

Abstract Submitted
for the TSF14 Meeting of
The American Physical Society

Neutral vector boson production in pp and pA collisions at hadron colliders BOWEN WANG, Southern Methodist University, MARCO GUZZI, DESY, PAVEL NADOLSKY, Southern Methodist University — I discuss the Z/γ^* gauge boson production in pp and $p\bar{p}$ collisions with the focus on non-perturbative contributions to the transverse momentum distribution based on the Collins-Soper-Sterman (CSS) resummation formalism. The dependence of the CSS resummed cross section on resummation scales and other factors is estimated. I also present a study of Z/γ^* production in proton-lead and lead-lead collisions, where the small- x shadowing and moderate- x antishadowing effects are shown in transverse momentum and rapidity distributions.

Bowen Wang
Southern Methodist University

Date submitted: 25 Sep 2014

Electronic form version 1.4