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Neutral vector boson production in pp and pA collisions at hadron colliders

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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.

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