## **EPS-HEP2019**



Contribution ID: 477

Type: Parallel talk

## Design and performance of the LHCb trigger and full real-time reconstruction in Run 2 of the LHC

Friday 12 July 2019 12:15 (15 minutes)

The LHCb collaboration has redesigned its trigger to enable the full offline detector reconstruction to be performed in real time. Together with the real-time alignment and calibration of the detector, and a software infrastructure for persisting the high-level physics objects produced during real-time processing, this redesign enabled the widespread deployment of real-time analysis during Run 2. We will describe the design of the Run 2 trigger and real-time reconstruction, and present data-driven performance measurements for a representative sample of LHCb's physics programme.

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Track Classification: Detector R&D and Data Handling