## Abstract Submitted for the APR11 Meeting of The American Physical Society

A measurement of the double-differential production cross section for the J/ $\psi$  resonance and the non-prompt J/ $\psi$  cross section fraction with pp  $\sqrt{s}=7$  TeV in ATLAS¹ ANDREW NELSON, Iowa State University, ATLAS COLLABORATION — The inclusive production of the J/ $\psi$  resonance is studied with the ATLAS detector in LHC proton-proton collisions at  $\sqrt{s}=7$  TeV using the J/ $\psi$  decay mode to two muons. Two physics measurements are presented using the first few pb<sup>-1</sup> of data: the double-differential production cross section with respect to the transverse momentum and rapidity of the J/ $\psi$ , and the ratio of J/ $\psi$  mesons produced from b-hadron decays to the J/ $\psi$  produced promptly with respect to the J/ $\psi$  transverse momentum.

<sup>1</sup>on behalf of the ATLAS collaboration

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