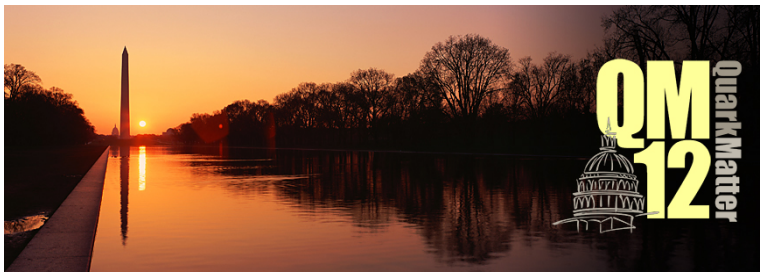

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Improving the J/ψ Production Baseline in pp and pA/d+Au Interactions at RHIC and the LHC

Thursday 16 August 2012 16:00 (2 hours)

We assess the theoretical uncertainties on the inclusive J/ψ production
cross section in the Color Evaporation Model using values for the charm quark
mass, renormalization and factorization scales obtained
from a fit to the charm production data [1]. We use our new results to provide
improved baseline comparison calculations at RHIC.
We also study the rapidity, p_T and centrality dependence of cold
nuclear matter effects on J/ψ
production in the CEM [2,3].\\[3ex]

\noindent [1] R. E. Nelson, R. Vogt and A. D. Frawley, in preparation.\\

\noindent [2] R. E. Nelson and R. Vogt, in progress.\\

\noindent [3] D. McGlinchey, A. D. Frawley and R. Vogt, in preparation.

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