

2019 Meeting of the Division of Particles & Fields of the American Physical Society

Monday 29 July 2019

Computing, Analysis Tools, & Data Handling: IRIS-HEP Tutorial - Shillman 425 (14:00-15:30)

-Conveners: **Jim Pivarski; Mike Hildreth; Bo Jayatilaka; Michael Kirby; Peter Onyisi; Nick Smith**

time	[id] title	presenter
14:00	[481] IRIS-HEP Tutorial: Fast columnar data analysis with data science tools (Part 1)	PIVARSKI, Jim SMITH, Nick

Computing, Analysis Tools, & Data Handling: IRIS-HEP Tutorial - Shillman 425 (16:00-18:00)

-Conveners: **Michael Kirby; Nick Smith; Peter Onyisi; Mike Hildreth; Jim Pivarski; Bo Jayatilaka**

time	[id] title	presenter
16:00	[482] IRIS-HEP Tutorial: Fast columnar data analysis with data science tools (Part 2)	PIVARSKI, Jim SMITH, Nick

Tuesday 30 July 2019

Computing, Analysis Tools, & Data Handling - Shillman 425 (14:00-15:30)

-Conveners: Michael Kirby; Mike Hildreth; Bo Jayatilaka; Peter Onyisi

time	[id] title	presenter
14:00	[10] COFFEA - Columnar Object Framework For Effective Analysis	SMITH, Nick
14:20	[205] Combined Neyman-Pearson Chi-square: an improved approximation to the Poisson-likelihood chi-square	Dr Ji, Xiangpan
14:40	[24] pyhf: a pure Python statistical fitting library from the high energy physics community with tensors and autograd	STARK, Giordon Holtsberg
15:00	[396] Extending RECAST for truth-level analysis reinterpretations	SCHUY, Alexander Joseph

Wednesday 31 July 2019

Computing, Analysis Tools, & Data Handling - Shillman 425 (14:00-15:30)

-Conveners: **Mike Hildreth; Michael Kirby; Bo Jayatilaka; Peter Onyisi**

time	[id] title	presenter
14:00	[107] ACTS: a common track reconstruction software	Dr AI, Xiacong
14:20	[209] Deep Learning for Event Reconstruction at DUNE	BIAN, Jianming
14:40	[135] End-to-end particle and event identification at the Large Hadron Collider with CMS Open Data	USAI, Emanuele
15:00	[164] HEP.TrkX Charged Particle Tracking using Graph Neural Networks	JU, Xiangyang

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-Conveners: **Michael Kirby; Bo Jayatilaka; Peter Onyisi; Mike Hildreth**

time	[id] title	presenter
16:00	[224] Recent progress on Wire-Cell 3D imaging and tracking for LArTPC	Dr WEI, Hanyu
16:20	[247] Simulating light in large volume detectors using Metropolis Light Transport	COLLIN, Gabriel
16:40	[270] Supervised learning of Photo-Electron counting in scintillator-based dark matter experiments	Dr BHATTACHARYA, Kolahal BHATTACHARYA, Kolahal
17:00	[118] Determination of CMS Barrel Test Beam Calorimeter Reponse Correction to Pion Beams with Convolutional Neural Networks	LI, Daniel
17:20	[355] Fast detector modeling using machine learning algorithms	HOPKINS, Walter
17:40	[410] Electron Neutrino Energy Reconstruction with Convolutional Neural Network	YU, Shiqi

Thursday 01 August 2019

Computing, Analysis Tools, & Data Handling - Shillman 425 (14:00-15:30)

-Conveners: Peter Onyisi; Bo Jayatilaka; Michael Kirby; Mike Hildreth

time	[id] title	presenter
14:00	[114] Tools for Trigger Rate Monitoring at CMS	MOHRMAN, Kelci
14:20	[124] The migration of the ATLAS electron photon trigger software to the AthenaMT	Mr BAKSHI GUPTA, Debottam
14:40	[81] Application of Quantum Machine Learning to High Energy Physics Analysis at LHC using IBM Quantum Computer Simulators and IBM Quantum Computer Hardware	WANG, Alex Zeng
15:00	[369] Noise Filtering and Signal Processing in the ProtoDUNE-SP LArTPC	SARASTY SEGURA, Carlos

Computing, Analysis Tools, & Data Handling - Shillman 425 (16:00-18:00)

-Conveners: Michael Kirby; Mike Hildreth; Peter Onyisi; Bo Jayatilaka

time	[id] title	presenter
16:00	[145] Computing and Machine Learning for Detector R&D (Summary of CPAD2018)	GLEYZER, Sergei
16:20	[137] Software Upgrades for the HL-LHC and HEP in the 2020s	ELMER, Peter
16:40	[319] Evolving CMS offline computing towards LHC Run3 and HL-LHC	LANGE, David
17:00	[239] Large-scale HPC deployment of Scalable CyberInfrastructure for Artificial Intelligence and Likelihood Free Inference (SCAILFIN)	HILDRETH, Mike HURTADO ANAMPA, Kenyi Paolo