

Program

2-6 Feb 2026

TIPP 2026

TIFR, Mumbai

Tata Institute of Fundamental Research, Homi Bhabha Road, Navy Nagar, Colaba, Mumbai 400005,
India

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10	Tuesday 3 Feb
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Monday 2 February

09:30

Opening Session: at the Homi Bhabha Auditorium (HBA)

Session | **Convener:** Prof. Rudrajyoti Palit (TIFR, Mumbai)

09:30–09:40 **Welcome**

Speaker

Prof. Jayaram Chengalur (Director, TIFR, Mumbai)

09:40–09:50 **Introduction to TIFR**

Speaker

Prof. Shankar Ghosh (Dean-NSF, TIFR, Mumbai)

09:50–10:00 **Welcome address from CERN**

Speaker

Mark Thomson (CERN)

10:00–10:10 **Welcome address from Europe**

10:10–10:20 **Welcome address from KEK**

Speaker

Shoji Asai (University of Tokyo (JP))

10:20–10:55 **Microelectronics : A vision talk with radiation hard electronics**

Speaker

Dr Christophe De La Taille (OMEGA (FR))

11:00

11:00

Tea

Break

11:30

11:30

Plenary Session-I: at HBA

Session | **Convener:** Prof. Vandana Nanal (TIFR, Mumbai)

11:30–12:05 **SuperCDMS dark matter experiment**

Speaker

Priscilla Cushman

12:05–12:40 **Indian National Gamma Array**

Speaker

Rudrajyoti Palit (Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai 400005, India)

12:40

12:40

Lunch Break

Break

14:00

14:00

Parallel Session-I: at HBA**Session | Convener:**

Nayana Majumdar (Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, A CI of Homi Bhabha National Institute)

14:00–14:15 wireless power transmission for silicon detector**Speaker**

Yan Benhammou (Tel Aviv University (IL))

14:15–14:30 The Spin Physics Detector (SPD) at NICA**Speaker**

Alexander Korzenev (Joint Institute for Nuclear Research (RU))

14:30–14:45**The Crilin electromagnetic calorimeter: a fast, highly granular detector for a future Muon Collider****Speaker**

Vittoria Ludovica Ciccarella (INFN Laboratori Nazionali di Frascati)

14:45–15:00**Low-Power Modular UV Detector with SiPMs and ASIC/FPGA Readout for Space-Based Observatories****Speaker**

Valentina Scotti

15:00–15:15**R&D toward a next-generation heavy-ion experiment at LHC (ALICE 3)****Speaker**

Sofia Strazzi (Universita e INFN, Bologna (IT))

15:15–15:30**High Granularity Scintillator Tiles for the High Luminosity Upgrade of the CMS Endcap Calorimeter****Speaker**

Daria Selivanova (Deutsches Elektronen-Synchrotron (DE))

15:30–15:45**Water Cherenkov Test Experiment at CERN: Preliminary Results from a New Generation of multi-PMT Modules****Speaker**

Mohit Gola (TRIUMF (CA))

15:45–16:00**A new large-area Micromegas detector and its ToRA-based readout electronics for AMBER experiment at CERN****Speaker**

Chiara Alice (Universita e INFN Torino (IT))

16:00

14:00

Parallel Session-II: at AG66**Session | Convener:** Ismael Martel (University of Huelva (ES))**14:00–14:15****Operational experience and performance of the Silicon Vertex Detector after the first long shutdown of Belle II**

Speaker

Alice Gabrielli

14:15–14:30

Design, Development and Performance of a Charge Injection System for the CMS HGCAL Front-End Electronics QC**Speaker**

Jasmine Chhikara (Tata Institute of Fundamental Research (IN))

14:30–14:45

CMS Phase 2 Tracker Upgrade for HL-LHC**Speaker**

Prolay Mal (National Institute of Science Education and Research (NISER) (IN))

14:45–15:00

Radiation Tolerance Evaluation of P-Type Silicon Sensors with HGCROC for FoCal Detector in ALICE**Speaker**

Anup Kumar Sikdar (Department of Atomic Energy (IN))

15:00–15:15

Assembly procedure of silicon strip detector module with 1 μm alignment precision for the muon g-2/EDM experiment at J-PARC**Speaker**

Shinji Ogawa (KEK IPNS)

15:15–15:30

Radiation Damage and Operation of the LHCb Upgrade I Vertex Locator**Speaker**

Valeriia Zhovkovska (University of Warwick (GB))

15:30–15:45

The new NA60+/DiCE experiment at the CERN SPS with wafer-scale, stitched, monolithic active pixel sensors**Speaker**

Dr Sabyasachi Siddhanta (INFN, Italy and CERN, Switzerland)

15:45–16:00

Phase 2 Upgrade of ATLAS Hadronic Tile Calorimeter**Speaker**

Mattia Soldani (CERN)

16:00

14:00

Parallel Session-III: at AG69**Session** | **Convener:** Moonmoon Devi

14:00–14:15

G-RWELL Performance Studies for ePIC's MPGD Endcap Tracker**Speaker**

Elena Sidoretti

14:15–14:30

Superheated liquid Detector and instrumentation for InDEX dark matter search experiment at JUST**Speaker**

Mala Das

14:30-14:45

Measurement and Simulation of Light Output Response in EJ-276D Plastic Scintillator for Fast Neutron Detection**Speaker**

Mr Pankaj Pant (Variable Energy Cyclotron Center Kolkata, India)

