

7000 GeV pp

Underlying Event

Sum( $p_T$ ) Density (TRNS) (NSD) $\langle d^2 \text{sum}(p_T) / d\eta d\phi \rangle$  [GeV]

- CMS
- - ■ Pythia 6.423 default
- - \* Pythia 6.423 pro-q2o

Rivet 3.1.0,  $\geq 6.6M$  events

mcplots.cern.ch [arXiv:1306.3436]

CMS\_2011\_S9120041

Ratio to CMS

 $p_T$  (leading track-jet) [GeV]