

Session Program

17-21 Feb 2025



VCI2025 - The 17th Vienna Conference on Instrumentation

Coffee & Posters B

Vienna University of Technology
Gusshausstraße 27-29, 1040 Wien

Wednesday 19 February

10:40

Coffee & Posters B

Poster Session | **Location:** Vienna University of Technology, Gusshausstraße 27-29, 1040 Wien

Ultrasonic welding technology for future Straw Trackers and performance studies of small-size tracker prototypes

Speaker

Katerina Kuznetsova

High-Granularity Timing Hodoscopes for the AMBER Experiment

Speaker

Karl Eichhorn

OBELIX: A DMAPS chip for the Belle II VTX Upgrade

Speaker

Maximilian Babeluk

Vertex Reconstruction for Studying Antiproton-Nucleus Annihilations

Speaker

Viktoria Kraxberger

Silicon pad detector with large effective area for SHE experiments

Speaker

Dr Mirei Takeyama

Beam test characterization of an irradiated pixel-strip module for the HL-LHC CMS tracker upgrade.

Speaker

Ms Iqra Sohail

Constellation - a flexible DAQ and control system for test beam environments

Speaker

Stephan Lachnit

The GEM μ -RWELL for ePIC Endcap Tracking

Speaker

Elena Sidoretti

The micro-Resistive WELL for the LHCb Muon stations upgrades

Speaker

Dr Giovanni Bencivenni

On-chip digitization to improve the frame rate of the JUNGFR AU charge-integrating X-ray pixel detector

Speaker

Patrick Sieberer

A New Stress-Relieving Layer in ATLAS ITk Strip Detector Modules

Speaker

Anne Fortman

Design of a new 2D amorphous Silicon-based detector for Particle Therapy**Speaker**

Khalil El Achi

3D microbeam characterization of large-area silicon carbide detectors**Speaker**

Alessandro Spatafora

Investigating muography for nuclear waste characterization with Micromegas detectors**Speaker**

Raphaël Bajou

Precise time and energy measurement with a homogeneous electromagnetic calorimeter**Speaker**

Marko Kovac

Pileup Mitigation in High Rate Spectroscopy using the Deconvolution Method**Speaker**

Matthias Knopf

Enhancing guard-ring protection structures for the next generation of radiation-hard thin silicon particle detectors**Speaker**

Tommaso Croci

Development of an imaging detector to reduce the long-lived spallation background in the KamLAND2-Zen experiment**Speaker**

Daiki Morita

Establishment of the Electron Identification System for Vector meson Measurement at J-PARC**Speaker**

Satomi Nakasuga

Design, prototyping and test of a Highly Compact and Granular Electromagnetic Calorimeter for the LUXE experiment.**Speaker**

Melissa Almanza Soto

Design of IMPix-S3, a pixel readout sensor for future gaseous detector at HIAF**Speaker**

hong yuan

Dead-time Free Broadband Spectrometer for Wavy Dark Matter Search - dSpec**Speaker**

Hiroki Takeuchi

Xenoscope, a full-scale vertical demonstrator for the XLZD observatory.

Speaker

Paloma Cimental Chavez

Design of a novel scintillating fibers tracker for the muEDM experiment**Speaker**

Antoine Venturini

Performance Review of the Prototype SiC Muon Beam Monitor for COMET Experiment**Speaker**

Kenya Okabe

Development and Performance Evaluation of Readout Systems for Belle II ARICH Upgrade**Speaker**

Shunsuke Kurokawa

Performance of the LHCb Scintillating Fibre Tracker in Run 3**Speaker**

Lukas Witola

Innovative Detection System for Rapid 3D Radiation Dose Mapping with Printed Plastic Scintillators**Speaker**

Bartosz Mindur

Hexagonal vs. Quadratic 3D Pixel Architectures: Optimizing Silicon Sensors for Future Colliders by utilizing the Three-Dimensional Mapping of Timing Resolution**Speaker**

Prof. Gordana Lastovicka Medin

Design, Development and Testing of 60 GHz Wireless Links for ATLAS Detector Data Readout**Speaker**

Imran Aziz

Minimal material, maximum coverage: Silicon Tracking System for high-occupancy conditions**Speaker**

Maksym Teklishyn

Development of a Floating Strip Micromegas Detector for a Clinical Proton Computed Tomography System**Speaker**

Max Meurer

IO Information-Based Component Relevance Estimation in a Mixed-Signal ASIC Analog Circuit**Speaker**

Julian Weick

Development of Amplifier Shaper Discriminator Chips for Gaseous Ionization Detectors at Future Collider Experiments

Speaker
Oliver Kortner

Defect investigation in irradiated ATLAS18 ITk Strip Sensors using transient spectroscopy techniques

Speaker
Christoph Thomas Klein

3D silicon sensors with columnar shaped electrode geometry for fast timing tracking detectors

Speaker
Angelo Loi

Charge carrier generation in RNDR-DePFET Detectors

Speaker
Niels Wernicke

R&D of Power Over Fiber in harsh environments and its novel application for the DUNE FD-VD Photon Detection System

Speaker
David Martinez Caicedo

A low power monolithic active pixel sensor prototype for the STCF Inner tracker

Speaker
Dongwei Xuan

The Stabilized Voltage Divider - A Rate-Capable HV-Scheme for GEMs

Speaker
Jakob Krauss

Time of flight plastic-scintillator based proton radiography

Speaker
MATTEO MORROCCHI

Development of new large area Micromegas detector and accompanying ToRA ASIC-based readout electronics for AMBER experiment at CERN

Speaker
Chiara Alice

Picosec R&D towards Muon Collider applications

Speaker
Matteo Brunoldi

R&D on Noble Liquid Calorimeter for FCC-ee

Speaker
Martina Maria Koppitz

Sub-kelvin electron detectors for the LEMING muonium gravity experiment

Speaker
Damian Goeldi

The design and evaluation tests of the custom step-down DC-DC converter system for ITk Strip detector.

Speakers

Ewa Stanecka, Wladyslaw Dabrowski

Compact Tracking Calorimeters for the Detection of Low-Energy Cosmic-Ray (Anti-)Nuclei

Speaker

Dr Martin Jan Losekamm

11:30

Thursday 20 February

15:40

16:30

Coffee & Posters B

Poster Session | **Location:** Vienna University of Technology, Gusshausstraße 27-29, 1040 Wien