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Computing Challenges at the Large Hadron Collider ^[1]

Date published:

19 Feb 2018

Outlet:

insidehpc.com

CERN's Maria Girona gave this talk at the HiPEAC 2018 conference in Manchester. The Large Hadron Collider (LHC) is one of the largest and most complicated scientific apparatus ever constructed. In this keynote, I will discuss the challenges of capturing, storing and processing the large volumes of data generated at CERN. I will also discuss how these challenges will evolve towards the High-Luminosity Large Hadron Collider (HL-LHC), the upgrade programme scheduled to begin taking data in 2026 and to run into the 2030s, generating some 30 times more data than the LHC has currently produced.

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