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Next-to-leading power corrections to event shape variables

Wednesday, 19 June 2024 10:00 (20 minutes)

We investigate the origin of next-to-leading power corrections to the event shapes thrust and c-parameter, at next-to-leading order.
For both event shapes we trace the origin of such terms in the exact
calculation, and compare with a recent approach involving
the eikonal approximation and momentum shifts that follow from the Low-Burnett-Kroll-Del Duca theorem.
We assess the differences both analytically and numerically.For the c-parameter both exact and approximate results are expressed in terms of elliptic integrals, but near the elastic limit it exhibits patterns similar to the thrust results.

Primary author: MISHRA, Shubham (IIT Hyderabad)

Presenter: MISHRA, Shubham (IIT Hyderabad)

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