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CMS upgrade perspectives

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After the discovery of the Higgs boson, the Large Hadron Collider will resume operations in 2015 at 13 TeV aiming to collect over 300 fb^{-1} by 2023, with design luminosity up to $2 \times 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$. The success of the following major machine upgrade, HL-LHC, planned to achieve considerably higher annual integrated luminosity to achieve 3000 fb^{-1} depends crucially on maintaining and improving the performance of the future CMS detector, under much more difficult operational conditions. An overview of the plans for CMS upgrades for HL-LHC will be presented.

Summary

Primary author(s) : MEYER, Arnd (RWTH Aachen University); PASTRONE, Nadia (INFN)

Presenter(s) : PASTRONE, Nadia (INFN)

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