



Contribution ID: 29

Type: **not specified**

## Charm and Charmonia production at LHCb

*Tuesday 20 November 2012 15:30 (30 minutes)*

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  $J/\psi$ ,  $\psi(2S)$ ,  $\chi_{c1}$  and  $\chi_{c2}$  as well as their cross-section ratio, and a cross-section ratio of  $\chi_c$  to  $J/\psi$ . We also present measurements of double charm production which is the first observation at hadronic collisions. The results are compared to theoretical predictions.

**Author:** ARTAMONOV, Alexander (Institute for High Energy Physics (RU))

**Presenter:** ARTAMONOV, Alexander (Institute for High Energy Physics (RU))

**Session Classification:** Evening Session

**Track Classification:** Heavy quarkonia