

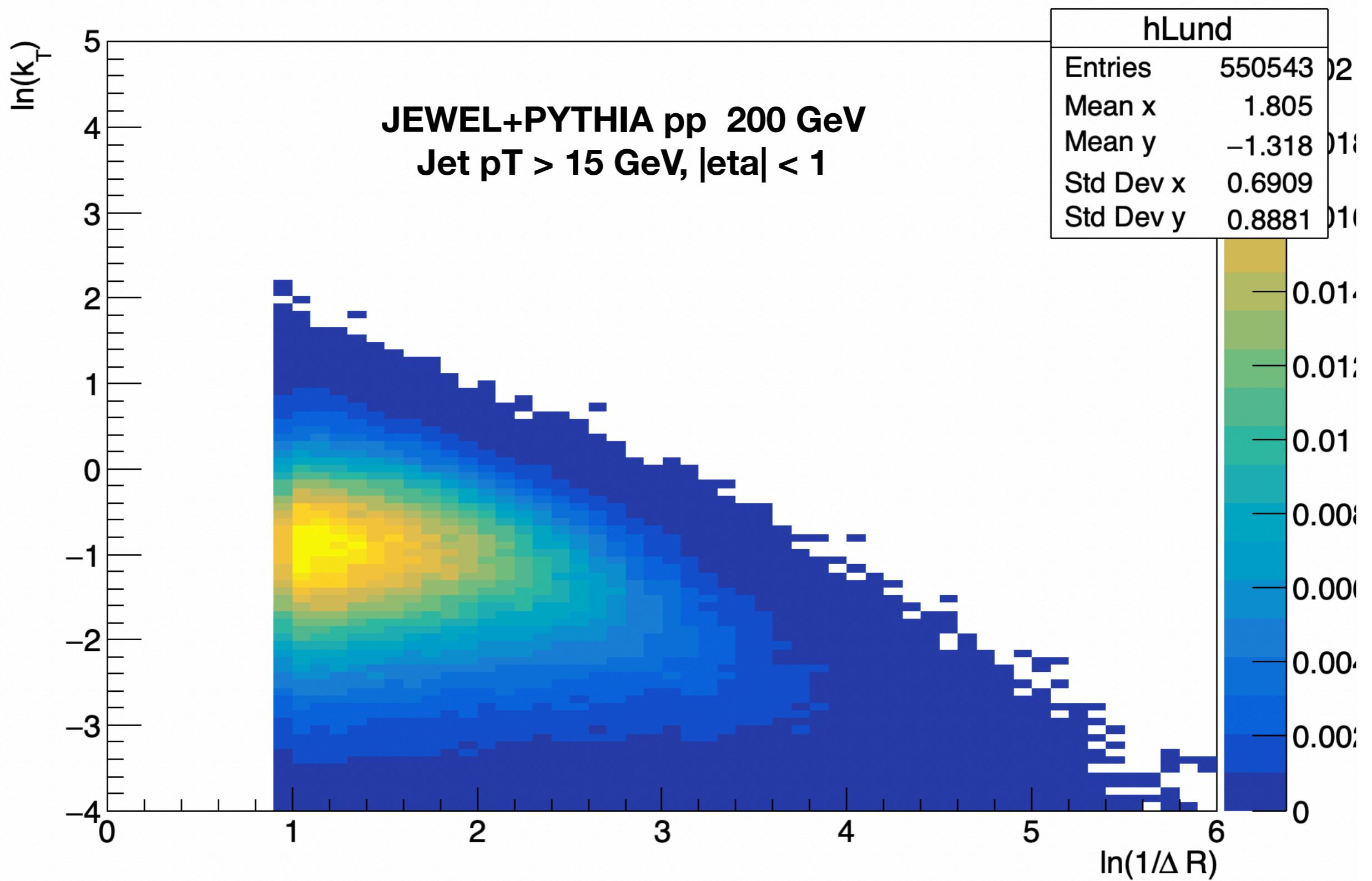
EMMI-RRTF @GSI

Fun in the Lund(emmi) Plane

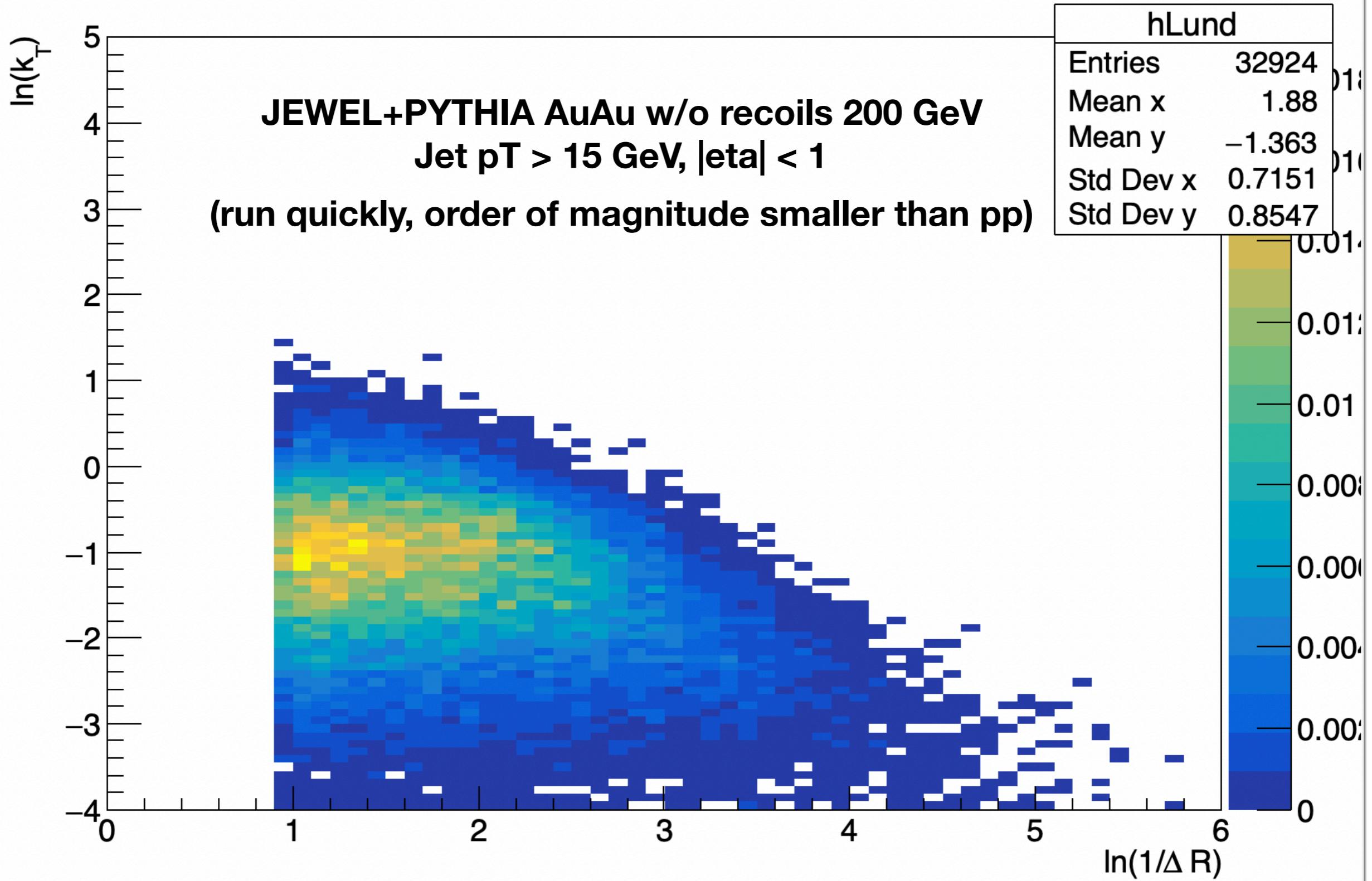
