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[P09] Production, calibration and performance of the layer 1 replacement modules for the CMS pixel detector

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The layer 1 modules of the CMS pixel detector will be substituted with the new ones during long shutdown 2 in 2021. An improved readout chip is used to build these modules. Module production took place in 2019-2020.

In this poster we describe the module assembly, quality assurance and calibration procedures. Performance of the modules obtained in electrical tests under controlled temperature and humidity as well as under high X-rays irradiation will be presented.

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