

# **CHEP 2018 Conference, Sofia, Bulgaria**

**Monday 9 July 2018 - Friday 13 July 2018**

**Sofia, Bulgaria**

## **Scientific Programme**

The CHEP conferences address the computing, networking and software issues for the world's leading data-intensive science experiments that currently analyze hundreds of petabytes of data using worldwide computing resources. The Conference is a major event in the area (~500 participants), featuring plenary sessions, parallel sections and poster presentations; it publishes peer-reviewed Proceedings. The parallel sessions are split into 8 separate tracks, listed below

## Track 1 - Online computing

**Keywords:** DAQ; HLT; trigger and trigger-less acquisition; data calibration; online reconstruction; filtering and compression; event building; configuration and access controls; detector control systems.

## Track 2 – Offline computing

**Keywords:** Event generation; simulation and reconstruction; detector geometries; data classification; visualization and data presentation; outreach.

## Track 3 – Distributed computing

**Keywords:** Computing models; Grid middleware; monitoring and accounting frameworks; security models and tools; distributed workload; HPC and supercomputers.

## Track 4 - Data Handling

**Keywords:** Storage management frameworks; data access protocols; object, metadata and event store systems; databases.

## Track 5 – Software development

**Keywords:** Software frameworks; software management, building, testing, quality assurance and distribution; programming techniques and tools.

## Track 6 – Machine learning and physics analysis

**Keywords:** Algorithms for physics object identification; machine learning systems and tools; data and analysis preservation.

## Track 7 – Clouds, virtualization and containers

**Keywords:** Cloud, virtual machines and container technologies; anything-as-a-service; private and commercial clouds.

## Track 8 – Networks and facilities

**Keywords:** LAN and WAN; overlay, private and virtual networks; monitoring and management tools; computing centre infrastructure, management and monitoring.

## Posters in all tracks

For all authors of posters: Please note that the posters should be in **A0 format** and will be exhibited in the poster section of CHEP from the start to the end of the conference