Raghav Kunnawalkam Elayavalli

Aug 13th, 2019

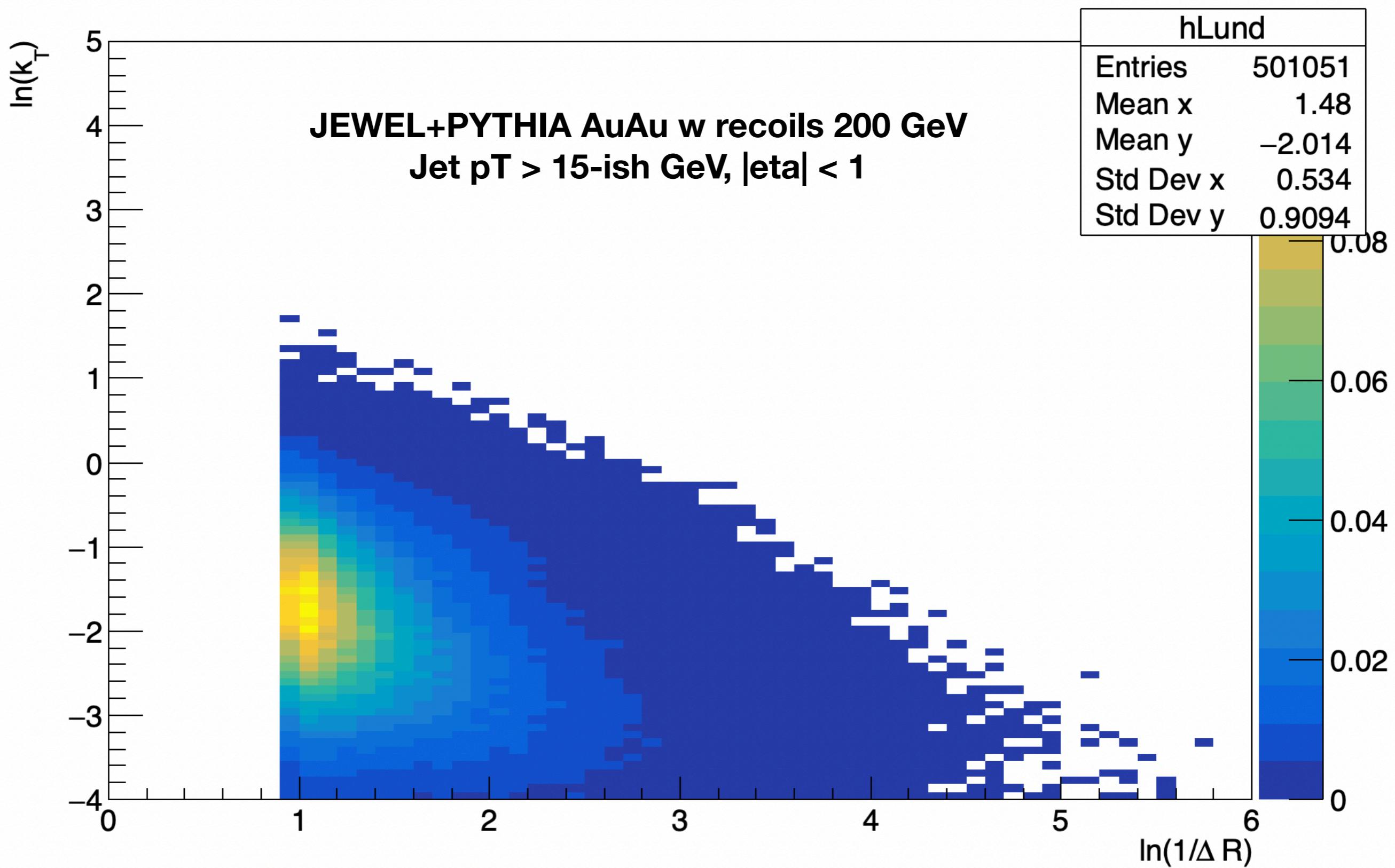
Lund Plane



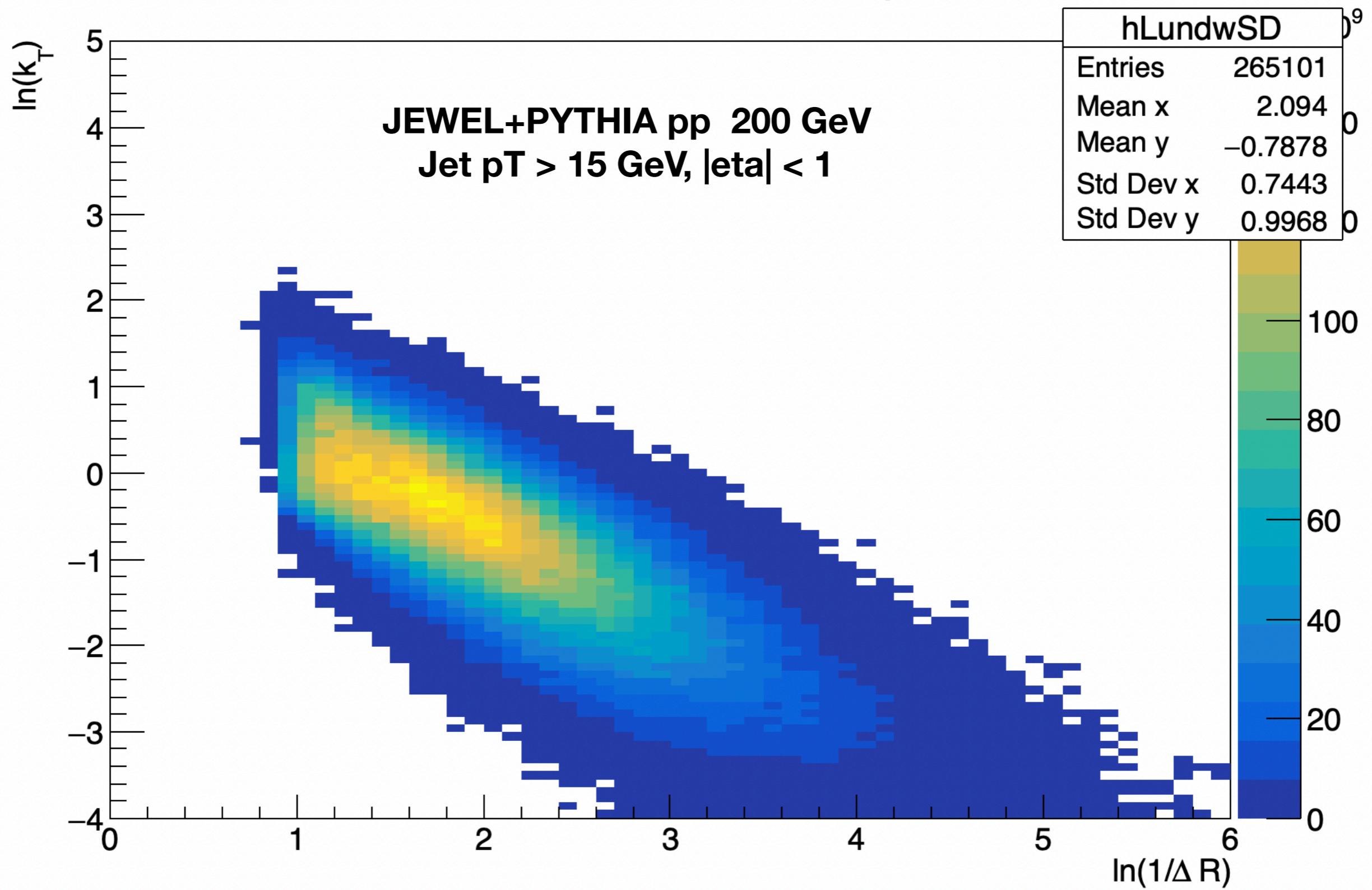
