Session Program

May 25 – 29, 2026

25th IEEE Real Time Conference - La Biodola, Elba, Italy

Front-End Electronics, Fast Digitizers, Fast Transfer Links & Networks - PS

La Biodola - Isola d'Elba (Italy)

Mon, May 25

2:45 PM

Front-End Electronics, Fast Digitizers, Fast Transfer Links & Networks - PS: A

Poster Session | **Location:** Hotel Hermitage, Elena Room | **Convener:** Marco Francesconi

Performance evaluation of ITER Synchronous Data Network using Time Sensitive Network

Speaker
David Andrino-Izquierdo

A Reliable Data Processing Board for the front-end electronics of the Hyper-Kamiokande Experiment

Speaker
Alejandro Gómez Gambín

Precision analysis and development of timing measurement ASICs for strip LGAD readout

Speaker
Xiaoting Li

Tapped Delay Lines Time-to-digital converter design and performance in Versal architecture

Speaker
Julien Rossignol

A Timing-Oriented Pixel Detector ASIC With Delay-Chain-Based Outputs for Three-Dimensional Particle Track Reconstruction

Speaker
Chunlai Dong

Millimeter-Wave-Based Wireless Transmission System for CEPC Detector

Speaker
Dr Jun Hu

Design of the Readout Electronics for Scintillator-Based Multi-Neutron Detector Array

Speaker
Chengjun Zhang

Readout Electronics System for the CsI(Tl) Calorimeter of the VLAST-P Payload

Speaker
Qian Chen

Long-Time Coherent Integration for High Precision Weak Signal LiDAR on Lunar Rover

Speaker
Wenhao Duan

Benchmarking SRO Performance of CAEN Digitizers

Speaker
Dr Giovanni Cerretani

A Real-Time Feed-Forward System for Heralded Quantum Entanglement

Speaker
Zhizhen Qin

Development of the SAMIDARE Board: A New Acquisition System for TPCs

Speaker
Claudio Santonastaso

GAROP3: A Gated Readout ASIC for the Proton Beam Monitor of the COMET Experiment

Speaker
Mr Xiang-Yu Xu

Design of a Dual-Detector Gamma Spectrometer for In Situ Marine Radioactivity Monitoring

Speaker
Mr Tao Liu

Design of a Low-Power Electronics System for Low Energy X-ray Polarization Detection Based on Multi-Detector Units

Speaker
Mr Shi Qiang Zhou

A prototype detector for photon timing measurement with MCP-PMT

Speaker
Xiongbo Yan

Design and prototyping of the X-ray Fluorescence Spectrometer for online component analysis

Speaker
Jiayun Chen

An 11-Gbps edge-pre-emphasis SST transmitter in 55 nm for detector front-end data transmission

Speaker
Xiaoting Li

Development of a prototype front-end readout ASIC for gas pixel detectors

Speaker
Zhuo Zhou

Development of UDP based data-streamer and slow-control protocol for streaming readout FEE in SPADI alliance

Speaker
Ryotaro Honda

Extension of a wired time-synchronization protocol for sub-nanosecond accuracy to multiple FPGA families

Speaker
Mr Eitaro Hamada

3:45 PM

Thu, May 28

11:25 AM

Front-End Electronics, Fast Digitizers, Fast Transfer Links & Networks - PS: B

Poster Session | **Location:** Hotel Hermitage, Elena Room | **Convener:** Luca Galli

Design of Prototype Readout Electronics of the High Counting Rate Main Drift Chamber in Particle Physics Experiments

Speaker
Yilin Ma

A Timing Measurement Prototype for LGAD Using the LATRIC ASIC

Speaker
Xiongbo Yan

Performance Test of the SAMIDARE Board with Mini-TPC using heavy-Ion Beams

Speaker
Fumitaka Endo

Prototype Readout Electronics System for a LET Spectrometer in Space Radiation

Speaker
Mr Wenrui Sun

A Multi-Mode Waveform Digitization System Based on Switched Capacitor Array Chips

Speaker
Dingjun Li

A Full on-Chip LDO Regulator with self-adapting compensation networks for Front-end Readout Circuit

Speaker
Xiayu Wang

Operations and Performance of the ATLAS Tile Calorimeter Phase-II Upgrade Demonstrator in Run 3

Speaker
Fernando Carrio Argos

A Modular MPSoC Platform for Real-time Data Processing for Climate Observation Instruments

Speaker
Georg Schardt

A 10-ps Resolution Direct-Digitizing Time Measurement ASIC for Fast Detectors

Speaker
Zhuang Li

12:30 PM