Symposium and Workshop on

Quantum Science & Technology

March 17-18, 2025

Celebrating 100 years of Quantum Physics

About the Program

The Department of Applied Sciences, IIIT Allahabad in collaboration with Centre for Development of Advanced Computing (CDAC), Pune, are going to organize a 2-day symposium and workshop on Quantum Science & Technology. This program provides a unique opportunity to engage with the cutting-edge developments in quantum science and technologies, discuss challenges and opportunities, and collaborate with experts. IIIT Allahabad is poised to launch a Master's program in Quantum Information and Technologies.

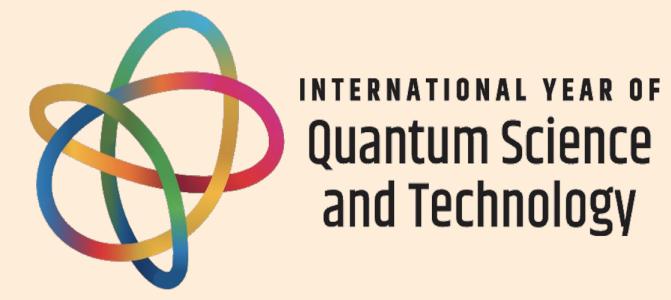## Aim of the symposium and workshop

This 2-day symposium and workshop is organized to impart knowledge among the young learners about the pivotal role played by quantum science in understanding finer details of our nature and giving birth technologies that have shaped the society we live in. Further, the potential for quantum-enabled technologies will be elicited. Participants will get exposed to hands-on sessions and talks from experts to get a first hand experience on wide scale applications of quantum technologies.

About IIIT Allahabad

The Indian Institute of Information Technology Allahabad (IIITA) was established in 1999, as a center of excellence in Information Technology (IT) and allied areas. The institute was conferred the "Deemed University" status by the Government of India in the year 2000. It was declared as an "Institute of National Importance" by the Act of the Parliament, Govt. of India in 2014. The Institute has been conceived with the objective of developing professional expertise and skilled manpower in IT and areas of allied research.

About Department of Applied Sciences

The Department of Applied Sciences is an integral component of the academic ecosystem of the Indian Institute of Information Technology, Allahabad. The department offers multiple core courses in Physics, Mathematics, and Statistics for B. Tech. programs running at IIIT Allahabad. The department offers M. Tech. courses in BioInformatics and Biomedical Engineering.

INTERNATIONAL YEAR OF
Quantum Science and Technology

Topics to be covered

- ➢ Quantum Information and Computation
- ➢ Quantum Materials & Devices
- ➢ Quantum Many-body Physics
- ➢ Quantum Cryptography

Salient features

- ➢ Expert Talks
- ➢ Interactive sessions
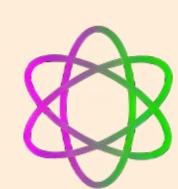- ➢ Hands-on sessions

Registration and Other Information

- ➢ **Application deadline: March 07, 2025**
- ➢ Interested students need to register via given link below:

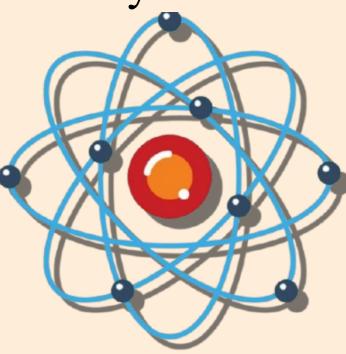https://docs.google.com/forms/d/e/1FAIpQLSd0A8VdU-ugjJlHpodYnwHniILVAPj5S-O1rW1Bhi_Y-lURiQ/viewform?usp=dialog

- ➢ Tentatively first 120 participants will be allowed to attend the training program.
- ➢ Selected candidates will be informed via registered emails.
- ➢ Kindly note that limited accommodations will be provided on the payment basis as per the availability.

Organizing Committee

- ➢ Prof Mukul Sharad Sutaone (Director IIITA)
- ➢ Dr. Mandar Karyakarte (Registrar, IIITA)
- ➢ Dr. Akhilesh Tiwari   ➢ Dr. Pramod Kumar
- ➢ Dr. Srijit Bhattacharjee   ➢ Dr. Upendra Kumar
- ➢ Mr. Amit Saxena (C-DAC, Pune)

Speakers

- ➢ Dr. Aditi Sen De (HRI Allahabad)
- ➢ Dr. Sunil Nair (IISER Pune)
- ➢ Dr. Chandra Shekhar, (Max-Planck Institute, Dresden, Germany)
- ➢ Dr. Arpan Bhattacharyya (IIT Gandhinagar)
- ➢ Dr. Sanjay Singh (IIT BHU)
- ➢ Mr. Amit Saxena (C-DAC Pune)
- ➢ Dr. Akhilesh Tiwari (IIITA)
- ➢ Dr. Pramod Kumar (IIITA)
- ➢ Dr. Srijit Bhattacharjee (IIITA)
- ➢ Dr. Upendra Kumar (IIITA)
- ➢ Dr. Soumyadev Maity (IIITA)
- ➢ Mr. Atul Tripathi (QT expert from Industry)

Hands-on Experts from C-DAC

- ➢ Mr. Aashay Pandharpatte   ➢ Mr. Abhishek Nautiyal
- ➢ Ms. Deeksha Kushwaha   ➢ Mr. Vishu Vyas
- ➢ Mr. Mithilesh Gaikwad   ➢ Ms. Kanishka Padamata

Contact in case if you have any query
Email: qit@iiita.ac.in

For more information, visit our website –
https://www.qit.iiita.ac.in/