Abstract Submitted
for the APR09 Meeting of
The American Physical Society

J/ψ Production and \( R_{AA} \) at Forward Rapidities in Run 7
\( \sqrt{s_{NN}} = 200 \text{GeV} \) Au+Au
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PHENIX COLLABORATION — J/ψ suppression is an important observable for verifying our understanding of the QGP formed in relativistic heavy ion collisions. In particular, the suppression as a function of transverse momentum has been of particular interest recently. Theoretical predictions remain diverse due to our imprecise knowledge of charm production mechanisms, nuclear effects, and suppression and regeneration processes. Because of this, it is important to measure this rare process in a variety of channels, observables, and phase space regions. We will show the latest results for J/ψ production and \( R_{AA} \) at forward rapidities in the PHENIX Muon Arms, as functions of centrality, rapidity and \( p_T \), using the recent higher-statistics datasets for both Au+Au and p+p to improve our measurements over previous results.

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Date submitted: 09 Jan 2009

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