

## **Recent Results on Charmonium Production in the PHENIX Experiment at RHIC**

The PHENIX Experiment at RHIC collected large data sets with p+p,d+Au and heavy ion collisions that were used to measure J/Psi production at  $\sqrt{s}=200$  GeV over a large rapidity range. The dissociation of quarkonia due to color screening in a Quark-Gluon Plasma is a classic signature of de-confinement in relativistic heavy-ion collisions. Comparison of J/Psi production in heavy ion and p+p collisions provides the nuclear suppression factor as a function of centrality, transverse momentum and rapidity. Data with d+A collisions is used to evaluate the cold nuclear matter effects that modify charmonium production in normal nuclei compared to that in p+p collisions This presentation will summarize measurements of J/Psi production in Cu+Cu and Au+Au collisions and their interpretation in view of recent measurements of cold nuclear matter effects in d+Au collisions.