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Charm and Charmonia production at LHCb

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Studies of charm and charmonia production provide important tests of QCD. During 2010 and 2011 the LHCb experiment collected a dataset corresponding to about 1/fb of integrated luminosity in proton-proton collisions at $\sqrt{s} = 7$ TeV. We present measurements of the production of J/ψ , $\psi(2S)$, χ_{c1} and χ_{c2} as well as their cross-section ratio, and a cross-section ratio of χ_{c1} to J/ψ . We also present measurements of double charm production which is the first observation at hadronic collisions. The results are compared to theoretical predictions.

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