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Universality and universality-breaking effects in factorized e+e- hadroproduction cross sections

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Recent BELLE measurements provide the cross section for single hadron production from e+e- annihilations, differential in the hadron transverse momentum with respect to the thrust axis.

Universality breaking effects due to process-dependent soft factors make it very difficult to relate this cross section to that corresponding to hadron-pair production in e+e- annihilations, where TMD fragmentation functions are defined

through the so-called "square-root definition".

I will examine this correspondence in the framework of CSS factorization and provide the sketch of a scheme that might allow to relate 1-jet to 2-jet e+e- cross sections, neatly separating soft and collinear non-perturbative effects from the terms which can be calculated using a perturbative approach.

Primary author: SIMONELLI, Andrea (Istituto Nazionale di Fisica Nucleare)

Presenter: SIMONELLI, Andrea (Istituto Nazionale di Fisica Nucleare)

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