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reSolve – Transverse Momentum Resummation Calculator

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I will present the program "reSolve", a publicly available tool for calculating the resummed contributions to transverse momentum and other spectra. It makes use of the Catani-de Florian- Grazzini resummation formalism in impact parameter space and Mellin space and exploits its largely process-independent nature to be general purpose, applying to any final state excluding coloured particles. So far reSolve has been used for diphoton, Drell-Yan and Z' final states. I will discuss this briefly before presenting some ongoing work using reSolve, from the benchmarking of theoretical calculations of transverse momentum resummation for Drell-Yan to work examining searches for Z's with large widths.

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