



Contribution ID: 128

Type: Oral presentation

First measurement of associated vector boson plus prompt charmonium production at the ATLAS experiment

Tuesday, 29 April 2014 16:30 (20 minutes)

We present evidence of associated vector boson+prompt J/ψ production and measure its production rate. This is a key observable to further the understanding of quarkonium production mechanisms. We estimate the relative contributions to the signal from single and double parton scattering and discuss possible implications of this novel final state for study of multiple parton interactions. Single parton scattering cross-sections are compared to cutting-edge theoretical calculations in the colour singlet and colour octet formalisms.

Primary author: BARONCELLI, Toni (Roma Tre Universita Degli Studi (IT))

Presenter: ARNOLD, Hannah Ruth (Albert-Ludwigs-Universitaet Freiburg (DE))

Session Classification: WG4: QCD and Hadronic Final States

Track Classification: WG4: QCD and Hadronic Final States