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Heavy-Flavour production in fixed-target mode with LHCb

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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 an increase in the gas density by up to two orders of magnitude, is planned to be installed for the LHC Run 3. Results and prospects on open and hidden charm production measurements will be presented. These measurements can provide crucial constraints on cold nuclear matter effects and nPDF at large x . In addition, production measurements of antiprotons and other light hadrons are of great interest for cosmic-ray physics.

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