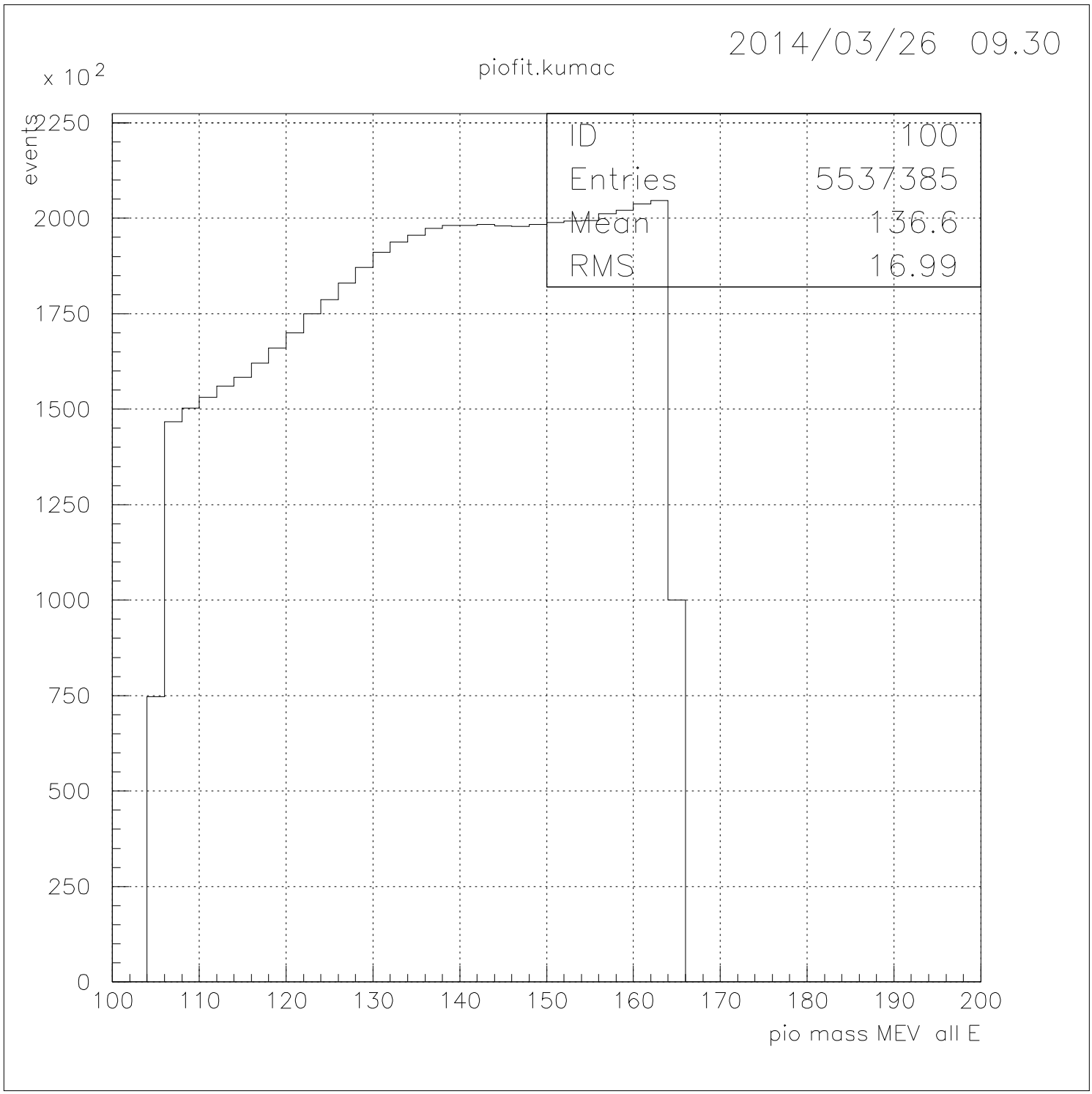
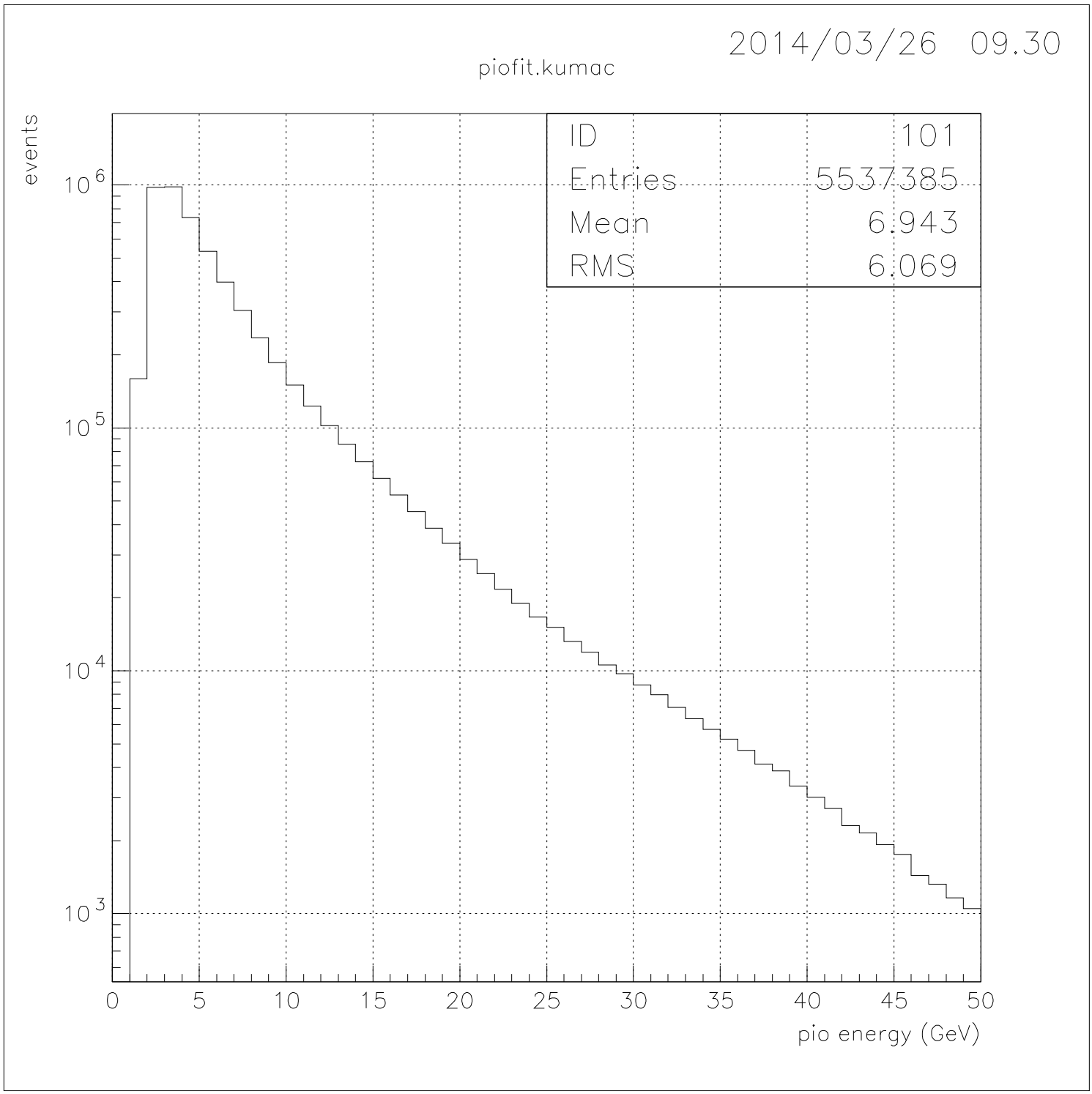
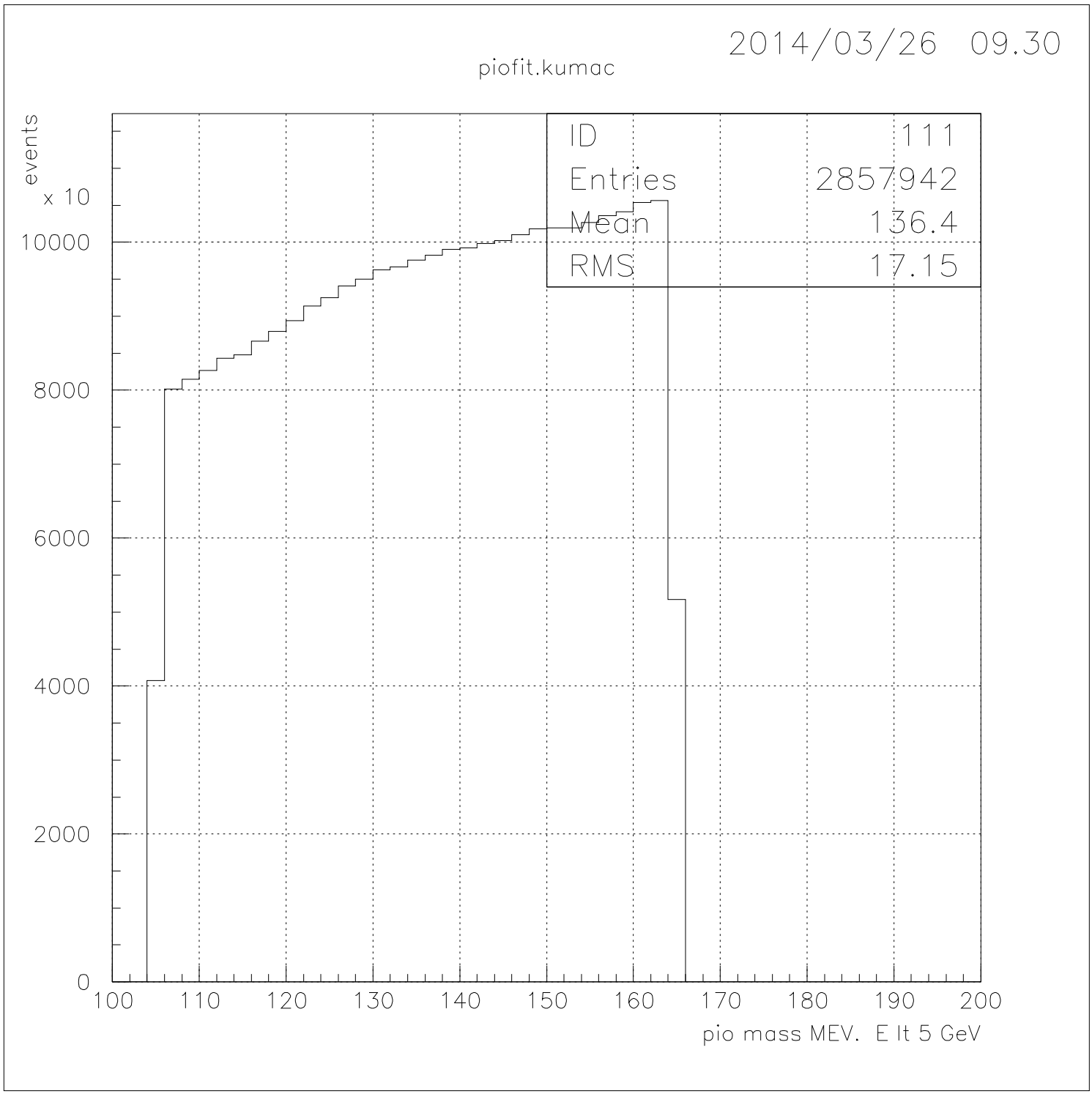
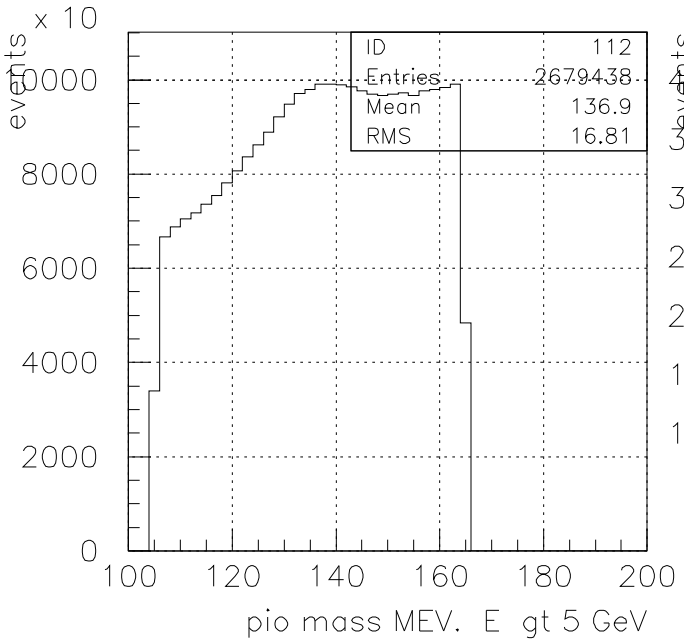

2014/03/26 09.30
piofit.kumac
x 10 2
events
2250
2000
1750
1500
1250
1000
750
500
250
0
ID 100
Entries 5537385
Mean 136.6
RMS 16.99
100
110
120
130
140
150
160
170
180
190
200
pio mass MEV all E

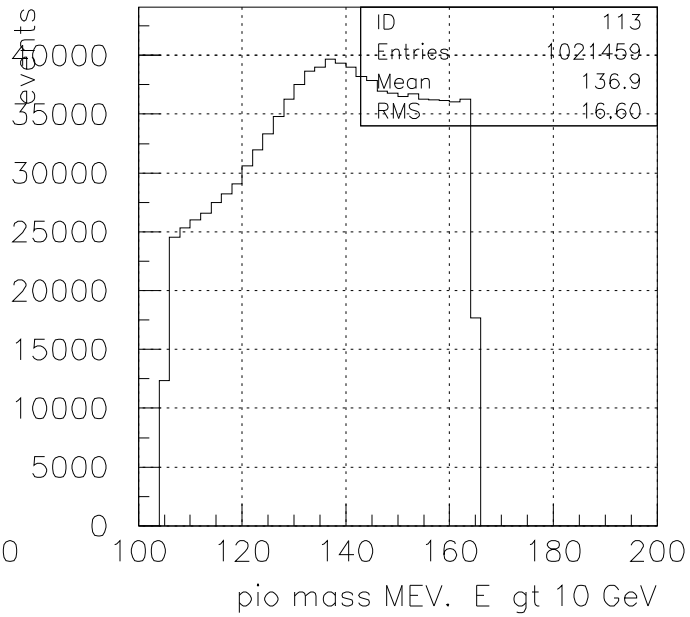

2014/03/26 09.30
piofit.kumac
events
ID 101
Entries 5537385
Mean 6.943
RMS 6.069
$10^6$
$10^5$
$10^4$
$10^3$
0 5 10 15 20 25 30 35 40 45 50
pio energy (GeV)

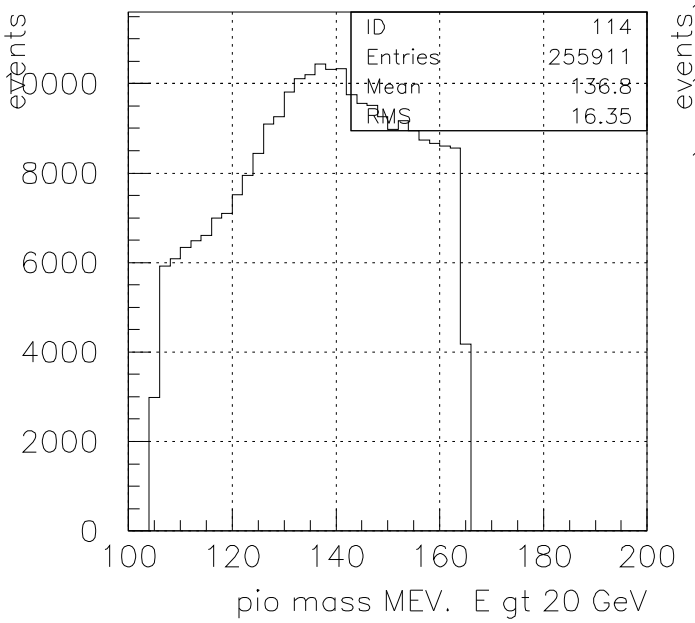

2014/03/26 09.30
piofit.kumac
events
x 10
10000
8000
6000
4000
2000
0
ID 111
Entries 2857942
Mean 136.4
RMS 17.15
100
110
120
130
140
150
160
170
180
190
200
pio mass MEV. E lt 5 GeV

