

Session Program

May 17 - 21, 2021

**25th International Conference on Computing
in High Energy & Nuclear Physics**

Software

Tue, May 18

10:50 AM

Software: Tue AM

Session | **Conveners:** David Bouvet, Benjamin Krikler

10:50 - 11:03 AM

Daisy: Data analysis integrated software system for X-ray experiments

Speaker

Haolai Tian

11:03 - 11:16 AM

Readable and efficient HEP data analysis with bamboo

Speaker

Pieter David

11:16 - 11:29 AM

Recent advances in ADL, CutLang and adl2tnm

Speaker

Gokhan Unel

11:29 - 11:42 AM

ALICE Run 3 Analysis Framework

Speaker

Anton Alkin

11:42 - 11:55 AM

Analysis of heavy-flavour particles in ALICE with the O2 analysis framework

Speaker

Vit Kucera

11:55 AM - 12:08 PM

FuncADL: Functional Analysis Description Language

Speaker

Mason Proffitt

12:08 PM

3:00 PM

Software: Tue PM

Session | **Conveners:** Enrico Guiraud, Teng Jian Khoo

3:00 - 3:13 PM

The GeoModel tool suite for detector description

Speaker

Vakho Tsulaia

3:26 - 3:39 PM

Counter-based pseudorandom number generators for CORSIKA 8: A multi-thread friendly approach

Speaker

Dr Antonio Augusto Alves Junior

3:39 - 3:52 PM

CAD support and new developments in DD4hep

Speaker

Markus Frank

3:52 - 4:05 PM

Key4hep: Status and Plans

Speaker

Andre Sailer

4:05 - 4:18 PM

Preservation through modernisation: The software of the H1 experiment at HERA

Speaker

Daniel Britzger

4:20 PM

Wed, May 19

10:50 AM

Software: Wed AM

Session | Conveners: Stefan Roiser, Enrico Guiraud

10:50 - 11:03 AM **BAT. jl — A Julia-based tool for Bayesian inference**

Speaker

Vasyl Hafych

11:03 - 11:16 AM **ATLAS in-file metadata and multi-threaded processing**

Speaker

Frank Berghaus

11:16 - 11:29 AM

Software framework for the Super Charm-Tau factory detector project

Speaker

Anastasiia Zhadan

11:29 - 11:42 AM **Exploring the virtues of XRootD5: Declarative API**

Speaker

Michal Kamil Simon

11:42 - 11:55 AM **Building and steering binned template fits with cabinetry**

Speaker

Alexander Held

11:55 AM - 12:08 PM

CORSIKA 8 -- A novel high-performance computing tool for particle cascade Monte Carlo simulations

Speaker

Ralf Ulrich

12:15 PM

5:40 PM

Software: Wed PM

Session | Conveners: Teng Jian Khoo, Luisa Arrabito

5:40 - 5:53 PM

Grid-based minimization at scale: Feldman-Cousins corrections for light sterile neutrino search

Speaker

Marianette Wospakrik

5:53 - 6:06 PM **Laurelin: Java-native ROOT I/O for Apache Spark**

Speaker

Andrew Malone Melo

6:06 - 6:19 PM

Fine-grained data caching approaches to speedup a distributed RDataFrame analysis

Speaker

Mr Vincenzo Eduardo Padulano

6:19 - 6:32 PM

Columnar data analysis with ATLAS analysis formats

Speaker

Nikolai Hartmann

6:32 - 6:45 PM

AwkwardForth: accelerating Uproot with an internal DSL

Speaker

Jim Pivarski

6:45 - 6:58 PM

hep_tables: Heterogeneous Array Programming for HEP

Speaker

Gordon Watts

7:00 PM