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J/ψ production in minimum bias Au+Au and Cu+Cu collisions at $\sqrt{s_{NN}} = 200$ GeV at STAR DANIEL KIKOLA, Lawrence Berkeley National Laboratory/Warsaw University of Technology, STAR COLLABORATION — J/ψ production is considered to be a sensitive probe of the properties of quark gluon plasma created in nucleus+nucleus collisions at RHIC. It has been studied in Au+Au and Cu+Cu collisions in the last years, and new Au+Au data taken by the STAR detector in year 2007 has recently become available, significantly improving statistics. In this presentation, the analysis of mid-rapidity ($|y| < 1$) J/ψ production via the dielectron decay channel in Au+Au(year 2007) and Cu+Cu(year 2005) collisions at $\sqrt{s_{NN}} = 200$ GeV at STAR is reported. It is compared to STAR p+p results in order to study the nuclear modification factor as a function of transverse momentum and centrality. The results are compared to previously published data and available theoretical models.

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