

26TH INTERNATIONAL CONFERENCE ON COMPUTING IN HIGH ENERGY & NUCLEAR PHYSICS (CHEP2023)

Monday, May 8, 2023

Track 7 - Facilities and Virtualization: Dynamic Provisioning and Anything-As-A-Service - Marriott Ballroom IV (11:00 AM - 12:30 PM)

-Conveners: Tomoe Kishimoto; Derek Weitzel

| time | [id] title | presenter |
|-------|---|---------------------------------------|
| 11:00 | [M11] Securing an Open and Trustworthy Ecosystem for Research Infrastructure and Applications (SOTERIA) | BOCKELMAN, Brian |
| 11:15 | [M13] Modular toolsets for integrating HPC clusters in experiment control systems | Dr AL-TURANY, Mohammad |
| 11:30 | [M17] Federated Heterogenous Compute and Storage Infrastructure for the PUNCH4NFDI Consortium | Dr GIFFELS, Manuel |
| 11:45 | [M10] Progress on cloud native solution of Machine Learning as Service for HEP | GIOMMI, Luca |
| 12:00 | [P1] Demand-driven provisioning of Kubernetes-like resource in OSG | ANDRIJAUSKAS, Fabio SCHULTZ, David |

Track 7 - Facilities and Virtualization: Analysis Facilities - Marriott Ballroom IV (2:00 PM - 3:30 PM)

-Conveners: Tomoe Kishimoto; Derek Weitzel

| time | [id] title | presenter |
|--------|---|--|
| 2:00 P | [M67] Experience deploying an analysis facility for the Rubin Observatory's Legacy Survey of Space and Time (LSST) data | MAINETTI, Gabriele |
| 2:15 P | [M57] The Spanish CMS Analysis Facility at CIEMAT | Dr DELGADO PERIS, Antonio Dr PÉREZ-CALERO YZQUIERDO, Antonio |
| 2:30 P | [M54] The Creation and Evolution of the US ATLAS Shared Analysis Facilities | RIND, Ofer |
| 2:45 P | [M7] Toward Ten-Minute Turnaround in CMS Data Analysis: The View from Notre Dame | LAWRENCE, John |
| 3:00 P | [M34] Data handling of CYGNO experiment using INFN-Cloud solution | Dr MAZZITELLI, Giovanni |
| 3:15 P | [M18] I/O performance studies of analysis workloads on production and dedicated resources at CERN | SCIABÀ, Andrea |

Tuesday, May 9, 2023**Track 7 - Facilities and Virtualization: Computing Centre Infrastructure - Marriott Ballroom IV (11:00 AM - 12:30 PM)****-Conveners: Arne Wiebalck; Derek Weitzel**

| time | [id] title | presenter |
|-------|--|------------------------|
| 11:00 | A306 [A306] Finalizing Transition to the New Data Center at BNL | Mr ZAYTSEV, Alexandr |
| 11:15 | A305 [A305] Measuring Carbon: Net-Zero and the IRISCAST Project | OWEN, Alex |
| 11:30 | A411 [A411] The IT infrastructure of the LUX-ZEPLIN experiment at SURF | Dr LUITZ, Steffen |
| 11:45 | A308 [A308] Estimating the environmental impact of a large Tier 2 | WHITEHOUSE, Dan |
| 12:00 | P302 [P302] Migrating the INFN-CNAF datacenter to the Bologna Tecnopolo - a status update | Dr PELLEGRINO, Carmelo |
| 12:15 | P100 [P100] Data Centre Refurbishment with the aim of Energy Saving and Achieving Carbon Net Zero | TRAYNOR, Daniel |