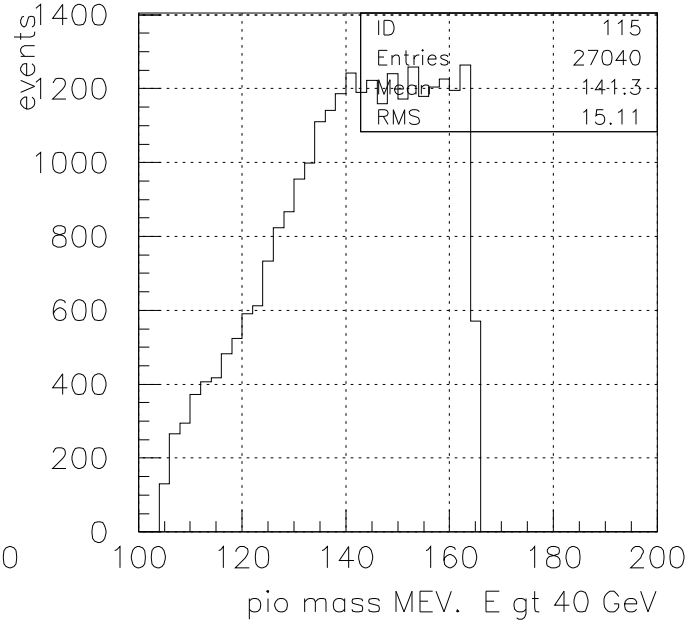
2014/03/26 09.30

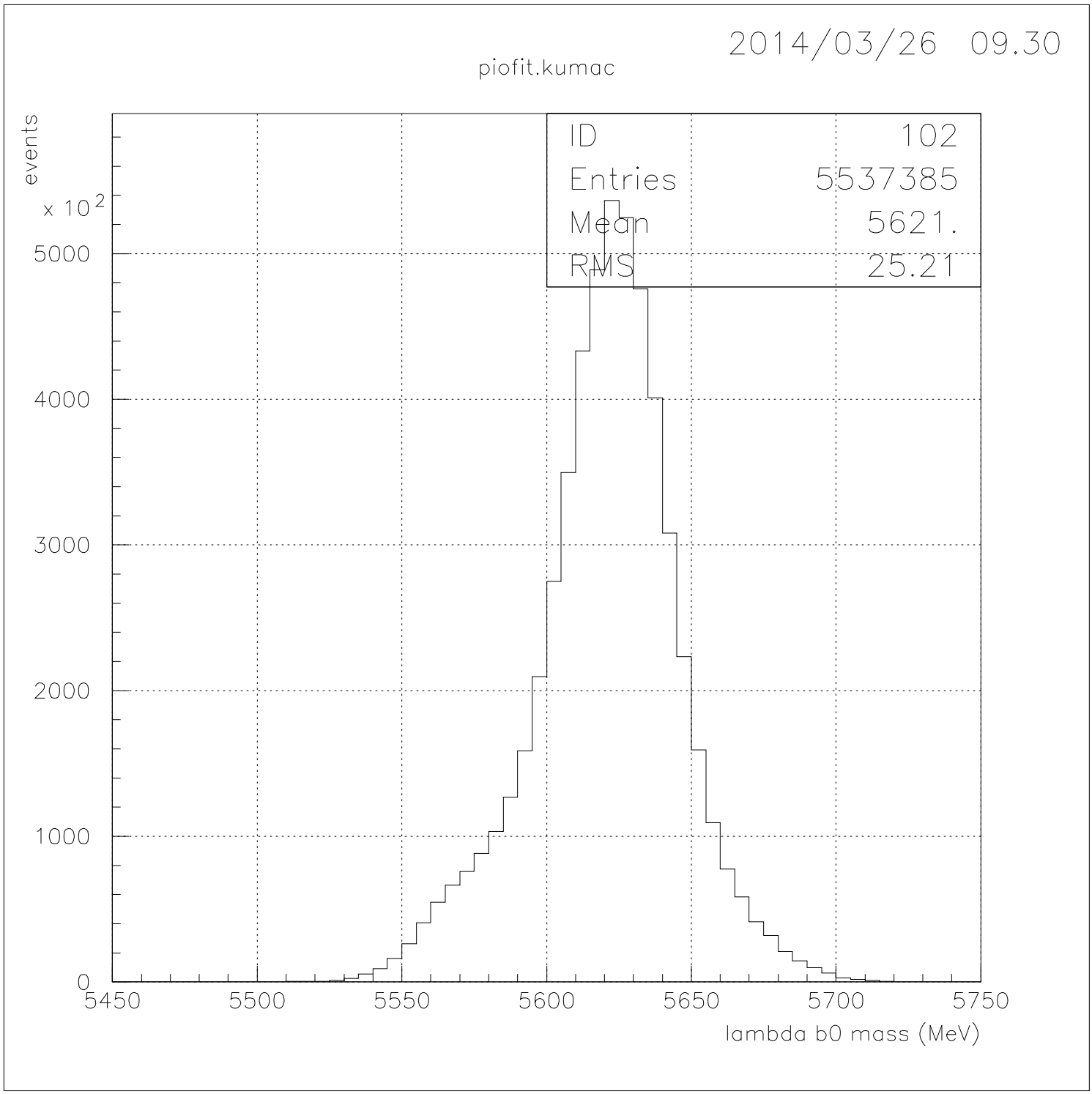
piofit.kumac

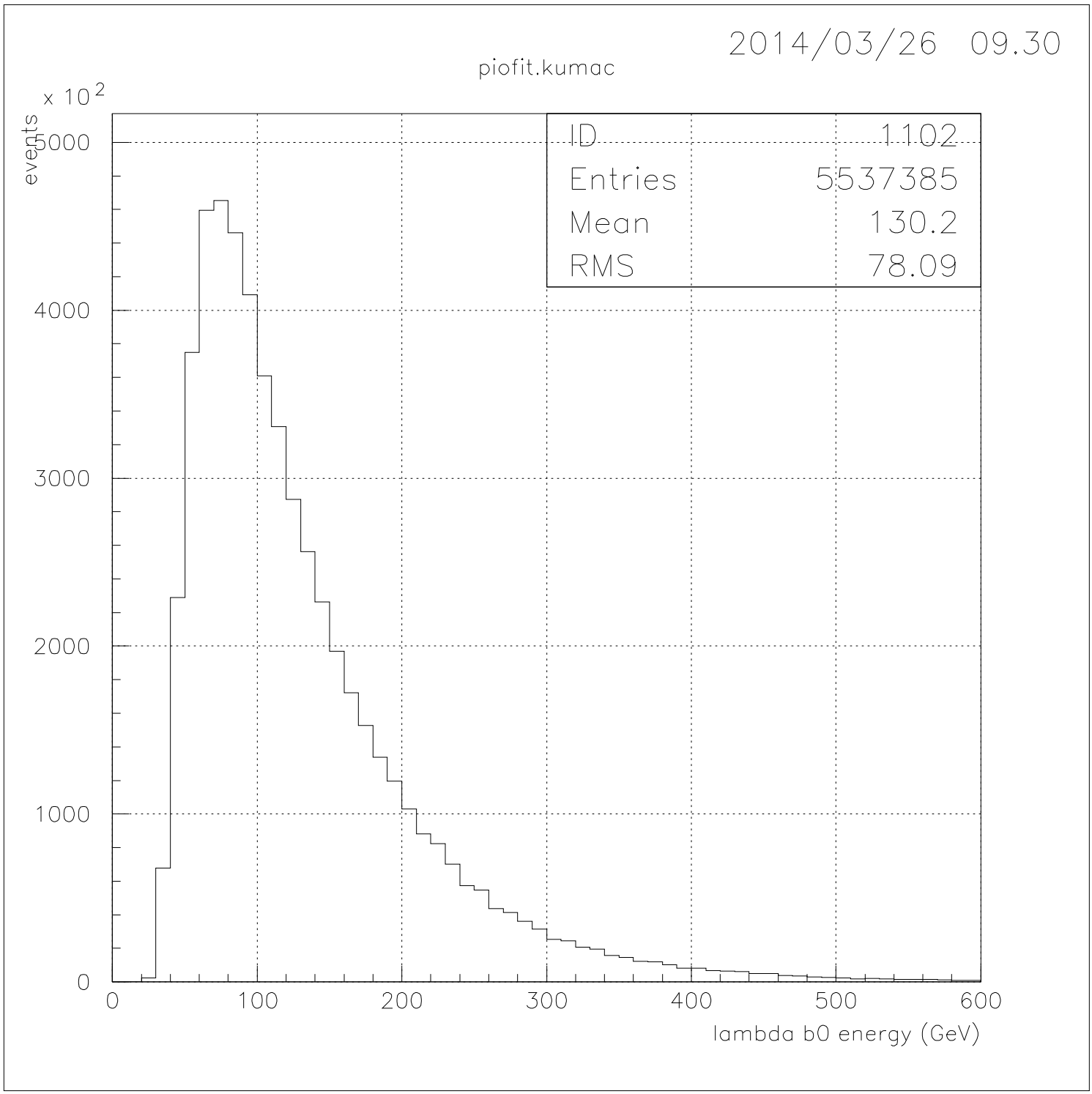


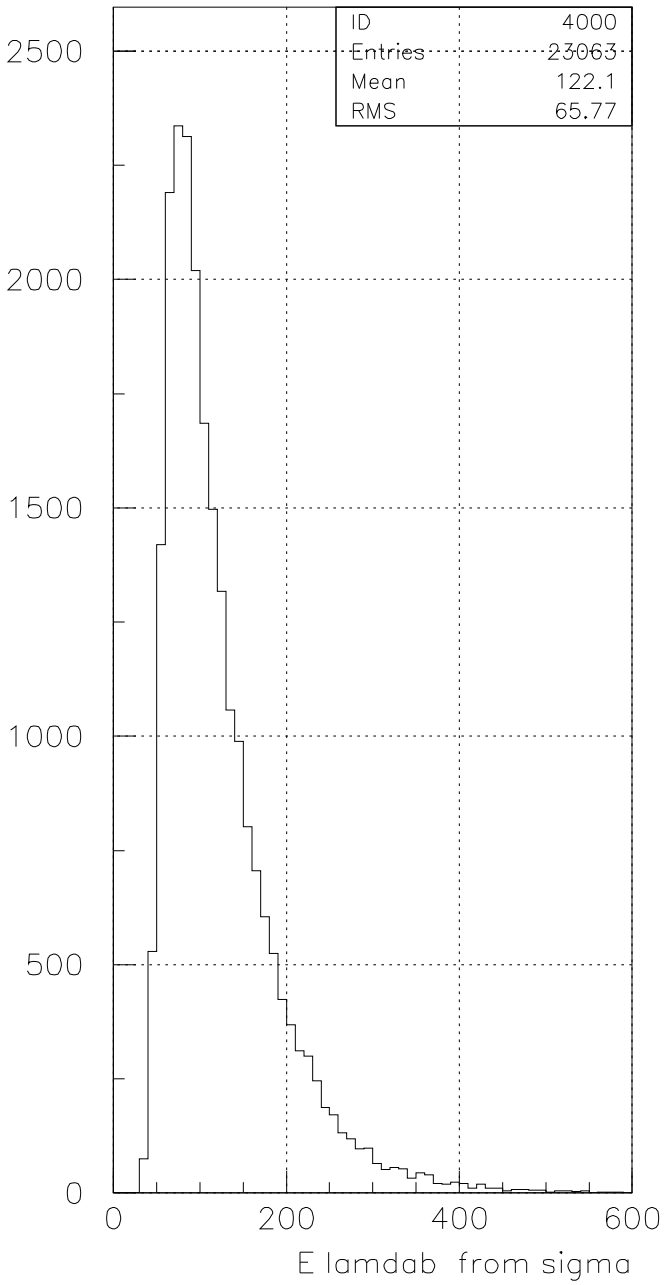



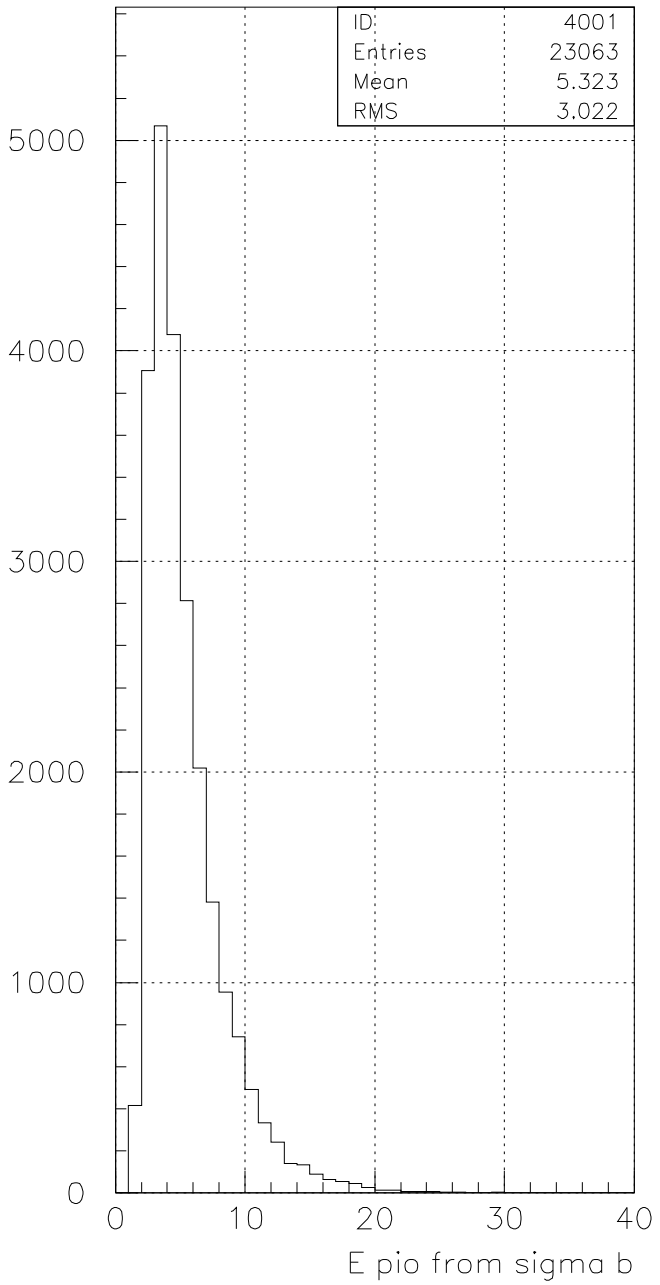

2014/03/26 09.30
piofit.kumac
events
x 10 2
5000
4000
3000
2000
1000
0
ID 102
Entries 5537385
Mean 5621.
RMS 25.21
5450
5500
5550
5600
5650
5700
5750
lambda b0 mass (MeV)


2014/03/26 09.30
piofit.kumac
x 10 2
events
5000
4000
3000
2000
1000
0
ID 1102
Entries 5537385
Mean 130.2
RMS 78.09
0
100
200
300
400
500
600
lambda b0 energy (GeV)