14:45-15:00

DarkSide-20k: A Next Generation LAr Dual-phase TPC for Direct Search of Particle DM**Speaker**

Devidutta Gahan (INFN-LNGS)

15:00-15:15

Development of the ATLAS Liquid Argon Calorimeter Readout Electronics for the HL-LHC**Speaker**

Georges Aad (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))

15:15-15:30

Power over fiber for fundamental and applied physics at cryogenic temperature: final results of the Cryo-PoF project**Speaker**

Andrea Falcone (Universita e INFN, Milano Bicocca(IT))

15:30-15:45

R&D Studies on the ALLEGRO Noble Liquid Calorimeter for FCC-ee**Speaker**

Juska Pekkanen (CERN)

15:45-16:00

Resistive Pixelized Micromegas for Applications at Future Colliders**Speaker**

Mauro Iodice (INFN - Sezione di Roma Tre)

16:00

14:00

Parallel Session-IV: at AG80**Session** | **Convener:** Shilpi Jain (Tata Institute of Fundamental Research (IN))

14:00-14:15

Drift tube detectors in RNC "Kurchatov institute" - IHEP for accelerator-based particles physics, monitoring the fluxes of cosmic ray particles, cosmic ray muon tomography**Speaker**

Dr RinatMakarim Fakhruddinov (NRC "Kurchatov institute" - IHEP)

14:15-14:30

Proportional counter development with vacuum manifolds recycling legacy iron tubes for the GRAPES-3 expansion**Speaker**

Dr Pranaba K Nayak (Tata Institute of Fundamental Research)

14:30-14:45

Development of Time Projection Chamber for low energy Nuclear Physics experiments

Speakers

Nayana Majumdar (Saha Institute of Nuclear Physics), Mr Pralay Kumar Das (Saha Institute Of Nuclear Physics)

14:45–15:00

Preliminary Design of ePIC's G-RWELL Endcap Tracker and Development of its First Engineering Test Article**Speaker**

Stefano Gramigna (INFN Roma Tor Vergata)

15:00–15:15

Performance Studies of Gaseous Detectors for Heavy-Ion Experiments**Speaker**

Mr S. Mandal (Bose Institute)

15:15–15:30

Muon momentum spectrum near equator and tuning of hadronic models**Speaker**

Dr PETHURAJ S (Tata Institute of Fundamental Research, Mumbai)

15:30–15:45

Technical challenges and performance of the new ATLAS LAr Calorimeter Trigger**Speaker**

Ruben Pozzi (CERN)

16:00

14:00

Parallel Session-V: at D406**Session** | **Convener:** Mandakini Ravindra Patil (Tata Institute of Fundamental Research (TIFR))

14:00–14:15

Electronics of the Fast Forward Detector in MPD experiment**Speaker**

Victor Rogov

14:15–14:30

Design and development of a 32 Channel Waveform Digitiser Board based on DRS4 for the Cosmic Muon Veto Detector**Speaker**

Mandar Saraf (Tata Institute of Fundamental Research (IN))

14:30–14:45

Development and Characterisation of a Plastic Scintillator-based Compact Test and Trigger System with SiPM Readout and Custom Electronics**Speaker**

Mr Prajjalak Chattopadhyay (Tata Institute of Fundamental Research (IN))

14:45–15:00

The MDT Trigger Processor prototype for the ATLAS Level-0 Muon Trigger at HL-LHC**Speaker**

Panagiotis Gkoutoumis (University of California Irvine (US))

15:00–15:15

Knypaegje: An Algorithm for Achieving Deterministic Startup Phase in GTYe4 and GTYe5 Transceivers

Speaker

Melvin Leguijt (Nikhef National institute for subatomic physics (NL))

15:15–15:30

RAM-based Coincidence Window Optimization for Real-Time Muon Reconstruction in HL-LHC ATLAS L0 Muon Trigger**Speaker**

Tetsuro Nakagawa (Kyoto University (JP))

15:30–15:45

FPGA-based Emulator Platform Targeting ATLAS Phase-2 ITk DAQ System Development**Speaker**

Matthias Peter Drescher (Georg August Universitaet Goettingen (DE))

16:00

16:00

Tea Break**Break**

16:30

16:30

Parallel Session-I: at HBA**Session | Convener:**

Nayana Majumdar (Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, A CI of Homi Bhabha National Institute)

16:30–16:45

Water-based Liquid Scintillator in ANNIE**Speaker**

Mr Noah Goehlke (Johannes Gutenberg-University Mainz)

16:45–17:00

Towards detection of Breit-Wheeler tunneling positrons in E320 at the FACET-II accelerator**Speaker**

Arka Santra

17:00–17:15

Construction and QA/QC of Large-Size GEM Modules for Muon Chamber Station 1 in CBM**Speaker**

Mr Rajeshranjan Rath

17:15–17:30

Development of the PBR Cherenkov Camera: A High-Resolution SiPM Instrument for Space Astroparticle Observatories**Speaker**

Valentina Scotti

18:00

16:30

Parallel Session-II: at AG66**Session | Convener:** Ismael Martel (University of Huelva (ES))

16:30–16:45

Pentadimensional Tracking Space Detector on a CubeSat demonstrator for 5D tracking in space

Speaker

Elisabetta Cavazzuti (Agenzia Spaziale Italiana)

16:45–17:00

Design and Performance Evaluation of the Silicon Strip Detector Cooling System for J-PARC Muon g-2/EDM Experiment**Speaker**

