Session Program

23–25 Sept 2024

Fourth MODE Workshop on Differentiable Programming for Experiment Design

Poster session

Valencia (Spain)

Tuesday 24 September

18:20

Poster session
Session | **Location:** Valencia (Spain)

18:25–20:00 **Porting MADGRAPH to FPGA using High-Level Synthesis (HLS)**

Speaker
Hector Gutierrez Arance

18:25–20:00

Computational Evaluation of Na3SbX3 (X =S, Se) for resistive switching memory devices for Neuromorphic Computing applications

Speaker
Muhammad Awais

18:25–20:00 **Improving BioDynamo's Performance using ROOT C++ Modules**

Speaker
Mr Isaac Morales Santana

18:25–20:00

Machine learning in muography: Optimisation of muon detection systems for border control using TomOpt

Speaker
Mr Samuel Álvarez Lueje

18:25–20:00

Evo-SAN: Evolutionary Optimization and Co-design of Energy-efficient Neuromorphic Hardware Trigger for UHE Neutrino Detection

Speaker
Mr Alexander Kyuroson

18:25–20:00 **Smart Web Services in the Web of things**

Speaker
Nawel SEKKAL

18:25–20:00

Development and explainability of models for machine-learning-based signal reconstruction

Speaker
Kalina Dimitrova

18:25–20:00

Machine Learning for Particle Identification in Real Time at the ATLAS Experiment

Speaker
Marta Lanzac Berrocal

18:25–20:00 **Neuromorphic Readout For Homogeneous Hadron Calorimeters**

Speaker
Enrico Lupi

18:25–20:00 **Toward Particle ID in Granular Hadron Calorimeters**

Speaker

Andrea De Vita

18:25–20:00 **Algorithmic differentiation in a granular calorimeter**

Speaker

Xuan Tung Nguyen

18:25–20:00

Multivariate two-sample tests from univariate integral probability measures

Speaker

Samuele Grossi

18:25–20:00 **Versal ACAP processing for ATLAS-TileCal signal reconstruction**

Speaker

Francisco Hervas Alvarez

20:00