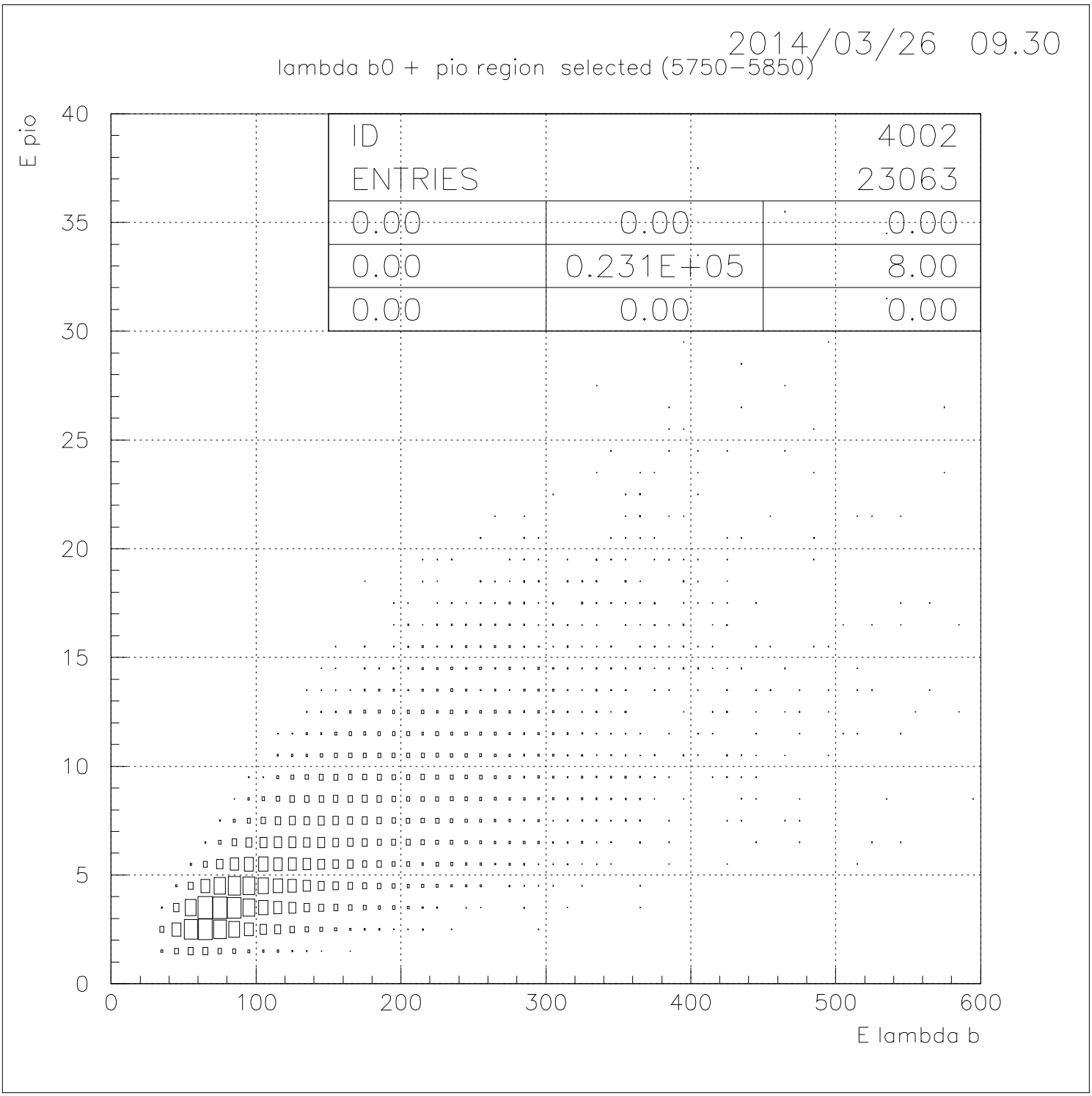
2014/03/26 09.30

lambda b0 + pio region selected (5750−5850)



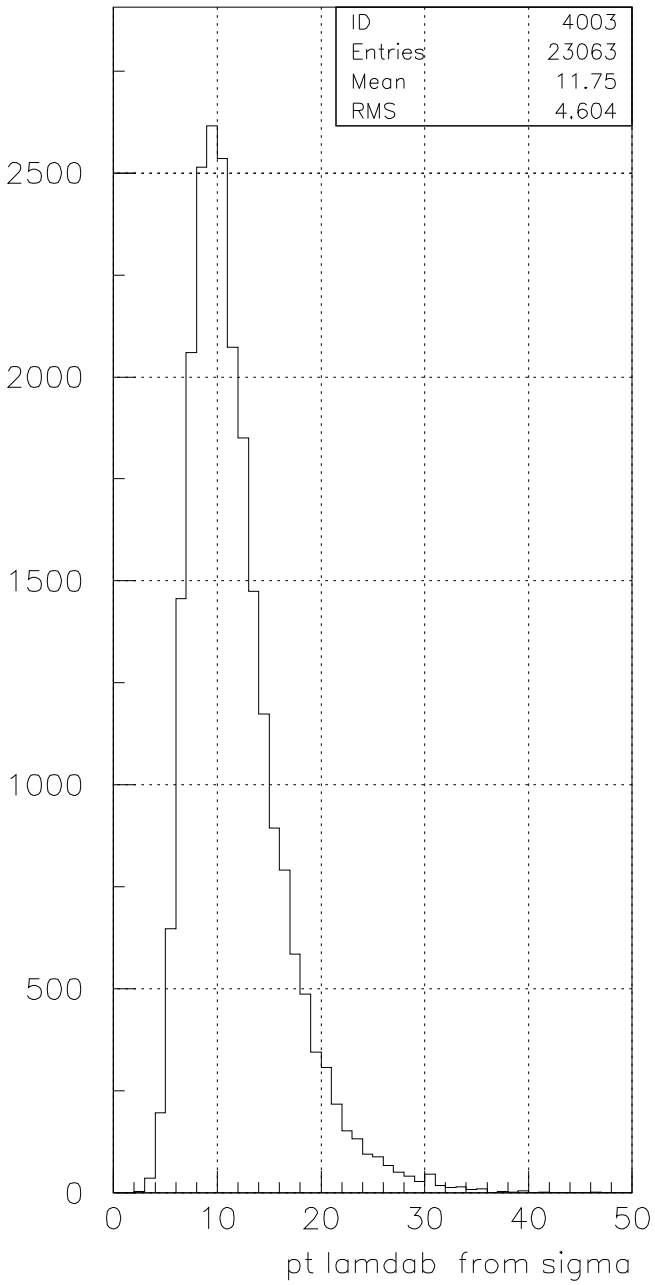



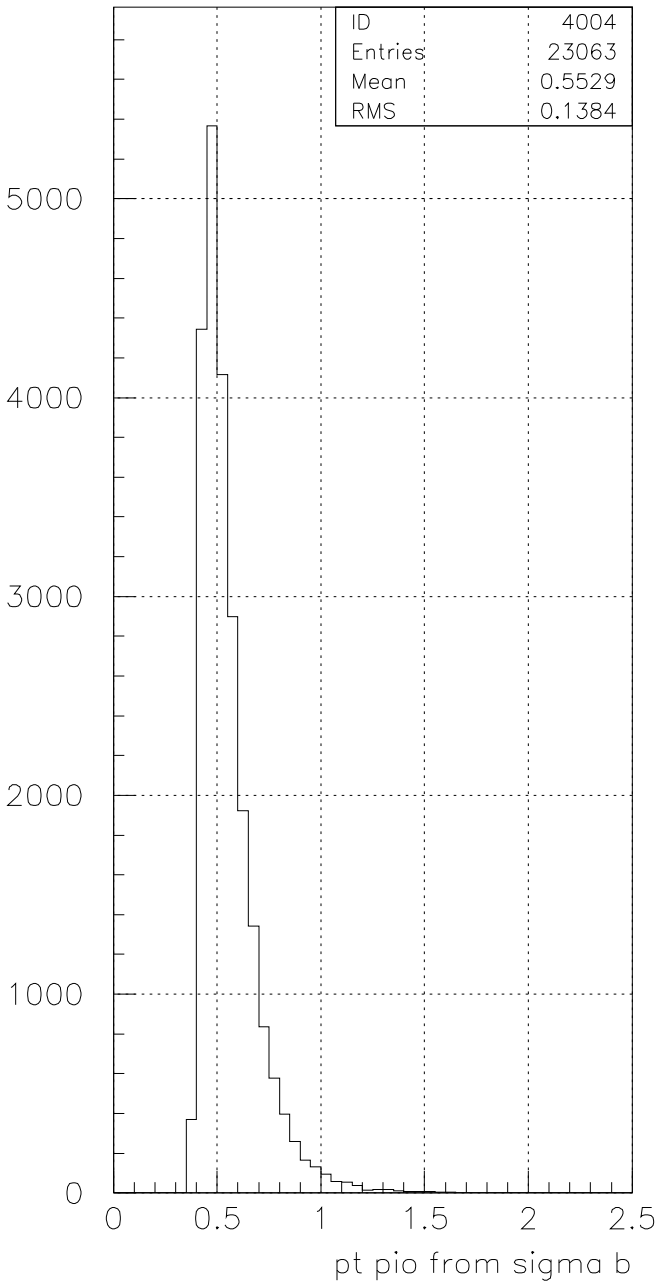
2014/03/26 09.30



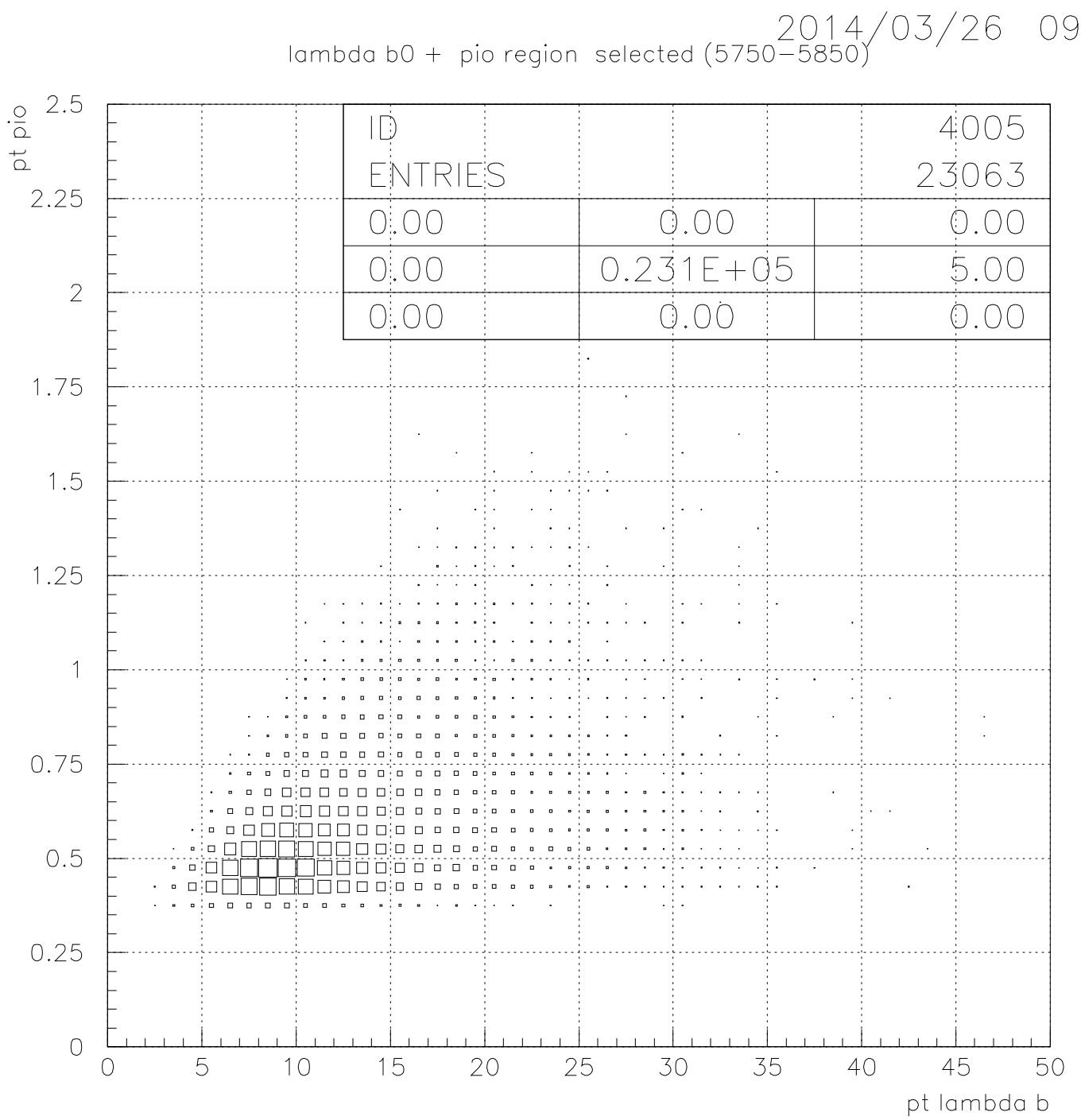
2014/03/26 09.30

lambda b0 + pio region selected (5750−5850)

