

Session Program

30 July 2026 to 5 August 2026

43rd International Conference on High Energy Physics

Detectors for Future Facilities, R&D and Novel Techniques (including Quantum Sensors)

Natal Convention Center
Via Costeira Sen. Dinarte Medeiros Mariz, 6664-6704 - Ponta Negra, Natal - RN, 59090-002

Thursday 30 July

08:30

Detectors for Future Facilities, R&D and Novel Techniques (including Quantum Sensors)

Session |

Location: Praiamar Natal Hotel & Convention, Room #8, R. Francisco Gurgel, 33 - Ponta Negra, Natal - RN,

Coordinators:

Ginger Cheng, Antonio Vilela Pereira, Felix Reidt, Deywis Moreno Lopez, Antonio Pellegrino, Ulisses De Freitas Carneiro Da Graca

08:30-08:45

Progress of the Super Tau Charm Facility project in China

Speaker

Jianbei Liu

08:45-09:00

The IDEA detector concept for FCC-ee

Speakers

Paolo Giacomelli, Paolo Giacomelli, Paolo Giacomelli

09:00-09:15

The CLD detector concept at the FCC-ee

Speaker

Jinlong Zhang

09:15-09:30

A detector for top energy DIS

Speaker

Nestor Armesto Perez

09:30-09:45

The detector system of the SHiP/NA67 experiment at CERN

Speaker

Matei Climescu

09:45-10:00

MUSIC: a detector concept for 10 TeV $\mu^+\mu^-$ collisions

Speaker

Luca Castelli

10:15

10:45

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10:45-11:00

A high-rate drift chamber with super-small cells for the Super Tau-Charm Facility

Speaker

Xiaoyu Liao

11:00-11:15

Development of monolithic pixel sensor prototypes for the STCF inner tracker

Speaker

Jiajun Qin

11:15-11:30

Tracking and PID Performance of the INTREPID Drift Chamber for the IDEA Detector**Speaker**

Giovanni Francesco Tassielli

11:30-11:45

LHCb VELO Upgrade 2**Speaker**

Vinicius Franco Lima

11:45-12:00

The LHCb MightyTracker for Upgrade 2: Pixels and Scintillating Fibres**Speaker**

Blake Leverington

12:00-12:15

Fast and Scalable Tracking at a Muon Collider with LST**Speaker**

Alexander Tuna

12:30

14:30

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Antonio Vilela Pereira, Ginger Cheng, Ulisses De Freitas Carneiro Da Graca, Felix Reidt, Deywis Moreno Lopez, Antonio Bellegrino

14:30-14:45

DRD Calo - Introduction and scientific highlights**Speaker**

Brieuc Francois

14:45-15:00

R&D Studies of Noble Liquid Calorimetry for FCC-ee**Speaker**

Brieuc Francois

15:00-15:15

Towards chromatic calorimetry using nanocomposite scintillators**Speaker**

Anne-Mazarine Lyon

15:15-15:30

Measurement of the performance of a partly instrumented highly compact and granular electromagnetic calorimeter in an electron beam of 1 to 6 GeV**Speaker**

Dawid Pietruch

15:30-15:45

CyberPFA: Particle Flow Algorithm for Crystal Bar ECAL**Speaker**

Yang Zhang

16:15

16:45

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16:45-17:00

Upgrade II of the LHCb RICH detectors

Speakers

Alessia Anelli, on behalf of the LHCb RICH collaboration

17:00-17:15

Overview of the ePIC dRICH Photodetector System and Preliminary Test-Beam Results

Speaker

Cristina Tuvè

17:15-17:30

The Hyper-Kamiokande 50-cm Photomultiplier Tube

Speaker

Yasuhiro Nishimura

17:30-17:45

The Photon Detection System of the protoDUNE-VD: Status and First Results

Speaker

Francesca Alemanno

17:45-18:00

Enhancing Cherenkov Radiation Detection with SiPMs and WLS Films: C-Arapuca-II

Speaker

Ettore Segreto

18:00-18:15

Experimental Setup and Simulation of the PoWER proof of concept: a new proposal for large-scale LArTPCs photon detection systems

