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PHENIX J/ψ measurement in Au+Au collisions at $\sqrt{s_{NN}} = 39$ and 62 GeV

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J/ψ production is considered as one of the very important probes for studying the properties of quark-gluon plasma (QGP). PHENIX observed a large suppression of J/ψ production in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV in comparison with binary collision scaled p+p collisions. The level of this suppression is similar to that observed in other energies in CERN-SPS and LHC. PHENIX also took J/ψ data from Au+Au collisions at $\sqrt{s_{NN}} = 39$ and 62 GeV in 2010. This data allow us to explore the energy dependent suppression level in order to disentangle the important contributing factors of J/ψ production. We will present the $j/\psi R_{AA}$ results at 39, 62.4 GeV in comparison with our previously published 200 GeV results.

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