



Ratio to CMS: The bottom panel shows the ratio of the Monte Carlo models to the CMS distribution. The ratio is 1.0 for CMS. Herwig 7.0.0 default is mostly between 0.8 and 1.2. Pythia 6.428 370 is mostly between 0.8 and 1.2. Pythia 8.308 default is mostly between 0.8 and 1.2. Sherpa 1.3.0 default is mostly between 0.5 and 1.5, with a significant peak at low groomed width.