

Heavy flavour production at LHC

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The Large Hadron Collider (LHC) will open up a new era in high energy physics. The expected large cross sections for heavy-flavour production in proton-proton collisions at $\sqrt{s} = 14$ TeV will allow detailed studies of production mechanisms and an extensive test of QCD. Since charm and beauty has been proposed as a good probe to study hot QCD matter (the so-called Quark-Gluon Plasma), the understanding of the production mechanisms in elementary proton-proton collisions is of primary importance as reference for studies in heavy-ion collisions. In this talk, the heavy-flavour physics program of the ALICE, ATLAS and CMS experiments will be reviewed.

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