Lund Plane



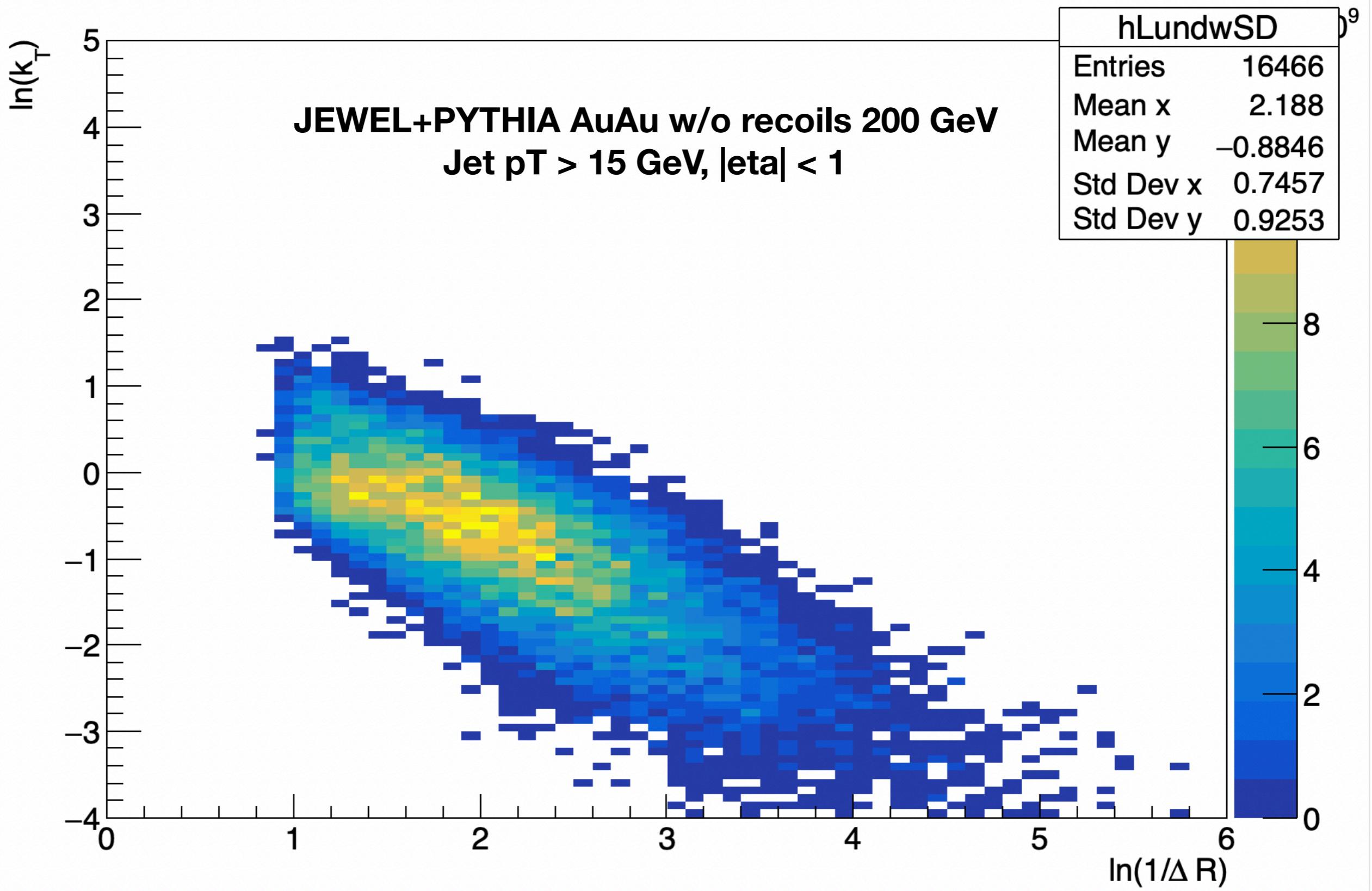
Lund Plane



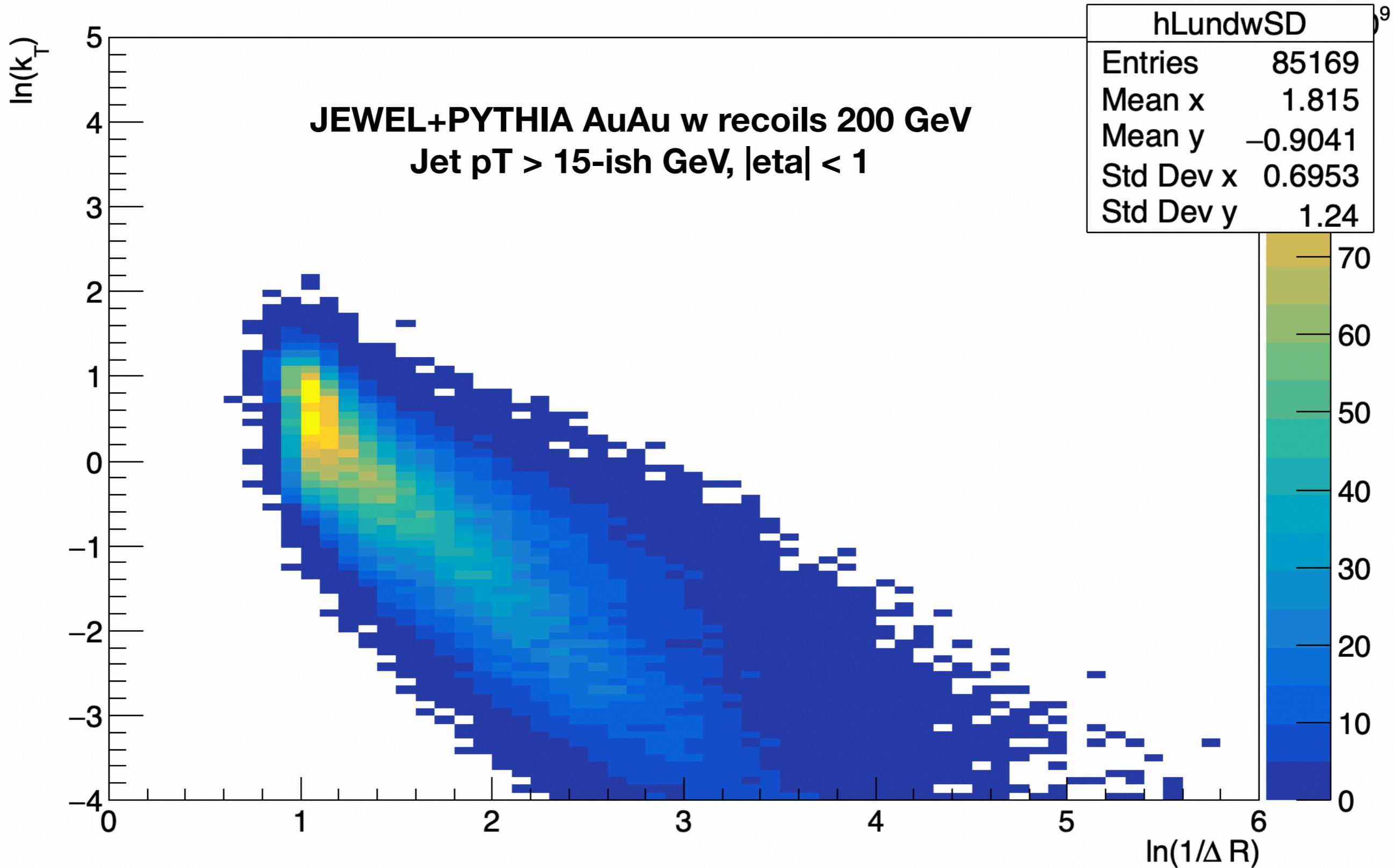
