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Offline Software for the CMS Level-1 Trigger

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The offline software for the CMS Leve-1 trigger provides a reliable bitwise emulation of the high-speed custom FPGA-based hardware at the foundation of the CMS data acquisition system. The staged upgrade of the trigger system requires flexible software that accurately reproduces the system at each stage using recorded running conditions. The high intensity of the upgraded LHC necessitates new advanced algorithms which reconstuct physics objects in real time. We'll discuss the status and performance of the upgraded trigger software.

Tertiary Keyword (Optional)

Simulation

Secondary Keyword (Optional)

DAQ

Primary Keyword (Mandatory)

Trigger

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