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J/ ψ - \rightarrow mu mu from 7 TeV pp collisions in ATLAS: physics 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 psi 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/psi 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/psi polarization.

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