## 22nd International Spin Symposium



Contribution ID: 219 Type: not specified

## Transverse Spin Transfer to $\Lambda$ and $^-\Lambda$ Hyperons in Transversely Polarized Proton+Proton Collisions at $\sqrt{s=200 GeV}$

Tuesday 27 September 2016 18:50 (15 minutes)

The transverse spin transfer to  $\Lambda$  hyperon can provide insights into the polarized fragmentation function and the transversity distribution which play important roles in understanding the spin structure of the nucleon. In 1997, significant spin transfer along the normal direction of the  $\Lambda$  production plane was observed at large xF by Fermilab E704 Collaboration. In this contribution we report an update to our analysis of the transverse spin transfer for  $\Lambda$  and  $\Lambda$  hyperons along the polarization direction of the outgoing quark or hyperon in polarized proton+proton collisions. The data were taken in 2012 with STAR detector at RHIC at center of mass energy of 200 GeV with beam polarization about 63% and cover hyperon transverse momenta up to 8 GeV/c.

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Session Classification: TMDs

Track Classification: C. TMDs