



7th Conference on Neutron Scattering

Organized by Solid State Physics Division, Bhabha Atomic Research Centre

In Association with Neutron Scattering Society of India

25-27, November 2021 (Hybrid mode), Anushaktinagar, Mumbai, India



Scope: Neutron scattering is an indispensable technique for investigating structure and dynamics in condensed matter, covering a vast multidisciplinary research spectrum. Solid State Physics Division is carrying out fundamental research in the area of advance magnetism, structure and dynamics, soft matter, nanostructured materials and thin films primarily using neutron scattering facilities at Dhruva. Aim of this conference, being organized jointly with Neutron Scattering Society of India, is to discuss the recent advances in condensed matter physics research using neutron scattering and current developments on neutron instruments and facilities.

NFNBR: National Facility for Neutron Beam Research (NFNBR) is operated by Solid State Physics Division (SSPD), Bhabha Atomic Research Centre (BARC), Mumbai, for the use of neutrons in condensed matter research. NFNBR has been built around research reactor Dhruva. This facility is being extensively used by several groups of BARC and researchers from various universities/institutions.



NSSI: Neutron Scattering Society of India (NSSI) was formed on 11th June 2008 during a meeting of neutron users at Mumbai with an objective to promote the research and development activities of neutron-scattering science and applications. Another aim to form NSSI was to represent the neutron users in the Asia-Oceania Neutron Scattering Association (AONSA), which is an affiliation of neutron scattering societies.

Organising committee:

S. M. Yusuf, BARC, Mumbai (Chairman), President NSSI
Jitendra Bahadur, BARC, Mumbai (Scientific Secretary)
D. Pandey, BHU, Varanasi & EC member, NSSI
K. G. Suresh, IITB, Mumbai & EC member NSSI
A. Thamizhavel, TIFR, Mumbai & EC member, NSSI
S. L. Chaplot, EC member NSSI, Mumbai
R. Mukhopadhyay, EC member NSSI, Mumbai
J. A. E. Desa, Univ. of Goa, Goa & EC member NSSI
P. D. Babu, UGC-DAE CSR, Mumbai
V. K. Aswal, BARC, Mumbai
Amitabh Das, BARC, Mumbai
P.S.R. Krishna, BARC, Mumbai
S. Mitra, BARC, Mumbai
R. Mittal, BARC, Mumbai
Mala N. Rao, BARC, Mumbai
P. U. Sastry, BARC, Mumbai
Debasis Sen, BARC, Mumbai

Topics: The conference will cover applications of the neutron scattering in the following areas:

Magnetism and Superconductivity
Energy and Green Materials
Soft Matter and Biological Systems
Nanomaterials
Glasses and Liquids
Thin Films and Interfaces
Neutron sources and Instrumentation

Mode of participation: Due to ongoing COVID19 situations the CNS-2021 is planned to be held in hybrid mode. In this mode, local participants from Mumbai will be participating physically, whereas all others will participate virtually via online platform.

Important dates:

Abstract submission	7 October, 2021
Acceptance of abstracts for oral presentation	20 October, 2021
Registration	30 October, 2021

Venue: The Venue of the conference is Training School Hostel/DAE convention centre, Anushaktinagar, Mumbai. Anushaktinagar, the residential township of Bhabha Atomic Research Centre, is located in the Eastern Suburbs of Mumbai.



Abstract: The conference will consist of invited talks and oral presentations. Abstracts should be submitted electronically by sending an email to cns2021@barc.gov.in. It should be prepared in MS-WORD in single column in A4 size with page margins of 25 mm all around and typed using Times New Roman font with single line spacing. The length of the abstract is limited to one page including figures and tables. Oral presentations will be selected from the submitted abstracts. There will be no poster session due to hybrid mode of the conference, however all the participants submitting the abstracts can register to attend the conference.

Registration: There is no registration fee. The deadline for the registration is 30th October, 2021.

Contact :

Dr. S. M. Yusuf (**Chairman**)
Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, India

Dr. Jitendra Bahadur (**Scientific Secretary**)
Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, India
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Tel: 022-25596281

For more details visit: <http://barc.gov.in/symposium/>

Online Platforms: WebEx meetings, YouTube



XIX School on



Neutrons as Probes of Condensed Matter

Organized by

UGC-DAE Consortium for Scientific Research, Mumbai Centre

&

Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai



November 14- 19, 2022

Venue: Training School Hostel (BARC), Mumbai - 400085

About the School

UGC-DAE Consortium for Scientific Research (CSR) and Bhabha Atomic Research Centre (BARC) have been regularly organizing schools on neutron scattering in condensed matter research to enhance awareness about the technique and to create a dedicated group of trained researchers for utilizing these methods. The present school (NPCM-2022) is nineteenth in this series and will be held at BARC, Mumbai during **November 14 – 19, 2022** in association with Neutron Scattering Society of India (NSSI).

