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【388】 CMS Phase-1 pixel detector readiness for the next LHC Run

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The **CMS Phase-1 pixel detector** has been operated successfully during the course of the LHC Run 2, ended in 2018. In order to allow to maintain the excellent performance during Run 3 (starting in 2022), the innermost barrel layer has been replaced with new modules, assembled and tested at PSI during the LHC shutdown.

This contribution provides an overview of the CMS Phase-1 pixel detector, reports on the recent **replacement** of its **innermost layer**, and discusses the **commissioning and calibration** of the detector towards the imminent restart of operations.

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