

Z+Jet

The figure displays two panels showing the ratio of the differential thrust distribution to the CMS result, $\frac{dN/d\ln \tau_T d\tau_T}{(dN/d\ln \tau_T d\tau_T)_{\text{CMS}}}$, as a function of thrust.

Top Panel: A log-linear plot showing the ratio versus thrust. The y-axis is logarithmic, ranging from 1000 to 10000. The x-axis is thrust, ranging from 0 to 1. The plot compares the Herwig 7.2.1 default (green dashed line with open squares) to the CMS data (black points). The Herwig 7.2.1 default shows a significant deviation from the CMS data at low thrust values, peaking around thrust = 0.1.

Bottom Panel: A linear plot showing the ratio to CMS versus thrust. The y-axis is linear, ranging from 0.5 to 2.0. The x-axis is thrust, ranging from 0 to 1. The plot compares the Herwig 7.2.1 default (green cross) to the Rivet 3.1.10, 2019 result (yellow cross). The Herwig 7.2.1 default shows a significant deviation from the CMS data at low thrust values, peaking around thrust = 0.1.

Rivet 3.1.10, 2.7M events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

thrust