

Event shapes of High Multiplicity Jets

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It is known that perturbative simulations of high-multiplicity jets can vary quite substantially from data collected at high-energy colliders like the LHC. It is therefore important to understand what is driving the discrepancy and if there are other possible tools to simulate these events without relying on individual particle simulation. We propose that another observable to manage high-multiplicity jets is the global event shape, computed with the momenta of the particles but with additional IRC safety. We consider energy-mover-distance observables as well as similar tools developed for quark-gluon plasma studies.

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Classifica Sessioni: Novel Techniques

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