

Strangeness in Quark Matter 2019



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LHCb fixed target results and prospects

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LHCb has the unique capability to study collisions of the LHC beams on fixed targets. Internal gas targets of helium, neon and argon have been used so far to collect samples corresponding to integrated luminosities up to 0.1 pb⁻¹. An upgraded target, allowing a wider choice of target gas species and to increase the gas density by up to two orders of magnitude, is going to be installed for the LHC Run 3. Results and prospects on open and hidden charm productions will be presented, which can provide crucial constraints on cold nuclear matter effects and nPDF at large x . These measurements, together with production of antiprotons and other light hadrons, are of great interest to cosmic-ray physics as well.

Collaboration name

LHCb

Track

Upgrades and new experiments

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