

# XX International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 30

Type: **not specified**

## Transverse single spin asymmetries

*Wednesday 28 March 2012 10:30 (35 minutes)*

Large transverse single spin asymmetries (SSAs) of cross sections with a large momentum transfer in high energy collisions were once thought impossible in QCD. With over 30 years of experimental as well as theoretical efforts, large SSAs are not only possible in QCD, but also carry extremely valuable information on the motion and structure of quarks and gluons inside a polarized hadron. In this talk, I will review the physics behind the measured SSAs and the twist-3 mechanism to generate the SSAs. I will also discuss the transition between TMD factorization approach to twist-3 collinear factorization approach to SSAs.

**Author:** Dr QIU, Jian-Wei (Brookhaven National Lab)

**Presenter:** Dr QIU, Jian-Wei (Brookhaven National Lab)

**Session Classification:** Spin physics

**Track Classification:** Spin physics