

SCET 2017



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Application of SCET with Glauber gluons to heavy ion observables at NLO

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The development of a background field approach to parton propagation in matter, building upon soft-collinear effective theory, has allowed us to derive light parton splitting functions and take first steps toward unifying parton showers in proton and heavy ion collisions. In this talk I will describe how the in-medium modification of parton showers can be extended to heavy quark jets. I will further present a consistent calculation of inclusive heavy meson and light jet production at next-to-leading order in nucleus-nucleus collisions. The connection to energy loss heavy ion phenomenology will be elucidated and comparisons presented to recent LHC data.

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