

Strangeness in Quark Matter 2019



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CMS upgrade plan for high-luminosity era and outlook on heavy-quark production in nuclear collisions

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The CMS Collaboration has a major detector upgrade plan during the long shutdown 3 (LS3) starting in 2019 to prepare the high-luminosity runs. It includes the new tracking system, the muon system, the electromagnetic and hadronic calorimeters, and the trigger system. This upgrade will significantly enhance the physics performance of the CMS detector for not only proton-proton collisions, but also heavy-ion collisions in high-luminosity environment. In this presentation we, firstly, give an overview of the CMS upgrade plan during LS3. Then, we present the impact of the detector upgrade to the various observables for heavy-ion physics, particularly for heavy-quark production, to better understand the interaction of quarks and gluons in hot, dense medium.

Collaboration name

CMS

Track

Upgrades and new experiments

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