



Contribution ID: 96

Type: **Oral presentation**

Phi meson production measurement with ATLAS

Tuesday, 29 April 2014 18:10 (20 minutes)

A measurement of the differential production cross section of the $\phi(1020)$ -meson at $\sqrt{s}=7$ TeV using pp collision data collected with the ATLAS experiment is presented.

The $\phi(1020)$ -meson selection is based on the identification of kaons by their energy loss in the pixel detector. The differential cross section is measured as a function of the transverse momentum and rapidity. The measurement is compared to the prediction of various MC simulations.

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

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