



Contribution ID: 1218

Type: Parallel Session Talk

J/ ψ - \rightarrow mu μ from 7 TeV pp collisions in ATLAS: physics with the first data

Saturday 24 July 2010 16:47 (11 minutes)

ATLAS has a rich charmonium and beauty physics programme. After a few pb⁻¹ of 7 TeV collision data have been taken at the LHC, ATLAS will be able to start probing the new energy regime with decays of the ψ and Upsilon families of mesons into pairs of muons. The very first physics measurement, possible with less than 1 pb⁻¹ of data, is the fraction of J/ ψ mesons produced in B-hadron decays. We present preliminary results for this measurement, and discuss issues surrounding the measurement of the differential cross section and J/ ψ polarization.

Author: ATLAS, Collaboration (CERN)

Presenter: NELSON, Andy (Iowa State University)

Session Classification: 06 - CP violation, CKM and Rare Decays

Track Classification: 06 - CP violation, CKM and Rare Decays