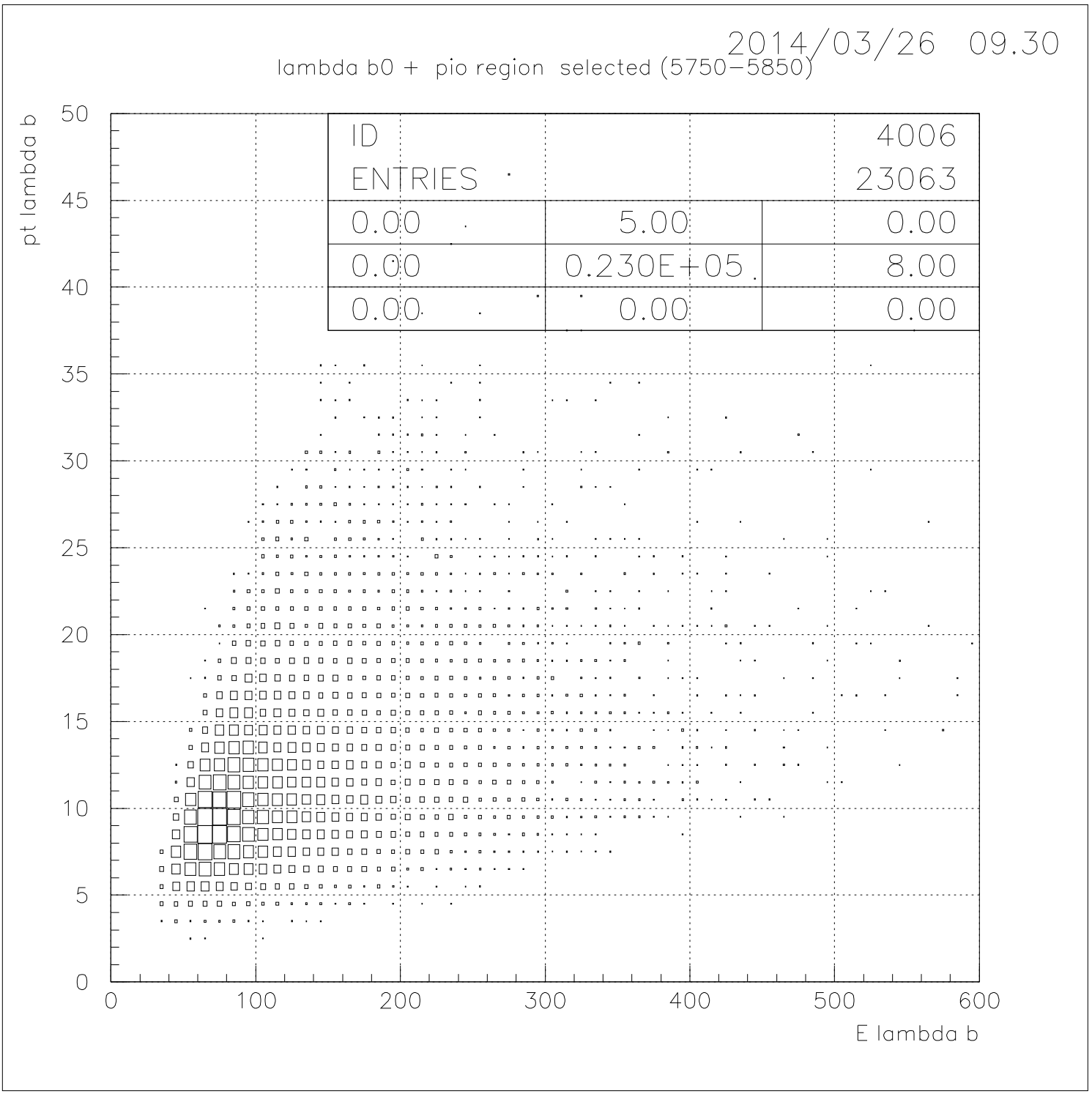


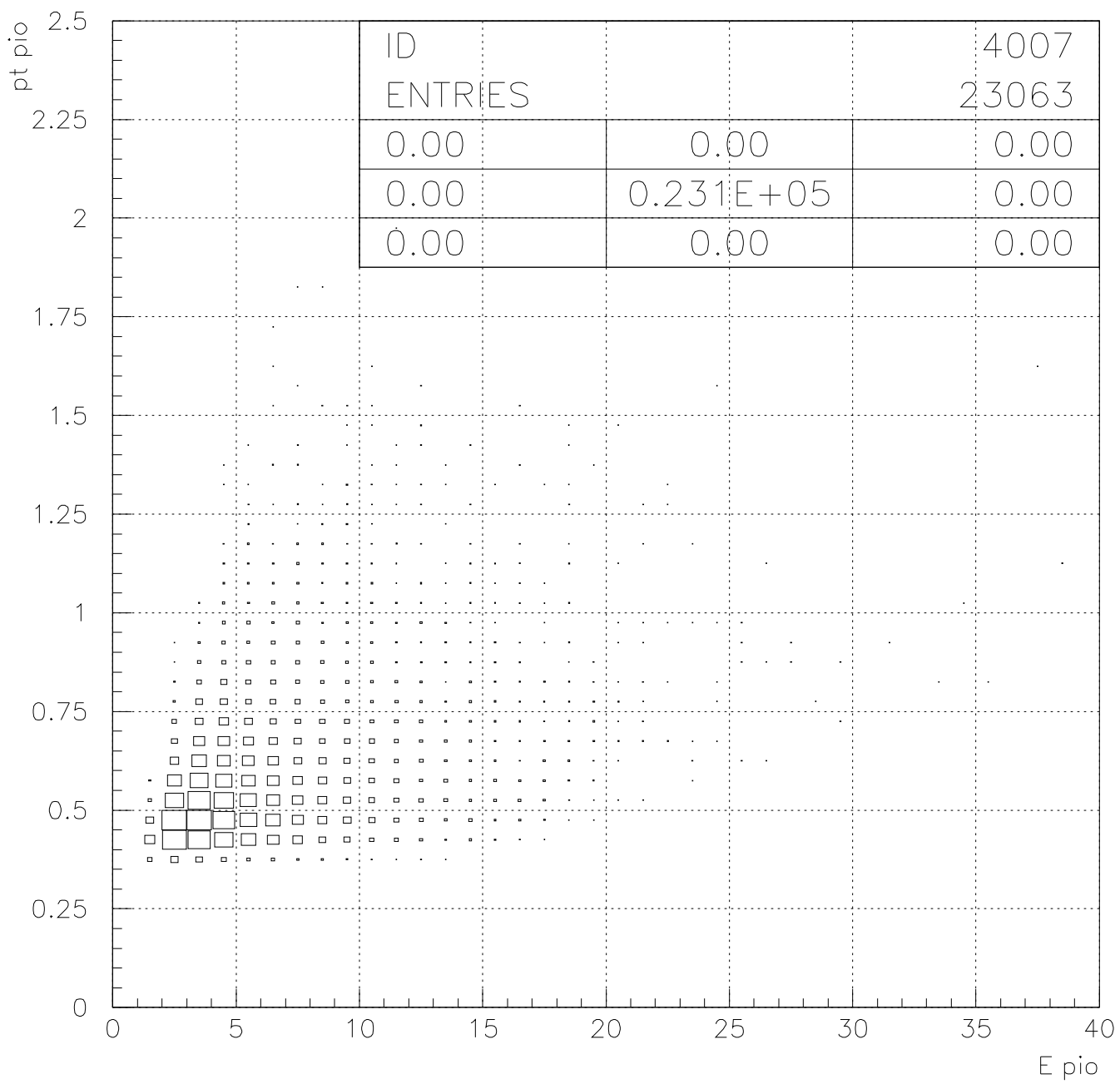
2014/03/26 09.30

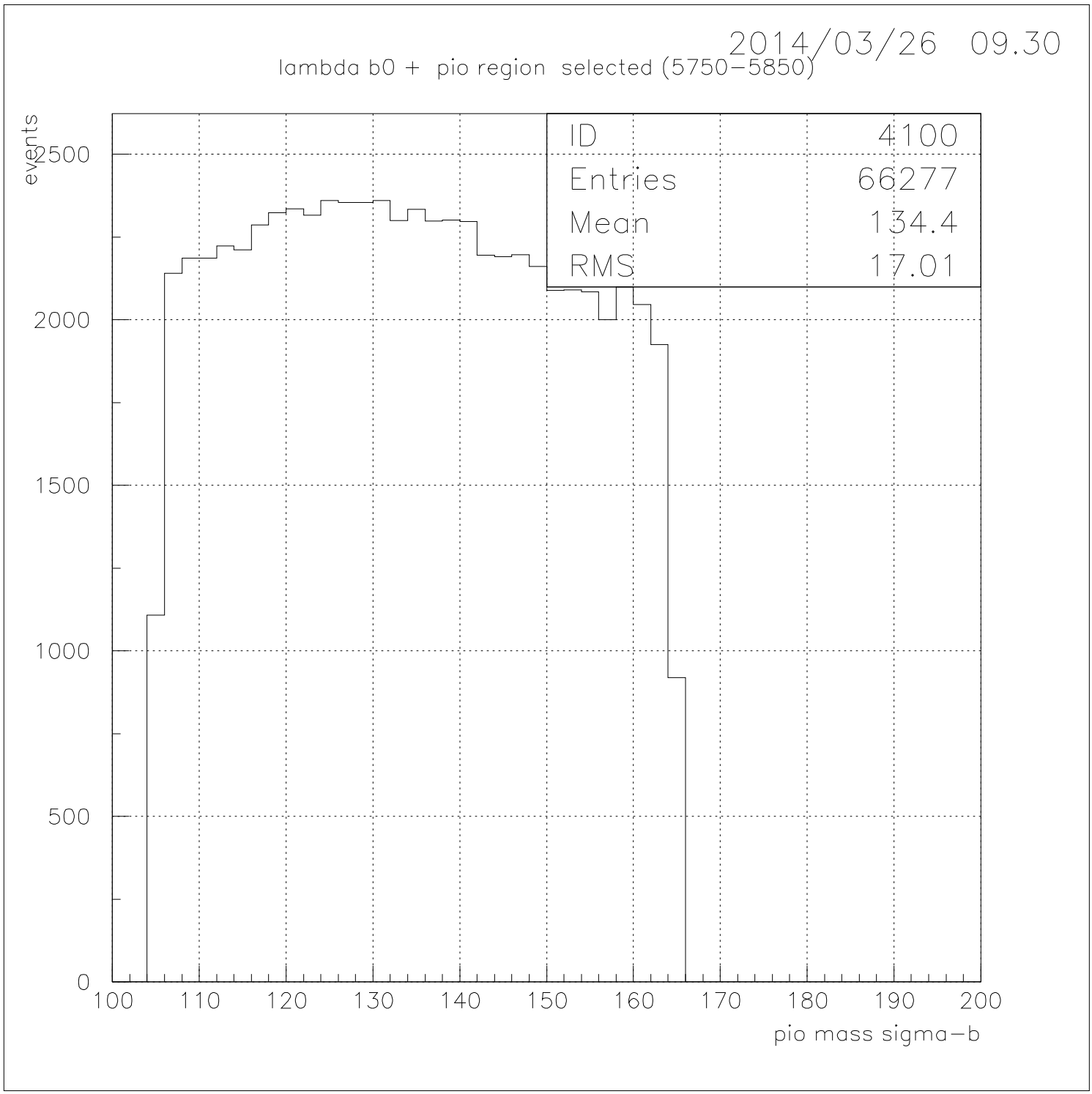


2014/03/26 09.30



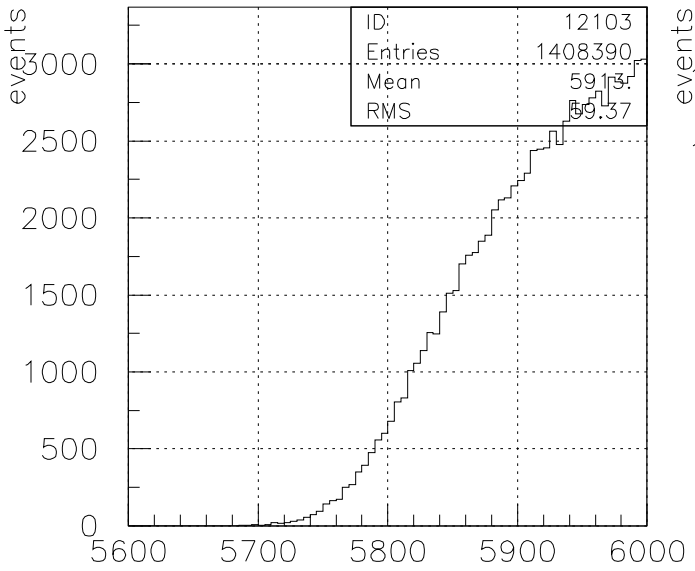
2014/03/26 09.30



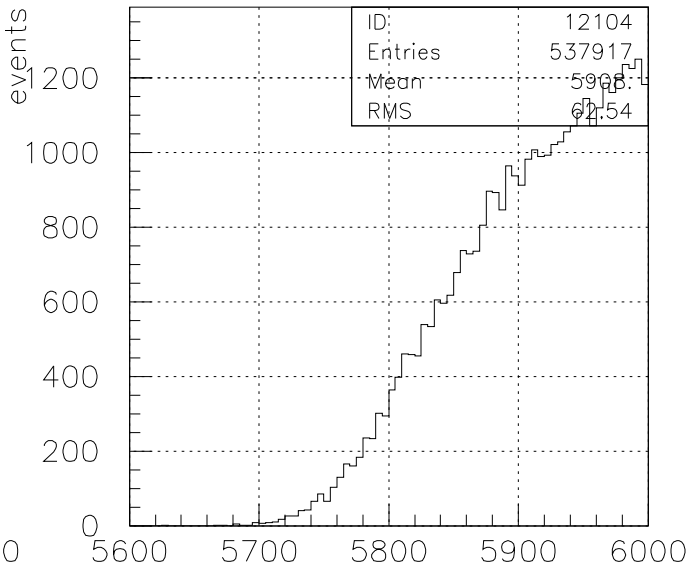

2014/03/26 09.30
lambda b0 + pio region selected (5750−5850)
events
ID 4100
Entries 66277
Mean 134.4
RMS 17.01
2500
2000
1500
1000
500
0
100
110
120
130
140
150
160
170
180
190
200
pio mass sigma−b