Lund Plane w/ SoftDrop



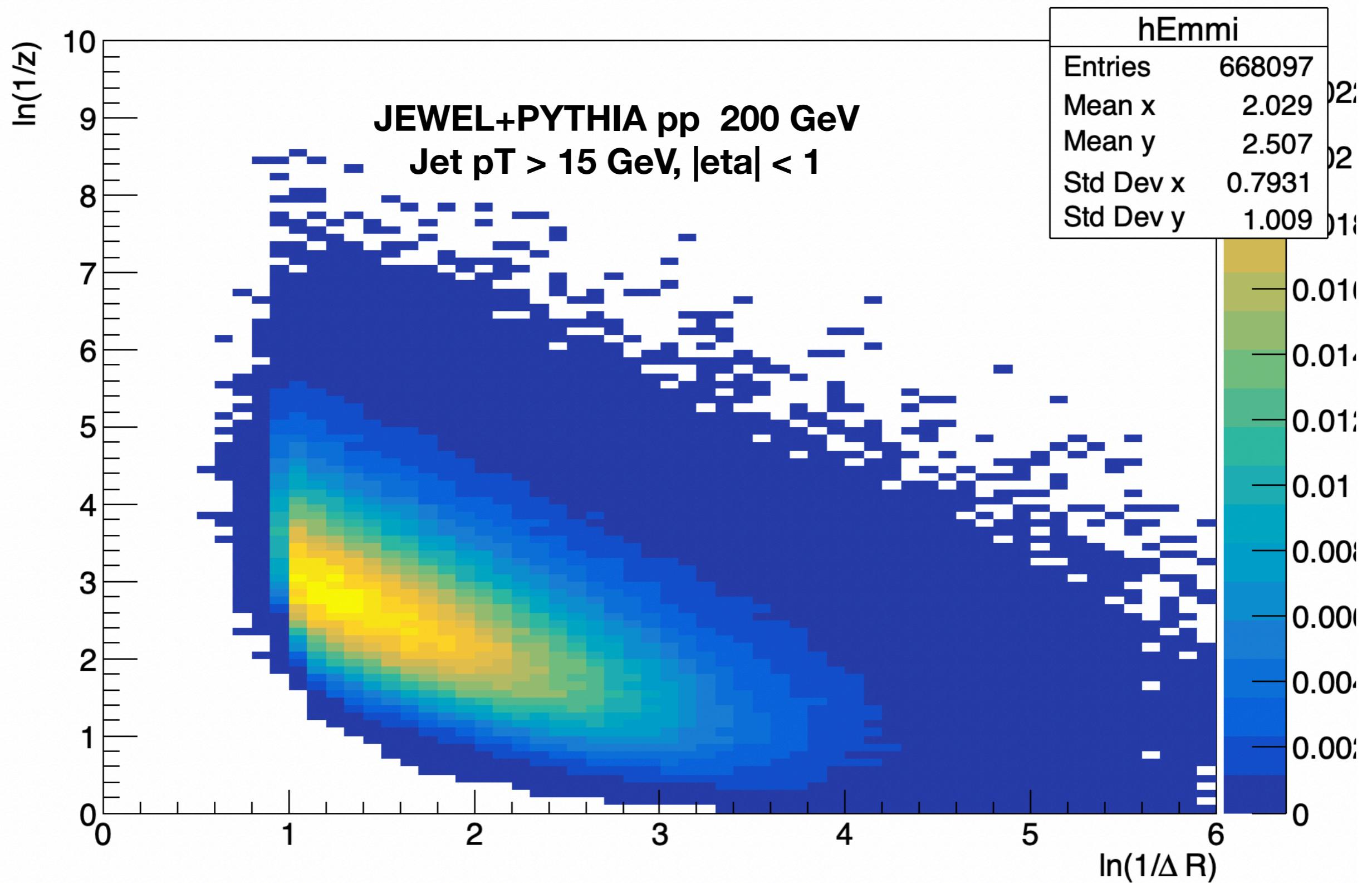
Lund Plane w/ SoftDrop



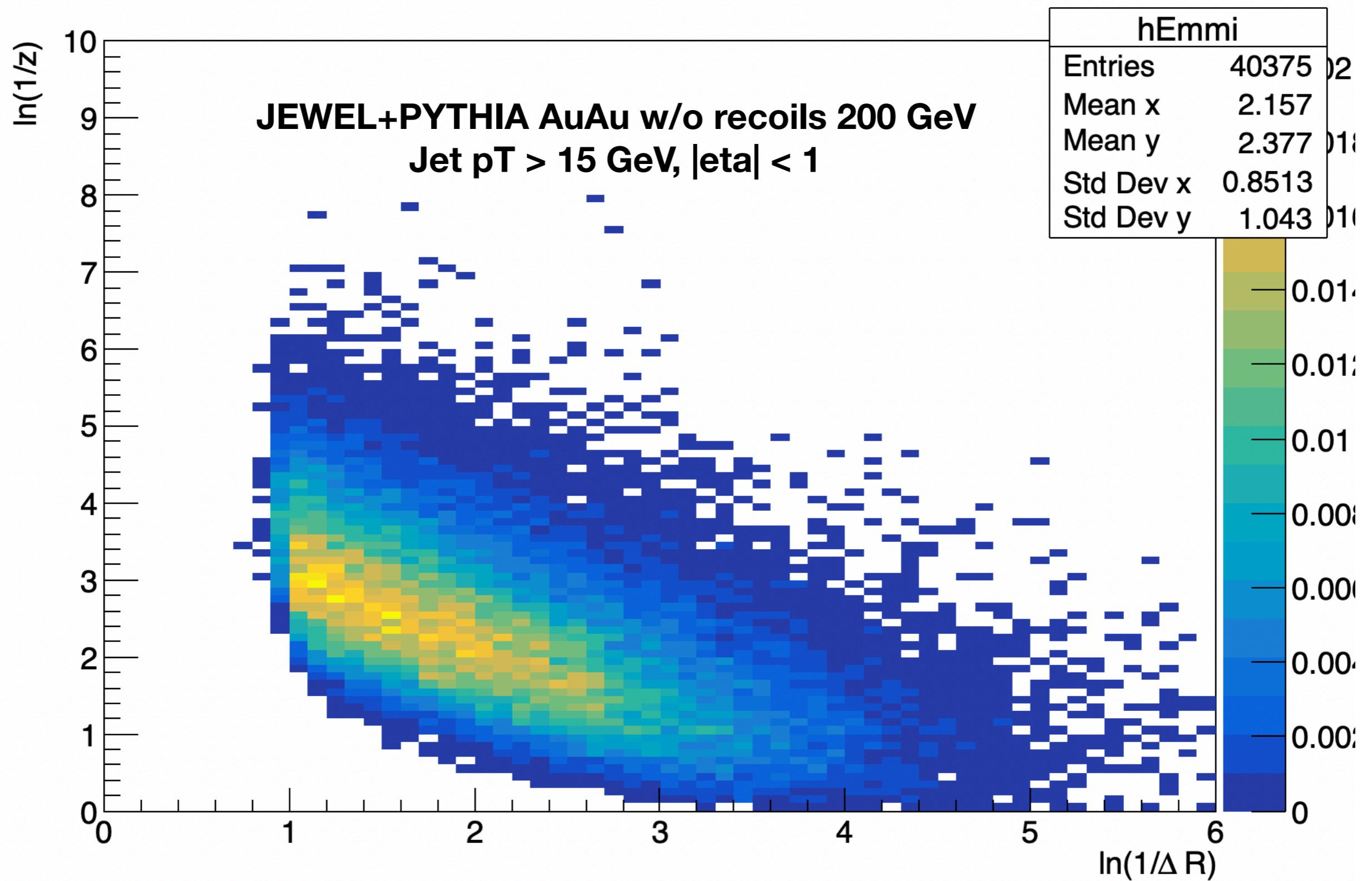
