

Dressing jets with flavour in an infrared safe way

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Identifying the flavour of reconstructed hadronic jets is critical for precision phenomenology and the search for new physics at colliders, as it allows to pinpoint specific scattering processes and reject backgrounds. We propose a new approach to define the flavour of jets, a flavour dressing algorithm, which is infrared and collinear safe and can be combined with any definition of a jet. We test the algorithm in $q\bar{q}$ - and $g\bar{g}$ environments and consider some practical applications.

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