Type: Resummation and Monte Carlo generators

Heavy quark radiation in NLO+PS POWHEG generators

Tuesday, 29 August 2017 14:30 (30 minutes)

We discuss about radiation from heavy quarks in the context of next-to-leading order calculations matched to parton shower generators. A new algorithm for radiation from massive quarks is presented that offers advantages over the one previously employed. We implement the algorithm in the framework of the POWHEG-BOX, and compare it with the previous one in the case of the hvq generator for bottom production in hadronic collisions, and in the case of the bb4l generator for top production and decays.

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