

7000 GeV pp

Soft QCD

Average Transverse Momentum vs Particle Mass (alice2015-y0.5)

 $\langle p_T \rangle$ (GeV)

- ALICE
- - □ Herwig 7.2.0 default
- - ▲ Pythia 8.301 default
- - ◆ Sherpa 2.1.0 default

3

2.5

2

1.5

1

0.5

0

2

1

0.5

Rivet 3.1.0, $\geq 5.4M$ events

mcplots.cern.ch [arXiv:1306.3436]

ALICE_2014_I1300380

Ratio to ALICE

2

0

0.5

1

1.5

2

m (GeV^2)

m (GeV^2)	ALICE $\langle p_T \rangle$ (GeV)	Herwig 7.2.0 $\langle p_T \rangle$ (GeV)	Pythia 8.301 $\langle p_T \rangle$ (GeV)	Sherpa 2.1.0 $\langle p_T \rangle$ (GeV)
0.15	0.48	0.48	0.50	0.48
0.5	0.75	0.68	0.68	0.68
0.85	1.00	0.95	0.88	0.90
0.95	0.90	0.85	0.80	0.85
1.0	1.05	1.00	1.00	1.00
1.3	1.20	1.15	1.00	1.00
1.4	1.15	1.15	1.00	1.05
1.55	1.30	1.30	1.05	1.05
1.7	1.48	1.35	1.10	1.20