Speakers

Mirela Barbosa Alves, Theo Basso Pilon

18:15-18:30

Preliminary Results on the PoWER Proof-of-Concept

Speaker

Lucca Longhitano Pagliuso

18:30

Friday 31 July

08:30

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08:30–08:45

PLATON: high-resolution 3D photographs of particles interacting in a monolithic scintillating volume

Speaker

Davide Sgalaberna

08:45–09:00

LiquidO for Precision Imaging: Results from a Multi-Layer Opaque-Scintillator Detector

Speaker

Dr Thiago Bezerra

09:00–09:15

DSTAR: a modular 4π muon detector for field operation and low-background site characterization

Speaker

Aleksei Kuznetsov

09:15–09:30

CRE4AT detector framework: A compact and autonomous scintillating detector for cosmic ray and atmospheric observation.

Speaker

Andre Massafferri Rodrigues

09:30–09:45

Understanding of the correlated noise in SiPMs

Speaker

Gobinda Majumder

09:45–10:00

A new type of neutron detector: quantum-dot based gel scintillator, SHINE

Speaker

Priyarshini Ghosh

10:00–10:15

International Large Detector for a future e+e- collider

Speaker

Prof. Toshinori Mori

10:15

10:45

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10:45-11:00

Data Acquisition System for a Cosmic Muon Veto Detector on top an RPC Stack

Speaker

Prajjalak Chattopadhyay

11:00-11:15

High Speed DAQ Solution for Small-scale Particle Physics Experiment

Speakers

Prof. Pranava Surukuchi, Yuvaraj Elangovan

11:15-11:30

Development and test of a small-scale readout system based on the SAMPAs ASIC

Speaker

Marco Bregant

11:30-11:45

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

Speaker

Mahmoud Ali

11:45-12:00

Beam Test Performance of Double-Gap Glass RPCs with Custom PETIROC2A Readout for the ALICE 3 Muon Identification System

Speaker

Hector David Regules Medel

12:00-12:15

Design of a Shielding Plane for LArPix

Speaker

Jiangmei YANG

12:15-12:30

Design-by-Validation: Engineering, 3D Modeling/CFD, and Reduced-Scale Prototyping of Large Multi-Loop Leakless Detector Cooling and Thermostabilization Systems

Speakers

Dr Alexander Fedotov, Mr Kiril Levkov

12:30

14:30

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14:30-14:45

The NEXT experiment for neutrinoless double beta decay searches - Future Prospects

Speaker

Fabian Kellerer

14:45-15:00

Technologies for a Future Neutrino Mass Experiment with Tritium**Speaker**

Neven Kovac

15:00-15:15

Ultra-High Resolution Electron Spectroscopy with Next-Generation Cryogenic Microcalorimeters**Speaker**

Neven Kovac

15:15-15:30

Towards High-Resolution Spectroscopy of Low-Energy Electrons with Transition-Edge Sensors in the PTOLEMY Experiment**Speaker**

Benedetta Corcione

15:30-15:45

Guide Tube Calibration System for JUNO Experiment**Speaker**

Prof. Qingmin Zhang

16:15

16:45

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16:45-17:00

Spin Physics Detector project at NICA collider**Speaker**

Dr Alexey Guskov

17:00-17:15

Electromagnetic Calorimeter for MPD Experiment at NICA Collider**Speaker**

Andrei Semenov

17:15-17:30

Time Resolution Studies of Silicon Sensors at the Sirius Synchrotron**Speaker**

Alexandre Cardoso Campos

17:30-17:45

Development and Performance Studies of the HiDRa Dual-Readout Calorimeter**Speaker**

Luca Davide Tacchini

17:45-18:00

Towards a Long Strip AC-LGAD Detector for the CEPC Outer Silicon Tracker**Speaker**

Mei Zhao

18:00