Session Program

28 August 2019

CERN-HSF GSoC 2019 student lightning reports

Student lightning talks

CERN, 40/R-C10

Wednesday 28 August

16:10

Student lightning talks

Session | **Location:** CERN, 40/R-C10 | **Conveners:** Antoine Perus, Javier Cervantes Villanueva, Andrei Gheata

16:10–16:13 Generating Hessians and Jacobians via CLAD

Speaker
Jack Qiu

16:13–16:16
Alert Redistribution System for Fink : an Apache Spark based Broker for Astronomy

Speaker
Abhishek Chauhan

16:16–16:19 Package manager for Jupyter Notebook / SWAN

Speaker
Akash Ravi

16:19–16:22
Novel Applications of Zstandard (ZSTD) compression algorithm to ROOT

Speaker
Alfonso Castaño

16:22–16:25 Building a Python-based Analysis tool for AWAKE experiment

Speaker
Aman Singh Thakur

16:25–16:28 Distributed Computing Resources: aggregation, usage, monitoring

Speaker
Amarnath Karthi

16:28–16:31 Implement a GlobalModuleIndex in ROOT and Cling

Speaker
Arpitha Raghunandan

16:31–16:34 VectorFlow

Speaker
Arturo Garza Rodriguez

16:34–16:37 Generative Adversarial Networks for Particle Physics Applications

Speaker
Ashish Kshirsagar

16:37–16:40 Kalman Filter in Rust

Speaker
Brooks Karlik

16:40–16:43 CERN Awkward Array Project

Speaker

Charles Escott

16:43–16:46

Real-time conditions data distribution for the Online data processing of the ALICE experiment

Speaker

Daniel Dosaru

16:46–16:49 **Testing framework for Jupyter notebooks**

Speaker

Divya Rani

16:49–16:52 **Experiment independent display framework and data format**

Speaker

Emilio Cortina Labra

16:52–16:55

Multi-thread safe resource monitoring infrastructure for the ATLAS experiment

Speaker

Hasan Öztürk

16:55–16:58 **Molr - Operational**

Speaker

Himanshu Sahu

16:58–17:01

Create a user interface for Ganga that allows for the execution of tasks inside user specified virtual machines.

Speaker

Inzamam Iqbal

17:01–17:04

Optimisation of the Ganga toolkit in terms of memory consumption and persistent storage.

Speaker

Ishan Rai

17:04–17:07 **Tools for Understanding CMS Data Access**

Speaker

Jonathan Guiang

17:07–17:10 **CERNBox: Bring Your Own Application**

Speaker

Mohit Tyagi

17:10–17:13 **3D-ObjectDetection**

Speaker

Pierre Ouannes

17:13–17:16 **SIMT to SPMD Translation**

Speaker

Pradeep Kumar S

17:16–17:19 **Monitoring DIRAC Components**

Speaker

Pujan Mehta

17:19–17:22 **Rucio - Exascale Data Management**

Speaker

Ruturaj Gujar

17:22–17:25

Creation and usage of disposable Spark on Kubernetes cluster from SWAN notebook

Speaker

Sahil Jajodia

17:25–17:28

Implementation and Optimisation in ACTS of algorithms exposed in TrackML challenge

Speaker

Sharad Chitlangia

17:28–17:31 **Proposal for the Implementation of an HDF5 IO Layer for PODIO**

Speaker

Shrey Aryan

17:31–17:34 **Python Components for the SIMPLE Grid Framework**

Speaker

Sneha Sinha

17:34–17:37 **Development of LSTM and GRU layers in TMVA**

Speaker

Surya S Dwivedi

17:37–17:40 **Implement Event based Seeding and Multi-Threading**

Speaker

Mohamed Moanis Ali

17:40