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Recent LHCb results on charm in the QCD medium

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With full particle ID, precision tracking, and calorimetry, the LHCb detector is able to measure prompt and non-prompt charm production through a variety of decay channels at forward rapidity. These unique abilities allow LHCb to study a wide range of exotic and conventional open and hidden charm states and their interactions in the QCD medium. Here we will discuss recent LHCb results on charm production in pp and pPb collisions, including the first results on χ_c production in nuclear collisions at the LHC, and compare the results with various theoretical models.

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Collaboration / Activity

LHCb

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