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Hard probes production in pPb collisions at LHCb

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Prompt charm parir production and prompt $\sigma(\chi_{c2})/\sigma(\chi_{c1})$ cross section ratio are first measured in LHCb pPb collisions at 8.16TeV. Z boson and prompt D^0 production are also measured at LHCb 8.16 TeV pPb collisions. Results are compared with theory.

Prompt charm parir production observes 3 times DPS/SPS enhancement in pPb compared to pp. $\sigma(\chi_{c2})/\sigma(\chi_{c1})$ is consistent with unity. Prodction and $R_{\rm FB}$ of Z boson and prompt D^0 are compatible with theoretical predictions.

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