



# CHEP 2018 Conference, Sofia, Bulgaria

## Monday, July 9, 2018

### T5 - Software development: S1 - Hall 3 (11:00 AM - 12:30 PM)

-Conveners: Patricia Mendez Lorenzo

time	[id] title	presenter
11:00 AM	[454] ALFA: ALICE-FAIR new message queuing based framework	AL-TURANY, Mohammad
11:15 AM	[249] The ALICE Analysis Framework for LHC Run 3	Dr BERZANO, Dario
11:30 AM	[429] From Catalogs to Cosmology: An Automated Weak Gravitational Lensing Analysis Pipeline	VAANDERING, Eric
11:45 AM	[475] Software development for the NICA experiments: MpdRoot & BmnRoot	GERTSENBERGER, Konstantin
12:00 PM	[157] ATLAS Technical Coordination Expert System	ASENSI TORTAJADA, Ignacio
12:15 PM	[190] The AMI (ATLAS Metadata Interface) 2.0 metadata ecosystem: new design principles and features	ODIER, Jerome

### T5 - Software development: S2 - Hall 3 (2:00 PM - 4:00 PM)

-Conveners: Barthelemy Von Haller

time	[id] title	presenter
2:00 PM	[488] A tale of two programs: driving innovation in HEP computing	CARMINATI, Federico
2:15 PM	[551] Software training for the next generation of Physicists: joint experience of LHCb and ALICE	BERZANO, Dario BURR, Chris
2:30 PM	[388] Exploring polyglot software frameworks in ALICE with FairMQ and fer	Dr BINET, Sebastien
2:45 PM	[298] HEPCon - A Cross-Platform Mobile Application for HEP Events	Mr VASILEV, Martin
3:00 PM	[369] Application extensibility and customization - Indico's case	FERREIRA, Pedro
3:15 PM	[351] Extending ROOT through Modules	SHADURA, Oksana
3:30 PM	[496] A Python upgrade to the GooFit package for parallel fitting	SCHREINER, Henry Fredrick
3:45 PM	[372] Vectorization of ROOT Mathematical Libraries	MONETA, Lorenzo

## Tuesday, July 10, 2018

### T5 - Software development: S3 - Concurrency - Hall 3 (11:00 AM - 12:30 PM)

-Conveners: **Barthelemy Von Haller**

time	[id] title	presenter
11:00 AM	[116] I/O in the ATLAS multithreaded framework	CRANSHAW, Jack
11:15 AM	[525] Hydra: A framework for data analysis in massively parallel platforms	ALVES JUNIOR, Antonio Augusto
11:30 AM	[346] Supporting Future HEP Data Processing with a Parallelised ROOT	PIPARO, Danilo
11:45 AM	[293] Implementing Concurrent Non-Event Transitions in CMS	JONES, Christopher
12:00 PM	[347] Writing ROOT Data in Parallel with TBufferMerger	AMADIO, Guilherme
12:15 PM	[657] A modular software framework for test-beam data analysis	RACHWAL, Bartlomiej

### T5 - Software development: S4 - Frameworks - Hall 3 (2:00 PM - 4:00 PM)

-Conveners: **Patricia Mendez Lorenzo**

time	[id] title	presenter
2:00 PM	[368] The core software framework for the LHCb Upgrade	PONCE, Sebastien
2:15 PM	[328] Evolution of the ALICE Software Framework for LHC Run 3	EULISSE, Giulio
2:30 PM	[115] The ATLAS multithreaded offline framework	SNYDER, Scott
2:45 PM	[576] GNA: new framework for statistical data analysis	Ms FATKINA, Anna
3:00 PM	[37] Physics data processing with micro-services	GYURJYAN, Vardan
3:15 PM	[112] A generic data quality monitoring framework for HEP	ETE, Remi
3:30 PM	[448] Performance optimization of the air shower simulation code for the Cherenkov Telescope Array	BREGEON, Johan
3:45 PM	[391] Floating-point profiling of ACTS using Verrou	GRASLAND, Hadrien Benjamin LATHUILIÈRE, Bruno

# Wednesday, July 11, 2018

## **T5 - Software development: S5.1 Interactive Frameworks - Hall 3 (11:30 AM - 12:00 PM)**

-Conveners: Maiken Pedersen

time	[id] title	presenter
11:30 AM	[349] Beautiful, simple and remote ROOT graphics and GUI	LINEV, Serguei
11:45 AM	[428] Exploring server/web-client event display for CMS	MRAK TADEL, Alja

## **T5 - Software development: S5.2 - Software Packaging, Build Systems - Part 1 - Hall 3 (12:00 PM - 1:00 PM)**

-Conveners: Maiken Pedersen

time	[id] title	presenter
12:00 PM	[217] Software Packaging and Deployment in HEP	MORGAN, Benjamin
12:15 PM	[198] Spack-Based Packaging and Development for HEP Experiments	KNOEPFEL, Kyle
12:30 PM	[166] IceCube CVMFS Software and Spack	SCHULTZ, David
12:45 PM	[319] dCache as open-source project showcase for education	Mr MKRTCHYAN, Tigran

# Thursday, July 12, 2018

## T5 - Software development: S6.1 - Software Packaging, Build Systems - Part 2 - Hall 3 (11:00 AM - 11:45 AM)

-Conveners: Maiken Pedersen

time	[id] title	presenter
11:00 AM	[375] Bulding, testing and distributing common software for the LHC experiments	MENDEZ LORENZO, Patricia
11:15 AM	[68] Testing of complex, large-scale distributed storage systems: a CERN disk storage case study	MANZI, Andrea
11:30 AM	[377] Robust Linux Binaries	AMADIO, Guilherme

## T5 - Software development: S6.2 - Continuous Integration - Hall 3 (11:45 AM - 12:30 PM)

-Conveners: Maiken Pedersen

time	[id] title	presenter
11:45 AM	[206] LHCb continuous integration and deployment system: a message based approach	CHITIC, Stefan-Gabriel
12:00 PM	[267] Monitoring LHCb Trigger developments using nightly integration tests and a new interactive web UI	Dr CURRIE, Robert Andrew
12:15 PM	[269] Continuous Integration service at Fermilab	Dr DI BENEDETTO, Vito

## T5 - Software development: S7 - Performance, Profiling, Code Optimization - Hall 3 (2:00 PM - 3:30 PM)

-Conveners: Patricia Mendez Lorenzo

time	[id] title	presenter
2:00 PM	[246] Retroactive sustainability improvements in the MERLIN particle tracking code	Dr ROWAN, Scott
2:15 PM	[502] Data mining techniques for software quality prediction in open source software: an initial assessment	CANAPARO, Marco
2:30 PM	[528] Porting the LHCb Stack from x86 (Intel) to aarch64 (ARM)	PROMBERGER, Laura
2:45 PM	[284] Implementation of Feldman-Cousins correction and oscillation calculations in the HPC environment for the NOvA and DUNE Experiments	SOUSA, Alexandre
3:00 PM	[531] The Event Buffer Management for MT-SNiPER	ZOU, Jiaheng
3:15 PM	[557] A plugin-based approach to data analysis for the AMS experiment on the ISS	FORMATO, Valerio