38th INTERNATIONAL CONFERENCE
ON HIGH ENERGY PHYSICS
AUGUST 3 - 10, 2016
CHICAGO

Contribution ID: **190** Type: **Poster**

CMS Forward Pixel Upgrade Electronics and System Testing

Saturday 6 August 2016 18:00 (2 hours)

We will present results of electronics and system testing of the CMS forward pixel (FPIX) detector upgrade for Phase 1. The FPIX detector is comprised of four stand-alone half cylinders, each of which contains frontend readout electronic boards, power regulators, cables and fibers in addition to the active pixel modules. All of the components are undergoing rigorous testing and quality assurance before assembly into the half cylinders. Afterwards, we are performing full system tests on the completely assembled half cylinders, including calibrations at final operating temperatures, characterization of the realistic readout chain, and system grounding and noise studies. The results from all these tests will be discussed.

Author: WEBER, Hannsjorg (Fermi National Accelerator Lab. (US))

Presenter: WEBER, Hannsjorg (Fermi National Accelerator Lab. (US))

Session Classification: Poster Session

Track Classification: Detector: R&D and Performance