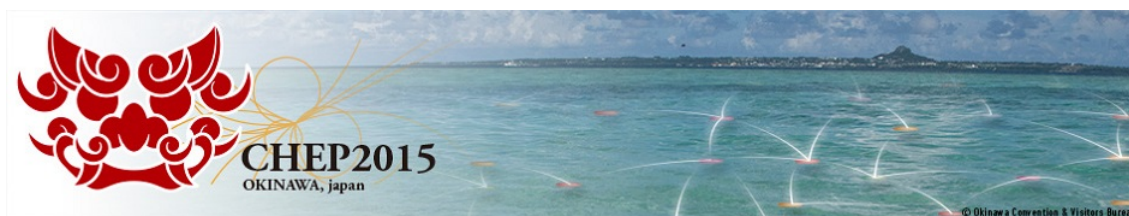


Session Program

Apr 13 - 17, 2015



21st International Conference on Computing in High Energy and Nuclear Physics **CHEP2015** Okinawa Japan: April 13 - 17, 2015

21st International Conference on Computing in High Energy and Nuclear Physics (CHEP2015)

Track 2 Session

OIST

1919-1 Tancha, Onna-son, Kunigami-gun Okinawa, Japan 904-0495

Mon, April 13

2:00 PM

Track 2 Session: #1 (Reconstruction)

Session | **Location:** Auditorium, Auditorium | **Convener:** Elizabeth Sexton-Kennedy

14:00 - 14:15 **Optimisation of the ATLAS Track Reconstruction Software for Run-2**

Speaker

Andreas Salzburger

14:15 - 14:30 **Simulation and Reconstruction Upgrades for the CMS experiment**

Speaker

David Lange

14:30 - 14:45

CMS reconstruction improvements for the tracking in large pile-up events

Speaker

Marco Rovere

14:45 - 15:00 **Optimization of the LHCb track reconstruction**

Speaker

Barbara Storaci

15:00 - 15:15 **Event Reconstruction Techniques in NOvA**

Speaker

Dominick Rocco

15:15 - 15:30 **Kalman Filter Tracking on Parallel Architectures**

Speaker

Giuseppe Cerati

15:30 - 15:45

Cellular Automaton based Track Finding for the Central Drift Chamber of Belle II

Speaker

Oliver Frost

15:45 - 16:00

4-Dimensional Event Building in the First-Level Event Selection of the CBM Experiment.

Speaker

Dr Ivan Kisel

4:00 PM

4:30 PM

Track 2 Session: #2 (Exp. Comp. Models)

Session | **Location:** Auditorium, Auditorium | **Convener:** Dr Ivan Kisel

16:30 - 16:45 **Status and future evolution of the ATLAS offline software**

Speaker

Rolf Seuster

16:45 - 17:00 **Implementation of the ATLAS Run 2 event data model**

Speaker
Scott Snyder

17:00 - 17:15 **ATLAS Metadata Infrastructure Evolution for Run 2 and Beyond**

Speaker
Dr Peter Van Gemmeren

17:15 - 17:30

The Data Quality Monitoring Software for the CMS experiment at the LHC

Speaker
Marco Rovere

17:30 - 17:45 **MiniAOD: A new analysis data format for CMS**

Speaker
Dr Carl Vuosalo

17:45 - 18:00 **MAUS: The MICE Analysis and User Software**

Speaker
Janusz Martyniak

18:00 - 18:15 **The NOvA Simulation Chain**

Speaker
Adam Aurisano

18:15 - 18:30 **The Heavy Photon Search Experiment Software Environment**

Speaker
Norman Anthony Graf

6:30 PM

Tue, April 14

2:00 PM

Track 2 Session: #3 (Frameworks)

Session | **Location:** Auditorium, Auditorium | **Convener:** Andrew Norman

14:00 - 14:15

Running ATLAS workloads within massively parallel distributed applications using Athena Multi-Process framework (AthenaMP)