2014/03/26 09.30

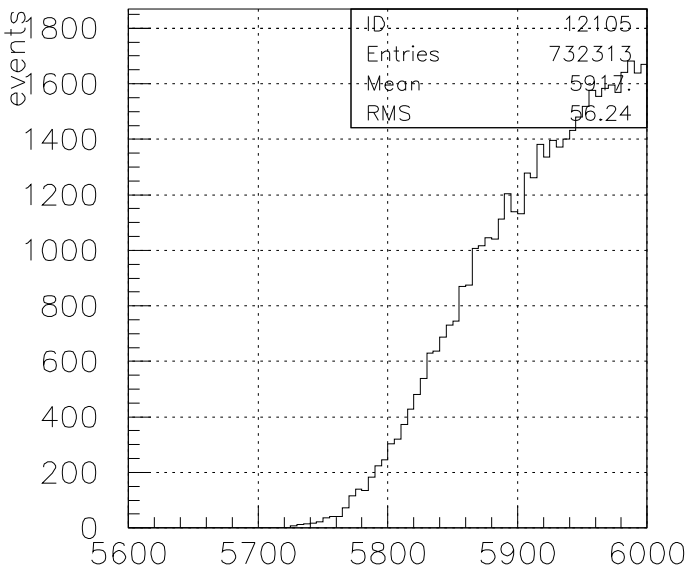
pio gt 5 GeV broad pio



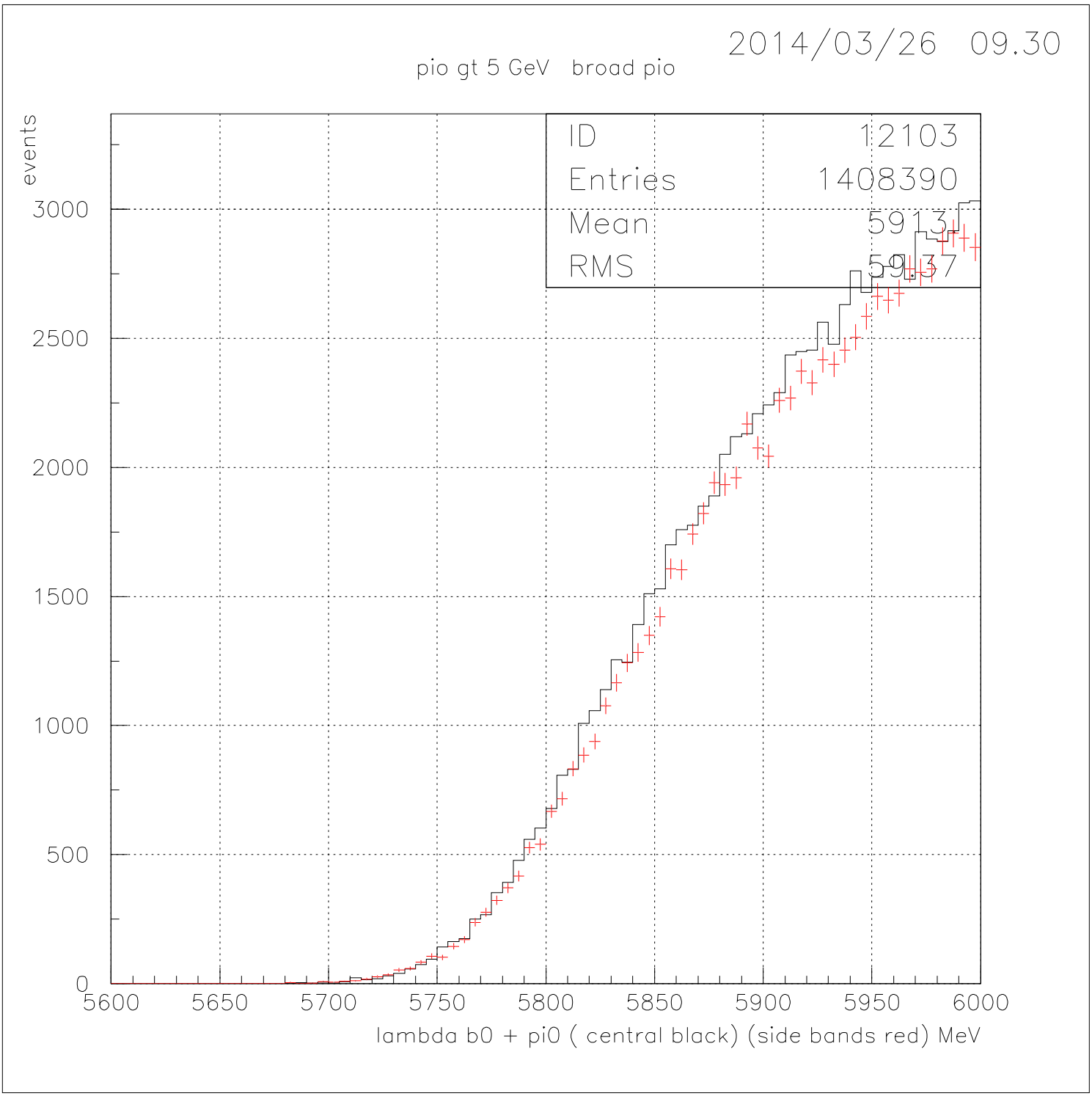

lambda b0 + pio mass (MeV) 120 to 150

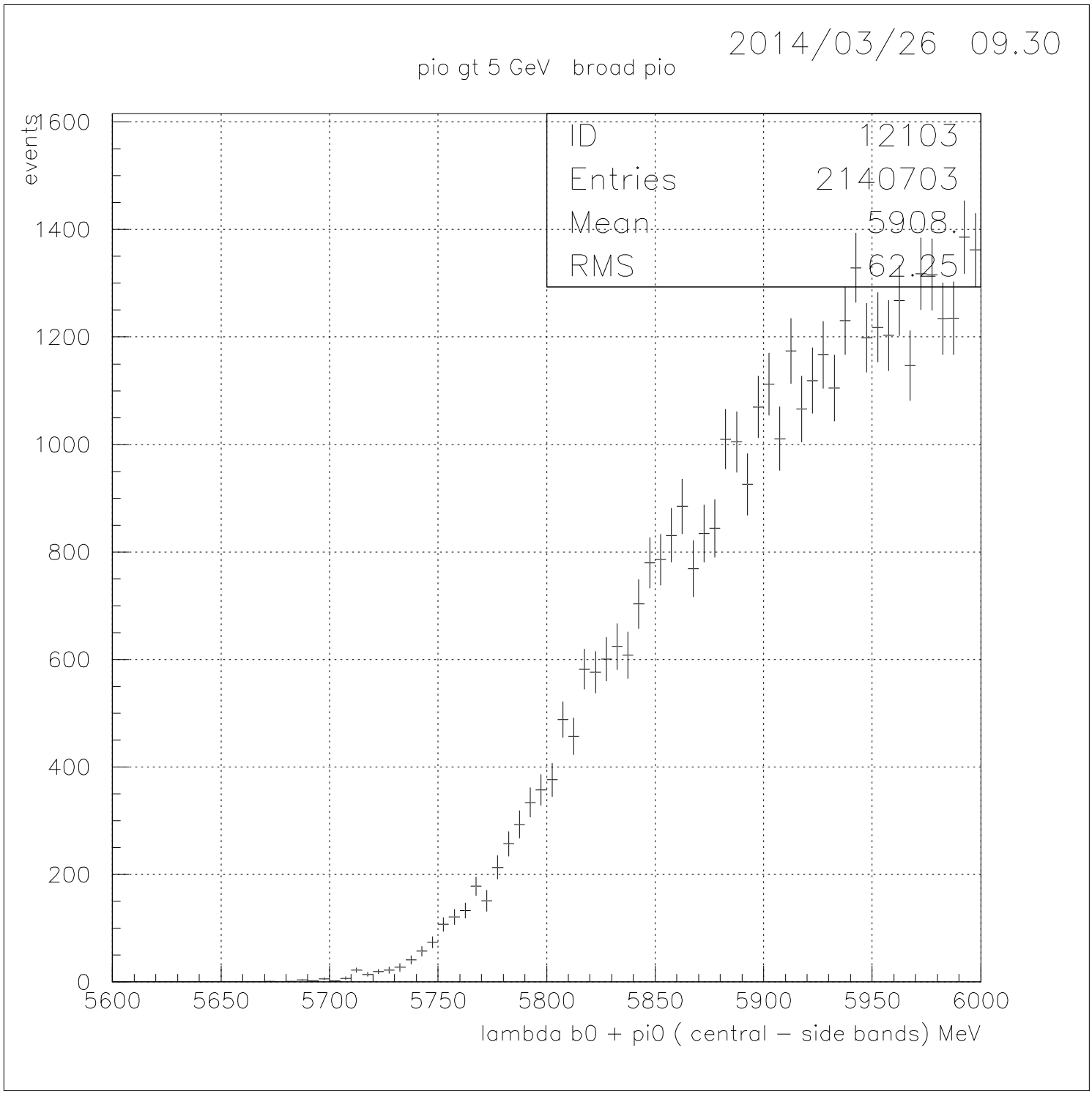



lambda b0 + pio mass (MeV) 105 to 120



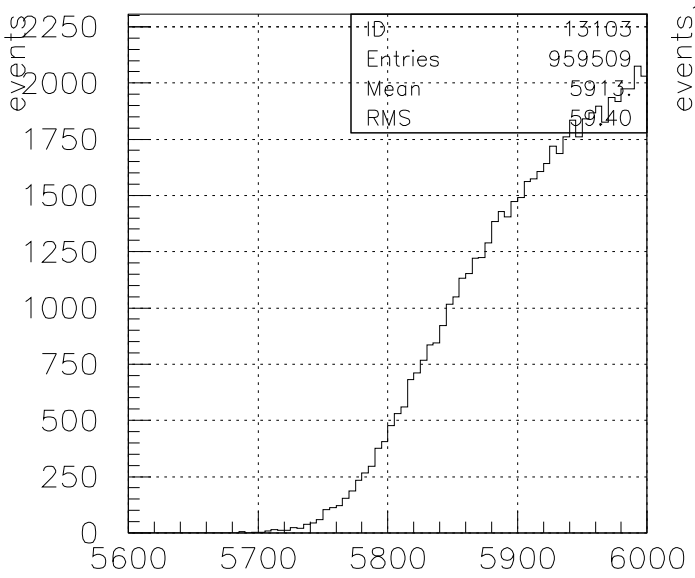

lambda b0 + pio mass (MeV) 150 to 160


2014/03/26 09.30
pio gt 5 GeV broad pio
events
ID 12103
Entries 1408390
Mean 5913
RMS 59.37
3000
2500
2000
1500
1000
500
0
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central black) (side bands red) MeV

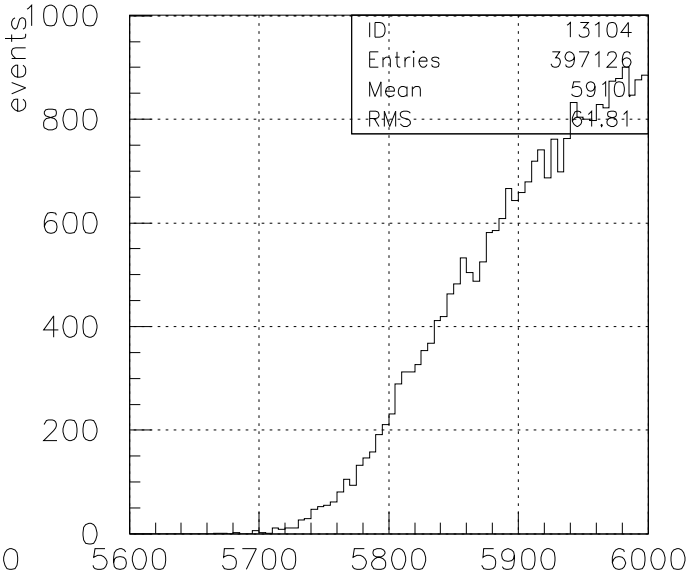

2014/03/26 09.30
pio gt 5 GeV broad pio
events
ID 12103
Entries 2140703
Mean 5908.
RMS 62.25
0
200
400
600
800
1000
1200
1400
1600
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central − side bands) MeV