Lund Plane w/ SoftDrop



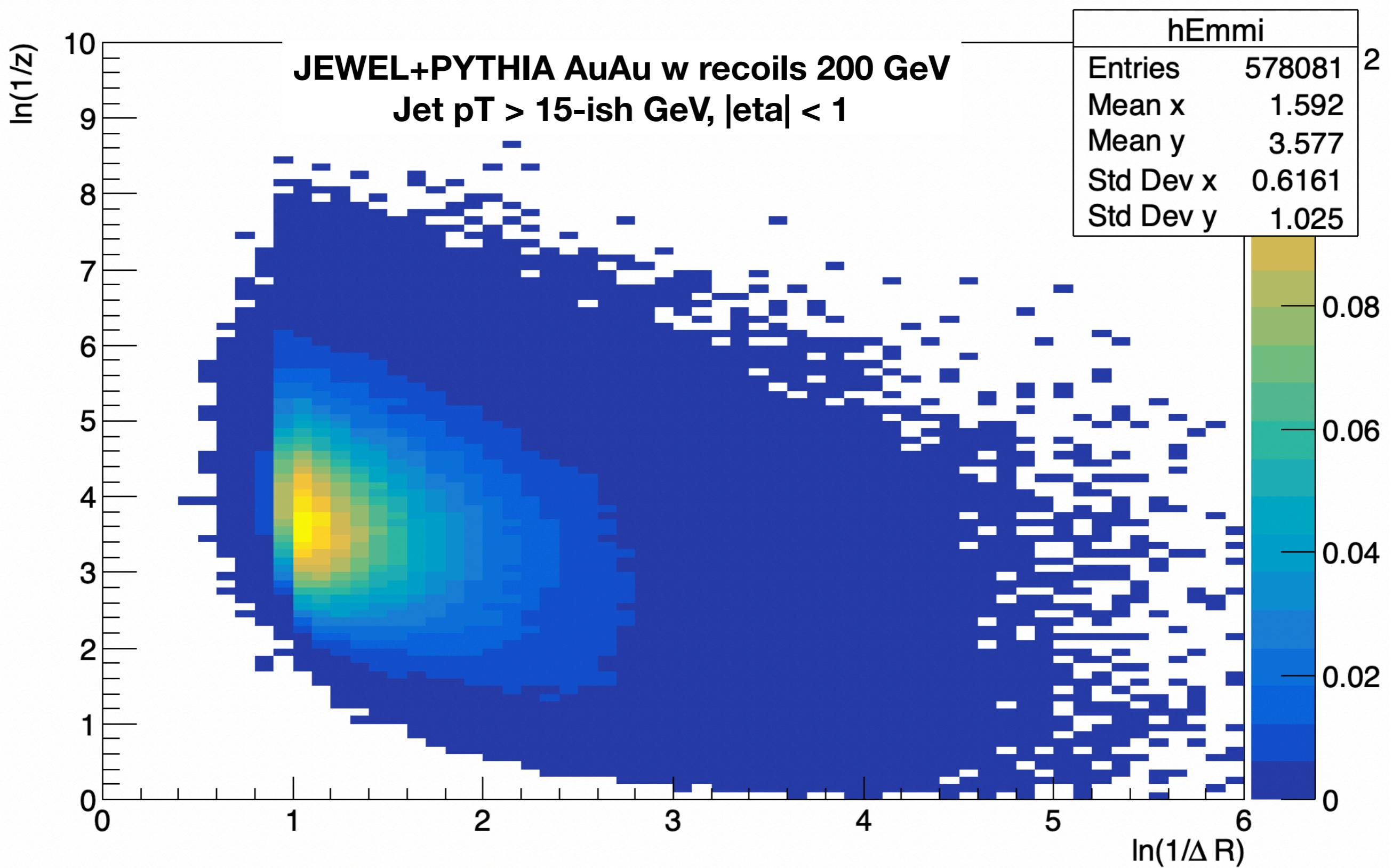
EMMI Plane



EMMI Plane

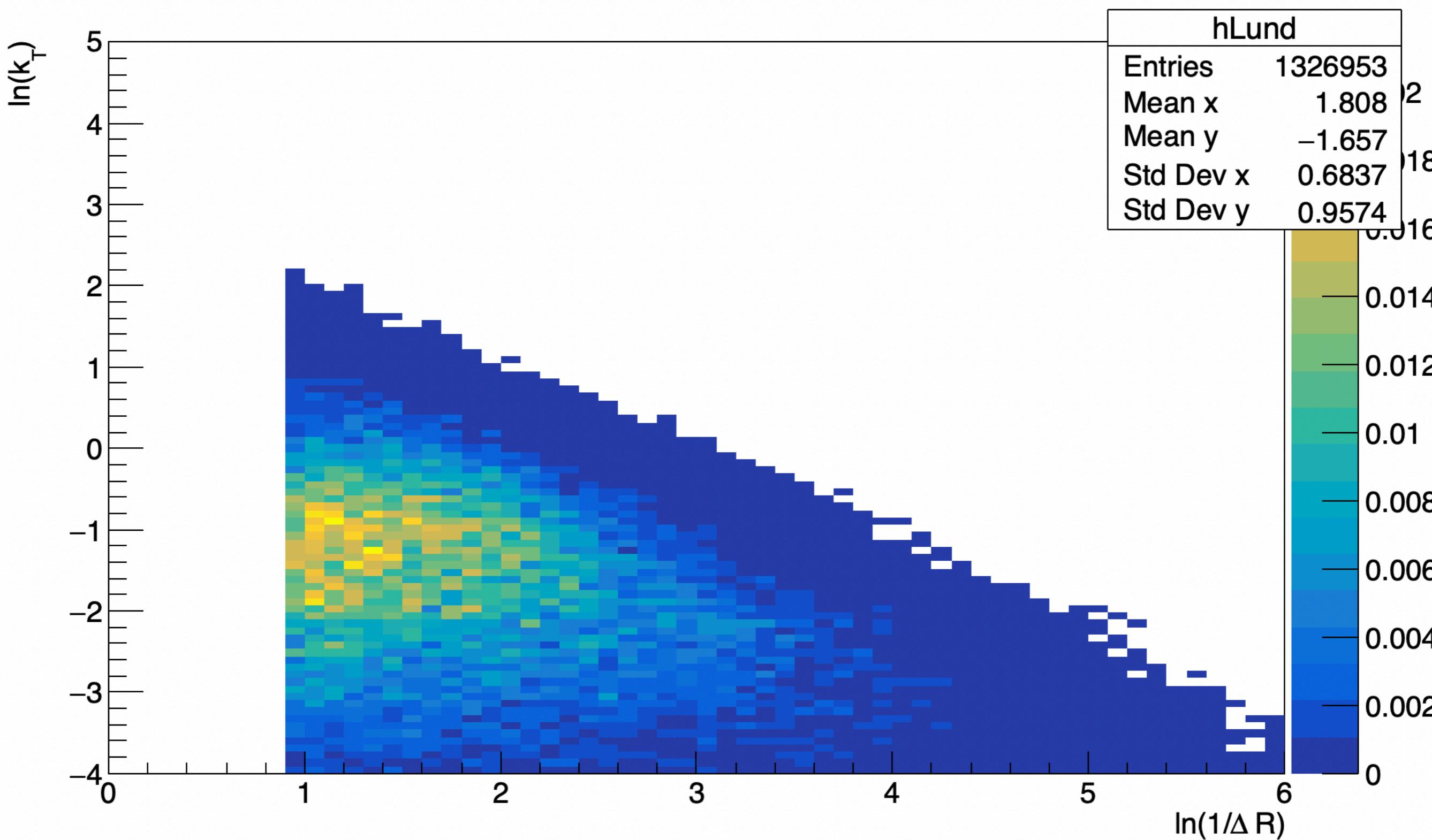


EMMI Plane



**Q-PYTHIA pp 200 GeV
Jet pT > 15 GeV, |eta| < 1**

Lund Plane



QPYTHIA Thanks to Liliana!

