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Strange particle in jets and underlying events with different models

3

1 Simulate with PYTHIA 8 rope

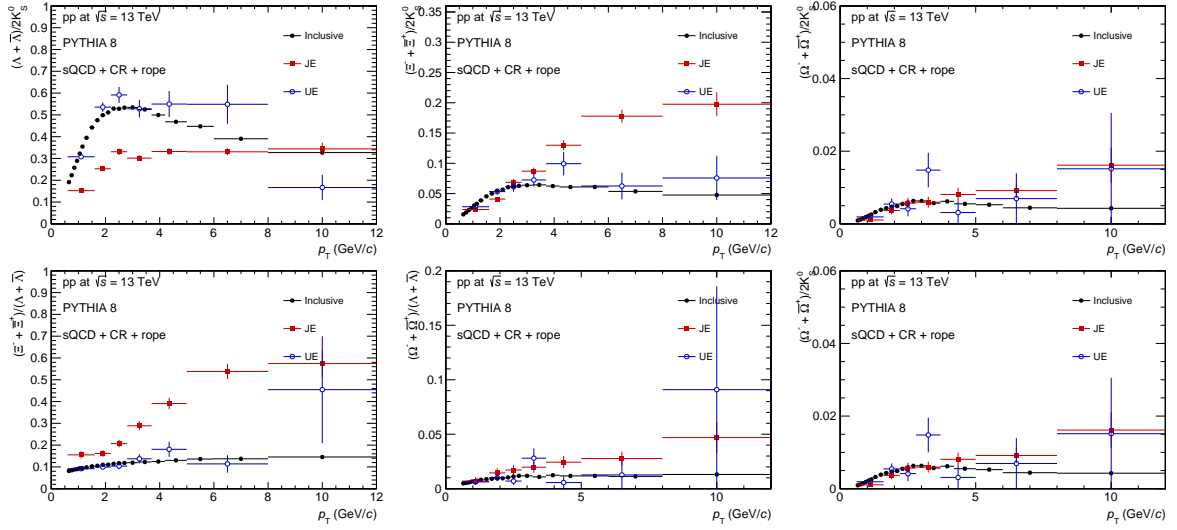


Figure 1: Baryon-to-meson(top) and baryon-to-baryon ratio with PYTHIA rope.

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Parameters

5

Beams:idA = 2212

6

Beams:idB = 2212

7

Main:numberOfEvents = 1001

8

Beams:eCM = 13000.

9

SoftQCD:all = on

10

MultiPartonInteractions:pT0Ref = 2.15

12

BeamRemnants:remnantMode = 1

13

BeamRemnants:saturation = 5

14

ColourReconnection:reconnect = on

15

ColourReconnection:mode = 1

16

ColourReconnection:allowDoubleJunRem = off

17

ColourReconnection:m0 = 0.3

18

ColourReconnection:allowJunctions = on

19

ColourReconnection:junctionCorrection = 1.2

20

ColourReconnection:timeDilationMode = 2

21

ColourReconnection:timeDilationPar = 0.18

22

Ropewalk:RopeHadronization = on

24

Ropewalk:doShoving = on

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25 Ropewalk:tInit = 1.5
26 Ropewalk:deltat = 0.05
27 Ropewalk:tShove = 0.1
28 Ropewalk:gAmplitude = 0.
29
30 Ropewalk:doFlavour = on
31 Ropewalk:r0 = 0.5
32 Ropewalk:m0 = 0.2
33 Ropewalk:beta = 0.1
34
35 !// Enabling setting of vertex information.
36 PartonVertex:setVertex = on
37 PartonVertex:protonRadius = 0.7
38 PartonVertex:emissionWidth = 0.1
```

39 **References**