

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. The plot shows data from CMS (black squares) and theoretical predictions from Herwig++ 2.7.1 default (orange dashed line with open circles), Herwig 7.2.1 default (green dashed line with open squares), and Herwig 7.2.1 softTune (blue solid line with filled triangles). The top panel is labeled "CMS, 13 TeV, AK4 jets, central dijet region, $614 < p_{T}^{j1,j2} < 800$ GeV".

Bottom Panel: Ratio of the cross-section to the CMS data 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 theoretical predictions to the CMS data. The bottom panel is labeled "Ratio to CMS".

Legend:

- CMS
- Herwig++ 2.7.1 default
- Herwig 7.2.1 default
- ▼- Herwig 7.2.1 softTune

Additional labels in the image: (CMS_2021_I1920187), mcplots.cern.ch [arXiv:1306.3436], Rivet 4.1.0, $\geq 100k$ events.

(CMS_2021_I1920187)

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

pTD2 (charged-only)