Contribution ID: **250** Type: **not specified**

Vector boson production in joint resummation

Tuesday 4 April 2017 11:00 (15 minutes)

Threshold resummation is often used to improve the theoretical accuracy of inclusive cross sections at hadron colliders. However, when differential distributions are considered, we acquire sensitivity to more energy scales which triggers the appearance of different types of logarithms. In these situations a joint resummation formalism becomes relevant. The general framework for joint threshold and q_T resummation has existed for some time, but has only ever been applied at NLL accuracy. In this presentation we discuss an extension of the method for joint resummation to NNLL accuracy and apply it to Z-boson production at Tevatron and LHC as well as the heavier Z' production at LHC.

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Session Classification: WG4 Hadronic and Electroweak Observables

Track Classification: WG4) Hadronic and Electroweak Observables