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Measurement of Upsilon production cross section in d+Au collisions at $\sqrt{s_{NN}}=200$ GeV ANTHONY KESICH, UC Davis, STAR COLLABORATION — Suppression of charmonia production in heavy-ion collisions, due to Debye screening of the quark-antiquark potential, was proposed as a clear signature of quark-gluon plasma (QGP) formation. However, further understanding of factors that influence charmonia production in heavy-ion collisions complicates this analysis. These factors include competing effects such as recombination enhancement and suppression due to comover absorption; these effects are negligible in Υ production. Furthermore, cold nuclear matter (CNM) effects can effect the rate of Υ production in heavy-ion collisions. These effects can be quantified by measuring production rates in d+Au collisions. We report on the measurement of the Υ production cross section via the e^+e^- decay channel in d+Au collisions at $\sqrt{s_{NN}}=200$ GeV. We use the high-statistics data available from the 2008 run.

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