

Abstract Submitted
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Polarized Drell-Yan Experiments¹ GONADUWAGE PERERA, University of Virginia — Polarized Drell-Yan scattering mediated by γ^*/Z is currently being studied through collider experiment at RHIC, as well as through fixed target experiment at CERN. Future experiments in Europe (CERN), Japan (JPARC) and the USA (FNAL, RHIC) are also being planned. Measurement of the longitudinal double spin asymmetry (A_{LL}) in the Drell-Yan process in pp collisions provides clean access to the anti-quark helicity distributions without involving quark fragmentation functions. Measurement of the transversely polarized single spin asymmetry (A_N) in the Drell-Yan process in fixed target/collider experiments provide the ability to test predicted universal and process-dependent features of transverse momentum dependent (TMD) PDFs. In this talk the wide range of Drell-Yan experiments and their measurements will be discussed.

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