Session Program

25–29 May 2026

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

Data Acquisition and Trigger Architectures

La Biodola - Isola d'Elba (Italy)

Monday 25 May

15:45

Data Acquisition and Trigger Architectures

Session | **Location:** Hotel Hermitage, Maria Luisa Room | **Convener:** Martin Grossmann PSI

15:45–16:05

Picosecond-level Clock Distribution System of the LHCb Experiment at CERN

Speaker
Alberto Perro

16:05–16:25

A Machine Learning-Based Real-time Anomaly Detection System

Speaker
Shuihan Zhang

16:25–16:45

The Final Run of the sPHENIX Experiment

Speaker
Martin Lothar Purschke

16:45

17:15

Data Acquisition and Trigger Architectures

Session | **Location:** Hotel Hermitage, Maria Luisa Room | **Convener:** Marc-André Tétrault

17:15–17:35

GPU-Based Level-3 Real-Time Trigger for the Belle II High Level Trigger System

Speaker
Prof. Ryosuke Itoh

17:35–17:55

Real-time DAQ System for Muon-Spin Spectroscopy

Speaker
Marius Snella Köppel

17:55–18:15

Data reduction in CMS

Speaker
Silvio Donato

18:15–18:35

JUNO DAQ: Operational Status and Recent Advances

Speaker
Xiaolu Ji

18:35–18:55

The phase-1 upgrade of the ATLAS level-1 calorimeter trigger

Speaker
Niklas Schmitt

19:00

Tuesday 26 May

16:50

Data Acquisition and Trigger Architectures

Session | **Location:** Hotel Hermitage, Maria Luisa Room | **Convener:** Stefan Ritt

16:50–17:10

Optimising demanding I/O applications: the HL-LHC ATLAS Readout case study

Speaker
Carlo Alberto Gottardo

17:10–17:30

Wireless TDAQ Upgrades for the PEPS Surface Detector Array

Speaker
Yifan Yang

17:30–17:50

Development of a New Data Acquisition System for Subthreshold Pion Production Experiment

Speaker
Sun-Young Ryu

17:50–18:10

The Central Trigger Processor board for the Advanced SiPM-based camera of the CTA Large-Sized Telescopes

Speaker
María Molina Delicado

18:10–18:30

A Congestion-Aware RDMA Front-End for LST Advanced Camera Readout

Speaker
Filippo Marini

18:30–18:50

Fast Beam Position Calculation Implemented in FPGA

Speaker
Mr Wei Peng

18:50

Thursday 28 May

09:10

Data Acquisition and Trigger Architectures

Session | **Location:** Hotel Hermitage, Maria Luisa Room

09:10–09:30

Timing Distribution Method via 10-km Optical Fibers at the J-PARC for the Hyper-Kamiokande Project

Speaker
Che-Sheng Lin

09:30–09:50

TD-Link: A Deterministic Optical Daisy-Chain Link for Synchronous Data Acquisition in Large-Scale Detector Systems

Speaker
Dr Andrea Abba

09:50–10:10

Commissioning and Low Latency Operation of the Graph Neural Network Electromagnetic Calorimeter Trigger at the Belle II Experiment

Speaker
Marc Neu

10:10

15:00

Data Acquisition and Trigger Architectures

Session | **Location:** Hotel Hermitage, Maria Luisa Room

15:00–15:20

A Real Time Archiving Framework from EPICS to Time Series Databases for Fusion Plant Data

Speaker
Dr Guang Yang

15:20–15:40

Repurposing acquisition devices into trigger-based timing synchronization of break-down events during MITICA high voltage holding experiments

Speaker
Andrea Rigoni Garola

15:40–16:00

Design and Evaluation of DAQ Architectures for Prompt-Gamma Timing in Particle Therapy

Speaker
Felix Mas Milian

16:00–16:20

Fast ML on FPGA for Particle Identification and Tracking

Speaker
Sergey Furletov

16:20–16:40

Online Data Reduction for the ePIC dRICH Using a Multi-FPGA Neural Network

Speaker
Cristian Rossi

16:40–17:00

Implementation of New Time Protocols on CTS Board for Clock Synchronization

Speaker
Genie Jhang

17:00

17:30

Data Acquisition and Trigger Architectures

Session | **Location:** Hotel Hermitage, Maria Luisa Room

17:30–17:50

Triggerless Data Acquisition for Online Reconstruction in High-Rate Experiments

Speaker
Yifeng Wang

17:50–18:10 **CGEM -IT Data Acquisition system**

Speaker
Gianluigi Cibinetto

18:10–18:30

Studies of FPGA accelerated track reconstruction for the ATLAS Event Filter

Speaker
Kevin Sedlaczek

18:30–18:50

Status and testing of the MDT Trigger Processor for the ATLAS Level-0 Muon Trigger at HL-LHC

Speaker
Rimsky Alejandro Rojas Caballero

18:50–19:10 **Data Acquisition Architecture in TELE-NEURART project**

Speaker
Dr Donato Romano

19:10