



Contribution ID: 65

Type: **not specified**

CMS Software and Computing: Ready for Run 2

Thursday, August 6, 2015 2:00 PM (13 minutes)

In Run 1 of the Large Hadron Collider, software and computing was a strategic strength of the Compact Muon Solenoid experiment. The timely processing of data and simulation samples and the excellent performance of the reconstruction algorithms played an important role in the preparation of the full suite of searches used for the observation of the Higgs boson in 2012. In Run 2, the LHC will run at higher intensities and CMS will record data at a higher trigger rate. These new running conditions will provide new challenges for the software and computing systems. Over the two years of Long Shutdown 1, CMS has built upon the successes of Run 1 to improve the software and computing to meet these challenges. In this presentation we will describe the new features in software and computing that will once again put CMS in a position of physics leadership.

Oral or Poster Presentation

Oral

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Session Classification: Accelerators, Detectors, Computing

Track Classification: Computing