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Readiness of CMS Simulation towards LHC Startup

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The CMS simulation based on the Geant4 toolkit and the CMS object-oriented framework has been in production for more than three years and has delivered a total of more than 200 M physics events for the CMS Data Challenges and Physics Technical Design Report studies. The simulation software has been successfully ported to the new CMS Event-Data-Model based software framework and is used in understanding the data taken by CMS in test beams as well as in the Magnet Test and Cosmic Challenge. In this paper, we present the experience from years in physics production, the migration process to the new architecture, efforts towards robustness and performance of the simulation chain and different operational scenarios in terms of hit simulation, event mixing and digitization.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

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