2014/03/26 09.30

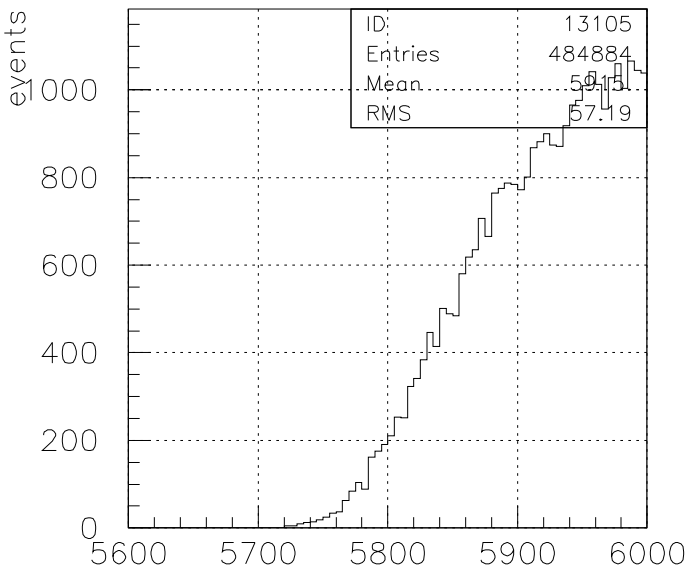
pio gt 5 GeV narrow pio



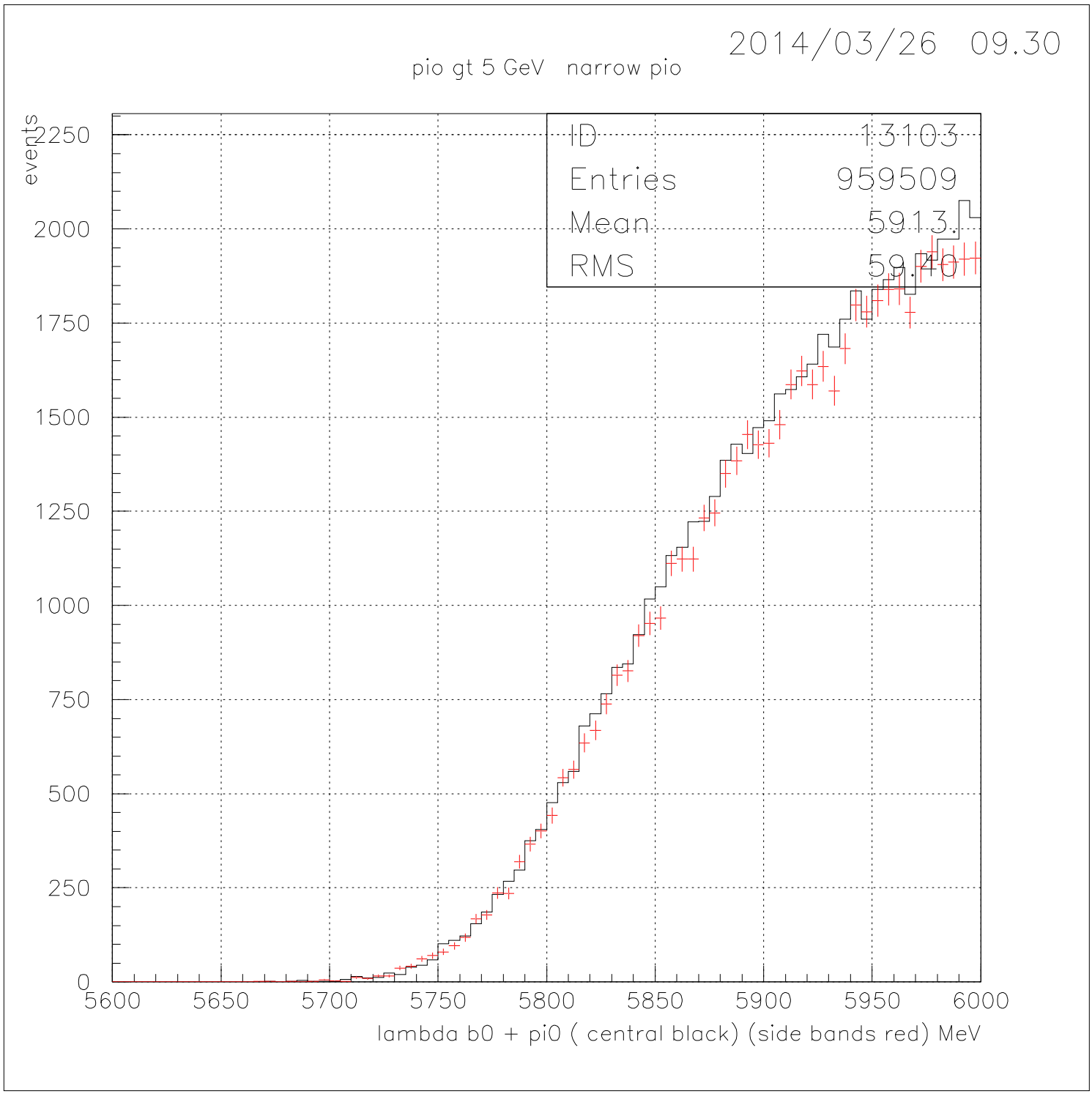

lambda b0 + pio mass (MeV) 125 to 145

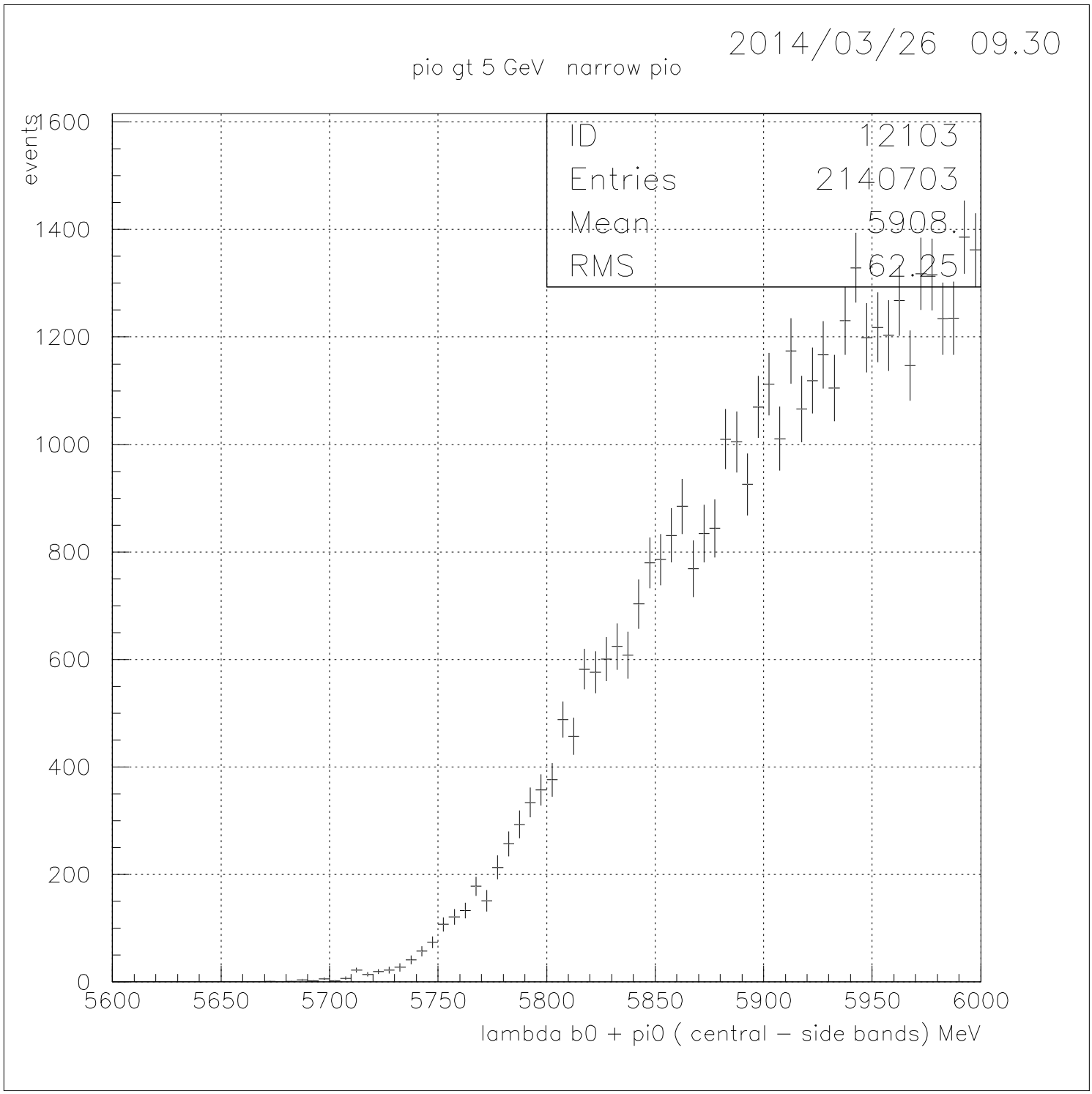



lambda b0 + pio mass (MeV) 115 to 125



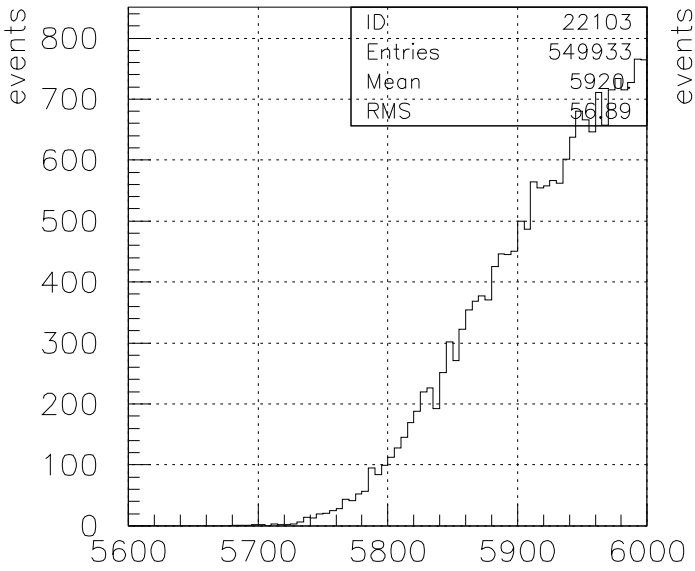

lambda b0 + pio mass (MeV) 145 to 155

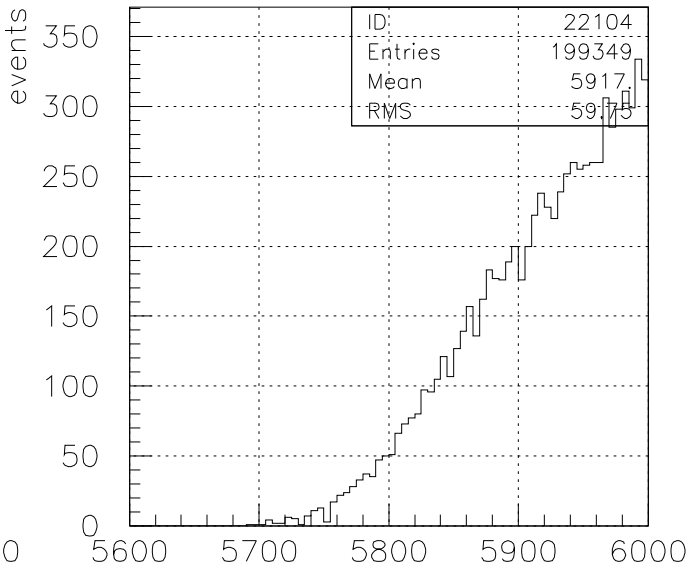

2014/03/26 09.30
pio gt 5 GeV narrow pio
events
ID 13103
Entries 959509
Mean 5913.
RMS 59.40
2250
2000
1750
1500
1250
1000
750
500
250
0
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central black) (side bands red) MeV

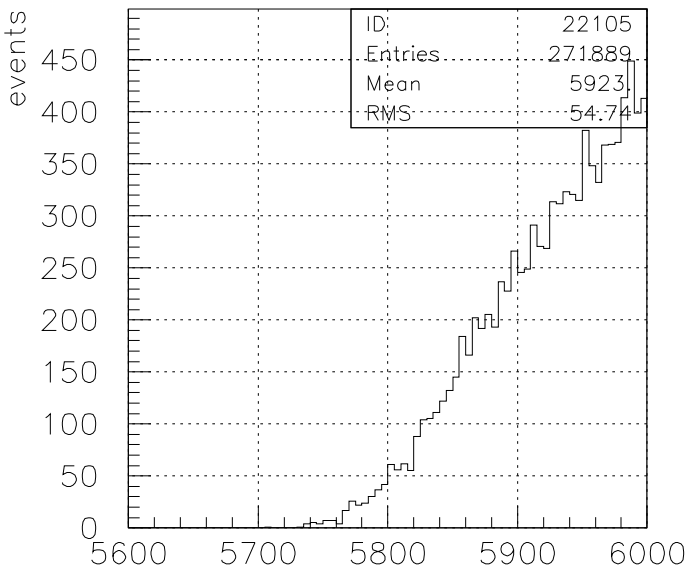

2014/03/26 09.30
pio gt 5 GeV narrow pio
events
ID 12103
Entries 2140703
Mean 5908.
RMS 62.25
0
200
400
600
800
1000
1200
1400
1600
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central − side bands) MeV

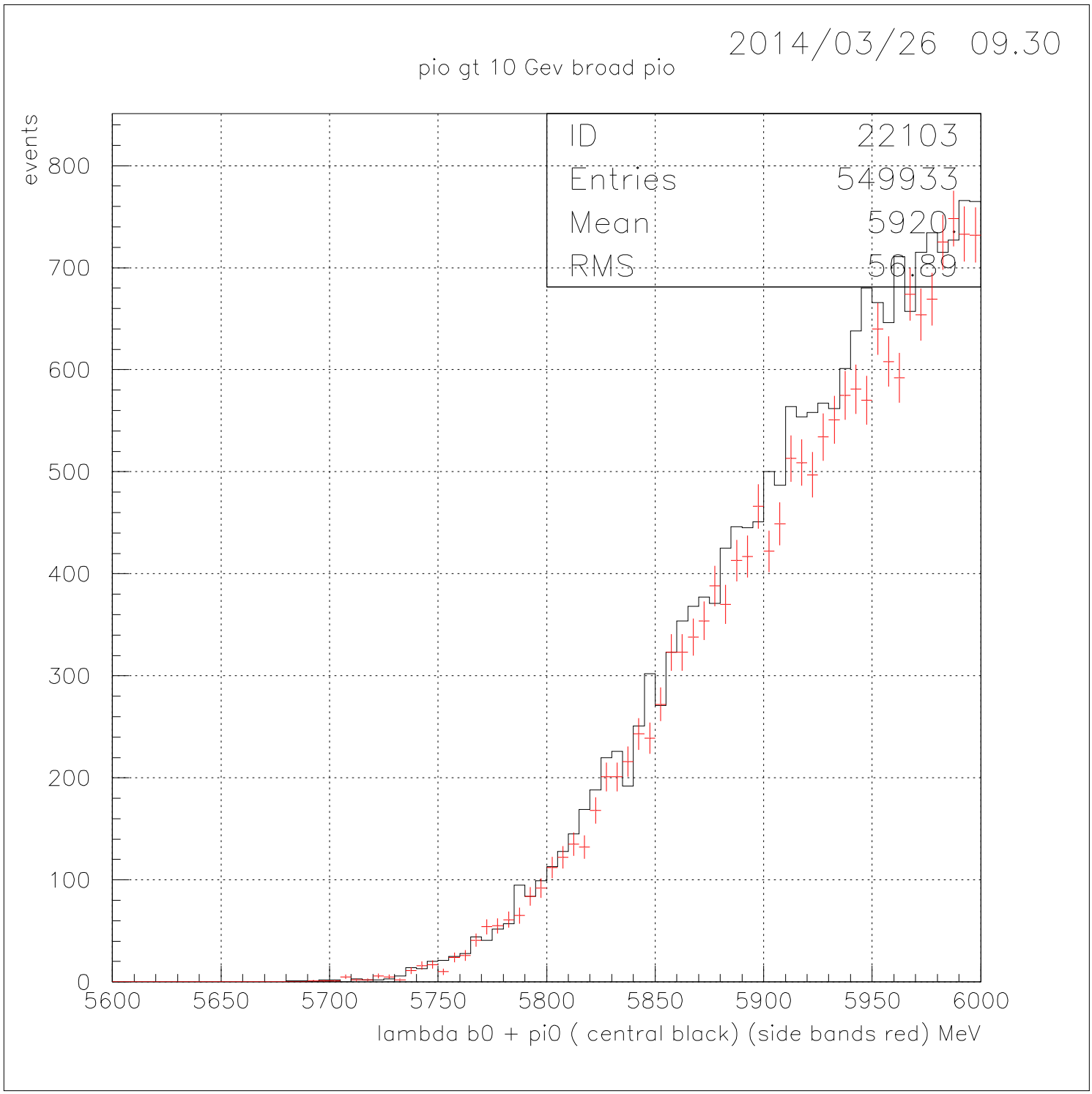
2014/03/26 09.30

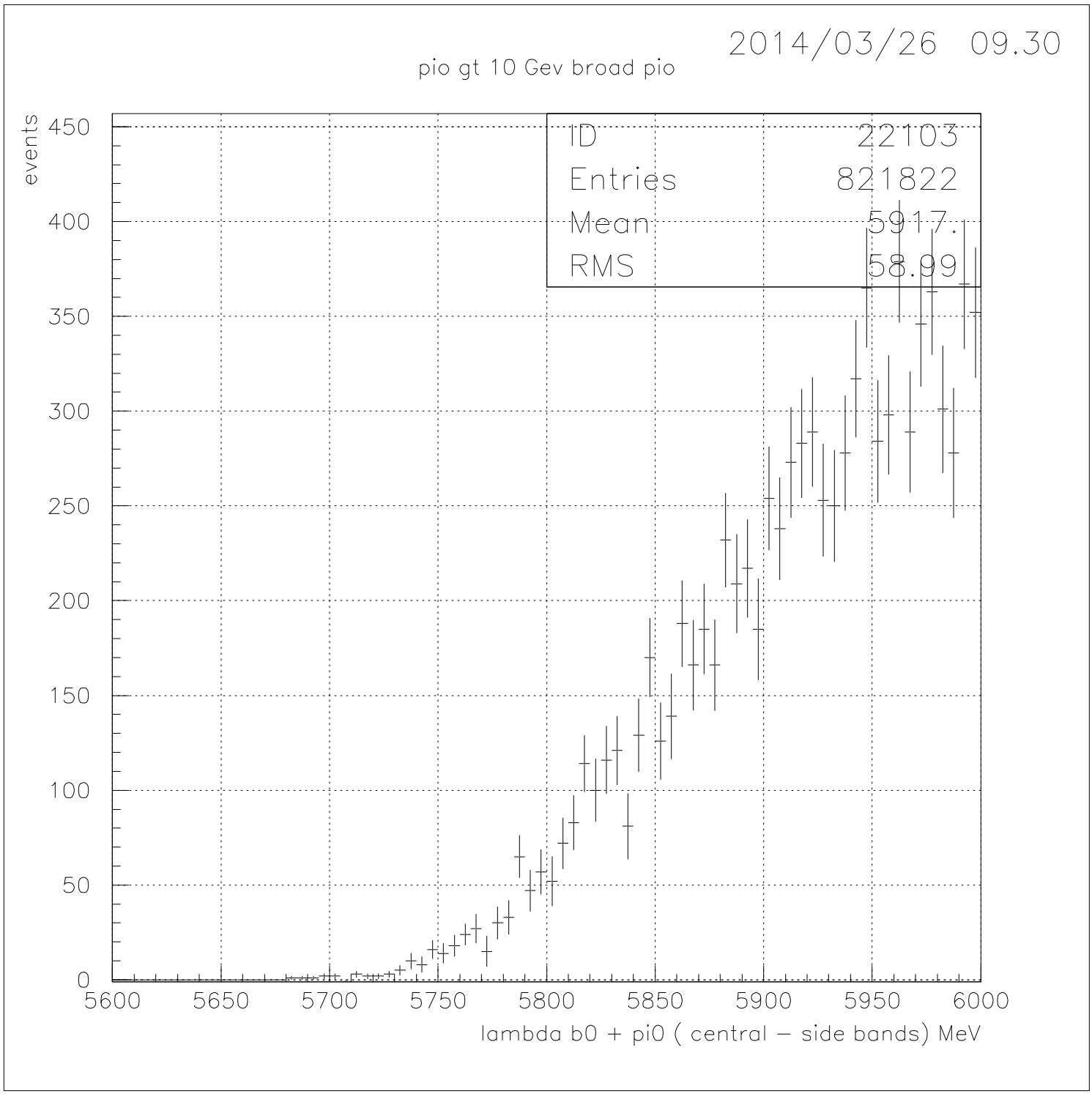
pio gt 10 Gev broad pio



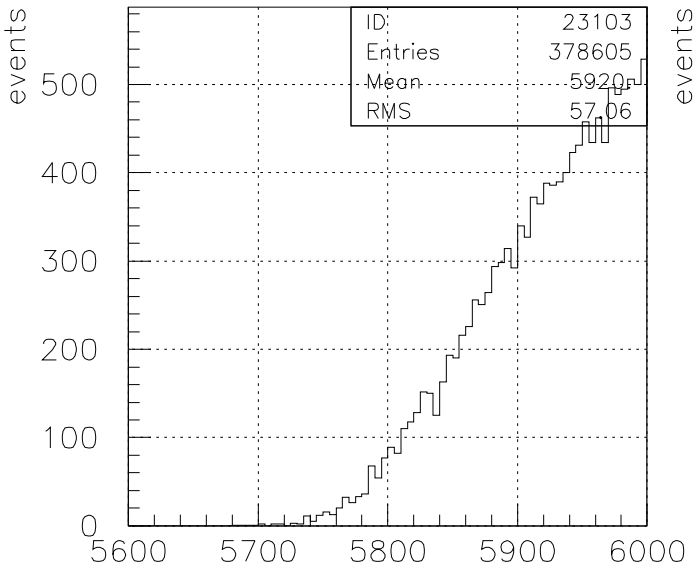




2014/03/26 09.30
pio gt 10 Gev broad pio
ID 22103
Entries 549933
Mean 5920.
RMS 56.89
events
0
100
200
300
400
500
600
700
800
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central black) (side bands red) MeV

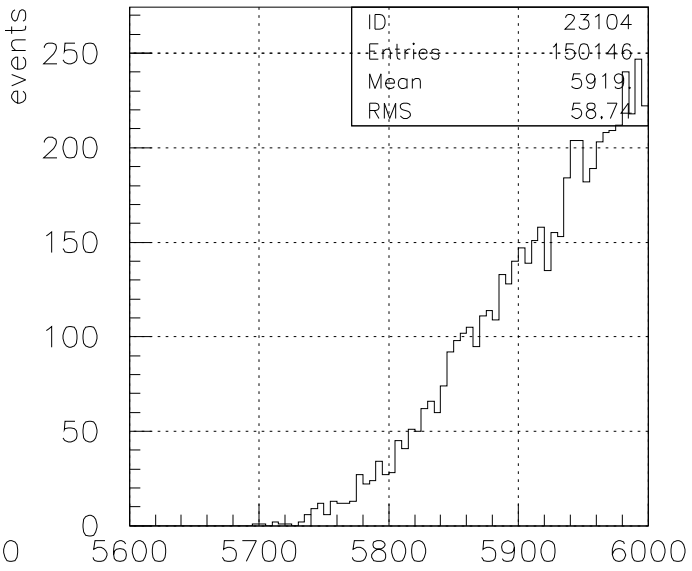

2014/03/26 09.30
pio gt 10 Gev broad pio
ID 22103
Entries 821822
Mean 5917.
RMS 58.99
events
0
50
100
150
200
250
300
350
400
450
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central − side bands) MeV

