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Hadronic W-boson decays in top pair production

Tuesday, 24 March 2020 12:00 (20 minutes)

We present NLOPS matched predictions for $pp \rightarrow \ell \nu_{\ell} j j b \bar{b}$ at $\alpha^4 \alpha_s^2$ within the POWHEG BOX RES framework. This process is dominated by top-pair production and decay in the semileptonic channel. The hadronic decay of the W-boson is considered in an approximation that allows for consistent inclusion of the contributions from $t\bar{t}$ and Wt single-top production and all relevant quantum interferences between different channels.

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