The school will comprise of **lectures and hands on training** on various aspects of neutron scattering technique comprising of basics of neutron scattering, structural studies of crystalline, amorphous and magnetic materials using neutron diffraction, studies of dynamics in condensed matter using neutron inelastic and quasi-elastic scattering, applications of small angle neutron scattering to soft condensed matter, porous materials, nanomaterials etc., and surface and interface studies on thin films and multilayers using neutron reflectometry, among others.

Who should apply?

This school is open to faculty and research scholars from universities and research institutes who wish to use neutron scattering techniques in their research areas. Seats are limited therefore, the selection will be made on the basis of your application and relevance of neutron scattering studies on your research activities.

Financial Support for attending NPCM-2022

Local hospitality will be provided to all participants. Accommodation will be provided to participants coming from outside Mumbai city and suburbs. Financial assistance for travel by train will be provided, limited to 2AC for faculty and 3AC/SL for students.

How to Apply?

Researchers interested in attending NPCM-2022 should apply **online** on or before **17th October 2022** by filling up the Google form at:

URL: <https://forms.gle/VkTPFMdSYuCGUuxR9>

Or by Scanning the QR Code:



• Applicants need to login to their Google (Gmail) account for filling up the form.

• Kindly read all the instructions and submit the required documents while applying.

Coordinators

Dr. Sudhindra Rayaprol

UGC-DAE Consortium for Scientific Research

Mumbai Centre, 246C-CFB, BARC

Mumbai – 400085

Tel: 022 – 25597112

Dr. Mayanak K Gupta

Solid State Physics Division

Bhabha Atomic Research Centre

Mumbai – 400085

Tel: 022 – 25599128

For school related queries write to us at: workshop.csr@gmail.com

Kindly bring this to the attention of your students and colleagues



XXth School on Neutrons as Probes of Condensed Matter

(February 05-10, 2024)



Venue

Training School Hostel, BARC, Mumbai-400085

UGC-DAE Consortium for
Scientific Research, Mumbai Centre

Organized by

Solid State Physics Division,
Bhabha Atomic Research Centre

Neutron Scattering Society of India

In association with

Board of Research in Nuclear Sciences

Patrons

Prof. Amlan J. Pal

Director, UGC-DAE CSR

&

Dr. S. M. Yusuf

Director, Physics Group, BARC

Organizers

Dr. P. D. Babu

Centre Director

UGC-DAE CSR, Mumbai Centre

&

Dr. V. K. Aswal

Head, SSPD, BARC, Mumbai

Coordinators

Dr. S. D. Kaushik

UGC-DAE CSR (MC)

&

Dr. Sugam Kumar

SSPD, BARC

Important dates

Last date for application

7th December 2023

Selection results

21st December 2023

School begins on

5th February 2024

Contact information

Email

workshop.csr@gmail.com

Telephone

Dr. S. D. Kaushik : **022-69294931**

Dr. Sugam Kumar: **022-69294606**

Scope of the School

UGC-DAE Consortium for Scientific Research (CSR) Mumbai Centre and Bhabha Atomic Research Centre, Mumbai regularly organizing schools on Neutrons as probes of condensed matter (NPCM) in order to enhance awareness about the neutron scattering techniques and to create a dedicated group of trained researchers for utilizing these research tools. The present school (NPCM-2024) is XXth in this series and will be held during **February 05-10, 2024** at BARC, Mumbai.

School will comprise of lectures and hands on training to cover various aspects of neutron scattering at National Facility for Neutron Beam Research (NFNBR), Dhruva Reactor, BARC. The lectures will include basics of neutron scattering, structural studies of crystalline, amorphous, and magnetic materials using neutron diffraction, studies of dynamics in condensed matter using neutron inelastic and quasi-elastic scattering, applications of small angle neutron scattering to soft condensed matter, porous materials, nanomaterials etc., and surface and interface studies on thin films and multilayers using neutron reflectometry, among others.

Who can apply?

This school is open to faculty and research scholars from Universities and Institutes who wish to use neutron scattering techniques in their research areas. Seats are limited therefore the selection will be made on basis of your application and relevance of neutron scattering studies on your research activities.

Financial support for attending NPCM-2024

Local hospitality will be provided to all participants. Accommodation will be provided to outstation participants from outside Mumbai city and suburbs. Financial assistance for travel by govt. transport as per CSR rules but limited to 3AC for Ph.D. scholar, Post-Doc and 2AC for faculty, may be available on specific request.

How to Apply?

Interested researchers should apply online on or before 7 December 2023 by filling google form at <https://forms.gle/4CPMAjMYiGKiFsHx7> or by scanning QR code.

- Applicant need to login to their gmail account for filling form.
- Kindly read all the instructions and submit requisite documents while applying.
- Flyer can be accessed on www.csr.res.in or <https://sites.google.com/view/xxthnpcm2024>



Kindly bring this to the attention of your colleagues