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CMS operations for Run II: preparation and commissioning of the offline infrastructure (15' + 5')

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The restart of the LHC coincided with an intense activity for the CMS experiment. Both at the beginning of Run II in 2015 and the restart of operations in 2016, the collaboration was engaged in an extensive re-commissioning of the CMS data-taking operations. After the long stop, the detector was fully aligned and calibrated. Data streams were redesigned, to fit the priorities dictated by the physics program for 2015 and 2016. A new reconstruction software (both online and offline) was commissioned with early collisions and further developed during the year. A massive campaign of Monte Carlo production was launched, to assist physics analyses. This presentation reviews the main event of this commissioning journey and describes the status of CMS physics performances for 2016.

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