



# ICHEP 2020

## Tuesday, July 28, 2020

### Computing and Data Handling: Session I - Premiere (3:30 PM - 8:30 PM)

-Conveners: Elisabetta Maria Pennacchio; Dagmar Adamova

time	[id] title	presenter
3:30 PM	[M03] Application of Quantum Machine Learning to High Energy Physics Analysis at LHC using IBM Quantum Computer Simulators and IBM Quantum Computer Hardware	ZHOU, Chen
3:50 PM	[M05] On the impact of modern deep-learning techniques to the performance and time-requirements of classification models in experimental high-energy physics	STRONG, Giles Chatham
4:10 PM	[M04] Hello RNTuple and friends: what the new ROOT means for your analysis	NAUMANN, Axel
4:30 PM	Coffee break	
4:50 PM	[M043] What the new RooFit can do for your analysis	HAGEBOECK, Stephan
5:10 PM	[M06] Automated selection of particle-jet features for data analysis in High Energy Physics experiments	Mr DI LUCA, Andrea
5:30 PM	[M10] Data Analysis with GPU-Accelerated Kernels	DUTTA, Irene
5:50 PM	Coffee break	
6:10 PM	[M050] Parallelization for HEP Event Reconstruction	CERATI, Giuseppe REINSVOLD HALL, Allison CERATI, Giuseppe
6:30 PM	[M21] Using an Optical Processing Unit for tracking and calorimetry at the LHC	BASARA, Laurent

# Wednesday, July 29, 2020

## Computing and Data Handling: Session I - Replay (8:00 AM - 1:00 PM)

## Computing and Data Handling: Session II - Premiere (3:30 PM - 8:30 PM)

-Conveners: Elizabeth Sexton-Kennedy; Dagmar Adamova

time	[id] title	presenter
3:30 PM	[M16] Fast Simulations at LHCb	MORRIS, Adam Benjamin
3:50 PM	[M18] Fast calorimeter simulation at LHCb	RAMA, Matteo
4:10 PM	[M35] Generating the full SM at linear colliders	BERGGREN, Mikael
4:30 PM	Coffee break	
4:50 PM	[M83] Advances in simulation and reconstruction for Hyper-Kamiokande	PROUSE, Nick
5:10 PM	[M84] Detector Simulation Upgrades for HL-LHC	STEWART, Graeme A
5:30 PM	Coffee break	
5:50 PM	[M70] Computing for the DUNE Long Baseline Neutrino Oscillation Experiment	KIRBY, Michael
6:10 PM	[M81] DUNE Data Management Experience with Rucio	TIMM, Steve
6:30 PM	[M41] Growth and Evolution CMS Offline Computing from Run 1 to HL-LHC	AGARWAL, Sharad

# Thursday, July 30, 2020

## Computing and Data Handling: Session II - Replay (1:00 AM - 6:00 AM)

## Computing and Data Handling: Session III - Premiere (8:00 AM - 1:00 PM)

-Conveners: Graeme A Stewart; Concezio Bozzi

time	[id] title	presenter
8:00 AM	M481] ALICE data processing for Run 3 and Run 4 at the LHC	ZAMPOLLI, Chiara
8:20 AM	M491] GPU-based online-offline reconstruction in ALICE for LHC Run 3	CONCAS, Matteo
8:40 AM	M443] MARTY: a C++ symbolic computation library for High Energy Physics	Mr UHLRICH, Grégoire
9:00 AM	Coffee break	
9:20 AM	M421] Fast Entropy Coding for ALICE Run 3	LETTRICH, Michael
9:40 AM	M483] Belle II RAW data management - The Online-Offline data transfer system	BARRETT, Matthew
10:00 AM	Coffee break	
10:20 AM	M431] The Data-Acquisition System of the KOTO Experiment	Mr LIN, Chieh
10:40 AM	M504] Migration of CMSWEB cluster at CERN to Kubernetes	IMRAN, Muhammad
11:00 AM	M408] VegasFlow: accelerating Monte Carlo simulation across platforms with dataflow graphs	Dr CRUZ MARTÍNEZ, Juan Manuel

## Computing and Data Handling: Session III - Replay (3:30 PM - 8:30 PM)

# Friday, July 31, 2020

## Computing and Data Handling: Session IV - Premiere (8:00 AM - 1:00 PM)

-Conveners: **Concezio Bozzi; Graeme A Stewart**

time	[id] title	presenter
8:00 AM	[M87] PDFflow: hardware accelerating parton density access	ROSSI, Marco
8:20 AM	[M70] The ILD Software Tools and Detector Performance	ETE, Remi
8:40 AM	[M91] A simulation framework for Spherical Proportional Counters	NEEP, Tom
9:00 AM	Coffee break	
9:20 AM	[M14] Quantum-inspired Tensor Network machine learning on high-energy physics data	ZULIANI, Davide
9:40 AM	[M19] Conclusions from TrackML the HEP Tracking Machine Learning challenge	SALZBURGER, Andreas
10:00 AM	[M6] Erratic server behavior detection using machine learning on basic monitoring metrics	ADAM, Martin
10:20 AM	Coffee break	
10:40 AM	[M] Providing the computing and data to the physicists: Overview of the ATLAS distributed computing system	SVATOS, Michal
11:00 AM	[M2] The evolution of the LHCb offline computing towards the Run3 Upgrade	SKIDMORE, Nicola Anne
11:20 AM	[M2] Resource provisioning and workload scheduling of CMS Offline Computing	PEREZ-CALERO YZQUIERDO, Antonio

## Computing and Data Handling: Session IV - Replay (3:30 PM - 8:30 PM)