Mr Taiki SATO (The University of Tokyo)

17:00–17:15

The CBM Micro-Vertex Detector: Toward Production Readiness with MIMOSIS MAPS**Speaker**

Ajit Kumar (Goethe-Universität Frankfurt(UFfm-IKP))

17:15–17:30

The Beam Conditions Monitor at the LHCb experiment in Run 3**Speaker**

Donata Osthues (Technische Universitaet Dortmund (DE))

17:30–17:45

Pixelated AC-LGAD sensors for the Electron-Ion Collider (EIC): read-out performances with EICROC0_v0 ASIC**Speaker**

Dominique Marchand

17:45–18:00

Early Failure Detection in Electronics: Assessing the Impact of Burn-In Station Using Machine Learning**Speaker**

Chuene Johannes Mosomane (iThemba LABS, National Research Foundation (ZA))

18:00

16:30

Parallel Session-III: at AG69**Session** | **Convener:** Moonmoon Devi

16:30–16:45

Latest results from the LUX-ZEPLIN (LZ) dark matter experiment**Speaker**

Nicholas Fieldhouse (University of Oxford)

16:45–17:00

Development of an optical tomography system based on picosecond pulses for non-invasive brain diagnosis and monitoring**Speaker**

Vladislav Sharov (Joint Institute for Nuclear Research)

17:00–17:15

In-flight performance of the HEPD-02 detector on board the CSES-02 satellite**Speaker**

Ester Ricci (Universita degli Studi di Trento and INFN (IT))

17:15–17:30

Development of Silicon Photo-Multiplier (SiPM) Detectors for Muon Scattering Tomography

Speaker

Shubhabrata Dutta (Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, A CI of Homi Bhabha National Institute)

17:30-17:45

A development of a water quality monitoring system and its application to drinking water monitoring

Speaker

Akira Konaka (TRIUMF (CA))

17:45-18:00

Neutron detection with boron-coated GEM-based detector using ^{252}Cf source

Speaker

Pawan Kumar Sharma (VECC Kolkata)

18:00

16:30

Parallel Session-IV: at AG80

Session | **Convener:** Deepak Samuel (Central University of Karnataka)

16:30-16:45

Commissioning and Testing of Station-1 and Station-2 MuCh-GEM Modules with High-Intensity Beams at the mini-CBM Experiment at GSI

Speaker

Mr Chandrasekhar Ghosh (1. Variable Energy Cyclotron Centre, Kolkata - 700064, INDIA, 2. Homi Bhabha National Institute, Anushaktinagar, Mumbai 400094)

16:45-17:00

Investigation of India-made Thick-GEM for Application in Muon Scattering Tomography

Speaker

saikat ghosh

17:00-17:15

ATLAS Muon Detectors Upgrades for High Luminosity LHC

Speaker

Chaowaroj Wanotayaroj (KEK High Energy Accelerator Research Organization (JP))

17:15-17:30

Construction and Testing of Resistive Plate Chambers with Optical Readout

Speaker

Burak Bilki (Beykent University (TR), The University of Iowa (US))

17:30-17:45

The μ -RWELL technology in the IDEA Muon System for FCC-ee

Speaker

Riccardo Farinelli (INFN Bologna (IT))

18:00

16:30

Parallel Session-V: at D406

Session | **Convener:** Mandar Saraf (Tata Institute of Fundamental Research (IN))

16:30-16:45

Upgrade of the Front-End Electronics of the C217 RPC Detector Stack at TIFR

Speaker

Ravindra Raghunath Shinde (TATA INSTITUTE OF FUNDAMENTAL RESEARCH)

16:45–17:00

Data Acquisition System of the TPC/MPD Detector for the NICA Project**Speaker**

Mr Stepan Vereshchagin (Joint Institute for Nuclear Research (RU))

17:00–17:15

An FPGA based readout system for sub-nanosecond beam background characterization**Speaker**

Florian Eisele

17:15–17:30

Development and Testing of an External and Self-Triggering System for HGCAL Beam and Cassette Tests**Speaker**

Raghunandan Shukla (Imperial College (GB))

17:30–17:45

Scintillator Counters and PMT Read-out Electronics for the HEPD-02 Calorimeter on the CSES-02 Satellite: Design and Performance**Speaker**

Marco Mese (University of Naples Federico II)

17:45–18:00

From Polling to Proactive Push: An Event-Driven Architecture for Real-Time Data Acquisition**Speakers**

Mr Prajwal Deshmukh (Sardar Patel Institute of Technology), Rohan Kadam (Sardar Patel Institute of Technology), Mr Saiesh Khadpe (Sardar Patel Institute of Technology)

18:00

Tuesday 3 February

09:30

Plenary Session-I: at the Homi Bhabha Auditorium (HBA)

Session | Convener: B S Acharya (T.I.F.R.)

