

Jets

The figure displays the groomed p_{TD2} distribution for CMS data and two Monte Carlo models: Herwig 7.2.1 default and Pythia 8.170 default. The top panel shows the distribution $\frac{1}{N} \frac{dN}{d \ln(p_{TD2})}$ versus groomed p_{TD2} . The bottom panel shows the ratio of the Herwig 7.2.1 default model to the CMS data, with a green line and yellow shaded uncertainty bands.

Top Panel: Groomed p_{TD2} Distribution

- X-axis:** groomed p_{TD2} (ranging from 0 to 1)
- Y-axis:** $\frac{1}{N} \frac{dN}{d \ln(p_{TD2})}$ (ranging from 0 to 10000)
- Legend:**
 - CMS
 - Herwig 7.2.1 default
 - ▲— Pythia 8.170 default

Bottom Panel: Ratio to CMS

- X-axis:** groomed p_{TD2} (ranging from 0 to 1)
- Y-axis:** Ratio to CMS (ranging from 0.5 to 2.0)
- Legend:**
 - Ratio to CMS (green line)
 - Ratio to CMS uncertainty (yellow shaded area)

mcplots.cern.ch [arXiv:1306.3436]

Rivet 3.1.10, $\geq 400k$ events