

# Synchrotron X-ray User Outreach



## Workshop (DST, India-DESY, Germany Collaboration)



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
SCIENCE & TECHNOLOGY

February 25-26, 2025

The Nano and Advanced Materials Division (NAMD), Department of Science and 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 attracting new users to effectively leverage these advanced large-scale 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 SXR
- 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 and more...

### Key Speakers (Tentative):

- Prof. D. D. Sarma, IISC, Bengaluru
- Prof. G. U. Kulkarni, JNCASR, Bengaluru
- Prof. Chandrabhas N., RGC, 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

Researchers including Ph.D. 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 3-tier train fare) and shared local accommodation.

**\*\*Last Date of Application: 31 Jan 2025**

#### Contact:

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