Q-PYTHIA AuAu 200 GeV

qhat = 4

Jet pT > 15 GeV, |eta| < 1

Lund Plane

$\ln(k_T)$

5
4
3
2
1
0
-1
-2
-3
-4

1

2

3

4

5

6

$\ln(1/\Delta R)$

hLund	
Entries	1156375
Mean x	1.665
Mean y	-1.609
Std Dev x	0.6266
Std Dev y	0.9965

45
40
35
30
25
20
15
10
05
00

QPYTHIA Thanks to Liliana!

Q-PYTHIA AuAu 200 GeV

qhat = 16

Jet pT > 15 GeV, |eta| < 1

Lund Plane

$\ln(k_T)$

5
4
3
2
1
0
-1
-2
-3
-4

1

2

3

4

5

6

$\ln(1/\Delta R)$

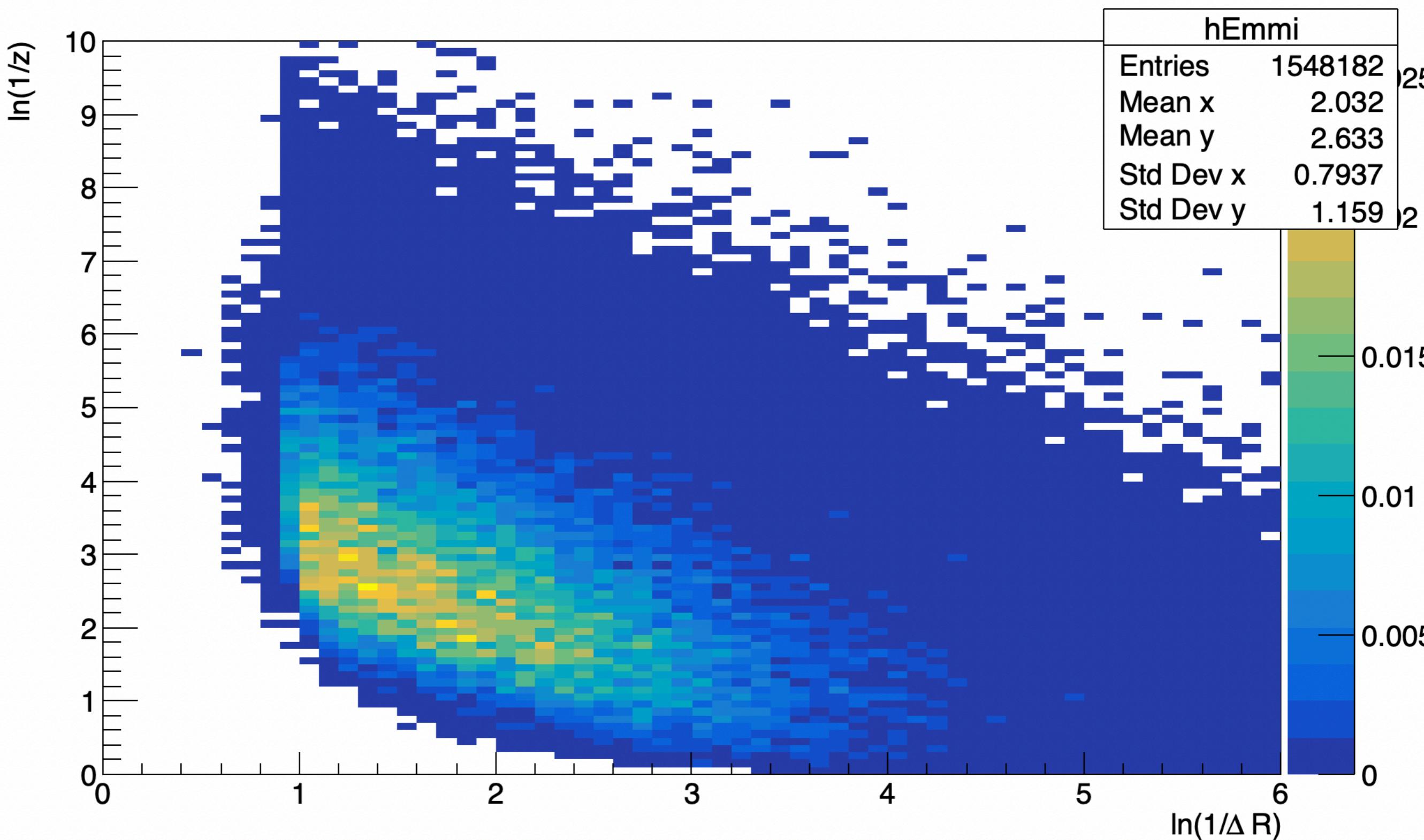
hLund	
Entries	698387
Mean x	1.675
Mean y	-1.604
Std Dev x	0.6428
Std Dev y	1.01

0.03
0.025
0.02
0.015
0.01
0.005
0

QPYTHIA Thanks to Liliana!

