Contribution ID: **6** Type: **Oral presentation**

Study of Jpsi production and cold nuclear matter effects in pPb collisions

Thursday, 1 May 2014 08:50 (20 minutes)

The production of Jpsi mesons with rapidity 1.5 < y < 4.0 or −5.0 < y < −2.5 and transverse momentum pT<14GeV/c is studied with the LHCb detector in proton-lead collisions at a proton-nucleon centre-of-mass energy s_NN= Sqrt 5TeV. The analysis is based on a data sample corresponding to an integrated luminosity of about 1.6nb−1. For the first time the nuclear modification factor and forward-backward production ratio are determined separately for Jpsi mesons originating directly from the proton-nucleon collision and from b-hadron decays.

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Session Classification: WG2: Small-x, Diffraction and Vector Mesons

Track Classification: WG2: Small-x, Diffraction and Vector Mesons