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Measurement of gluon jet fractions at CMS and corrections of jets properties in MC models

The measurement of the gluon-jet fraction in a jet sample relies on various jet parameters and is inherently model dependent. Jet properties are defined within a hadronization model embedded in the Monte Carlo generator. The talk presents a method for quantitatively determining how far the hadronization model deviates from the unknown true hadronization picture. A data-driven correction procedure is introduced that adjusts the model distributions of quark and gluon jets as functions of jet parameters. The methods are illustrated with toy data, which simulated to be similar to CMS Run-II data.

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