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Qualification of the modules for the Phase 1 upgrade of the CMS forward pixel detector[1] IRVING SANDOVAL GONZALEZ, University of Illinois at Chicago, CMS COLLABORATION — The innermost component of the Compact Muon Solenoid (CMS) detector, the silicon pixel tracker, will be replaced by a new device in early 2017 to cope with the significant increase in instantaneous luminosity expected for the remainder of Run 2 of the Large Hadron Collider. The upgraded detector is composed of two subcomponents: the barrel pixel (BPIX) and the forward pixel (FPIX). In this work, we describe the testing and calibration procedures that the FPIX detector subcomponents underwent as well as the quality assurance criteria used for selecting the best detector modules for the final installation.

[1]NSF

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