



COLLABORATIVE RESEARCH SCHEME PROJECTS

USERS' WORKSHOP

*For Condensed Matter Structure and Dynamics
from Microscopic to Macroscopic Length Scales*

Neutron Scattering and Complementary Facilities

BARC, Mumbai and UGC-DAE CSR Mumbai Centre

August 21-22, 2017

Organized by

**UGC-DAE Consortium for Scientific Research
(Mumbai Centre)**

and

**Solid State Physics Division
(B. A. R. C)**



Proposals are invited from Universities, Research Institutes and Colleges for utilization of the neutron scattering facilities at NFNBR, Dhruva reactor under the Collaborative Research Scheme (CRS) of the UGC-DAE CSR, Mumbai Centre. Details of the neutron spectrometers are available at the following websites: http://14.139.62.172/mumbai/Dhruva_ND%20Facility_Dec2012_v2.pdf and <http://barc.gov.in/publications/tb/nfnbr-2013.pdf>. Proposals may be submitted for the following spectrometers and complementary facilities at BARC and UGC-DAE CSR Mumbai Centre as listed below:

FACILITY		PRINCIPAL COLLABORATORS AND CONTACT DETAILS		
Small Angle Neutron Scattering	SANS-I	Dr. V.K. Aswal	vkaswal@barc.gov.in	022-25594642
Small Angle Neutron Scattering	SANS-II	Dr. D. Sen	debasis@barc.gov.in	022-25594608
Polarized Neutron Reflectivity	PNR	Dr. Saibal Basu Dr. Surendra Singh	sbasu@barc.gov.in surendra@barc.gov.in	022-25593754 022-25594604
Powder Diffraction	PD-1	Dr. S.M. Yusuf	smyusuf@barc.gov.in	022-25595608
Powder Diffraction	PD-2	Dr. A. Das Dr. P. S. R. Krishna	adas@barc.gov.in glass@barc.gov.in	022-25594668 022-25595612
Powder Diffraction (High resolution)	PD-3	Dr. P. D. Babu Dr. S. Rayaprol Dr. S.D. Kaushik	pdbabu@csr.res.in sudhindra@csr.res.in sdkaushik@csr.res.in	022-25505327 022-25594727 022-25594727
Liquid and amorphous Diffraction	LAD	Dr. P.S.R. Krishna	glass@barc.gov.in	022-25595612
Polarization Analysis Spectrometer	PAS	Dr. S.M. Yusuf	smyusuf@barc.gov.in	022-25595608
Single Crystal Diffractometer	SCD	Dr. R. Chitra	rchitra@barc.gov.in	022-25594623
Quasi-Elastic Neutron Spectrometer	QENS	Dr. S. Mitra	smitra@barc.gov.in	022-25594292
Triple Axis Spectrometer	TAS	Dr. Mala N. Rao Dr. R. Mittal	mala@barc.gov.in rmittal@barc.gov.in	022-25595606 022-25594307
COMPLEMENTARY TECHNIQUES				
Magnetization	9T-VSM	Dr. P.D. Babu	pdbabu@csr.res.in	022-25505327
PPMS	14T-PPMS	Dr. P.D. Babu	pdbabu@csr.res.in	022-25505327
Broadband Dielectric spectroscopy	BDS	Dr. S.K. Deshpande	skdesh@csr.res.in	022-25505327
High temp / Low temp / Surface x-ray diffraction	RAXD	Dr. P. U. Sastry	psastry@barc.gov.in	022-25594984
Raman spectroscopy	RAMAN	Dr. Rekha Rao	rekhar@barc.gov.in	022-25590190
Dielectric Spectroscopy	DS	Dr. Sudip Mukherjee	sudipm@csr.res.in	022-25594727

Principal collaborators as listed above may be contacted for the collaboration as well as to check the feasibility of the project before submission. Proposals with proper justifications for the use of the desired beamline / complementary facility may be sent by e-mail to **neutron.crs.mumbai@gmail.com** mentioning the subject as "CRS_Dhruva_2017" (so as to reach us by **July 31, 2017**) with the following particulars (i) Title (ii) Principal Investigator (iii) Resume of PI with List of Publications (iv) Co-Investigators (v) Principal Collaborator(s) (vi) Project Plan consisting of One Page Synopsis, Definition of Problem, Scientific Justification, Experimental Plan With Beamline Facility Requirements (vii) Support required (Contingency/Consumables limited to ₹45,000/-). A Users' Workshop is planned to be held at BARC, Mumbai during **August 21-22, 2017** for the presentation of the selected proposals based on their feasibility.

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