2014/03/26 09.30

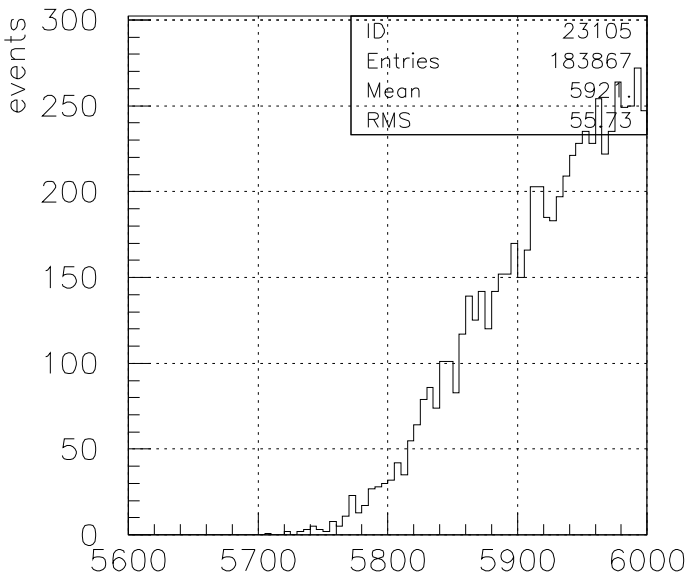
pio gt 10 Gev narrow pio



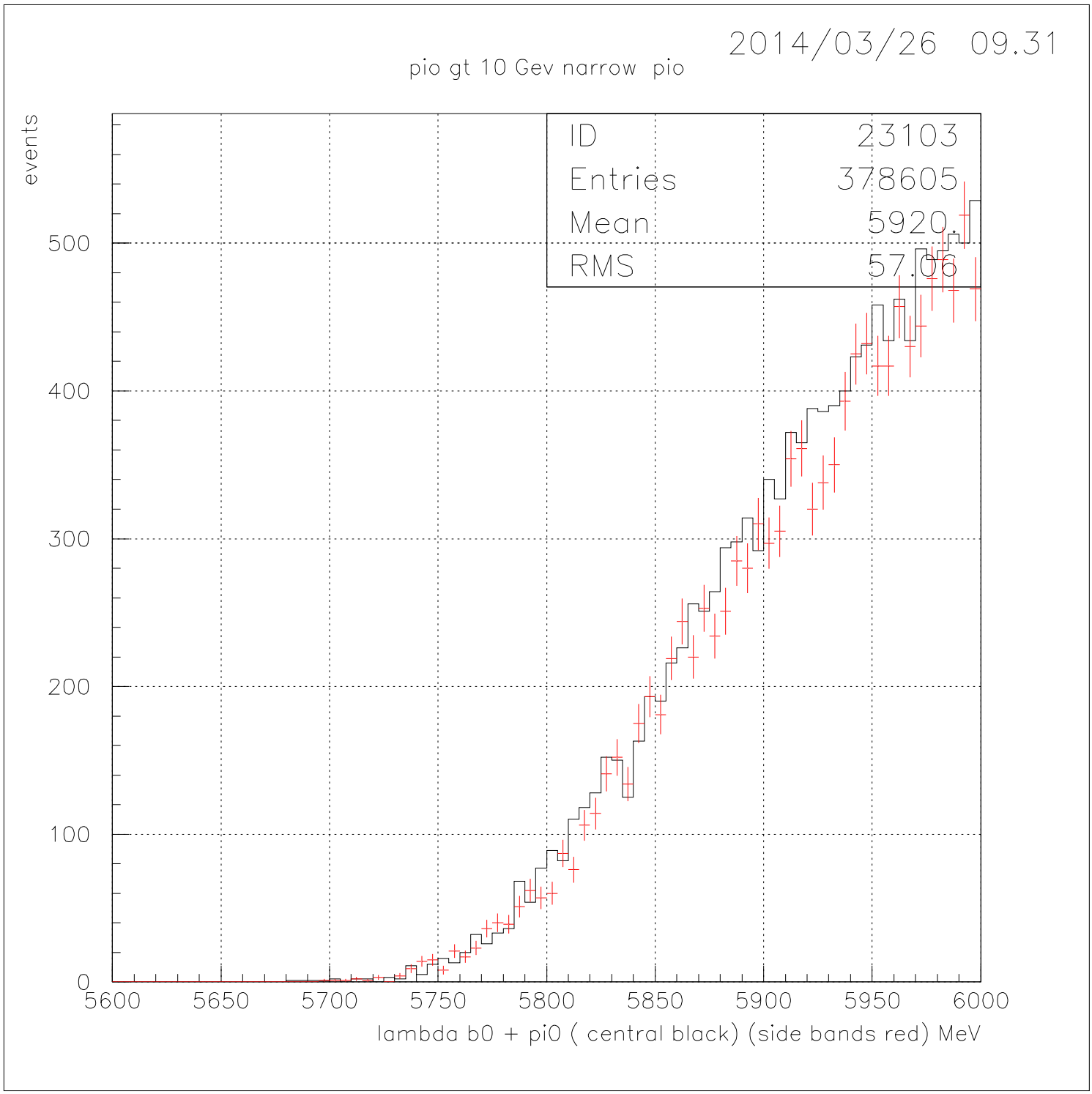

lambda b0 + pio mass (MeV) 125 to 145

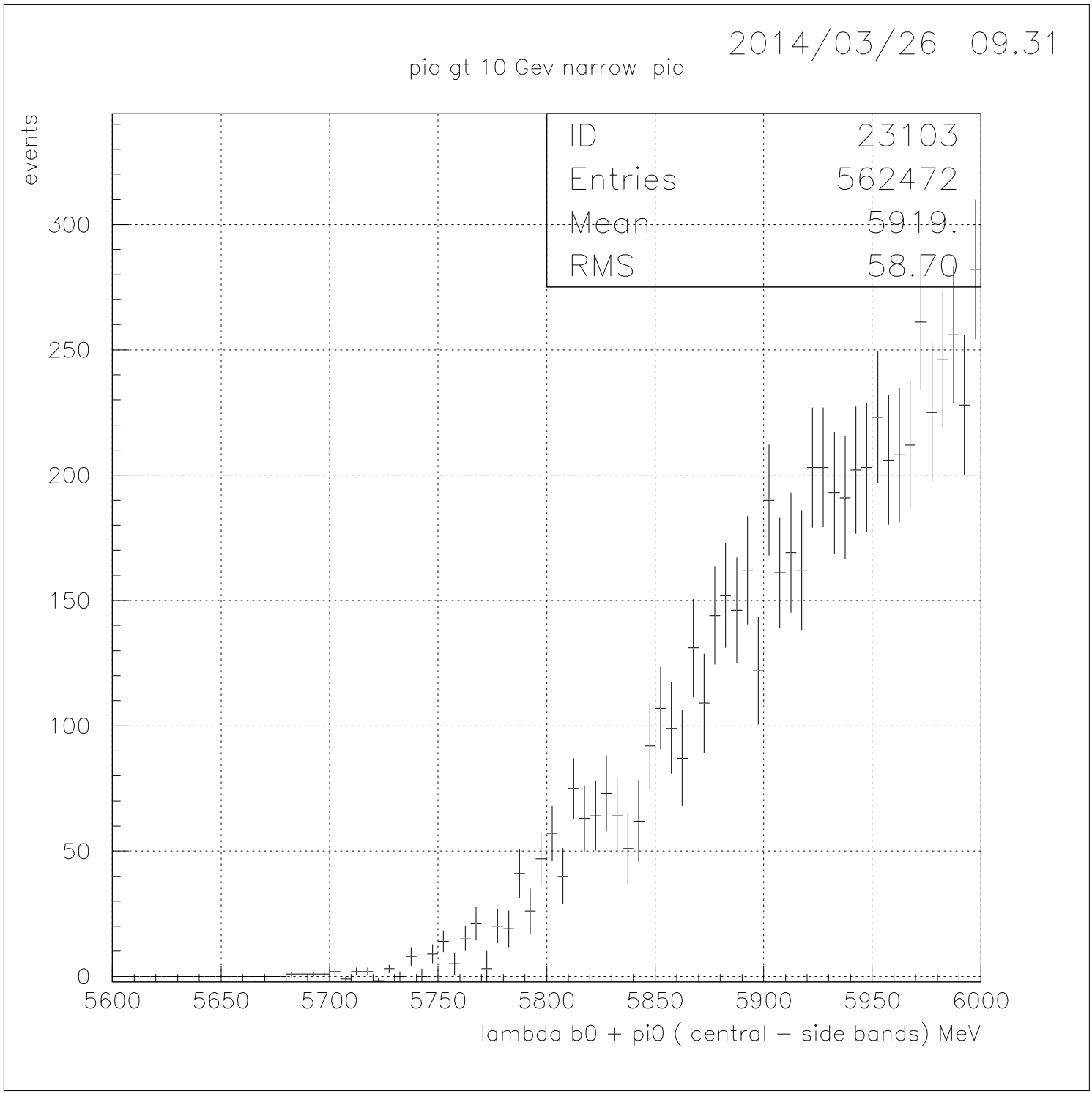



lambda b0 + pio mass (MeV) 115 to 125



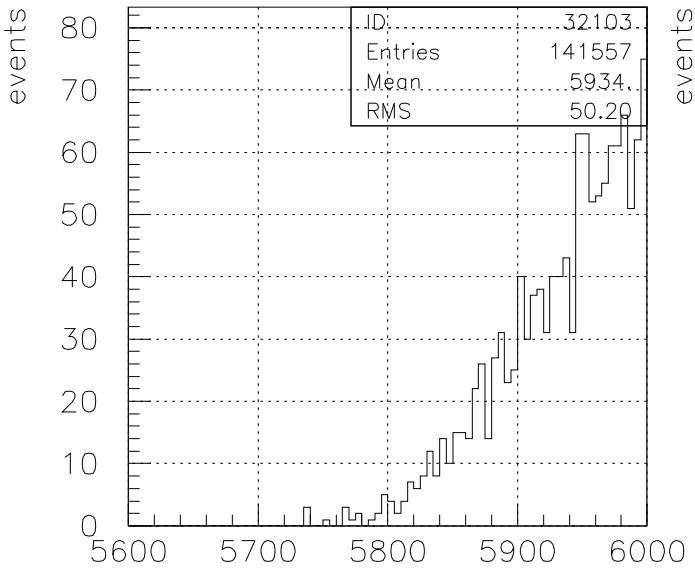

lambda b0 + pio mass (MeV) 145 to 155

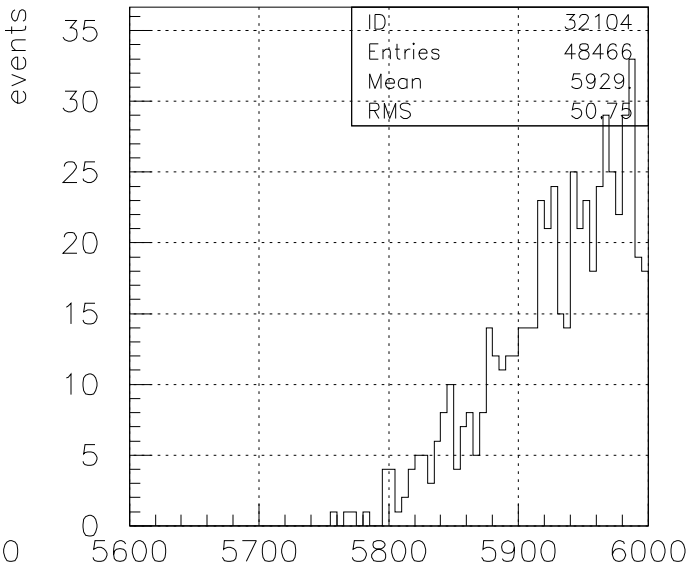

2014/03/26 09.31
pio gt 10 Gev narrow pio
ID 23103
Entries 378605
Mean 5920.
RMS 57.06
events
0
100
200
300
400
500
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central black) (side bands red) MeV

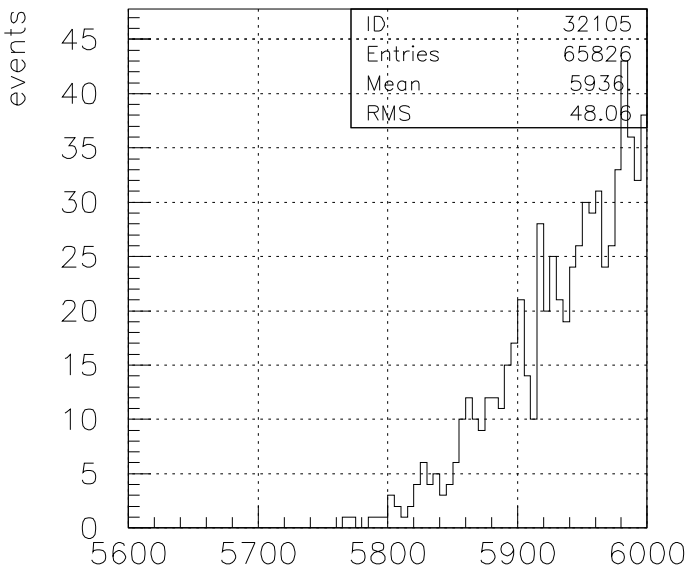

2014/03/26 09.31
pio gt 10 Gev narrow pio
events
ID 23103
Entries 562472
Mean 5919.
RMS 58.70
300
250
200
150
100
50
0
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central − side bands) MeV

