

Session Program

21-25 May 2012



Computing in High Energy and Nuclear Physics (CHEP) 2012

Event Processing

New York City, NY, USA

Monday 21 May

16:35

Event Processing

Session | **Location:** Kimmel Center, Room 905/907 | **Convener:** Dr Adam Lyon

16:35–17:00 **Study of a Fine Grained Threaded Framework Design**

Speaker

Dr Christopher Jones

17:00–17:25 **The art framework**

Speaker

Dr Marc Paterno

17:25–17:50

The ATLAS ROOT-based data formats: recent improvements and performance measurements

Speaker

Wahid Bhimji

17:50–18:15 **I/O Strategies for Multicore Processing in ATLAS**

Speaker

Peter Van Gemmeren

18:15

Tuesday 22 May

13:30

Event Processing

Session | **Location:** Kimmel Center, Room 905/907 | **Convener:** Axel Naumann

13:30–13:55 **Recent Developments and Validation of Geant4 Hadronic Physics**

Speaker

Julia Yarba

13:55–14:20

Refactoring, reengineering and evolution: paths to Geant4 uncertainty quantification and performance improvement

Speaker

Dr Maria Grazia Pia

14:20–14:45

"Swimming" : a data driven acceptance correction algorithm

Speaker

Marco Cattaneo

14:45–15:10

Using Functional Languages and Declarative Programming to Analyze Large Datasets: LINQToROOT

Speaker

Gordon Watts

15:35

16:35

Event Processing

Session | **Location:** Kimmel Center, Room 905/907 | **Convener:** Dr Adam Lyon

17:00–17:25 **Exploiting new CPU architectures in the SuperB software framework**

Speaker

Marco Corvo

17:25–17:50

The FairRoot framework

Speaker

Dr Florian Uhlig

17:50–18:15

Event Reconstruction in the PandaRoot framework

Speaker

Stefano Spataro

18:15

Thursday 24 May

13:30

Event Processing

Session | **Location:** Kimmel Center, Room 905/907 | **Convener:** Axel Naumann

13:30-13:55

Parallel implementation of the KFParticle vertexing package for the CBM and ALICE experiments

Speaker

Mr Igor Kulakov

13:55-14:20

Pattern Recognition for a Continuously Operating GEM-TPC

Speaker

Johannes Rauch

14:20-14:45

Rethinking particle transport in the many-core era

Speaker

Mr Federico Carminati

14:45-15:10

Medical imaging inspired vertex reconstruction at the large hadron collider

Speaker

Stephan G. Hageboeck

15:10-15:35

Track Reconstruction in Belle 2

Speakers

Jakob Lettenbichler, Mr Moritz Nadler, Rudolf Fruhwirth

15:35

16:35

Event Processing

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16:35-17:00

A GPU-based multi-jet event generator for the LHC

Speaker

Gerben Stavenga

17:00-17:25

IceCubes GPGPU's cluster for extensive MC production

Speaker

Mr Heath Skarlupka

17:25-17:50

Track finding and fitting on GPUs, first steps toward a software trigger

Speaker

Dr Mohammad Al-Turany

17:50-18:15

Acceleration of multivariate analysis techniques in TMVA using GPUs

Speaker

Andrew John Washbrook

18:15