Session Program

22-26 Apr 2024



24th IEEE Real Time Conference - ICISE, Quy Nhon, Vietnam

Poster A

Tuesday 23 April



Magnitude of (d, p) reactions at low-energy using the Faddeev-Alt-Grassberger-Sandhas equation

Speaker

Mr Tùng Nguyễn Hoàng

Time-based electronics for T-SDHCAL

Speaker

Yongqi Tan

Preliminary Design of Data Exchange Module with USB and QSFP Interface for Test of Readout Electronics

Speaker

Mr Qiutong Pan

Dependence of Detection Efficiency and Neutron/Gamma Discrimination Ability on the Volumetric parameters of EJ-301 Liquid Scintillation Detector

Speaker

Mr Hieu Phan Bao Quoc

Evaluation of kinetics parameters of the Dalat nuclear research reactor with LEU fuel

Speakers

Duc Tu Dau, Hoai Nam Tran

The study of calibration process for the dual-threshold hybrid pixel array detector of HEPS-BPIX40

Speaker

Ms Xueke Ma

Portable codeless high-speed interlock logic controller

Speaker

Zuchao Zhang

Multi setup for giant dipole resonance studies

Speaker

Sergey Stukalov

Development of the Low Noise Front-end Electronics for Pulse Voltage Stability Measurement

Speaker

Mr Lin Jiang

The full scale prototype of the PIP-II dedicated RFPI system

Speaker

Dr Wojciech Cichalewski

PREVALENCE AND CLINICAL CHARACTERISTICS OF TRANSTHYRETIN CARDIAC AMYLOIDOSIS AMONG HEART FAILURE WITH PRESERVED EJECTION FRACTION

Speaker

Ms Miju Cheon

An Improved Algorithm for Q-scale Analysis in Jitter Decomposition

Speaker Mr Xiangshi Zhong

JUNO High Voltage & Low Voltage Power Control System Upgrade Based on EPICS

Speaker

黎晃 lihuang

Data acquisition system of beam loss diagnostics for SKIF synchrotron light source

Speaker

Ekaterina Puryga

Low-power large-dynamic range readout ASIC for VLAST silicon strip detector

Speaker

Dr Gang Chen

The Design of an 8-channel, 41.7-ps Resolution Time-to-Digital Converter for STCF ECAL

Speaker

Dr Ziwei Zhao

Study on Readout Electronics of CEPC Scintillator Analog Hadronic Calorimeter Prototype

Speaker

Mr Zhongtao Shen

A Plugin-Based Software Framework for Data Acquisition and Processing

Speaker

Shaoshuai Fan

Fault Detection and Diagnosis Software for LHAASO

Speaker

Mr Hangchang Zhang

Faraday Cup Development for Beam Monitoring in nA Scale and Its Application in the Cross section Measurement of p+12C Scatterings with Ep=1-3.2 MeV

Speaker

Xuan Chung Le

Design and development of JUNO DAQ Data Flow Software

Speaker

Chao Chen

Implementation of the JUNO DAQ Online Software

Speaker Yinhui Wu

Custom 14-Bit, 500MHz ADC/Data Processing Module for the KOTO Experiment at J-Parc

Speaker Mircea Bogdan

Digital oscilloscope-based acquisition for fast and dynamic sampling of photodetector signals

Speaker Son Cao

Verification and Validation of Real-Time Diagnostics for the KSTAR Plasma Control

Speaker

Ramon Reed

The Ethernet readout of the DUNE DAQ system

Speaker Roland Sipos

Implementation of the Trigger, Timing, and Control Link for Data Acquisition with the Pixie-Net XL

Speaker

Wolfgang Hennig

Study on the Timing Performance of the SiPMs

Speaker

Sen Qian

Readout Electronics for a Prototype TPC-based MeV Gamma-ray Telescope

Speaker

Mr Maoyuan Zhao

Implementation of multi-GHz digital shaper for high-rate nuclear spectroscopy

Speaker

Andrea Abba

STUDY OF MODIFICATION SOLUTIONS IN THE MEANDERING RIVER WITH ALLUVIAL GROUND ALONG THE TIEN RIVER FLOWING THROUGH SA DEC - CAO LANH - CHAU THANH

Speaker

Mrs Thi Nhan Truong

SPLENDAQ: A Detector-Agnostic Data Acquisition System for Small-Scale Physics Experiments

Speaker

Samuel Watkins

Development of FPGA-Based Nuclear Electronics using NI MyRIO Hardware for Small-Scale Radiation Detector Systems

Speakers

Hoang Nguyen Quoc, Hoang Pham Viet, Nguyen Tri Toan Phuc, Phan Lê Hoàng Sang, Phong Nguyen Tan, Trang Hoang, Trương Thị Hồng Loan, Tu Nguyen Hoang, Dr Vo Hong Hai

Identifying Regions of Interest in the ATLAS Calorimeter with Deep Convolutional Neural Networks

Speaker

Leon Bozianu

Primary results of cosmic-ray recognition for a Plastic Scintillation Detector Using Machine Learning

Speaker Nguyen Tri Toan Phuc

Virtualizing experimental setups based on GATE/GEANT4 Monte Carlo simulation results

Speaker

Hoang Thi Kieu Trang

Enhancing Neutron/Gamma Discrimination in the Low-Energy Region for EJ-276 Plastic Scintillation Detector Using Machine Learning

Speaker

Dr Vo Hong Hai

A 3D track reconstruction algorithm for the pre-research of STCF MDC L1 trigger

Speaker Yidi Hao

Measuring Performance Under Failures in the LHCb Data Acquisition Network

Speaker

Eloise Noelle Stein

Preliminary Design of a General Electronics Platform for Accelerator Facilities

Speaker Dr Jinfu Zhu

Implementation of a double trigger condition based on Charge Comparison and TOF measurement in an FPGA for the NEDA detector array.

Speaker Jose Manuel Deltoro Berrio

Design and Characterization Challenges of an Attoampere-Sensitive ASIC-Based Ultra-Low Current System for Real-Time Radiation Monitoring

Speaker Dr Sarath Kundumattathil Mohanan

Real-Time Cross-Coupling removal and Monitoring in RF feedback systems: HLSbased FPGA implementation

Speaker

Nima Omidsajedi

A new methodology of clock phase adjustment in a large-scale clock distribution system for HL-LHC ATLAS TGC front-end electronics

Speaker Mr Ren Nagasaka

A Full Digital Servo for Ultra-Stable Laser Frequency Stabilization

Speaker

Zhengtao Liu

Multi-port Remote JTAG over Optical Fibers under Radiation Environment

Speaker Mikihiko Nakao

A 1D CNN Algorithm for Low Background $\boldsymbol{\beta}$ Detection with Time Projection Chamber

Speaker

Zengxuan Huang

Enhancements and Deployment of the TDAQ System for the Mu2e Experiment

Speaker

Javier Campos

Hi'Beam-SEE: a real-time hgih-resolution Single Event Effects locating device for heavy ion facilities

Speakers

Dr Jianwei Liao, Prof. Chengxin Zhao

An FPGA-Based High Precision Pulse Width Measurement Time-to-Digital Converter with Time Division Multiplexing Encoder

Speaker

Wenhao Duan

12:55