Session Program

25–27 Nov 2026



4th International Workshop on Physics with Trapped Charged Particles (IWPTCP-26), IUAC, New Delhi

Poster Session

Maharishi Kanad Auditorium, IUAC
Inter University Accelerator Centre Aruna Asaf Ali Marg, New Delhi 110067

Thursday 26 November

13:30

Poster Session: Poster session

Poster Session |
Location: Maharishi Kanad Auditorium, IUAC, Inter University Accelerator Centre Aruna Asaf Ali Marg, New Delhi 110067

Energy resolution and absolute efficiency calibration facility for Low-energy plasma sensor for Venus Mission

Speaker
Malavika S

Proposal for the Direct Measurement of the Zero-Point Energy

Speaker
Tufail Khan

A 22-pole ion trap setup for astrophysically relevant reaction kinetic studies

Speaker
Siddhartha Sankar Payra

Delhi Penning Trap Setup For Experimental Study of Electron-Impact Ionization Cross-Section in Relativistic regime

Speaker
Avnish Ola

Design and Optimization of a Multilayer Axial Resonator for Ar+ Detection in the Delhi Penning Trap (DPT)

Speaker
VEENA C P

In search of evidence of plasmon excitation in PAHs at low-energy electron impact

Speaker
Ria Sankaranarayanan

Laser-Induced,Blackbody-Radiation-Assisted Rovibrational Cooling of Linear Triatomic Molecules

Speaker
Brotin Taraphdar

Characterization of a trapped ion platform: potential, micromotion, heating, and scattering

Speaker
Mr Amit Ghosh

Probing a New Formation Pathway for N-bearing PAHs in the Interstellar Medium Using a 22-Pole Ion Trap

Speaker
Yash Lenka

Quantum Beam-Splitter Cooling and Thermometry in Large Trapped-Ion Crystals

Speaker
Kirthik Rajakumar

Design, Development, and Characterization of a Dual Linear Paul Trap

Speaker
Jhilik Hazra

From electrode asymmetry to octupole anharmonicity: quantum motional dynamics of a single ion in a Paul trap

Speaker
Sukanya Jana

Free-Induction-Decay Atomic Magnetometer with a MEMS Cesium Vapor Cell

Speaker
Mr Chandankumar Hegde

Linewidth measurement of a home-built external cavity diode laser via self-heterodyne interferometry

Speaker
Ms S Ranjita Chanu

Towards Paul trapping of single electron bubbles in liquid helium

Speaker
Debnath Samanta

Analysis of an effective adiabaticity parameter to characterize ion temperatures in multipole radiofrequency ion traps

Speaker
PRAGYA NANDAN

Iodine anion photodetachment in a 16-pole ion trap

Speaker
pritam bisi

Space-charge-limited Coulomb crystals in a 3D Paul trap: direct N-body simulation versus cold-fluid theory

Speaker
Varun Ramanathan Alagappan

Quekit-SDK - An Indigenous SDK for virtual trapped-ion and quantum physics simulation

Speaker
Mr Vicky Budhiraja

Large associative ionization cross-section for low lying states of Li

Speaker
Sadiq Rangwala

Electron Impact Ionization Cross Sections and Rate Coefficients for the CS_2 Molecule

Speaker
Dr Neeraj Kumar

Longitudinally Polarized Electron-Induced Ionization of Palladium Atoms: A Relativistic Spin-Asymmetry Study

Speaker
Sheetal Sisodiya

Electron-impact total ionization cross sections for neutral Erythrulose C4H8O4

Speaker
JINENDRA PATEL

K-LL Auger- Meitner emission in symmetric projectile ion- target molecule collision.

Speaker
Nitish Kumar

Electron and Ion Radiation Processes on Astrophysical Ice Surfaces: Development of a New Experimental Facility at SINP, Kolkata, India

Speaker
Sankhabrata Chandra

Electron-induced x-ray emission from thick Pb and Pt targets: Experimental measurements and PENELOPE simulations

Speaker
Kailash Verma

Study of electron impact ionization and excitation cross sections of beryllium isoelectronic sequence

Speaker
Ravin Kumar

Laboratory Simulation of Titan’s Ionospheric Conditions

Speaker
Abhina K P

Modelling Plasmon Excitations in Planar PAH Systems

Speaker
Arjun Jaikrishna M

Fragmentation dynamics of exotic ionic species derived from the toluene cation under CID

Speaker
Ms BINDUJA PANJA

Pyridine under Electron-Impact and Multiphoton Ionisation: Estimation of Appearance Energies and Identification of Dissociation Pathways

Speaker
DEVIKA V S

Appearance Energy of Benzonitrile Fragment Cations Under Low Energy Electron Impact

Speaker
Dhanvi Anu

General Purpose, Modular and Customizable Integrated Data Acquisition and Control System (IDACS) For Charged Particle Instrumentation

15:00

Speaker
Jaimin Chaudhari