

## **Session Program**

**14-18 Oct 2013**



# **20th International Conference on Computing in High Energy and Nuclear Physics (CHEP2013)**

## ***Event Processing, Simulation and Analysis***

Amsterdam, Beurs van Berlage  
Damrak 243 1012 ZJ AMSTERDAM

# Monday 14 October

13:30

## Event Processing, Simulation and Analysis: I

**Session** | **Location:** Amsterdam, Beurs van Berlage, Berlagezaal

13:30–13:50 **Track Reconstruction at the ILC**

**Speaker**

Frank-Dieter Gaede

13:55–14:15

**Track extrapolation and muon identification using GEANT4E in event reconstruction in the Belle II experiment**

**Speaker**

Leo Piilonen

14:40–15:00

**The Role of Effective Event Reconstruction in the Higgs Boson Discovery at CMS**

**Speaker**

Slava Krutelyov

15:00

15:45

## Event Processing, Simulation and Analysis: II

**Session** | **Location:** Amsterdam, Beurs van Berlage, Berlagezaal

15:45–16:05 **FLES: First Level Event Selection Package for the CBM Experiment**

**Speaker**

Prof. Ivan Kisel

16:10–16:30

**Extending the FairRoot framework to allow for simulation and reconstruction of free streaming data**

**Speaker**

Dr Mohammad Al-Turany

16:30–16:50

**Selected event reconstruction algorithms for the CBM experiment at FAIR**

**Speaker**

Semen Lebedev

16:55–17:15

**Development of Bayesian analysis program for extraction of polarisation observables at CLAS**

**Speaker**

Stefanie Lewis

17:15

17:25

## Event Processing, Simulation and Analysis: III

**Session** | **Location:** Amsterdam, Beurs van Berlage, Berlagezaal

17:25–17:45

**Stitched Together: Transitioning CMS to a Hierarchical Threaded Framework**

**Speaker**

Elizabeth Sexton-Kennedy

17:50–18:10

**Introducing Concurrency in the Gaudi Data Processing Framework**

**Speaker**

Benedikt Hegner

18:10

## Tuesday 15 October

13:30

### Event Processing, Simulation and Analysis: IV

**Session** | **Location:** Amsterdam, Beurs van Berlage, Berlagezaal

13:30–13:50

#### Simulation of Pile-up in the ATLAS Experiment

**Speaker**

Zachary Louis Marshall

13:55–14:15

#### Strategies for Modeling Extreme Luminosities in the CMS Simulation

**Speaker**

Mike Hildreth

14:15–14:35

#### Preparing the Track Reconstruction in ATLAS for a high multiplicity future

**Speaker**

Robert Johannes Langenberg

14:40–15:00

#### Alignment and calibration of CMS detector during collisions at LHC

**Speaker**

Roberto Castello

15:00

15:45

### Event Processing, Simulation and Analysis: V

**Session** | **Location:** Amsterdam, Beurs van Berlage, Berlagezaal

15:45–16:05

#### The Belle II Physics Analysis Model

**Speaker**

Phillip Urquijo

16:10–16:30

#### A Common Partial Wave Analysis Framework for PANDA

**Speaker**

Mathias Michel

16:30–16:50

#### Simulation and analysis of the LUCID experiment in the Low Earth Orbit radiation environment

**Speaker**

Dr Tom Whyntie

16:55–17:15

#### Improvement of the ALICE Online Event Display using OO patterns and parallelization techniques

**Speaker**

Mihai Niculescu

17:15

17:25

## Event Processing, Simulation and Analysis: VI

**Session** | **Location:** Amsterdam, Beurs van Berlage, Berlagezaal

17:25-17:45

### An exact framework for uncertainty quantification in Monte Carlo simulation

**Speaker**

Dr Saracco Paolo

17:50-18:10

### RooFit and RooStats - a framework for advanced data modeling and statistical analysis

**Speaker**

Wouter Verkerke

18:10

# Thursday 17 October

11:00

## Event Processing, Simulation and Analysis: VII

**Session** | **Location:** Amsterdam, Beurs van Berlage, Berlagezaal

**11:00–11:20** **A new Scheme for ATLAS Trigger Simulation using Legacy Code**

**Speaker**

Werner Wiedenmann

**11:25–11:45** **The Fast Simulation of the CMS detector**

**Speaker**

Andrea Giammanco

**11:45–12:05**

**Concepts for fast large scale Monte Carlo production for the ATLAS experiment**

**Speaker**

Chiara Debenedetti

**12:10–12:30**

**CMS Full Simulation: Evolution Toward the 14 TeV Run**

**Speaker**

Mike Hildreth

12:30

13:30

## Event Processing, Simulation and Analysis: VIII

**Session** | **Location:** Amsterdam, Beurs van Berlage, Berlagezaal

**13:30–13:50** **DD4hep: A General Purpose Detector Description Toolkit**

**Speaker**

Markus Frank

**13:55–14:15**

**Geant4 studies of the CNAO facility system for hadrontherapy treatment of uveal melanomas**

**Speakers**

Prof. Adele Rimoldi, Dr Pierluigi Piersimoni

**14:15–14:35**

**ArtG4: A generic framework for Geant4 simulations**

**Speaker**

Dr Adam Lyon

**14:40–15:00**

**Geant4 - Towards major release 10**

**Speaker**

Dr Gabriele Cosmo

15:00