Session Program

21–25 Aug 2017

ACAT 2017

Poster Session

University of Washington, Seattle, Alder Hall

Tuesday 22 August

16:00

Poster Session: Poster Session and Coffee Break

Poster Session | **Location:** Alder Hall, The Commons

Tools for Trigger Rate Monitoring at CMS

Speaker
Geoffrey Nathan Smith

ATLAS BigPanDA Monitoring

Speaker
Siarhei Padolski

Data Knowledge Base for HENP Scientific Collaborations

Speaker
Siarhei Padolski

Experience with SPLUNK for archiving and visualization of operational data in ATLAS TDAQ system

Speaker
Andrei Kazarov

Upgrade of the YARR DAQ system for the ATLAS Phase-II Pixel detector readout chip

Speaker
Nikola Lazar Whallon

Alignment and Calibration Framework for the Belle II detector

Speaker
Mr Jakub Kandra

A scalable new mechanism to store and serve the ATLAS detector description through a REST web API

Speaker
Ilija Vukotic

Speeding up experiments software with VecCore, a portable SIMD library

Speaker
Guilherme Amadio

a loosely coupled scalable cloud infrastructure

Speaker
Mr Tao Cui

Improving Science Yield for NASA Swift with Automated Planning Technologies.

Speaker
Aaron Tohuvavohu

Virtualization of the ATLAS software environment on a shared HPC system

Speaker
Anton Josef Gamel

Global heterogeneous resource harvesting: the next-generation PanDA pilot for ATLAS

Speaker
Dr Ruslan Mashinistov

The ALICE O2 common driver for the C-RORC and CRU readout cards

Speaker
Pascal Boeschoten

A federated Xrootd cache

Speaker
Edgar Fajardo Hernandez

Networking requirements for Tier 2 sites

Speaker
Roger Jones

Multi-core supports in JUNO distributed computing

Speaker
Dr xiaomei zhang

Federating distributed storage for clouds in ATLAS

Speaker
Frank Berghaus

A Conditions Data Management System for HEP Experiments

Speaker
Paul James Laycock

Belle II Conditions Database Interface

Speaker
Martin Ritter

Implementing the Belle II Conditions Database using Industry-Standard Tools

Speaker
Lynn Wood

An ATLAS distributed computing architecture for HL-LHC

Speaker
Simone Campana

Mastering Opportunistic Computing Resources for HEP

Speaker
Matthias Jochen Schnepf

Opportunistic data locality for HEP analysis workflows

Speaker
Christoph Heidecker

The ATLAS Event Index: The Architecture of the Core Engine

Speaker
Julius Hrivnac

Performance of the ATLAS Tau Trigger in Run 2

Speaker
Mariel Pettee

The ATLAS Trigger Simulation with Legacy Software

Speaker
Adam Edward Barton

Deep Learning Method for Inferring Cause of Data Anomalies

Speaker
Fedor Ratnikov

High-statistics and GPU-accelerated data analysis in IceCube

Speaker
Dr Philipp Eller

Real-time alignment and reconstruction: performance and recent developments at the LHCb experiment

Speaker
Michael David Sokoloff

Performance studies of GooFit on GPUs versus RooFit on CPUs while estimating the global statistical significance of a new physical signal

Speaker
Dr Alexis Pompili

Gradient reversal for MC/real data calibration

Speaker
Andrey Ustyuzhanin

Dynamic sharing of tape drives accessing scientific data

Speaker
Enrico Fattibene

16:45

Thursday 24 August

16:00

Poster Session: Poster Session and Coffee Break

Poster Session | **Location:** Alder Hall, The Commons

Making Containers Lazy With Docker and CernVM-FS

Speaker
Nikola Hardi

Parallel Random Number Generation for SIMD/SIMT

Speaker
Soon Yung Jun

Parallelized JUNO simulation software based on SNiPER

Speaker
Dr Tao Lin

Using containers with ATLAS offline software

Speaker
Marcelo Vogel

Optimizing ROOT I/O for Analysis

Speaker
Brian Paul Bockelman

Applications of A-Common-Tracking-Software (ACTS) in the Future Circular Collider Design Study

Speaker
Valentin Volkl

Designing and prototyping the control system for the Cherenkov Telescope Array

Speaker
Dr Igor Oya

Test Management Framework for the Data Acquisition of the ATLAS Experiment

Speaker
Andrei Kazarov

The ATLAS Data Management System Rucio: Supporting LHC Run-2 and beyond

Speaker
Simone Campana

Shared I/O components for the ATLAS multi-processing framework

Speaker
Vakho Tsulaia

Machine-Learning techniques for electro-magnetic showers identification in OPERA datasets

Speaker
Andrey Ustyuzhanin

Present and future of PanDA WMS integration with Titan supercomputer at OLCF

Speaker
Dr Siarhei Padolski

Predictive analytics tools to adjust and monitor performance metrics for the ATLAS Production System

Speaker
Siarhei Padolski

Update of BESIII Event Display System

Speaker
Ms Shuhui Huang

A study on the applicability of Recommender Systems for the Production and Distributed Analysis system PanDA of the ATLAS Experiment

Speaker
Mikhail Titov

The Simulation Library of the Belle II Software

Speaker
Doris Yangsoo Kim

Computer simulation on homogeneity testing for weighted data sets used in HEP

Speaker
Mr Petr Bouř

Muon g-2 reconstruction and analysis framework

Speaker
Dr Kim Siang Khaw

Weakly Supervised Classifiers in High Energy Physics

Speaker
Lucio Dery

CODE-RADE a user centric software delivery system for science

Speaker
Sean Murray

Machine Learning based global particle identification algorithms at LHCb experiment

Speakers
Fedor Ratnikov, Fedor Ratnikov

Parallelisation and Vectorisation of ROOT Fitting classes

Speaker
Xavier Valls Pla

Hydra: A framework for data analysis in massively parallel platforms

Speaker
Antonio Augusto Alves Junior

Striped Data Server for Scalable Parallel Data Analysis

Speakers
Mr Igor Mandrichenko, Igor Vasilyevich Mandrichenko

Event reconstruction and simulation in PandaRoot for the PANDA experiment

Speaker
Dominik Steinschaden

Solving the Signal-Versus-Background Classification Problem Using Neural Network

Speaker
Ms Rui Li

Robust circle reconstruction by a modified Riemann fit

Speaker
Rudolf Fruhwirth

16:45

Friday 25 August

11:00

Poster Session: Poster Lightning talks

Poster Session | **Location:** Alder Hall, Auditorium | **Convener:** Gordon Watts

Parllized JUNO simulation software based on SNIPER

Speaker
Tao Lin

High Statistics and GPU Accerated Data Analysis in ICECUBE

Speaker
Dr Philipp Eller

Speeding up Software with VECCORE, a portable SIMD library

Speaker
Guilherme Amadio

Paralleization and vectorization of ROOT fitting classes

Speaker
Xavier Valls Pla

Awards!

Speaker
Gordon Watts

11:40