Synchrotron X-ray User Outreach





Workshop

(DST, India-DESY, Germany Collaboration)

February 25-26, 2025



The Nano and Advanced Materials Division (NAMD). Department of Science Technology (DST) in collaboration with JNCASR, facilitates Indian researchers and scientists in utilizing global synchrotron facilities at PETRA III, DESY, Germany to address critical scientific challenges. This initiative aims to promote collaborative efforts between Indian scientists and DESY. The workshop, organized as part of this initiative, will feature lectures on the fundamental principles of synchrotron facilities available in DESY and their diverse applications, with the objective of new users to effectively these advanced large-scale leverage research resources.

Local Organizing Committee:

School of Materials Science and Technology

IIT (BHU), India

- · Prof. Pralay Maiti
- · Prof. Chandana Rath
- Prof. Akhilesh Kumar Singh
- Prof. Chandan Upadhyay
- Prof. Bhola Nath Pal
- Prof. Ashish Kumar Mishra
- Prof. Shrawan Kumar Mishra
- Prof. Nikhil Kumar
- Prof. Ravi Panwar
- Prof. Uday Shankar

Supported by:

 Nano and Advanced Materials Division, Department of Science & Technology (DST)

Patrons:

Prof. Amit Patra, Director, IIT (BHU), Varanasi Prof. Milan K. Sanyal, SINP, Kolkata

Convenors:

Prof. Sanjay Singh, IIT (BHU), Varanasi Prof. Kanishka Biswas, JNCASR, Bangaluru Prof. K. R. S. Priolkar, Goa University

Topics:

- High-resolution Synchrotron X-ray Diffraction (SXRD)
- High-pressure SXRD
- Angle-resolved Photoemission Spectroscopy
- X-ray Total Scattering
- X-ray Magnetic Circular Dichroism
- X-ray Photoelectron Spectroscopy
- X-ray Absorption Spectroscopy
- Depth-resolved Photoemission Spectroscopy

Key Speakers (Tentative):

- Prof. D. D. Sarma, IISC, Bengaluru
- Prof. G. U. Kulkarni, JNCASR, Bengaluru
- Prof. Chandrabhas N., RGCB, Thiruvananthapuram
- · Prof. S. M. Yusuf, BARC, Mumbai
- Prof. Mrinmay K. Mukhopadhyay, SINP, Kolkata
- Prof. Kanishka Biswas, JNCASR, Bengaluru
- · Dr. Pralay K. Santra, CeNS, Bengaluru
- · Prof. Ranjani Viswanatha, JNCASR, Bengaluru
- Prof. Srimanta Middey, IISC, Bengaluru
- Prof. Sanjay Singh, IIT (BHU), Varanasi
- Prof. K. R. S. Priolkar, Goa University
- Prof. Ujjal K. Gautam, IISER Mohali
- Prof. Kalobaran Maiti, TIFR, Mumbai

Ph.D. Researchers including students and post-docs: faculty members from state university/degree college, who are keen on incorporating synchrotron techniques into their research are encouraged to apply. Selected participants will receive support TA/DA (AC 3fare) shared tier train and local accommodation.

**Last Date of Application: 31 Jan 2025

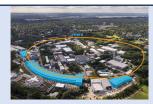
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