Contribution ID: **149** Type: **not specified**

Comparing T-odd and T-even spin sum rules

Saturday, 13 September 2014 12:15 (25 minutes)

The sum rules (SRs), in particular the ones related to momentum and angular momentum conservation, are discussed. The cases of distribution, fragmentation and fracture (diffractive distribution) functions are compared. The SRs for T-odd distribution functions include the phases borrowed from hard subprocesses.
The possible SR validity for each flavour and justification of the existence of nodes of Sivers function are discussed. The stability of SRs against QCD evolution is analyzed.
The interplay of SRs for inclusive and exclusive processe is considered. The relations to the equivalence principle for nucleon spin interaction with gravity and its generalization are discussed.

Primary author: Prof. TERYAEV, Oleg (JINR)

Presenter: Prof. TERYAEV, Oleg (JINR)

Session Classification: Spin Physics (II)

Track Classification: Spin Physics