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Partial N3LL + NNLO Resummed Predictions for the Drell-Yan Process in Rapidity Dependent Jet Veto Observables

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Jet vetoes are important tools that are frequently used to cut away backgrounds or separate different hard scattering processes. Rapidity dependent jet vetoes with a tight veto at central rapidities and a loose veto at forward rapidities can reduce sensitivity to jets from pile-up and the underlying event. Applying tight cuts on such variables requires resummation of large logarithms of the hard scale over the jet veto scale. I will discuss the resummation of two different rapidity dependent jet veto observables, and present new results at partial N3LL + NNLO for the Drell-Yan process with these two jet vetoes applied.

Based on work done with Shireen Gangal and Jonathan Gaunt.

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