Track 7 - Facilities and Virtualization: Computing Centre Infrastructure and Cloud - Marriott Ballroom IV (2:00 PM - 3:30 PM)**-Conveners: Arne Wiebalck; Derek Weitzel**

| time | [id] title | presenter |
|--------|---|-----------------------------------|
| 2:00 P | M120 [M120] HEPscore: a new benchmark for WLCG compute resources | Dr SOBIE, Randall |
| 2:15 P | M49 [M49] Using CRIU for checkpointing batch jobs | ANDRIJAUSKAS, Fabio |
| 2:30 P | M23 [M23] Preparing for a new Data Center: Automated Management of a 10'000 node bare-metal fleet in CERN IT | Dr WIEBALCK, Arne |
| 2:45 P | M40 [M40] A grid site reimaged: building a fully cloud-native ATLAS T2 on Kubernetes | TAYLOR, Ryan Paul |
| 3:00 P | M72 [M72] Accelerating science: the usage of commercial clouds in ATLAS distributed computing | MEGINO, Fernando Harald Barreiro |
| 3:15 P | M66 [M66] Financial Case Study on the Use of Cloud Resources in HEP Computing | MISAWA, Shigeki LAURET, Jerome |

Track 7 - Facilities and Virtualization: Networking - Marriott Ballroom IV (4:30 PM - 6:00 PM)**-Conveners: Derek Weitzel; Tomoe Kishimoto**

| time | [id] title | presenter |
|--------|---|----------------------|
| 4:30 P | M88 [M88] The Global Network Advancement Group: A Next Generation System for the LHC and Data Intensive Sciences | NEWMAN, Harvey |
| 4:45 P | M22 [M22] NOTED: An intelligent network controller to improve the throughput of large data transfers in File Transfer Services by handling dynamic circuits | MISA MOREIRA, Carmen |
| 5:00 P | M31 [M31] Experiences in deploying in-network data caches | KISSEL, Ezra |
| 5:15 P | M0 [M0] Complete End-to-End Network Path Control for Scientific Communities with QoS Capabilities | GUOK, Chin |
| 5:30 P | M23 [M23] P4flow: A software-defined networking approach with programmable switches for accounting and forwarding IPv6 packets with user-defined flow label tags | MISA MOREIRA, Carmen |

5:45 PM [13] Apptainer Without Setuid

DYKSTRA, Dave

Thursday, May 11, 2023**Track 7 - Facilities and Virtualization: HPC and Deployment - Marriott Ballroom IV (11:15 AM - 12:45 PM)****-Conveners: Arne Wiebalck; Tomoe Kishimoto**

| time | [id] title | presenter |
|-------|---|--------------------------|
| 11:15 | A15 [A15] Application of a supercomputer Tianhe-II in BESIII | HU, Biying |
| 11:30 | A16 [A16] Integration of the Barcelona Supercomputing Center for CMS computing: towards large scale production | Dr JOSEP, Flix |
| 11:45 | P14 [P14] Commissioning of US HPC GPU resources for CMS Data Reconstruction | HUFNAGEL, Dirk |
| 12:00 | P11 [P11] Results from Large-scale HPC deployment of Scalable CyberInfrastructure for Artificial Intelligence and Likelihood Free Inference (SCAILFIN) | Dr HURTADO ANAMPA, Kenyi |
| 12:15 | P13 [P13] Lifecycle Management, Business Continuity and Disaster Recovery Planning for the LHCb Experiment Control System Infrastructure | CIFRA, Pierfrancesco |
| 12:30 | P19 [P19] Optimization of opportunistic utilization of the ATLAS High-Level Trigger farm for LHC Run3 | GLUSHKOV, Ivan |

Track 7 - Facilities and Virtualization: Deployment, Management and Monitoring - Marriott Ballroom IV (2:00 PM - 3:30 PM)**-Conveners: Tomoe Kishimoto; Arne Wiebalck**

| time | [id] title | presenter |
|------|---|------------------------|
| 2:00 | M1 [M1] Implementation of New Security Features in the CMSWEB Kubernetes Cluster at CERN | MASCHERONI, Marco |
| 2:15 | M94 [M94] Adapting GitOps to manage Helmholtz Cloud services at DESY | BEERMANN, Thomas |
| 2:30 | M94 [M94] Architecting the OpenSearch service at CERN | PAPADOPOULOS, Sokratis |
| 2:45 | M12 [M12] Artificial Intelligence for improved facilities operation | JAIN, Milan |
| 3:00 | M73 [M73] Management of Batch worker node lifecycle and maintenance at CERN with BrainSlug (our in-house state-manager daemon), Rundeck and StackStorm | Mr JONES, Ben |
| 3:15 | M12 [M12] Overcoming obstacles to IPv6 on WLCG | KELSEY, David |