



# CHEP 2016 Conference, San Francisco, October 8-14, 2016

## Monday, October 10, 2016

### Track 2: Offline Computing: 2.1 - GG C1 (11:00 AM - 12:30 PM)

-Conveners: Deborah BARD; David Lange; John Marshall

time	[id] title	presenter
11:15 AM	[191] AthenaMT: Upgrading the ATLAS Software Framework for the Many-Core World with Multi-Threading	
11:30 AM	[439] CMS Event Processing Multi-core Efficiency Status	
11:45 AM	[322] The FCC software - how to keep SW experiment independent	
12:00 PM	[539] LArSoft: a toolkit for simulation, reconstruction and analysis of liquid argon TPC experiments	JONES, Christopher
12:15 PM	[372] Benchmarking High Performance Computing Architectures with CMS' Skeleton Framework	

### Track 2: Offline Computing: 2.2 - GG C1 (2:00 PM - 4:00 PM)

-Conveners: David Lange; Deborah BARD; John Marshall

time	[id] title	presenter
2:00 PM	[96] Giving pandas ROOT to chew on: experiences with the XENON1T Dark Matter experiment	REMENSKA, Daniela
2:15 PM	[108] The Muon Ionization Cooling Experiment Analysis User Software	
2:30 PM	[342] Conditions Database for the Belle II Experiment	WOOD, Lynn
2:45 PM	[457] Functional tests of a prototype for the CMS-ATLAS common non-event data handling framework	SIPOS, Roland
3:00 PM	[193] Collecting conditions usage metadata to optimize current and future ATLAS software and processing	RINALDI, Lorenzo
3:15 PM	[192] An Oracle-based Event Index for ATLAS	GALLAS, Elizabeth
3:30 PM	[346] A comparison of different database technologies for the CMS AsyncStageOut transfer database	VAANDERING, Eric
3:45 PM	[123] Integration of Oracle and Hadoop: hybrid databases affordable at scale	CANALI, Luca

## Tuesday, October 11, 2016

### **Track 2: Offline Computing: 2.3 - GG C1 (11:00 AM - 12:30 PM)**

-Conveners: Sunanda Banerjee

time	[id] title	presenter
11:00 AM	[221] New developments in Geant4 version 10 series	ASAI, Makoto
11:15 AM	[353] Latest Developments in Delphes 3	SELVAGGI, Michele
11:30 AM	[339] Detector Simulations with DD4hep	
11:45 AM	[170] Stochastic optimisation of GeantV code by use of genetic algorithms	
12:00 PM	[278] A Software Toolkit to Study Systematic Uncertainties of the Physics Models of the Geant4 Simulation Package	
12:15 PM	[228] Opticks : GPU Optical Photon Simulation for Particle Physics with NVIDIA OptiX	BLYTH, simon

### **Track 2: Offline Computing: 2.4 - GG C1 (2:00 PM - 3:30 PM)**

-Conveners: Frank-Dieter Gaede

time	[id] title	presenter
2:00 PM	[361] CMS Full Simulation Status	LANGE, David
2:15 PM	[139] Modernizing the ATLAS Simulation Infrastructure	DI SIMONE, Andrea
2:30 PM	[112] Full and Fast Simulation Framework for the Future Circular Collider Studies	ZABOROWSKA, Anna
2:45 PM	[133] ATLAS Simulation using Real Data: Embedding and Overlay	HAAS, Andrew
3:00 PM	[241] GEANT4-based full simulation of the PADME experiment at the DAFNE BTF	LEONARDI, Emanuele
3:15 PM	[85] The new ATLAS Fast Calorimeter Simulation	SCHAARSCHMIDT, Jana

## Wednesday, October 12, 2016

### Track 2: Offline Computing: 2.5 - GG C1 (11:15 AM - 1:00 PM)

-Conveners: Deborah BARD; David Lange; John Marshall

time	[id] title	presenter
11:15 AM	[115] Kalman filter tracking on parallel architectures	RILEY, Daniel Sherman
11:30 AM	[137] ACTS: from ATLAS software towards a common track reconstruction software	GUMPERT, Christian
11:45 AM	[286] STAR Reconstruction Improvements for Tracking with the Heavy Flavor Tracker	WEBB, Jason
12:00 PM	[344] Neuromorphic Computing for High Energy Physics	
12:15 PM	[128] Development and performance of track reconstruction algorithms at the energy frontier with the ATLAS detector	GAGNON, Louis-Guillaume
12:30 PM	[558] Tracking in the Muon g-2 Experiment	WALTON, Tammy
12:45 PM	[518] Alignment of the CMS Tracker: Latest Results from LHC Run-II	MITTAG, Gregor

# Thursday, October 13, 2016

## **Track 2: Offline Computing: 2.6 - GG C1 (11:00 AM - 12:30 PM)**

**-Conveners: Deborah BARD; David Lange; John Marshall**

time	[id] title	presenter
11:00 AM	[2] Reconstruction software of the silicon tracker of DAMPE mission	Dr TYKHONOV, Andrii
11:15 AM	[218] ATLAS Data Preparation in Run 2	LAYCOCK, Paul James
11:30 AM	[435] Primary Vertex finding in the RHIC high precision measurement era - enhancement and experience in STAR	SMIRNOV, Dmitri
11:45 AM	[130] Primary Vertex Reconstruction with the ATLAS experiment	GRIMM, Kathryn
12:00 PM	[473] DD4hep based event reconstruction	
12:15 PM	[567] Machine learning and parallelism in the reconstruction of LHCb and its upgrade	STAHL, Marian

## **Track 2: Offline Computing: 2.7 - GG C1 (2:00 PM - 3:30 PM)**

**-Conveners: John Marshall; David Lange; Deborah BARD**

time	[id] title	presenter
2:00 PM	[196] Multi-threaded ATLAS Simulation on Intel Knights Landing Processors	
2:15 PM	[415] A precision device needs precise simulation: Software description of the CBM Silicon Tracking System	MALYGINA, Hanna FRIESE, Volker
2:30 PM	[169] Validation of Electromagnetic Physics Models for Parallel Computing Architectures in the GeantV project	BANDIERAMONTE, Marilena
2:45 PM	[334] Validation of Physics Models of Geant4 using data from CMS experiment	BANERJEE, Sunanda
3:00 PM	[514] GEMPix detector as beam monitor at CNAO Hadrontherapy Center: Geant4 simulation and measurements	Dr TAMBORINI, Aurora
3:15 PM	[519] The Application of SNIPEr to the JUNO Simulation	LIN, Tao LIN, Tao