

Session Program

Aug 21 - 25, 2017



ACAT 2017

Poster Session

University of Washington, Seattle, Alder Hall

Mon, August 21

4:00 PM

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

4:45 PM

Wed, August 23

4:00 PM

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

4:45 PM

Thu, August 24

11:00 AM

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 AM