



VISITOR'S PROGRAMME 2025

 $(19^{th} - 20^{th} February 2025)$

DEPARTMENT OF PHYSICS & ASTROPHYSICS UNIVERSITY OF DELHI, DELHI-110007

PROGRAM

Venue: Seminar Hall (G12), Maharishi Kanad Bhawan, University of Delhi

February 19, 2025 (Wednesday)

| 9.00 – 9.30 A.M. | Registration |
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| 9.30 – 10.00 A.M. | Opening Remarks: Prof. Debajyoti Choudhury |
| | Session Chair: Prof. Debajyoti Choudhury |
| 10:00 – 11.00 A.M. | One photon in, two photons out Prof. K. Thyagarajan, IIT Delhi (Rtd) |
| 11.00 – 11.30 A.M. | High TEA |
| | Session Chair: Prof. Amarjeet Kaur |
| 11.30 – 12.30 P.M. | Precise Time keeping with Atomic Clocks for strategic applications and advanced scientific research Prof. Subhasis Panja, NPL, Delhi |
| 12.30 – 1.15 P.M. | Science and technology near absolute zero temperatures Dr. Om Prakash, University of Delhi |
| 1.15 – 2.30 P.M. | LUNCH |
| | Session Chair: Prof. Sanjay Jain |
| 2.30 – 3.30 P.M. | Emergence of Quantum Technologies from Quantum Physics: Journey of a Century Prof. Arvind, IISER Mohali |
| 3.30 – 5.00 P.M. | Poster Coordinators: Dr. Utkarsh Mishra & Dr. Archana Mishra Poster Session with Tea |

February 20, 2025 (Thursday)

| | Session Chair: Prof. S. Annapoorni |
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| 10.00 – 11.00 A.M. | Quantum Technologies in India's Defence Sector Prof. Santu Sardar, DRDO, Pune |
| 11.00 – 11.30 A.M. | TEA Break |
| | Session Chair: Prof. T. R. Seshadri |
| 11:30 – 12.30 P.M. | Quantum simulations for atomic nuclei and some with them Prof. P. Arumugam, IIT Roorkee |
| 12.30 – 1.15 P.M. | Exploring novel magnet-superconductor hybrid platforms for quantum computing Dr. Archana Mishra, University of Delhi |
| 1.15 – 2.30 P.M. | LUNCH |
| | Session Chair: Prof. Binay Kumar |
| 2.30 – 3.30 P.M. | Quantum-Enhanced Sensing with Many-Body Systems Dr. Utkarsh Mishra, University of Delhi |
| 3.30 – 4.30 P.M. | A perspective towards materials discovery from advanced state-of-the-art quantum mechanics-driven simulations Prof. Saswata Bhattacharya, IIT Delhi |
| 4.30 – 5.00 P.M. | Concluding Remarks: Prof. S. Murugavel |