

International Workshop on Light Sources and Science with THz radiation and Electron beam

Inter University Accelerator Centre, New Delhi

December 09 - 11 , 2025



IMPORTANT ANNOUNCEMENT: The first signature of THz radiation was observed at DLS, IUAC on 05 SEPT. 2025

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- P. Patra (Co-convener), IUAC
- C.P.Safvan, IUAC
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The Workshop will focus on generation, characterization and utilization of THz and X-ray radiation from ultra short single or train of femtosecond bunches of relativistic electrons.

Primary objectives of the workshop are:

- ❑ Presentations and discussions by various researchers and accelerator physicists who are in the process of developing the electron accelerators, light sources, THz and X-rays facilities and other associated devices.
- ❑ Presentations and discussions by researchers who are involved in various cutting-edge experiments in the multidisciplinary fields using intense THz radiation, X-rays and high-quality electron beams.
- ❑ Discussion and planning on the possible experimental facilities to be installed at IUAC for supporting cutting edge research of the users.

The lectures of this workshop will be delivered by experienced researchers invited from India and abroad. The workshop will provide an exposure to students, young faculty members and researchers who are working in the various fields of Synchrotron, Free Electron Laser accelerator or are performing advanced experiments with electromagnetic radiation and electron beam.

As the first signature of THz was detected at Delhi Light Source facility of IUAC, a substantial initiative is being taken to develop the experimental facility for utilizing the THz radiation and high quality of Electron beams.

The participation in the workshop is only through invitation

Major Topics:

- **Free Electron Laser and Synchrotron Radiation Sources**
- **Electron Accelerator and its associated systems**
- **Undulator and Advanced Laser system**
- **THz Transportation, Detection, Characterization and Imaging**
- **Experiments with THz & X-rays in Mat. Sc. Bio. Sc., Medicine, etc.**

Important dates and Deadline:

- Registration deadline : 30th November 2025
- Deadline for booking for sightseeing : 02 Dec. 2025, (Taj Mahal or Delhi sight seeing organized on Monday, 08 Dec. 2025)

Contact details:

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