

Underlying Event

The figure displays two panels showing the ratio of charged particle multiplicity to CMS data as a function of the leading track-jet transverse momentum (p_T).

Top Panel: The y-axis is labeled $\langle N \rangle / [\Delta\eta\Delta(\Delta\phi)]$ and ranges from 0.2 to 2.4. The x-axis is labeled p_T (leading track-jet) [GeV] and ranges from 0 to 100. The plot shows data points (black squares) and a theoretical prediction (red line) for the ratio $\langle N_{ch} \rangle$ vs p_T^{lead} ($|\eta_j| < 2.0$, $|\eta| < 2.0$, $p_T > 0.5$). The data points are labeled "CMS". The theoretical prediction is labeled "(CMS_2015_I1385107)".

Bottom Panel: The y-axis is labeled "Ratio to CMS" and ranges from 0.5 to 2. The x-axis is labeled p_T (leading track-jet) [GeV] and ranges from 0 to 100. The plot shows a yellow shaded band representing the ratio to CMS and a green shaded band representing the ratio to CMS. The ratio to CMS is approximately 1.0 across the entire range of p_T .

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5