Observation of the J/Ψ meson in Ultra Peripheral Collisions at STAR

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Ultra Peripheral Collisions (UPC’s) involve two colliding ions that do not physically overlap but interact electromagnetically. In UPC’s, the exchange of virtual photons can lead to the photoproduction of vector mesons. The 2010 200 GeV Gold-Gold data from STAR contains the first evidence of photoproduction of J/Ψ mesons in UPCs at STAR. The J/Ψ meson is of particular interest because it probes the gluon distribution function at low-x. This poster will present the measurement of J/ψ production in UPCs at STAR, including a Rho to J/Ψ photoproduction cross section ratio.