09:30-10:05 **JUNO - A technical feat becoming reality**

Speaker

Andrea Barresi (University and INFN of Milano-Bicocca)

10:05-10:40 **MACE Detector and physics**

Speaker

Kuldeep Yadav

10:40

10:40

Group photo

Session

10:50

10:50

Tea Break

Break

11:20

11:20

Plenary Session-II: at HBA

Session | Convener: junji haba (KEK)

11:20-11:55 **ATLAS Inner TracKer Upgrade**

Speaker

Tony Affolder (University of California,Santa Cruz (US))

11:55-12:30 **CMS High Granularity Calorimeter**

Speaker

Rajdeep Mohan Chatterjee (Tata Institute of Fundamental Research (IN))

12:30

12:30

Lunch Break

Break

14:00

14:00

Parallel Session-I: at HBA

Session | Convener: Rajdeep Chatterjee (Tata Institute of Fundamental Research (IN))

14:00-14:15 **Test of 1 cm³ scintillator cubes with pion beam**

Speaker

Angelina Chvirova (INR RAS)

14:15-14:30

Characterization of Different Size Deuterated Liquid Scintillator Detectors

Speakers

P. Pant, S. Dalal

14:30–14:45

ADVANCING SCINTILLATION-BASED DARK MATTER DETECTION WITH SiPM READOUT IN NaI CRYSTALS**Speaker**

Mr Swadheen Bharat (University of Zaragoza, Spain)

14:45–15:00

The OREO Calorimeter status and prospect**Speaker**

Pierluigi Fedeli (Università degli Studi di Ferrara & Istituto Nazionale di Fisica Nucleare)

15:00–15:15

Performance of 3D segmented neutrino detector SuperFGD in the T2K neutrino beam**Speaker**

Yury Kudenko

15:15–15:30

R&D on supercritical CO₂ and krypton as natural refrigerants for the thermal management of future detectors and electronics**Speaker**

Bart Verlaet (CERN)

15:45–16:00

DRD8 - Common tools for next generation detectors**Speaker**

Burkhard Schmidt (CERN)

16:00

14:00

Parallel Session-II: at AG69**Session** | **Convener:** Saranya Samik Ghosh (Indian Institute of Technology Hyderabad (IN))

14:00–14:15

Irradiation studies of CMS Cathode Strip Chambers and in situ CSC performance monitoring at CMS**Speaker**

Neha Rawal (University of Florida (US))

14:15–14:30

The CGEM-IT of the BESIII detector**Speaker**

Antonio Amoroso (Università e INFN Torino (IT))

14:30–14:45

Quenching factor measurement efforts for NEWS-G**Speaker**

Neha Panchal (Postdoctoral Fellow)

14:45–15:00

External VMM3a Readout for the Straw Trackers**Speaker**

Vitalii Bautin (Joint Institute for Nuclear Research (RU))

15:00–15:15

Wire-by-Wire Tracking Efficiency Plots: New Diagnostic for the Belle II Central Drift Chamber**Speaker**

Dr Suryanarayan Mondal (INFN Turin)

15:15-15:30

THGEM with resistive plate anode: Signal shape and gain optimization**Speaker**

Arpan Maity (Weizmann Institute of Science (IL))

15:30-15:45

The G-RWELL: A High-Performance Resistive MPGD for Next-Generation High-Energy Experiments**Speaker**

Matteo Giovannetti (INFN e Laboratori Nazionali di Frascati (IT))

15:45-16:00

Requirements to the read-out electronics for future Straw Trackers and the straw performance measurements with muon, hadron and electron test beams.**Speaker**

Katerina Kuznetsova (University of Florida (US))

16:00

14:00

Parallel Session-III: at AG80**Session** | **Convener:** Deepak Samuel (Central University of Karnataka)

14:00-14:15

Design and Performance Evaluation of a Compact PET Scanner Setup**Speaker**

Vishal Malik (TIFR Mumbai)

14:15-14:30

A prototype coded aperture imaging-based radiation localization and identification system**Speaker**

Mr Tushar Kesarkar (Bhabha Atomic Research Centre, Mumbai)

14:30-14:45

OPOSSUM - Optimal Particle identification Of Single Site events with Underground MKIDs detectors**Speaker**

Paul Andrei Puiu

14:45-15:00

Characterization of Quantum Dot Properties for Enhanced Calorimetry in High Energy Physics**Speaker**

Mr Santanu Mahata (Tata Institute of Fundamental Research (IN))

15:00-15:15

CEvNS Search with Cryogenic Sapphire Detectors at MINER: From TRIGA Results to HFIR Prospects**Speaker**

Dipanwita Mondal (National Institute of Science Education and research (NISER), Bhubaneswar)

15:15-15:30

3D-Printed Plastic Scintillators for Advanced Radiation Detection and ToF-PET Applications

Speaker

Vivek Anand (Indian Institute of Technology Roorkee)

15:30–15:45

Optimisation of plastic scintillator based PET device**Speaker**

Raj Shah (Tata Institute of Fundamental Research)

Parallel Session-IV: at D406**Session** | **Convener:** Mandar Saraf (Tata Institute of Fundamental Research)

14:00–14:15

Analysis of radiation effects in trigger front-end electronics with impedance spectroscopy**Speaker**

Dr Pierluigi Casolaro (University Federico II and INFN, Naples (IT))

14:15–14:30

Development and validation of trigger primitive generation algorithms of High Granularity Calorimeter of CMS**Speaker**

Indranil Das (Imperial College London (GB))

14:30–14:45

A FPGA-based L1 trigger system design for STCF**Speaker**

Yuhe Huang

14:45–15:00

Triggering on Muon Detector Showers with CMS**Speaker**

Pedro Fernandez Manteca (CERN)

15:00–15:15

Detector R&D for Future Linear Colliders**Speaker**

Dr Maksym Titov (IRFU, CEA Saclay, Université Paris-Saclay (FR))

15:15–15:30

Control System and Data Quality Monitoring of the Belle II KLM Detector**Speaker**

