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J/Psi Production in Ultra-Peripheral Collisions at STAR

Wednesday, April 13, 2016 2:30 PM (15 minutes)

In 2010, the STAR Collaboration collected a large sample of triggers for ultra-peripheral AuAu collisions. In this talk, I will present measurements from this sample of J/Psi production in association with neutrons from photonuclear breakup. Preliminary results for the cross section as a function rapidity and pT will be presented and compared to models; the large component at low pT demonstrates the coherent production of J/Psi off the Au nuclei.
In 2015, STAR also collected a sample of J/Psi mesons in ultra-peripheral pp and pAu collisions, where the protons were transversely polarized. The final state proton(s) were measured in the STAR Roman Pot system, constraining the kinematics of the process. I will present the prospects for measuring the asymmetry of J/Psi production with this sample. A non-zero asymmetry would be the first measure of the generalized parton distribution E for gluons, which is connected with the orbital angular momentum of partons in the nucleon.

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