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Prompt open charm production in 5.02TeV pPb collisions with LHCb

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Open charm hadrons are collected by the LHCb detector in proton-lead collisions at $\sqrt{s_{NN}}=5.02$ TeV. The excellent performance of particle reconstruction and identification in forward rapidity acceptance allows these charm states to be studied down to very low transverse momentum. This poster presents the LHCb measurement of the production of charm mesons, reconstructed in exclusive hadronic final states. Cold Nuclear Matter effects are studied, quantified by the nuclear modification factors, forward-backward production ratios. Comparisons to theoretical calculations, particularly the ones based on nuclear PDF, are also shown.

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