Abstract Submitted for the DNP06 Meeting of The American Physical Society

J/ ψ Measurements in $\sqrt{s_{NN}}$ =200 GeV Au+Au Collisions AN-DREW GLENN¹, University of Colorado, PHENIX COLLABORATION — Heavy quarkonia production is considered to be one of the most important probes of the hot and dense state created in relativistic heavy ion collisions. At RHIC energy, J/ ψ yields, especially the large feed-down contributions from χ_c and ψ' states, are expected to be suppressed in a quark gluon plasma due to color screening. The PHENIX experiment at RHIC has measured J/ ψ production in $\sqrt{s_{NN}}$ =200 GeV Au+Au collisions at both forward (1.2 < |y| < 2.2) and mid (|y| < 0.35) rapidities. The most recent results for the centrality, rapidity and transverse momentum dependence of J/ ψ production will be discussed and compared with PHENIX baseline measurements and various theoretical calculations.

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Date submitted: 05 Jul 2006 Electronic form version 1.4