Dr Varghese Babu (University of Louisville and KEK accelerator facility)

15:30–15:45

Development of an SiPM-based camera for a 4 m class Atmospheric Cherenkov Telescope**Speaker**

Sandeep Duhan (TIFR, Mumbai)

15:45–16:00

Commissioning and Calibration of SiPM-based 4m cherenkov telescope**Speaker**

Dr Bharat Singh (TIFR, Mumbai)

16:00

16:30

16:30

Tea Break**Break****Poster session: (HBA Foyer : Stand for Portrait A0 size poster, poster will be displayed for all five days)****Session**

16:55–16:57

The OCTOPUS Project: Development of a Monolithic Active Pixel Sensor for Future Lepton Colliders**Speaker**

Zdenko Janoska (Czech Technical University in Prague (CZ))

16:55–16:57

Study of bulk and surface resistivity of carbon-loaded PTFE material for RPC**Speaker**

Sayan Chakraborty (University of Calcutta)

17:00–17:02

Measurements of Response of LBC, LaBr₃:Ce and NaI(Tl) Crystals to Thermal and Fast Neutrons**Speaker**

Virender Ranga (Indian Institute of Technology Roorkee)

17:00–17:02

KKMCee for precision monte carlo: Tests and extensions**Speaker**

Dr J. M. John (IFJ-PAN, Krakow)

17:05–17:07

Background Particle Response of CMS GEM Detectors with Run 3 Data and Simulation**Speaker**

Tanvi Sheokand (Panjab University (IN))

17:05–17:07

Recent results from the characterization of the MALTA2 monolithic active pixel sensor.**Speaker**

Anusree Vijay (Indian Institute of Technology Madras (IN))

17:10–17:12

Study with HFO gas in Ar/CO₂ based gas mixture in GEM Detectors.**Speaker**

Ms Sushila Lohan (University of Delhi (IN))

17:10–17:12

Performance study of Glass RPC detector with low Global Warming Potential gases.**Speaker**

Bhanu Thakurani (University of Delhi (IN))

17:15–17:17

A portable glass-RPC based muon tracking system for muography applications

Speaker

Dr Raveendrababu Karnam (National Institute of Science Education and Research (NISER) (IN))

17:15–17:17

Long-Baseline Neutrino Physics in the Precision Era: multi-PMTs for the Hyper-Kamiokande Experiment**Speaker**

Mohit Gola (TRIUMF (CA))

17:20–17:22

Operation of the Belle II ARICH detector**Speakers**

Hridey Chetri, Nihar Pawar

17:20–17:22

Characteristic study of Straw tube detector for future heavy ion experiment**Speaker**

Mr SUBIR MANDAL (Bose Institute)

17:24–17:26

Status of the ATLAS Tile Calorimeter during LHC Run 3**Speaker**

Mattia Soldani (CERN)

17:24–17:26

Design, Development, and Validation of Inner Coincidence for HL-LHC ATLAS Level-0 Endcap Muon Trigger.**Speaker**

Ryugo Mizuhiki (Kobe University (JP))

17:27–17:29

CMS Phase 2 Outer Tracker 2S Module Assembly**Speaker**

Kuldeep Kumar Pal (National Institute of Science Education and Research (NISER) (IN))

17:27–17:29

In-flight performances of the HEPD-02 silicon tracker**Speaker**

Prof. Paolo Zuccon (Universita degli Studi di Trento and INFN (IT))

17:30–17:32

Performance of the Belle II TOP Detector for Charged Particle Identification**Speaker**

Mr Hrishikesh Goswami (Indian Institute of Technology Hyderabad)

17:30–17:32

Operational performance of the CMS Strip Tracker during LHC Run 3**Speaker**

Sneh Shuchi (National Institute of Science Education and Research (NISER) (IN))

17:32–17:34

The SiSMUV Project: Modular Front-End Readout and Control Electronics for Large SiPM-Based Telescope Focal Surfaces**Speaker**

Marco Mese (University of Naples Federico II)

17:32-17:34

Development of Large-Area Plastic Scintillators at the Cosmic Ray Laboratory, TIFR, India

Speaker

Atul Jain (Tata Institute of Fundamental Research (TIFR))

17:34-17:36

Development of EPICS based control system for LINAC at BARC-TIFR PLF, Mumbai

Speaker

Ms Catarina Rozario (Tata Institute of Fundamental Research (IN))

18:00

18:00

20:30

Cultural Program + Conference Dinner Session

Wednesday 4 February

09:30

Plenary Session-I: at the Homi Bhabha Auditorium (HBA)

Session | **Convener:** Sunanda Banerjee (University of Wisconsin Madison (US))

09:30-10:05 **Digital SiPM beyond particle physics**

Speaker

Claudio Bruschini

10:05-10:40 **FoCAL detector activities in India**

Speaker

Sanjib Muhuri (Department of Atomic Energy (IN))

10:45

10:45

Tea Break

Break

11:15

11:15

Plenary Session-II: at HBA

Session | **Convener:** Indranil Mazumdar (Tata Institute of Fundamental Research, Mumbai 400005, India)

11:15-11:50 **Future of single photon detection technology**

Speaker

Massimiliano Fiorini (Universita e INFN, Ferrara (IT))

11:50-12:25 **Achievements and plans of CERN DRD collaborations**

Speaker

Dr Didier Claude Contardo

12:30

12:30

Lunch Break

Break

14:00

14:00

Plenary Session-III: at HBA

Session | **Convener:** Yuri Tikhonov (Budker INP)

