

Transverse single spin asymmetries for very forward neutrons in ultra-peripheral p-A collisions

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I will present the transverse single spin asymmetries for very forward neutrons in polarized p-A ultra-peripheral collisions. These asymmetries are about 35 % and the cross section of p-Au ultra-peripheral collisions is comparable with that of hadronic interactions. Thus such asymmetries are central to the AN for very forward neutrons measured by the PHENIX zero-degree calorimeters (ZDCs) in high-energy polarized proton-nucleus (p-A) collisions at RHIC.

In this talk, I will present that the Monte Carlo simulation results involving both ultra-peripheral collisions and hadronic interactions can successfully reproduce the PHENIX measurements.

Relevant topics

RHIC, forward neutrons, ultra-peripheral collisions

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