



# 2017 Meeting of the APS Division of Particles and Fields (DPF 2017)

## Monday, 31 July 2017

**Computing, Analysis Tools, and Data Handling: Joint session with Particle Detectors, Monday afternoon - 1 East (13:30 - 15:15)**

-Conveners: Matthew Judah

time	[id] title	presenter
13:30	[192] The Calorimeter Global Feature Extractor (gFEX) for the Phase-I Upgrade of the ATLAS experiment	STARK, Giordon
13:47	[532] The ATLAS New Small Wheel Trigger	TUNA, Alexander
14:04	[124] Instantaneous luminosity calibration of the ATLAS experiment with $\sqrt{s}$ to $\sqrt{s}$	Mr POTTI, Harish
14:21	[267] Mu2e Trigger & DAQ Design and Challenges	Dr MIYASHITA, Tomonari
14:38	[480] The ATLAS Trigger algorithms upgrade and performance in Run 2 (TDAQ)	BERNIUS, Catrin
14:55	[479] The ATLAS Trigger Menu design for higher luminosities in Run 2 (TDAQ)	RUSSELL, Heather

# Tuesday, 1 August 2017

## Computing, Analysis Tools, and Data Handling: Tuesday afternoon - 1 East (13:30 - 15:15)

-Conveners: Aristeidis Tsaris

time	[id] title	presenter
13:30	[126] Deep Neural Networks for HEP Images	NACHMAN, Benjamin
13:55	[393] Applying Deep Learning in MicroBooNE	WONGJIRAD, Taritree
14:20	[411] Deep Learning and DUNE	Dr RADOVIC, Alexander
14:45	[407] Advanced machine-learning solutions in LHCb operations and data analysis	Dr RATNIKOV, Fedor

## Wednesday, 2 August 2017

### Computing, Analysis Tools, and Data Handling: Wednesday morning - Hornets Nest (10:45 - 12:15)

-Conveners: Salman Habib

time	[id] title	presenter
10:45	[315] Exploration of Deep Convolutional and Domain Adversarial Neural Networks in MINERvA.	MILLER, Jonathan
11:10	[453] Deep Learning Applications in the NOvA Experiment	Ms PSIHAS, Fernanda
11:35	[447] Exploring Computing Methods for Improved Cosmic Background Rejection in NOvA's Sterile Neutrino Searches	Mr YANG, Shaokai
11:55	[140] Data unfolding with Wiener-SVD Method	Ms LI, Xiaoyue

### Computing, Analysis Tools, and Data Handling: Wednesday afternoon - Hornets Nest (13:30 - 15:15)

-Conveners: Pengfei Ding

time	[id] title	presenter
13:30	[83] Operation and Performance of the ATLAS Level-1 Calorimeter and Level-1 Topological Triggers in Run 2 at the LHC	Dr WHALEN, Kate
13:47	[222] Data analysis at CMS Level-1 Trigger	Dr WU, Zhenbin
14:05	[123] Data Acquisition with GPUs for the Muon g-2 Experiment at Fermilab	Dr GOHN, Wes
14:22	[30] Radiation-Hard/High-Speed VCSEL Array Driver ASIC for HL-LHC	Prof. GAN, K.K.
14:38	[388] Studies of Beam Induced Radiation Backgrounds at the Mu2e Experiment and Implications for the Cosmic Ray Veto Detector Operations	Dr OKSUZIAN, Yuri
14:55	[93] Using the Jets-without-Jets Algorithm to Model MET in an ATLAS Level-1 Trigger Algorithm	LINCK, Rebecca

# Thursday, 3 August 2017

## Computing, Analysis Tools, and Data Handling: Thursday morning - Hornets Nest (10:45 - 12:15)

-Conveners: Andrew Norman

time	[id] title	presenter
10:45	[232] Track extrapolation and muon identification in Belle II event reconstruction	Prof. PIILONEN, Leo
11:07	[257] GPUs in LHCb for Analysis	Dr SCHREINER, Henry
11:29	[328] Histogram Binning with Bayesian Blocks	Dr POLLACK, Brian
11:51	[380] Automated proton track identification in MicroBooNE using gradient boosted decision trees	WOODRUFF, Katherine

## Computing, Analysis Tools, and Data Handling: Thursday Afternoon - Hornets Nest (13:30 - 15:15)

-Conveners: Kaushik De

time	[id] title	presenter
13:30	[231] HEPCloud: Provisioning 160,000 Compute Cores for Science	Dr HOLZMAN, Burt
13:47	[237] The Fabric for Frontier Experiments Project at Fermilab: Computing for Experiments	Dr HERNER, Kenneth
14:04	[436] Belle II Distributed Data Management System and Networking	Dr BANSAL, Vikas
14:21	[438] Large-scale Simulation and Data Processing in the NOVA Experiment	MOREN, Adam
14:38	[42] CMS Software and Computing in LHC Run 2 (and Beyond)	CREMONESI, Matteo
14:56	[418] Conceptualization of a Scientific Software Innovation Institute for HEP and a Community Roadmap Process for Software and Computing R&D	NEUBAUER, Mark