Advances in Quantum Materials Using Synchrotron Techniques (AQMUST2026)

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF SCIENCE & TECHNOLOGY

February 24 – 27, 2026

Saha Institute of Nuclear Physics, Kolkata, India

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The theme of the conference Advances in Quantum Materials Using Synchrotron Techniques (AQMUST-2026) is the research focused on the physics of quantum materials and their structural characterization using synchrotron X-ray techniques, particularly within confined geometry. Understanding the in-situ growth of these materials via x-ray characterization is crucial for exploring fundamental physics under quantum confinement and technological applications. The development of high-brilliance X-ray synchrotron sources has dramatically expanded research in this area. Reflecting India's active contribution to this field, we are organizing the conference, AQMUST-2026, from February 24–27, 2026.

The Department of Science and Technology (DST) has strongly supported this area through initiatives facilitating access to advanced synchrotron facilities, including the Indian Beamline Project at Photon Factory, KEK, Japan, and preferred access at PETRA III, DESY, Germany. Participants will include experts from these facilities and Indian researchers actively using them, fostering collaboration and knowledge exchange. This event will serve as a platform for Indian and international experts to present advancements, with a special emphasis on the research utilization of these facilities

All the users of the DST – DESY project for PETRA – III synchrotron and the DST – KEK project for the Indian beamline at Photon Factory are encouraged to attend the conference and share the results. Students are encouraged to submit an abstract for the poster presentation

Address for Correspondence
Mrinmay K. Mukhopadhyay,
SPMS Division, Saha Institute of Nuclear Physics
1/AF Bidhannagar, Sector 1, Kolkata – 700064
Email: aqmust2026@gmail.com

Website:
https://www.saha.ac.in/web/photon-factory-home