14:00-14:35 **Vision on picosecond timing device**

Speaker

Nicolo Cartiglia (INFN Torino (IT))

14:35-15:10 **A monitored and tagged beamline for neutrinos**

Speaker

Andrea Falcone (Universita e INFN, Milano Bicocca(IT))

15:30

15:30

Tea Break

Break

16:00

16:00

Physic Colloquium: at HBA

Session

16:00-17:00

Fundamental Physics with Cosmic Microwave Background Observations

Speaker

Masashi Hazumi

17:00

17:00

Tea

Break

17:30

Thursday 5 February

09:30

Plenary Session-I: at the Homi Bhabha Auditorium (HBA)

Session | Convener:

Nayana Majumdar (Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, A CI of Homi Bhabha National Institute)

09:30–10:05

Quantum Sensors for HEP

Speaker

Masashi Hazumi

10:05–10:40

R&D and design for the CEPC experiment

Speaker

Prof. Wang Yifang

10:45

10:45

Tea Break

Break

11:15

11:15

Plenary Session-II: at HBA

Session | Convener: Naba Mondal (Tata Inst. of Fundamental Research (IN))

11:15–11:50

LHCb-upgrade II: DAQ challenge

Speaker

Flavio Pisani (CERN)

11:50–12:25

GRAPES (Gamma Ray Astronomy PeV EnergieS)-3 Upgrade plan

Speaker

PRAVATA MOHANTY (Tata Institute of Fundamental Research, Mumbai, India)

12:30

12:30

Lunch Break

Break

14:00

14:00

Parallel Session-I: at HBA

Session

14:00–14:15

TPC Development by the LCTPC Collaboration for the ILD Detector at ILC

Speaker

Dr Maksym Titov (IRFU, CEA Saclay, Université Paris-Saclay (FR))

14:15–14:30

Innovative Back-Side Illuminated SiPMs (BSI-SiPMs): first results from the IBIS project

Speaker

Luigi Pio Rignanese (INFN, Bologna (IT))

14:30–14:45

Performance of the Timepix3 Detector Network in ATLAS for Luminosity Measurement during 2025 Van der Meer Scans**Speaker**

Catalina Lesmes Ramirez (Czech Technical University in Prague (CZ))

14:45–15:00

How to synchronize clocks to a sub-picoecond level in large-scale detectors and systems.**Speaker**

Roger Rusack (University of Minnesota (US))

15:00–15:15

A System-On-chip based High Resolution Time-to-digital converter in Artix-7 FPGA**Speaker**

Dr Hari Prasad Kolla (Bhabha Atomic Research Centre)

15:15–15:30

Upgrade of the Belle II Vertex Detector with depleted monolithic CMOS active pixel sensors**Speaker**

Dr Vindhyaasini Prasad (Jilin University,)

16:00

14:00

Parallel Session-II: at AG66**Session** | **Convener:** Prakash Rout (Bhabha Atomic Research Centre (IN))

14:00–14:15

LHCb-VELO upgrade II and LumiTracker -- Mechanics, cooling and electronics**Speaker**

Bhagyashree Pagare (Universidade de Santiago de Compostela (ES))

14:15–14:30

Getting ready for the new ATLAS ITk pixel detector: Large scale detector system tests**Speaker**

Benedikt Vormwald (CERN)

14:30–14:45

Fast, Compact Readout of PbWO₄ crystals with SiPM arrays for Future Collider Calorimeters**Speaker**

Silvia Sykorova

14:45–15:00

The CMS MTD Barrel Timing Layer for the High Luminosity LHC**Speaker**

Toyoko Orimoto (Northeastern University (US))

15:00–15:15

The progress of Super Tau Charm Facility in China**Speaker**

Prof. Haiping Peng (University of Science and Technology of China)

15:15–15:30

A hybrid muon detector for the Super Tau-Charm Facility experiment: concept, design optimization and particle identification**Speaker**

Yulin Liu (USTC)

15:30–15:45

Development and Beam Test of the Electromagnetic Calorimeter Prototype for STCF**Speaker**

Junhao Wang (USTC)

15:45–16:00

CMS GEM Upgrade: Status and Prospects for the HL-LHC**Speaker**

Mahesh Kumar Saini (University of Delhi (IN))

16:00

14:00

Parallel Session-III: at AG69**Session** | **Convener:** Rajdeep Chatterjee (Tata Institute of Fundamental Research (IN))

14:00–14:15

Detecting Antiprotons with Submicrometric Spatial Accuracy**Speaker**

Markus Munster (Technische Universitaet Muenchen (DE))

14:15–14:30

R&D and qualification system development for for ALICE ITS3 MOSAIX sesnsor ASIC**Speaker**

Luca Aglietta (Universita e INFN Torino (IT))

14:30–14:45

Overview of the ALICE ITS3 Upgrade**Speaker**

Naseem Bouchhar (Sejong University)

14:45–15:00

Recent progress and R&D toward LHCb Velo Upgrade II**Speaker**

Morag Williams (CERN)

15:00–15:15

Beam Test Performance of ATLAS ITk Pixel Modules irradiated up to End-of-Lifetime Fluences.**Speaker**

Krishnan Rama (The Barcelona Institute of Science and Technology (BIST) (ES))

15:15–15:30

Microchannel Cooling Substrates**Speakers**

Burkhard Schmidt (CERN), Oscar Augusto De Aguiar Francisco (The University of Manchester (GB))

