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Recent results from fixed-target collisions at LHCb

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The LHCb spectrometer has the unique capability to function as a fixed-target experiment by injecting gas into the LHC beampipe while proton or ion beams are circulating. The resulting beam+gas collisions cover an unexplored energy range, intermediate to previous fixed-target experiments and the top RHIC energy for AA collisions, and allow systems of different size to be studied. Here we present new results on open charm, J/ψ , and $\psi(2S)$ production from pNe and PbNe fixed-target collisions at LHCb. Comparisons with various theoretical models of particle production and transport through the nucleus will be discussed

Category

Experiment

Collaboration (if applicable)

LHCb

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