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Physics performance and fast turn around: the challenge of calibration and alignment at the CMS experiment during the LHC Run-II

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The CMS detector at the Large Hadron Collider (LHC) is a very complex apparatus with more than 70 million acquisition channels. To exploit its full physics potential, a very careful calibration of the various components, together with an optimal knowledge of their position in space, is essential. The CMS Collaboration has set up a powerful infrastructure to allow for the best knowledge of these conditions at any given moment. The quick turnaround of these workflows was proven crucial both for the algorithms performing the online event selection and for the ultimate resolution of the offline reconstruction of the physics objects. The contribution will report about the design and performance of these workflows during the operations of the 13TeV LHC RunII.

Primary author: DI GUIDA, Salvatore (Universita degli Studi Guglielmo Marconi (IT))

Presenter: DI GUIDA, Salvatore (Universita degli Studi Guglielmo Marconi (IT))

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