, collimation conditions, etc.)

This information is necessary to obtain a realistic estimate for the measurement time at HFM/EXED.

Neutron data upload (pdf file)* Choose File No file chosen

Specify field direction

For each sample and field direction must give an experimental plan showing the temperatures and fields needed and for how long

Sample information							
Space group							
Unit cell							
A =	Å B= Å C= Å						
α=	° β=						
Orientations: (only needed if sample type is single crystal) Please define the different orientations that will be measured.							
1. B (hkl)	2. B (hkl) 3. B (hkl)						

Please note: A detailed experimental plan has to be provided for each orientation of the sample. More information is given in the 'Experimental plan' section of this form.

Experimental plan

Please provide a detailed description of the intended measurements, stating clearly T, B and measuring time of each step. The **example** shows how the required information should be summarized.

Single crystal sample:

Please remember to provide the required information for each orientation of the sample (1 sample with 3 orientations = 3 experimental plans).

All measurements of the sample must be summarized into one pdf file.

Experimental plan Choose File No file chosen upload (pdf file)*

WE LOOK FORWARD TO RECEIVING YOUR PROPOSALS