

Top Panel: Differential Multiplicity Distribution

Y-axis: $\frac{1}{\lambda} \frac{dN}{dp_T d\lambda}$ (log scale, 10^{-9} to 10^1)

X-axis: p_T (GeV) (linear scale, 0 to 30)

Legend:

- CMS
- ▲ Pythia 8.315 default
- ▼ Pythia 8.315 tune-AU2
- ◆ Pythia 8.315 tune-AU2lox
- Pythia 8.315 tune-AU2lox
- ★ Pythia 8.315 tune-AU2m

Bottom Panel: Ratio to CMS

Y-axis: Ratio to CMS (linear scale, 0.5 to 2.5)

X-axis: multiplicity (charged-only) (linear scale, 0 to 30)

Background: Yellow and green shaded regions representing uncertainty bands.

Text: (CMS_2021_I1920187)

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mcplots.cern.ch [arXiv:1306.3436]