

Z+Jet

Rivet 3.1.10, $\geq 2.2\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

2

0.5

pTD2

 $\mathbf{d}^N$

4

Ratio to CMS

The figure displays the distribution of the observable $(p_T^D)^2 \lambda_0^2$ (CMS jet substructure) for Rivet 3.1.10, ≥ 2.2 M events. The x-axis represents the observable value, ranging from 0 to 1. The y-axis represents the distribution, ranging from 0 to 1000.

The top panel shows the distribution with overlaid curves for various models:

- CMS (Black squares)
- Pythia 6.428 350 (Yellow squares)
- Pythia 6.428 370 (Red triangles)
- Pythia 6.428 380 (Green triangles)
- Pythia 6.428 p0 (Black circles)
- Pythia 6.428 p2010 (Dashed black line)

The bottom panel shows the ratio of the distribution to the CMS data, with a central green band and yellow side bands indicating the uncertainty. The ratio ranges from 0.5 to 2.0.