

# **Sivers Effects and Transverse Single Spin Asymmetries in Drell-Yan Processes**

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It has been shown that new spin and  $k_{\perp}$  dependent partonic distribution functions may be responsible for the large transverse single spin asymmetries observed in inclusive pion production in hadronic collisions (the so-called Sivers effect). The consequences of this effect for Drell-Yan processes are investigated. We present the general formalism and derive a simple expression for the asymmetry  $A_N$  as a function of the invariant mass, the rapidity and the transverse momentum of the leptonic pair. We also present phenomenological predictions, in particular for kinematical situations of relevant for RHIC experimental program.