15:30–15:45

The RD50-MPW4: a radiation hard HV-CMOS sensor for future colliders**Speaker**

Jory Sonneveld (Nikhef National institute for subatomic physics (NL))

15:45–16:00

The Precision Endcap Timing Layer of the CMS MIP Timing Detector for HL-LHC**Speaker**

Nicolo Cartiglia (INFN Torino (IT))

16:00

14:00

Parallel Session-IV: at AG80**Session** | **Convener:** Mandakini Ravindra Patil (Tata Institute of Fundamental Research (TIFR))

14:00–14:15

Ultrasonic welding technology for future Straw Trackers**Speaker**

Temur Enik (Joint Institute for Nuclear Research (RU))

14:15–14:30

Development of scintillation beam counters and compact neutron detectors with picosecond time resolution for BM@N experiment**Speaker**

Victor Rogov

14:30–14:45

The ATLAS High-Granularity Timing Detector for the HL-LHC: project status and results**Speaker**

Luca Cadamuro (IJCLab - CNRS/IN2P3 - Université Paris-Saclay (FR))

14:45–15:00

LIGHT01: A prototype LGAD pixel readout ASIC with ps timing resolution in 28 nm technology**Speaker**

Abderrahmane Ghimouz (Paul Scherrer Institute (CH))

15:00–15:15

PICOSEC Micromegas gaseous detectors for precise timing and developments towards applicable detector**Speaker**

Marta Lisowska (CERN)

15:15–15:30

Characterisation of the First Silicon Electron Multiplier Demonstrators**Speaker**

Federico De Benedetti (Universidade de Santiago de Compostela (ES))

15:30–15:45

HGCROC3: Radiation-Hard Front-End ASIC for the CMS HGCal**Speaker**

Mr Damien Thienpont (OMEGA - Ecole Polytechnique - CNRS/IN2P3)

15:45–16:00

Timing results of a 3D silicon sensor readout by Timepix4**Speaker**

Evridiki Chatzianagnostou (Nikhef National institute for subatomic physics (NL))

16:00

14:00

Parallel Session-V: at D406

Session

14:00–14:15

Development and performance of the dRICH SiPM-based photodetector for the ePIC experiment at the EIC**Speaker**

Roberto Preghenella (INFN, Bologna (IT))

14:15–14:30

DarkSide-20k SiPM Photodetectors - Production and Characterisation**Speaker**

Pritindra Bhowmick (University of Oxford/Princeton University)

14:30–14:45

LiquidO: A New Paradigm of Particle Imaging & Detection in Opacity**Speaker**

Dr Anatael CABRERA (IJCLab (Orsay) - CNRS / Université Paris-Saclay)

14:45–15:00

The SABRE South Experiment at the Stawell Underground Physics Laboratory**Speaker**

Sharry

15:00–15:15

mPMT electronics and DAQ system in WCTE operation**Speaker**

Michał Jan Nurek (Warsaw University of Technology (PL))

15:15–15:30

Study of the radiation aging of SiPMs with using of beam of the fast neutrons at BINP SB RAS**Speaker**

Viktor Bobrovnikov (Budker Institute of Nuclear Physics (RU))

15:30–15:45

The upgrade of the CMS Electromagnetic Calorimeter for the High Luminosity LHC

15:45–16:00

The first results on square position-sensitive MCP PMT produced in Russia**Speaker**

Vadim Rusetsky (JSC "Ekran FEP", Rzhzanov Institute of Semiconductor Physics)

16:00

16:00

Tea Break

Break

16:30

16:30

Parallel Session-I: at HBASession | **Convener:** Prakash Rout (Bhabha Atomic Research Centre (IN))

16:30–16:45

Power-over-Fiber Development for DUNE Vertical Drift Photon Detection System**Speaker**

Dr Biswaranjan Behera (IISc)

16:45–17:00

Performance of a highly compact and granular electromagnetic calorimeter prototype in a testbeam experiment**Speaker**

Yan Benhammou (Tel Aviv University (IL))

17:00–17:15

Optical readout of MicroPattern Gaseous Detectors for beam monitoring**Speaker**

Florian Maximilian Brunbauer (CERN)

17:15–17:30

Beam monitor system for the Water Cherenkov Test Experiment at CERN**Speaker**

Akira Konaka (TRIUMF (CA))

17:30–17:45

Novel Fragment Separators at CERN-ISOLDE: the ISRS and ISLS projects**Speaker**

Prof. Ismael Martel (University of Huelva (ES))

17:45–18:00

Toward a Beamline-Ready Optical TPC for Neutron-Induced Reactions at SARAF-II**Speaker**

Dr Ryan Felkai (Weizmann Institute of Science)

18:00

16:30

Parallel Session-II: at AG66**Session** | **Convener:** Shilpi Jain (Tata Institute of Fundamental Research (IN))

16:30–16:45

Study of the AC-LGAD for CEPC**Speaker**

Dr Yunyun Fan (Chinese Academy of Sciences (CN))

16:45–17:00

Design and performance of MAPS prototypes for the STCF inner tracker**Speaker**

Jiajun Qin (University of Science and Technology of China (CN))

17:00–17:15

Characterisation of Wafer-Scale Stitched MAPS Prototypes for the ALICE ITS3 Upgrade**Speaker**

Chunzheng Wang (Fudan University (CN))