**Q-PYTHIA pp 200 GeV
Jet pT > 15 GeV, |eta| < 1**

EMMI Plane



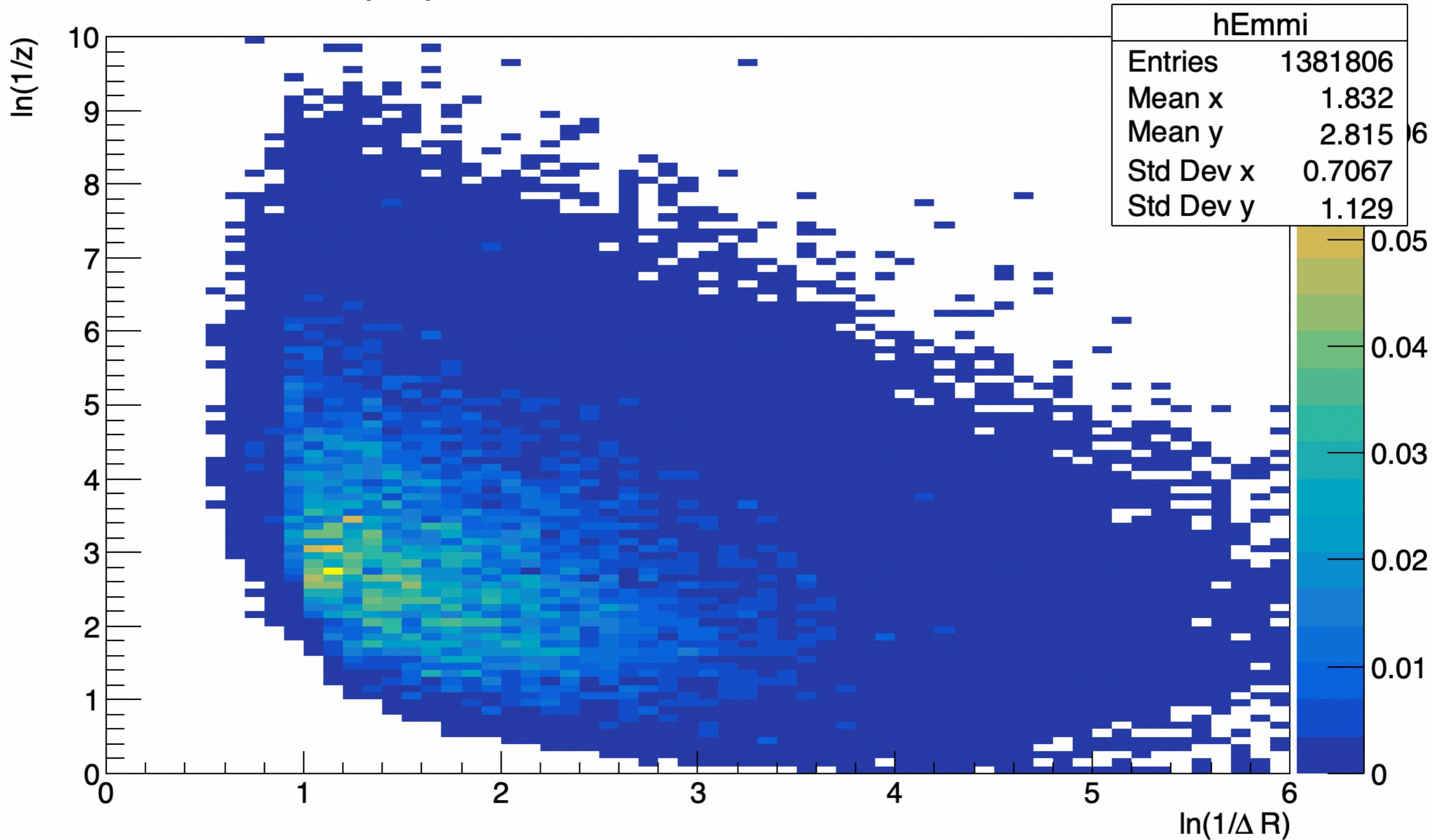
QPYTHIA Thanks to Liliana!

Q-PYTHIA AuAu 200 GeV

qhat = 4

Jet pT > 15 GeV, |eta| < 1

EMMI Plane



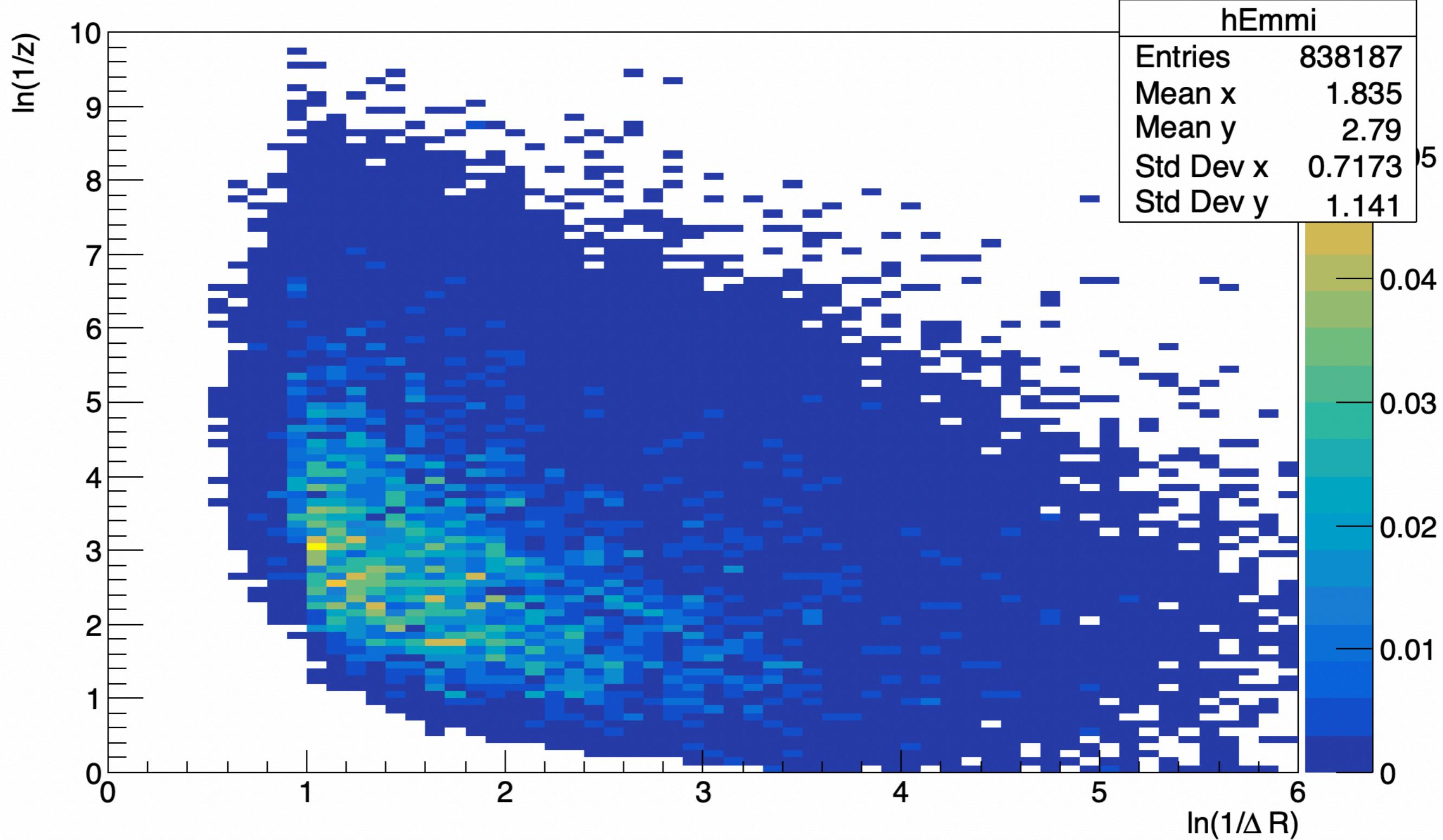
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Q-PYTHIA AuAu 200 GeV

qhat = 16

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EMMI Plane



QPYTHIA Thanks to Liliana!