

Top Panel: Differential cross-section $\frac{1}{\lambda} \frac{dN}{dp_T d\lambda}$ vs p_{TD2} (charged-only). The y-axis is logarithmic, ranging from 10^{-2} to 10^2 . The x-axis ranges from 0 to 1. Data points are shown for CMS (black squares), Herwig++ 2.4.2 default (orange dashed line with circles), and Herwig 7.2.1 default (green dashed line with squares). The plot is for CMS, 13 TeV, AK8 jets, central dijet region, $1000 < p_{T}^{j_{et}} < 4000$ GeV.

Bottom Panel: Ratio to CMS vs p_{TD2} (charged-only). The y-axis is linear, ranging from 0.5 to 2.0. The x-axis ranges from 0 to 1. The plot shows the ratio of the cross-section to the CMS result. Shaded regions represent the uncertainty bands for the Herwig models.

Legend:

- CMS
- Herwig++ 2.4.2 default
- Herwig 7.2.1 default

Text in plot: (CMS_2021_I1920187)

Right side text: Rivet 4.1.0, ≥ 100k events
mcplots.cern.ch [arXiv:2401.10621]