Contribution ID: **29** Type: **Talk at plenary session**

Transverse spin asymmetries in the CNI region in polarized proton-proton elastic scattering at STAR

Wednesday, 12 September 2012 15:50 (15 minutes)

Summary

We shall present the result on single spin asymmetry (A_N) in polarized proton-proton scattering at sqrt(s) = 200 GeV in small four momentum transfer region. With the Roman Pots of the pp2pp experiment, installed at the STAR detector at RHIC, a data sample of about 20 million elastic events in -t range of $0.005 - 0.035$~(GeV/c)^2 was analyzed. A fit of t-dependence of A_N indicates that a hadronic spin-flip amplitude is comparable to zero. The preliminary result from the same data sample on double spin asymmetries A_NN and A_SS is that they are of the order of 10^-3, which implies negligible hadronic double spin-flip amplitude and disfavors contribution Reggeons other than the Pomeron. Pla

Primary author: Dr GURYN, Wlodek (Brookhaven NAtional Laboratory)

Presenter: Dr GURYN, Wlodek (Brookhaven NAtional Laboratory)

Session Classification: Spin Physics (III)

Track Classification: Spin Physics