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Commissioning of the CMS pixel barrel detector

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Summary

The CMS pixel barrel detector is a complicated system that consists of 768 modules, 1104 optical link channels connected to the 32 Front End Drivers (FEDs). In this talk the strategy and results from the commissioning of the complete readout chain will be presented. The general experience gained by operating the pixel barrel system, first at PSI and then after the connection to the final CMS data acquisition system, will be described. This includes hardware aspects, acquisition software, calibration tests and data analysis completed to ensure that pixel detector performs according to specifications.

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