17:15–17:30

Smartpixels: radiation-hard ASICs with on-chip neural networks in 28 nm CMOS**Speaker**

Danush Shekar (University of Illinois Chicago (US))

17:30–17:45

Quiet Detectors, Clear Signals: ENC Noise Studies and Performance Tests of STS Silicon Modules

Speaker

Abhishek Kumar Sharma (Aligarh Muslim University, Aligarh)

17:45–18:00

Development of 55nm HV-CMOS Pixel Sensors**Speaker**

Dr Yang Zhou (Institute of High Energy Physics, CAS, Beijing, China)

Parallel Session-III: at AG69**Session** | **Convener:** Saranya Samik Ghosh (Indian Institute of Technology Hyderabad (IN))**Parallel Session-IV: at AG80****Session**

16:30–16:45

R&D on aerogels with refractive indexes less or equal to 1.008 to be used in the RICH detectors for particle identification at momenta above 20 GeV/c**Speaker**

Aleksandr Kattsin (Budker Institute of Nuclear Physics)

16:45–17:00

Optimisation of the FARICH technique for the SPD experiment**Speaker**

Alexander Barniakov

17:00–17:15

Pulse peak reference based real-time pulse shape discrimination algorithm implemented on FPGA**Speakers**

Ram kumar Paul (Variable Energy Cyclotron Centre), Swastika Biswas (RCC Institute of Information Technology)

17:15–17:30

Cherenkov and scintillation counters with light collection using re-emitting light guides.**Speaker**

Prof. Evgeniy Kravchenko (Budker INP SB RAS/ Novosibirsk State University)

17:30–17:45

Novel Concepts for RICH Fast-Timing Electronics in View of the LHCb LS3 Enhancement program**Speaker**

Vlad-Mihai Placinta (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH RO))

17:45–18:00

Status of R&D on ASHIPH system for the Super Tau Charm facilities in Hefei, China**Speaker**

Ivan Kuyanov

Parallel Session-V: at D406**Session**

16:30–16:45

Calibration, timing and energy performance studies of LYSO crystals using ~KeV energy photons

Speaker

Anindita Karmakar (Tata Institute of Fundamental Research)

16:45–17:00**Development of PMT/WLS optical modules for Cherenkov detectors****Speaker**

Gleb Erofeev (INR RAS)

17:00–17:15**HRPPD photodetectors - ageing studies and detector response as a function of rate****Speaker**

Jinky Agarwala (Universita e INFN Trieste (IT))

17:15–17:30**Development of An In-Situ Magnetron Sputtering Plasma Monitoring Setup****Speaker**

Burak Bilki (Beykent University (TR), The University of Iowa (US))

18:00

Friday 6 February

09:30

ICFA Session: at the Homi Bhabha Auditorium (HBA)

Session | **Convener:** Stefan Söldner-Rembold (Imperial College London)

09:30–10:30

The 2026 ICFA Instrumentation Awards

Speaker

Stefan Söldner-Rembold (Imperial College London)

10:30

10:30

Tea Break

Break

11:00

11:00

Technology Transfer Session-I: at HBA

Session | **Convener:** Dr Christophe De La Taille (OMEGA (FR))

11:00–11:25

The role of Research & tech infrastructures in the innovation process: the view of the EC

Speaker

Massimo Caccia (Università degli Studi e INFN Milano (IT))

11:25–11:50

An exemplary implementation of the measures to integrate research & innovation at EU level

Speaker

Paolo Giacomelli (INFN Sezione di Bologna)

11:50–12:15

The role of Research & tech infrastructures in the innovation process: the view of INDIA

Speaker

Prof. Achanta Venu Gopal

12:15–12:40

Actions and thoughts from a research/technology infrastructure in INDIA

Speaker

Dr Shivkumar Kalyanraman

12:40

12:40

Lunch Break

Break

14:00

14:00

Technology Transfer Session-II: at HBA

Session | **Convener:** Mandar Saraf (Tata Institute of Fundamental Research)

14:00–14:15

Development of UV to Mid-IR superconducting single photon detectors"

	<p>Speaker Dr Vidur Raj</p>
	<p>14:15–14:30</p> <p>From Lab Success to Field Survival: What Changes in Real Deployment</p> <p>Speaker Dr D Amarnath (MERRITRONIX LTD)</p>
	<p>14:30–14:45</p> <p>From Prototype to Production: Bridging the Lab-to-Market Gap in Scientific Requirement</p> <p>Speaker Vinoth</p>
15:30	<p>14:45–15:00 PCBs for High Reliability Applications</p> <p>Speaker U Nagraj (Micropack Pvt Ltd)</p>
15:30	<p>Plenary Session-I Session</p>
	<p>15:30–15:40 Vote of thanks</p> <p>Speaker Shilpi Jain (Tata Institute of Fundamental Research (IN))</p>
	<p>15:40–15:55 Announcemenr from TIPP Steering committee</p> <p>Speaker Dr Maksym Titov (IRFU, CEA Saclay, Université Paris-Saclay (FR))</p>
15:55	
15:55	<p>Tea Break Break</p>
16:25	
16:25	<p>Advances in Science, Engineering and Technology(ASET) colloquium at HBA Session</p>
	<p>16:25–17:25</p> <p>Random Power: a platform of random bit streamers based on quantum tunneling</p> <p>Speaker Massimo Caccia (Università degli Studi e INFN Milano (IT))</p>
17:25	
17:25	<p>Tea Break</p>
18:00	