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ALARIC: A NLL accurate Parton Shower algorithm

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We present the parton shower algorithm ALARIC that extends the coherent branching formalism and allows for a direct analytic proof of NLL accuracy by means of a suitable kinematics mapping and choice of evolution variable. Final-state and initial-state evolution are treated in a unified manner, and the matching to NLO calculations is straightforward.

We discuss the general structure of the algorithm and present new developments, such as the inclusion of massive parton evolution.

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