



# CPAD Instrumentation Frontier Workshop 2021

## Thursday, March 18, 2021

### TDAQ (12:00 PM - 1:40 PM)

-Conveners: Isobel Ojalvo; Georgia Karagiorgi

time	[id] title	presenter
12:00 PM	[M10] Mu2e TDAQ and slow control systems	GIOIOSA, Antonio
12:20 PM	[M14] Development of the Mu2e electromagnetic calorimeter front-end and readout electronics	SPINELLA, Franco SPINELLA, franco SPINELLA, Franco
12:40 PM	[M16] Does anybody really know the time it is?	RUSACK, Roger
1:00 PM	[M11] FELIX: the Detector Interface for the ATLAS Experiment at CERN	PARAMONOV, Alexander
1:20 PM	[M13] The Expandable Modular ATCA hardware design for high-energy physics experiment applications	MADORSKY, Alexander

### TDAQ (2:00 PM - 4:00 PM)

-Conveners: Isobel Ojalvo; Georgia Karagiorgi

time	[id] title	presenter
2:00 PM	[M18] Liquid Argon Time Projection Chamber Trigger Development with MicroBooNE and SBND	KALRA, Daisy KALRA, Daisy
2:20 PM	[M45] Trigger and Data Acquisition for the Mu2e-II experiment	BONVENTRE, Richard BONVENTRE, Richard
2:40 PM	[M62] Streaming data acquisition system for CLAS12 Forward Tagger	BONDI', Mariangela
3:00 PM	[M09] Designing a 30 MHz GPU trigger, the LHCb experience	GLIGOROV, Vladimir
3:20 PM	[M58] Detector design for a Muon Collider experiment	JINDARIANI, Sergo

# Friday, March 19, 2021

## TDAQ (12:00 PM - 1:40 PM)

-Conveners: Georgia Karagiorgi; Isobel Ojalvo

time	[id] title	presenter
12:00	[M10] Real-time analysis in Run 3 with the LHCb experiment	VESTERINEN, Mika
12:20	[M12] Towards an Interpretable Data-driven Trigger System for High-Throughput Physics Facilities	MILLER, David
12:40	[M15] Global Trigger for the ATLAS Phase-II upgrade	HEINRICH, Jochen
1:00	[M14] The Challenges of Machine Learning at the Edge	CORBEIL THERRIEN, Audrey
1:20	[M19] Coprocessors as a service for accelerated inference of DL algorithms	KRUPA, Jeffrey

## TDAQ (2:00 PM - 3:10 PM)

-Conveners: Georgia Karagiorgi; Isobel Ojalvo

time	[id] title	presenter
2:00	[M21] Triggering on Long-Lived Particles decaying to Hadronic Showers in CMS Muon System	KWOK, Ka hei martin
2:20	[M14] Real-time Artificial Intelligence for Accelerator Control: A Study at the Fermilab Booster	HERWIG, Christian
2:40	[M20] hls4ml: enabling real-time deep learning in HEP trigger and DAQ systems	NGADIUBA, Jennifer NGADIUBA, Jennifer