Speaker

Vakho Tsulaia

14:15 - 14:30

A New Petabyte-scale Data Derivation Framework for ATLAS

Speaker

James Catmore

14:30 - 14:45

Requirements for a Next Generation Framework: ATLAS Experience

Speaker

Dr Sami Kama

14:45 - 15:00

Development of a Next Generation Concurrent Framework for the ATLAS Experiment

Speaker

Charles Leggett

15:00 - 15:15

Using the CMS Threaded Framework In A Production Environment

Speaker

Dr Christopher Jones

15:15 - 15:30

New developments in the FairRoot framework

Speaker

Dr Florian Uhlig

15:30 - 15:45

ALFA: The new ALICE-FAIR software framework

Speaker

Dr Mohammad Al-Turany

15:45 - 16:00

Physics Analysis Software Framework for Belle II

Speaker

marko staric

4:00 PM

4:30 PM

Track 2 Session: #4 (Simulation)

Session | **Location:** Auditorium, Auditorium | **Convener:** Andrea Dell'Acqua

16:30 - 16:45

Geant4 Version 10 Series

Speaker

Dr Makoto Asai

16:45 - 17:00

Geant4 VMC 3.0

Speaker

Ivana Hrivnacova

17:00 - 17:15 slic : A full-featured Geant4 simulation program**Speaker**

Norman Anthony Graf

17:15 - 17:30 The GeantV project: preparing the future of simulation**Speaker**

Mr Federico Carminati

17:30 - 17:45 CMS Full Simulation for Run-II**Speaker**

David Lange

17:45 - 18:00 CMS Detector Description for Run II and Beyond**Speaker**

Gaelle Boudoul

18:00 - 18:15**Continuous Readout Simulation with FairRoot on the Example of the PANDA Experiment****Speaker**

Dr Tobias Stockmanns

18:15 - 18:30**Energy Reconstruction using Artificial Neural Networks and different analytic methods in a Highly Granularity Semi-Digital Hadronic Calorimeter.****Speaker**

Sameh Mannai

6:30 PM

Thu, April 16

9:00 AM

Track 2 Session: #5 (Analysis)

Session | **Location:** Auditorium, Auditorium | **Convener:** Andrew Norman

09:00 - 09:15 **The ATLAS Higgs Machine Learning Challenge**

Speaker

Glen Cowan

09:15 - 09:30

How the Monte Carlo production of a wide variety of different samples is centrally handled in the LHCb experiment.

Speaker

Gloria Corti

09:30 - 09:45 **The Library Event Matching classifier for ν_e events in NOvA**

Speaker

Dominick Rocco

09:45 - 10:00

Interpolation between multi-dimensional histograms using a new non-linear moment morphing method

Speaker

Stefan Gadatsch

10:00 - 10:15 **CosmoSIS: a system for MC parameter estimation**

Speaker

Alessandro Manzotti

10:15 - 10:30 **The Bayesian analysis toolkit: version 1.0 and beyond**

Speaker

Dr Frederik Beaujean

10:30 AM

11:00 AM

Track 2 Session: #6 (Tools)

Session | **Location:** Auditorium, Auditorium | **Convener:** Elizabeth Sexton-Kennedy

11:00 - 11:15 **Using R in ROOT with the ROOT-R package**

Speaker

Lorenzo Moneta

11:15 - 11:30 **HistFitter: a flexible framework for statistical data analysis**

Speaker

Geert Jan Besjes

11:30 - 11:45 **Accelerating Scientific Analysis with SciDB**

Speaker

Dr Lisa Gerhardt

11:45 - 12:00

DDG4 A Simulation Framework using the DD4hep Detector Description Toolkit

Speaker

Markus Frank

12:00 - 12:15

BESIII Physics Data Storing and Processing on HBase and MapReduce

Speaker

Ms Xiaofeng LEI

12:15 - 12:30

Breaking the Silos: The art Documentation Suite

Speaker

Robert Kutschke

12:30 PM