

1

2 **Strange particle in jets and underlying events with different models**

3 **1 Simulate with PYTHIA 8 rope**

4 **Parameters**

```
5   Beams:idA = 2212
6   Beams:idB = 2212
7   Main:numberOfEvents = 1001
8   Beams:eCM = 13000.
9   SoftQCD:all = on
10
11   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
23   Ropewalk:RopeHadronization = on
24   Ropewalk:doShoving = on
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
```

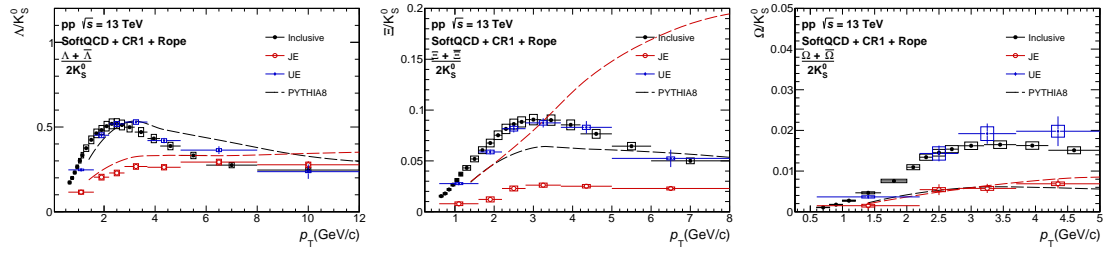


Figure 1: .

39 **Acknowledgements**

40 **References**