



Commissioning of CMS Forward Hadron Calorimeters with Upgraded Multi-anode PMTs and uTCA Readout

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The high flux of charged particle interacting with the CMS Forward Hadron (HF) Calorimeter PMT windows introduced a significant background for the trigger and offline. During Long Shutdown 1, all of the original PMTs were replaced with multi-anode, thin window photomultipliers. At the same time, the back-end readout system was upgrade to uTCA readout. The experience with commissioning and calibrating the HF front-end is described as well as the online operational challenges of the uTCA system. The HF upgrade was successful and provided quality data for the 2015 data-analysis at 13 TeV.

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