



# SMARTHEP Edge Machine Learning School

## Monday 23 September 2024

**Flash talks / poster session: Flash talks and poster session in Auditorium Mezzanine - 500/1-001 - Main Auditorium**

**(16:30 - 18:00)**

-Conveners: Thea Aarrestad

time	[id] title	presenter
16:30	[61] FlashSim: Towards a Digital Twin of the CMS Experiment using Normalizing Flows and Flow Matching	VASELLI, Francesco
16:33	[70] Improving the Inference of Graph Neural Networks for Track Reconstruction	LAZAR, Alina PASCHKE, Henry JSGABORIAULTWHIT@STUDENT.YSU.EDU, James CHAN, Jay DANG, Minh Tuan CALAFIURA, Paolo JU, Xiangyang
16:36	[71] An Open-Source RISC-V-based GPGPU Accelerator for Machine Learning-based Edge Computing Applications	MACHETTI, Simone
16:40	[63] Accelerating Machine Learning algorithms in FPGAs for the trigger system of a SiPM-based upgraded camera of the CTA Large-Sized Telescopes	PÉREZ AGUILERA, Alejandro Prof. BARRIO, Juan Abel Dr TEJEDOR, Luis Ángel
16:46	[67] Nanosecond ML for calorimeter segmentation	MARTYNWOOD, Alex KIMURA, Naoki KONSTANTINIDIS, Nikos CLARKE HALL, Noah
16:49	[69] NextGen Trigger WP 2.2: Enhancing the L0 Muon Trigger: Project goals and needs	CARNESALE, Maria KORTNER, Oliver ROJAS CABALLERO, Rimsy Alejandro MARTINEZ OUTSCHOORN, Verena Ingrid
16:52	[64] Nanosecond AI for anomaly detection with decision trees on FPGA	STELZER, Joerg
16:55	[65] Neural Architectures and Data Processing Pipelines for Irradiation Experiments: from the Automatic Assessment of Proposals to the Monitoring of the Beam Quality	SZUMEGA, Jaroslaw
17:00	[75] Real-time search for Dark Photons at the Upgraded LHCb experiment (Poster Upload)	COCHA TOAPAXI, Carlos Eduardo BORSATO, Martino
17:05	[72] Flavour Tagging in Run 3 at the LHCb experiment (Poster Upload)	OLOCCO, Micol
17:10	[74] Track Reconstruction with Graph Neural Networks on Heterogeneous Architectures (Poster Upload)	GIASEMIS, Fotis
17:12	[60] Ultrafast Jet Classification at the HL-LHC (Poster Upload)	ODAGIU, Denis-Patrick
17:13	[62] Optimizing Multi-Model Compression for Resource-Constrained Devices (Poster Upload)	PRADO, João Luís

17:14	[68] Licensing, Copyright and AI Training Data: Evidence from 2 Billion Images (Poster Upload)	Prof. PEUKERT, Christian Mr DALAUD, Irvin SHCHERBAKOV, Viktor
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