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J/ ψ ->mumu from 7 TeV pp collisions in ATLAS: performance with the first data

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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. In addition to the physics aspects of the charm resonances, they are also an important tool for understanding the performance of the detector. We present studies of the ATLAS Inner Detector performance using the early ATLAS J/ ψ sample. In particular, the measured J/ ψ mass and width are presented together with the vertexing performance. The consequences of these Inner Detector performance issues in the early ATLAS beauty and charmonium measurements are discussed.

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