

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. Rudraijyoti 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

Tea

Break

11:00

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

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

12:40

Lunch Break

Break

12:40

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
Valeria 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 InDEEx dark matter search experiment at JUSL

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 (Università 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 Rinat Makarim Fakhrutdinov (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 Gkountoumis (University of California Irvine (US))

15:00–15:15

Knypaege: 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
16:30	Break
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 $\text{^{252}Cf}$ 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

Group photo

Session

10:50

Tea Break

Break

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

Lunch Break

Break

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 Verlaat (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 (Universita 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 Suryanarayanan 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))
16:00	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))
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)
16:00	15:30-15:45 Optimisaiton of plastic scintillator based PET device
14:00	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 Casolari (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)
16:00	15:45-16:00 Commissioning and Calibration of SiPM-based 4m cherenkov telescope
	Speaker Dr Bharat Singh (TIFR, Mumbai)

16:00

Tea Break

Break

16:30

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

Hriday 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. Paoloz 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

Cultural Program + Conference Dinner

Session

20:30

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

Tea Break

Break

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

Lunch Break

Break

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(ITALY))

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

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

Tea Break

Break

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

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-picoesecond 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 Vindhayawasini 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 Oriimoto (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)
16:00	15:45-16:00	CMS GEM Upgrade: Status and Prospects for the HL-LHC
	Speaker	Mahesh Kumar Saini (University of Delhi (IN))
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 ALICE ITS3 MOSAIX sesnsor ASIC
	Speaker	Luca Aglieri (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))

16:00	<p>15:45-16:00</p> <p>The Precision Endcap Timing Layer of the CMS MIP Timing Detector for HL-LHC</p> <p>Speaker Nicolo Cartiglia (INFN Torino (IT))</p>
14:00	<p>Parallel Session-IV: at AG80</p> <p>Session Convener: Mandakini Ravindra Patil (Tata Institute of Fundamental Research (TIFR))</p>
	<p>14:00-14:15 Ultrasonic welding technology for future Straw Trackers</p> <p>Speaker Temur Enik (Joint Institute for Nuclear Research (RU))</p>
	<p>14:15-14:30 Development of scintillation beam counters and compact neutron detectors with picosecond time resolution for BM@N experiment</p> <p>Speaker Victor Rogov</p>
	<p>14:30-14:45 The ATLAS High-Granularity Timing Detector for the HL-LHC: project status and results</p> <p>Speaker Luca Cadamuro (IJCLab - CNRS/IN2P3 - Université Paris-Saclay (FR))</p>
	<p>14:45-15:00 LIGHT01: A prototype LGAD pixel readout ASIC with ps timing resolution in 28 nm technology</p> <p>Speaker Abderrahmane Ghimouz (Paul Scherrer Institute (CH))</p>
	<p>15:00-15:15 PICOSEC Micromegas gaseous detectors for precise timing and developments towards applicable detector</p> <p>Speaker Marta Lisowska (CERN)</p>
	<p>15:15-15:30 Characterisation of the First Silicon Electron Multiplier Demonstrators</p> <p>Speaker Federico De Benedetti (Universidade de Santiago de Compostela (ES))</p>
	<p>15:30-15:45 HGCROC3: Radiation-Hard Front-End ASIC for the CMS HGCAL</p> <p>Speaker Mr Damien Thienpont (OMEGA - Ecole Polytechnique - CNRS/IN2P3)</p>
	<p>15:45-16:00 Timing results of a 3D silicon sensor readout by Timepix4</p> <p>Speaker Evridiki Chatzianagnostou (Nikhef National institute for subatomic physics (NL))</p>

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 Opaqueness**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", Rzhanov Institute of Semiconductor Physics)

16:00

Tea Break**Break**

16:30

16:30

Parallel Session-I: at HBA**Session | 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 Brunnauer (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)
18:00	17:45-18:00 Development of 55nm HV-CMOS Pixel Sensors
	Speaker Dr Yang Zhou (Institute of High Energy Physics, CAS, Beijing, China)
16:30	Parallel Session-III: at AG69
18:00	Session Convener: Saranya Samik Ghosh (Indian Institute of Technology Hyderabad (IN))
16:30	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
18:00	Speaker Ivan Kuyanov
16:30	Parallel Session-V: at D406
	Session
	16:30-16:45
	Calibration, timing and energy performance studies of LYSO crystals using ~KeV energy photons

18:00	<p>Speaker Anindita Karmakar (Tata Institute of Fundamental Research)</p> <p>16:45–17:00 Development of PMT/WLS optical modules for Cherenkov detectors</p> <p>Speaker Gleb Erofeev (INR RAS)</p> <p>17:00–17:15 HRPPD photodetectors - ageing studies and detector response as a function of rate</p> <p>Speaker Jinky Agarwala (Universita e INFN Trieste (IT))</p> <p>17:15–17:30 Development of An In-Situ Magnetron Sputtering Plasma Monitoring Setup</p> <p>Speaker Burak Bilki (Beykent University (TR), The University of Iowa (US))</p>
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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

Tea Break

Break

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 Kalyanaraman

12:40

Lunch Break

Break

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"

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