

Programme (February 20, 2025)

10:00 - 10:15

Inauguration

10:15 - 11:15

Inaugural plenary session

Jayaram N Chengalur

11:15 - 12:55

**Session: Infrastructure development for Advanced Laboratories
(Each talk: 25 minutes)**

Next Generation Genomics Facility and contributions in
developing cost effective sequencing method(s)

Awadhesh Pandit (NCBS-TIFR)

Advances in Air Safety Sub-Systems for High-Altitude Scientific
Ballooning: Integration, Challenges, and Future Prospects

Santosh Koli (TIFR Balloon Facility)

Radio Telescope for Radio Astronomy

S Sureshkumar (NCRA-TIFR)

Signal processing and data analysis in the GMRT

Sanjay S. Kudale (NCRA-TIFR)

12:55 - 14:00

Lunch and Poster Session

14:00 - 14:45	Plenary session <i>Anurag Kumar (Director, ECIL)</i>
14:45 - 16:00	Session: Astronomy and Space Sciences (Each talk: 25 mins) Infrared Astronomical Cameras and Instrumentation at TIFR Mumbai <i>Milind Naik (TIFR Mumbai)</i> Configurable Slit Unit for the Multi Object Infrared Spectrometer <i>Pankaj Madhwani (TIFR Mumbai)</i> Calibration of 256 Pixel SiPM Camera for the 4-meter Cherenkov Telescope <i>Bharat Bhushan Singh (TIFR Mumbai)</i>
16:00 – 17:15	Session: Data Acquisition, Processing and Analytics (Each talk: 25 mins) Seagate Storage Solutions <i>Kamran Akthar</i> Empowering Science Through Innovative Software Solutions <i>Priya Sharma (TIFR Hyderabad)</i> High-Sensitivity Magnetic Field Measurements using Atomic Sensors <i>G. Rajalakshmi (TIFR Hyderabad)</i>
17:15 – 17:30	Tea and poster session
17:30 - 18:30	Evening lecture <i>Krishna Ella (Executive Chairman, Bharat Biotech International Limited)</i>

Programme (February 21, 2025)

09:30 - 10:30

Plenary session

Dheeraj Pande (Director, Atomic Minerals Directorate)

10:30 - 11:35

Session: Atomic Nuclear and Particle Physics

Indigenous linac development and its societal applications

Vikash Petwal (RRCAT) (Invited talk); Duration: 45 mins

Advancements and Upgrades at the BARC-TIFR Pelletron Linac
Facility for Heavy-Ion Research

Sanjoy Pal (TIFR Mumbai); Duration: 25 mins

11:35 - 12:00

Tea and poster session

12:00 – 13:15

Session: Instrumentation for Sensing and Imaging (Each talk: 25 mins)

Spectroscopy and Imaging Across Scales: Exploring Small
Molecules to Extended Structures at TIFR Mumbai

Parth Sarathi Nayak (TIFR Mumbai)

A compact inertial nanopositioner operating at cryogenic
temperatures

John Jesudasan (TIFR Mumbai)

Fuelling Research and Innovation: The Impact and Role of
Research Development Offices in Fundraising, Collaboration, and
Advancing Research

Malini S Pillai (NCBS-TIFR)

13:15 - 14:15 Lunch

14:15 - 16:20 **Session: Infrastructure development for Advanced Laboratories
(Each talk: 25 mins)**

Cosmic Ray Laboratory - A continuous journey of development and discovery

Atul Jain (Cosmic Ray Laboratory, Ooty)

Explorations into the Mouse Brain: Mapping, Modifications and Manipulations

Gopalkrishna R (TIFR Hyderabad)

Building an experimental setup to study multiferroic properties

Iyer Karthik Krishnan (TIFR Mumbai)

Silicon detector activities for Belle II and CMS experiments

Kodali Kameswara Rao (TIFR Mumbai)

Operational Challenges in Managing the Cryogenic Facility at TIFR, Mumbai

K V Srinivasan (TIFR Mumbai)

16:20 - 16:45 Closing session

16:45 onwards High tea and lab visits

