

Session Program

30 September 2024 to 4 October 2024



TWEPP 2024 Topical Workshop on Electronics for Particle Physics

Tuesday posters session

Grosvenor hotel
1-9 Grosvenor Terrace, Glasgow G12 0TB.

Tuesday 1 October

16:40

Tuesday posters session

Poster Session | Location: Grosvenor Suite Theatre

FPGA Emulation of the Digital Readout of a HV-CMOS sensor chip: MightyPix for LHCb Upgrade II

Speaker

Ayushi Khatri

Back-end DAQ system prototype testing and integration on a full detector test system for the CMS HGCal detector

Speaker

Martim Rosado

Optimisation and Validation of Power Delivery Networks for Multi-Gigabit Data Links

Speaker

Francesco Martina

Spatial resolution performance of 65 nm CMOS MAPS with analogue output for the ALICE ITS3 upgrade

Speaker

Riccardo Ricci

First results of an evaluation of 100Gb/s Ethernet as a future HEP readout link

Speaker

Valentin Stumpert

On-detector power distribution for CMS-HGCal: a busbar-based approach

Speaker

Pablo Daniel Antoszczuk

Reliability Tests of the SFP+ Transceivers and the TGC Readout Board for the ATLAS Experiment at HL-LHC

Speaker

Daisuke Hashimoto

CosmoLink: Portable Coincidence Detector for On-Site Muon Flux Measurement

Speaker

Yuvaraj Elangovan

Data transmission performance and characterization of TEPX disks of Phase-2 CMS Inner Tracker

Speaker

Filip Bilandzija

ITk Pixel System Test of the ATLAS Experiment

Speaker

Yahya KHWAIRA

Technical challenges and performance of the new ATLAS LAr Calorimeter Trigger

Speaker
Adriana Milic

A multi-Hough-based displaced vertex track trigger for the Belle II Experiment

Speaker
Kai Lukas Unger

Testing of the Prototype CMS Global Level-1 Trigger for Phase-2

Speaker
Hannes Sakulin

Design and implementation of the timing and synchronization system for JUNO-TAO detector

Speaker
Jie Zhang

Experiences and Lessons Learned from the End-of-Substructure card production of the ATLAS ITk Strip Upgrade

Speaker
Lukas Bauckhage

Environmental stress screening of the CMS ECAL Barrel VFE and LVR cards

Speaker
Nikola Rasevic

CompactPCI-Serial Hardware Toolbox - Advancements towards Cost Effectiveness

Speaker
Mr Mathias Gloor

EMCI-EMP: Developments and Experience with the Novel Detector Control Solution

Speaker
Dominic Ecker

Development of the ATLAS Liquid Argon Calorimeter Off-detector Readout Electronics for the HL-LHC

Speaker
Markus Helbig

A test bench for the qualification of the GRAiNITA prototype

Speaker
Magali Magne

The DAQ software for ATLAS Inner Pixel Tracker system testing for HL-LHC

Speaker
Angira Rastogi

Picosecond timing performances of the FERS time unit

Speaker
Dr Ferdinando Giordano

Prototype design of the readout electronics for NuDEx-100 experiment

Speakers

Kai Chen, dou zhu

Radiation-Hard Smart-Pixel Detector ASIC ReadOut with Digital AI in 28nm**Speaker**

Benjamin Parpillon

Pixel detector hybridization with anisotropic conductive adhesives**Speaker**

Dr Ahmet Lale

Topmetal-CEE: a pixel sensor for the readout of GEM detectors for high-rate particle tracking**Speaker**

Hulin Wang

Particam: A fully digital sensor for sub micron resolution**Speaker**

Jan Hammerich

Advancements in 28nm CMOS Radiation Hardened IP for Particle Physics Experiments**Speakers**

Oliver Bowett, Stephen Bell, Thomas Charles Gardiner

A ring-oscillator-based 5.2 ps bin-size timing circuit for time measurement applications in high-energy physics experiments**Speaker**

Xiaoting Li

EICROC: an ASIC to read-out AC-LGAD sensors for the Electron-Ion Collider (EIC)**Speaker**

Mr Adrien Verplancke

HPSoC: A very high Channel Density Waveform Digitizer with sub-10ps resolution - front end design and measurements**Speaker**

Dr Isar Mostafanezhad

A Time-over-Threshold asynchronous front-end in 28 nm CMOS for the readout of pixel detectors in extreme radiation environments**Speaker**

Luigi GALONI

Development of Low Temperature Electronics for LAr-TPC**Speaker**

Ayumi Morita

A Monolithic Active Pixel Sensor with a Novel Readout Architecture for Vertex Detector in particle physics Experiments**Speaker**

Wenjie Dai

Development of the Time-to-Digital Converter in 130 nm CMOS technology

Speakers

Marek Idzik, Miroslaw Firlej

Evaluation of efficiency, radiation hardness, and timing performance of the Analogue Pixel Test Structure for ALICE ITS3

Speaker

Jian Liu

Irradiation test for BETSEE at CSNS for ATLAS ITk strip upgrade

Speaker

Yan Zhou

Evolution of the data aggregation concepts for STS readout in CBM Experiment

Speakers

Dr Wojciech Zabolotny, Dr Wojciech Zabolotny

High-Speed Data Transmission IP's in 65nm CMOS Image Sensor Process at the Electron Ion Collider

Speaker

William Ian Helsby

The ATLASPix3.1 CMOS Pixel Sensor Performance

Speakers

Fuat Ustuner, Riccardo Zanzottera

18:00