

## 5th International workshop on heavy quark production in heavy-ion collisions



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# System Size, Energy and Rapidity Dependence of Quarkonia Production Measured by the PHENIX Detector.

*Wednesday, 14 November 2012 15:00 (30 minutes)*

The nuclear modification of quarkonia in heavy ion collisions involves a set of physics parameters like energy density, path length and initial state effects which can be controlled experimentally with variations in the beam energy, use of different species and rapidity ranges. The PHENIX detector recently collected high statistics data using combinations of heavy ion species and beam energies in a broad rapidity range. This talk will present the most recent measurements of  $J/\psi$ ,  $\psi'$ ,  $\chi_c$  and  $\Upsilon$  production in d+Au, Au+Au, Cu+Cu, Cu+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV, 62 GeV and 39 GeV in mid- ( $|y| < 0.35$ ) and forward rapidities ( $1.2 < |y| < 2.2$ ).

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