



Contribution ID: 97

Type: **not specified**

T-odd and T-even hadronic structures of the Drell-Yan process. Small Q_T/Q expansion

Tuesday 25 March 2025 14:50 (25 minutes)

We present detailed analysis of the T-even and T-odd lepton angular distribution in the Drell-Yan process including γ/Z^0 gauge boson exchange and using perturbative QCD based on the collinear factorization scheme at leading order in the α_s expansion and α_s^2 for T-odd. We focus on the study of the transverse momentum Q_T dependence of the corresponding hadronic structure functions and angular coefficients up to next-to-next-to-leading order in the Q_T^2/Q^2 expansion. We analyze Q_T dependence numerically and compare T-even angular coefficients with available data of the ATLAS Collaboration at LHC.

Author: ZHEVLAKOV, Alexey (Joint Institute for Nuclear Research (RU))

Presenter: ZHEVLAKOV, Alexey (Joint Institute for Nuclear Research (RU))

Session Classification: WG5: Spin and 3D Structure

Track Classification: Spin and 3D Structure