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Prospects for standard model measurements at the High-Luminosity LHC with CMS

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The proposed upgrade of the LHC, the High-Luminosity LHC (HL-LHC) is expected to deliver data corresponding to a luminosity of up to 3 ab^{-1} under severe pileup conditions with up to 200 additional interactions per bunch crossing. The pileup effects are expected to be mitigated by upgraded detectors, which allow to study rare physics processes up to large rapidities, as well as precision standard model measurements that benefit significantly from the high luminosity. Studies are presented that show the potential of the upgraded CMS detector at the HL-LHC with respect to B physics, top-quark production, decay and properties, as well as with respect to the measurement of electroweak processes.

Experimental Collaboration

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