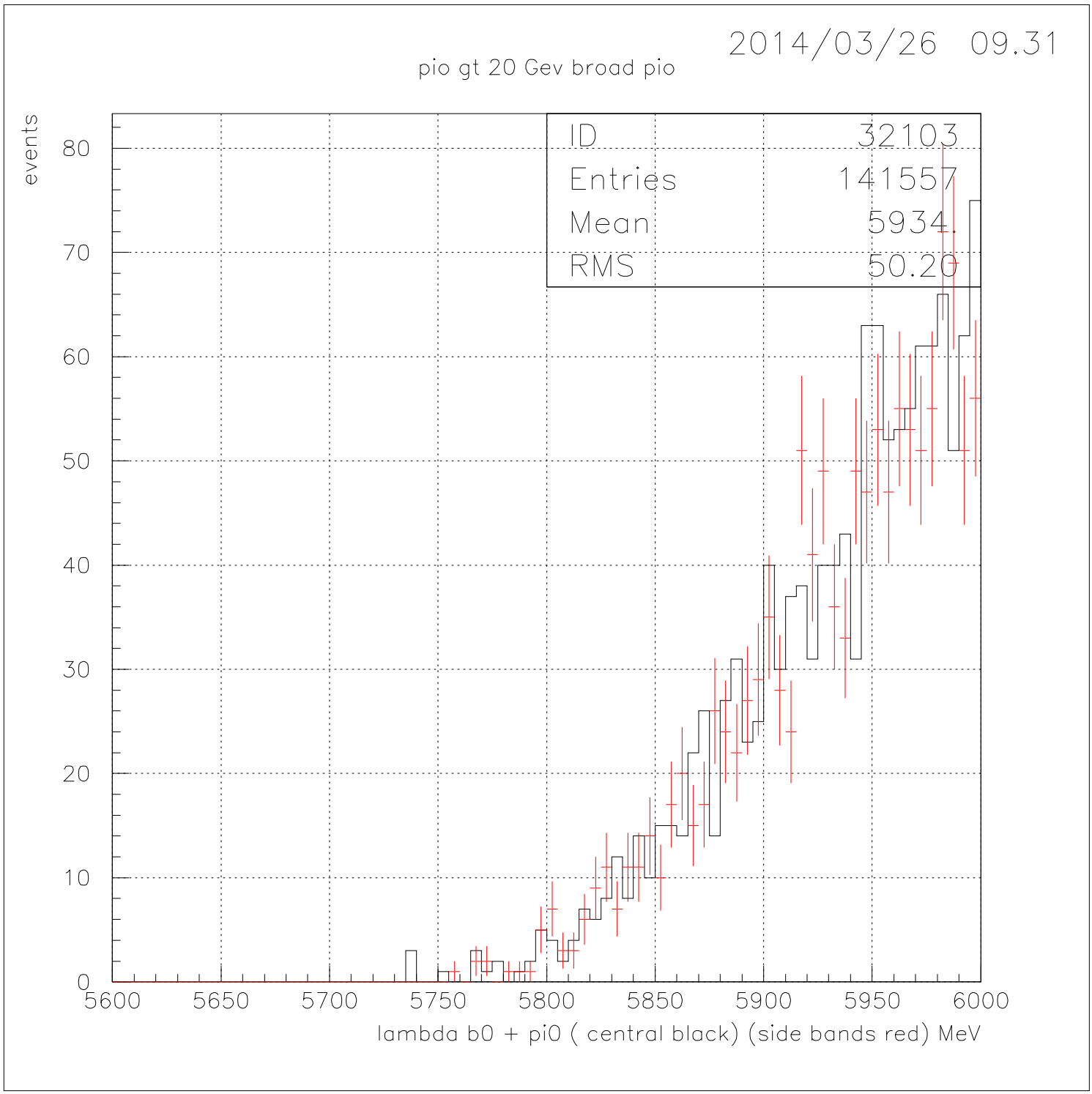
2014/03/26 09.31

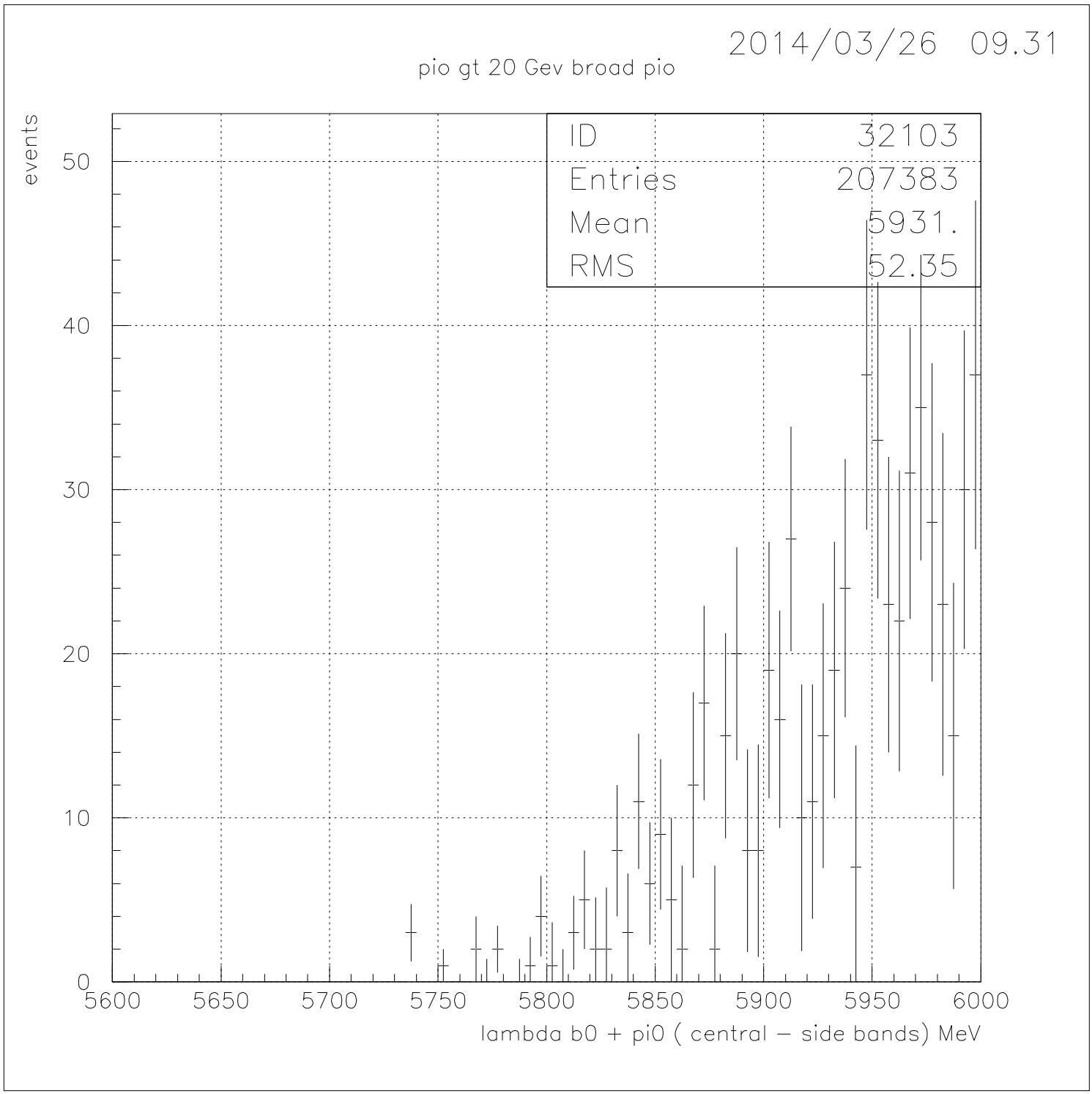
pio gt 20 Gev broad pio



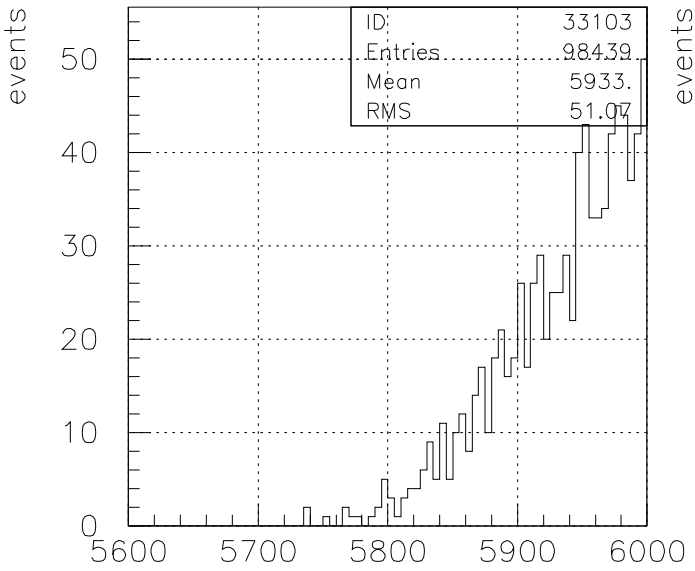



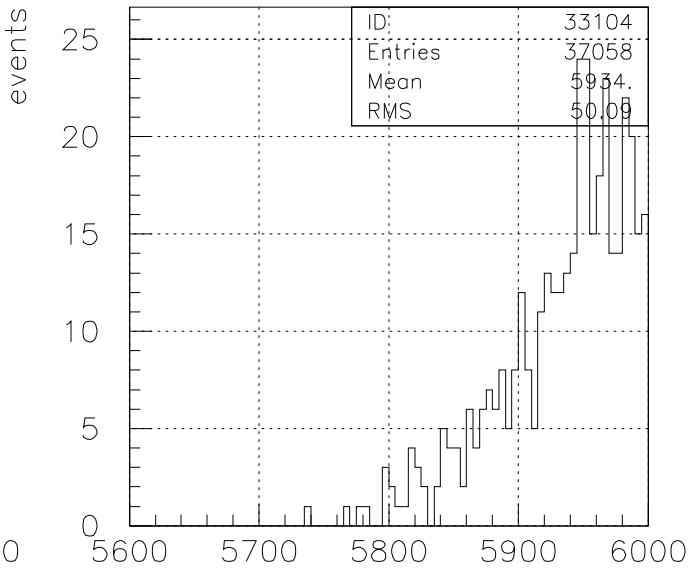

2014/03/26 09.31
pio gt 20 Gev broad pio
ID 32103
Entries 141557
Mean 5934.
RMS 50.20
events
0
10
20
30
40
50
60
70
80
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central black) (side bands red) MeV

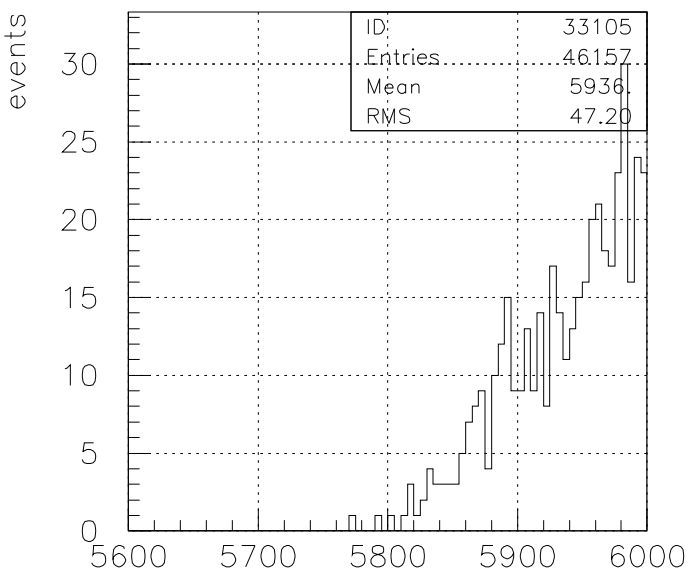

2014/03/26 09.31
pio gt 20 Gev broad pio
ID 32103
Entries 207383
Mean 5931.
RMS 52.35
events
0
10
20
30
40
50
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central − side bands) MeV

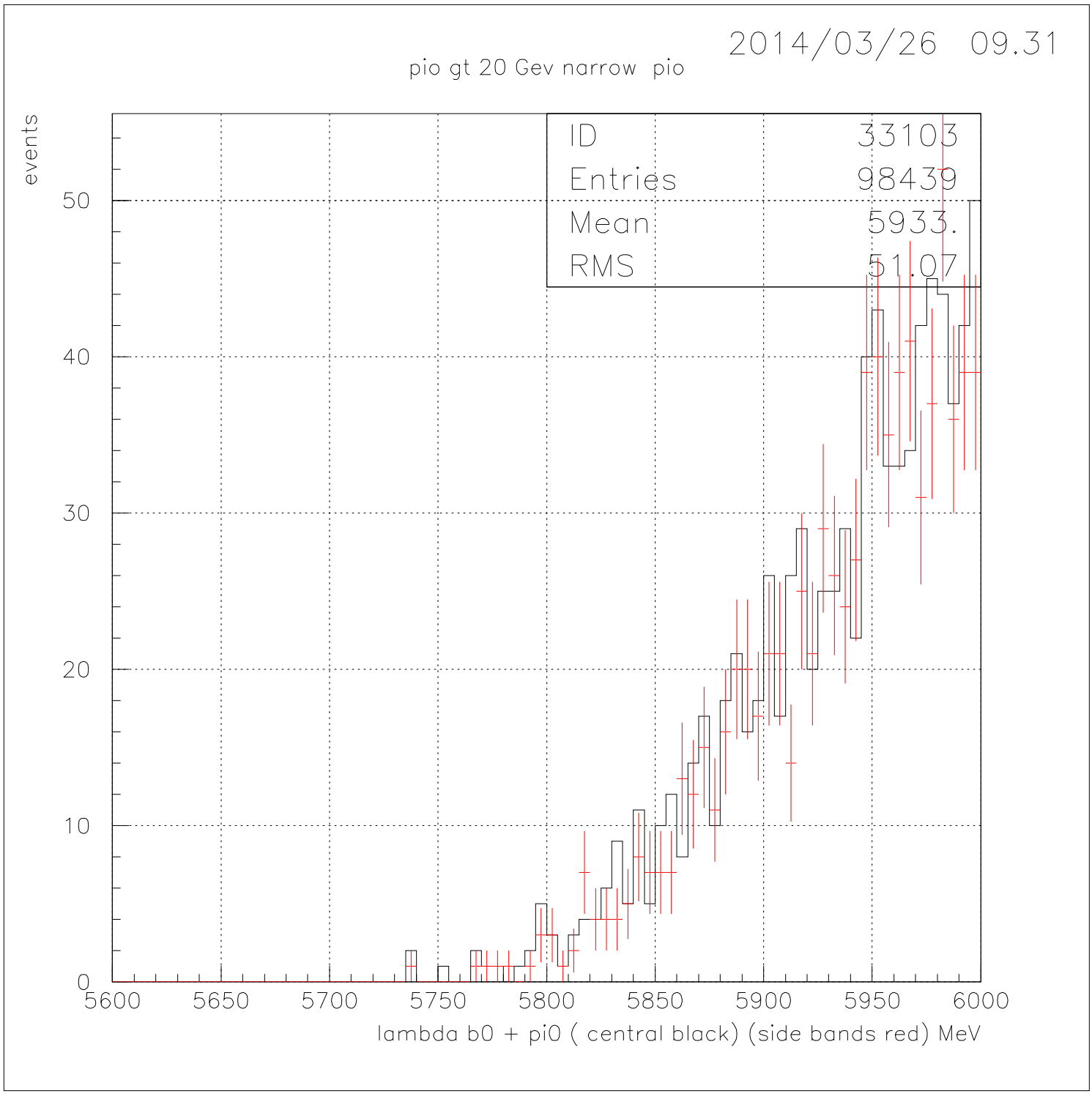
2014/03/26 09.31

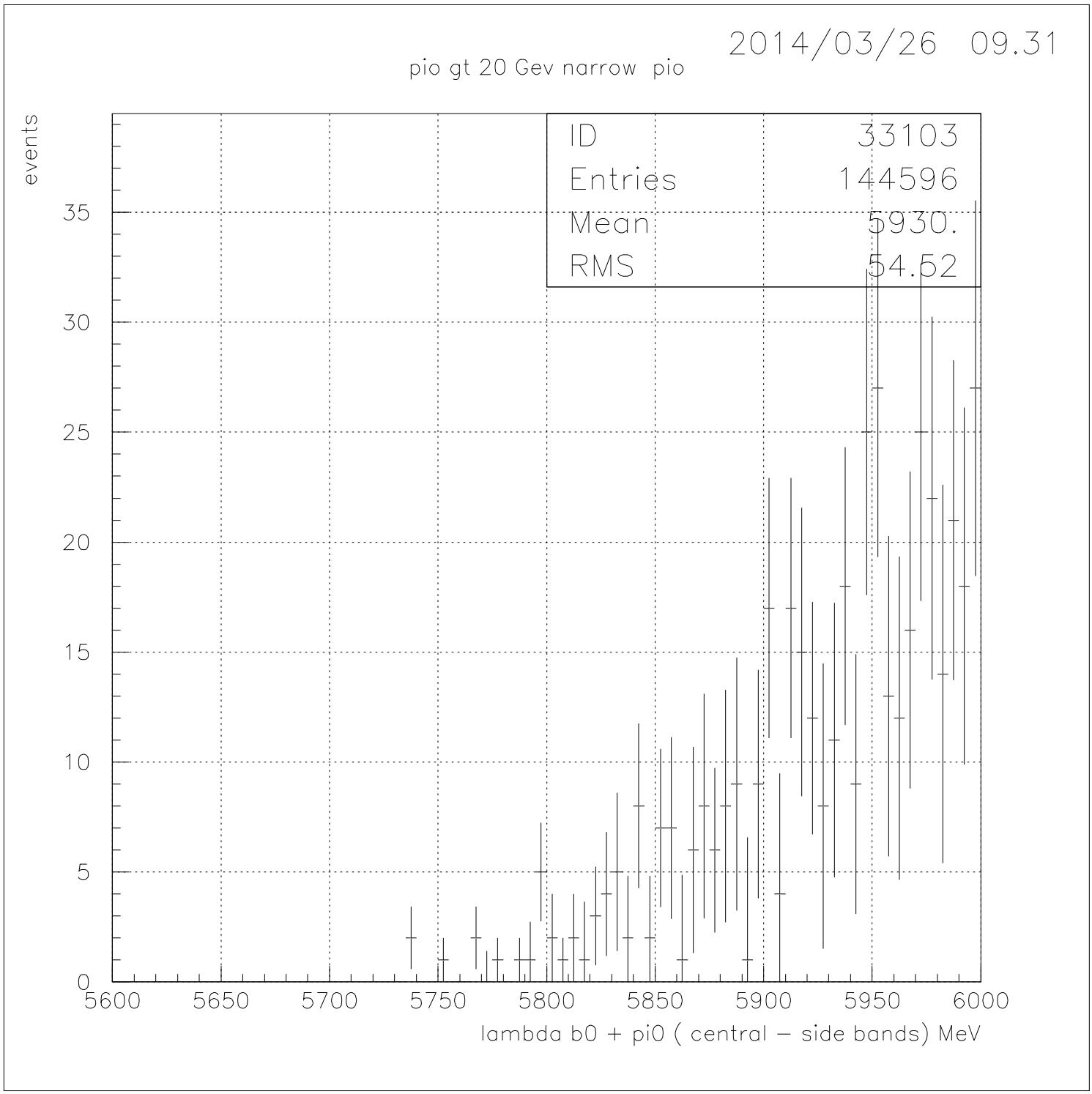
pio gt 20 Gev narrow pio



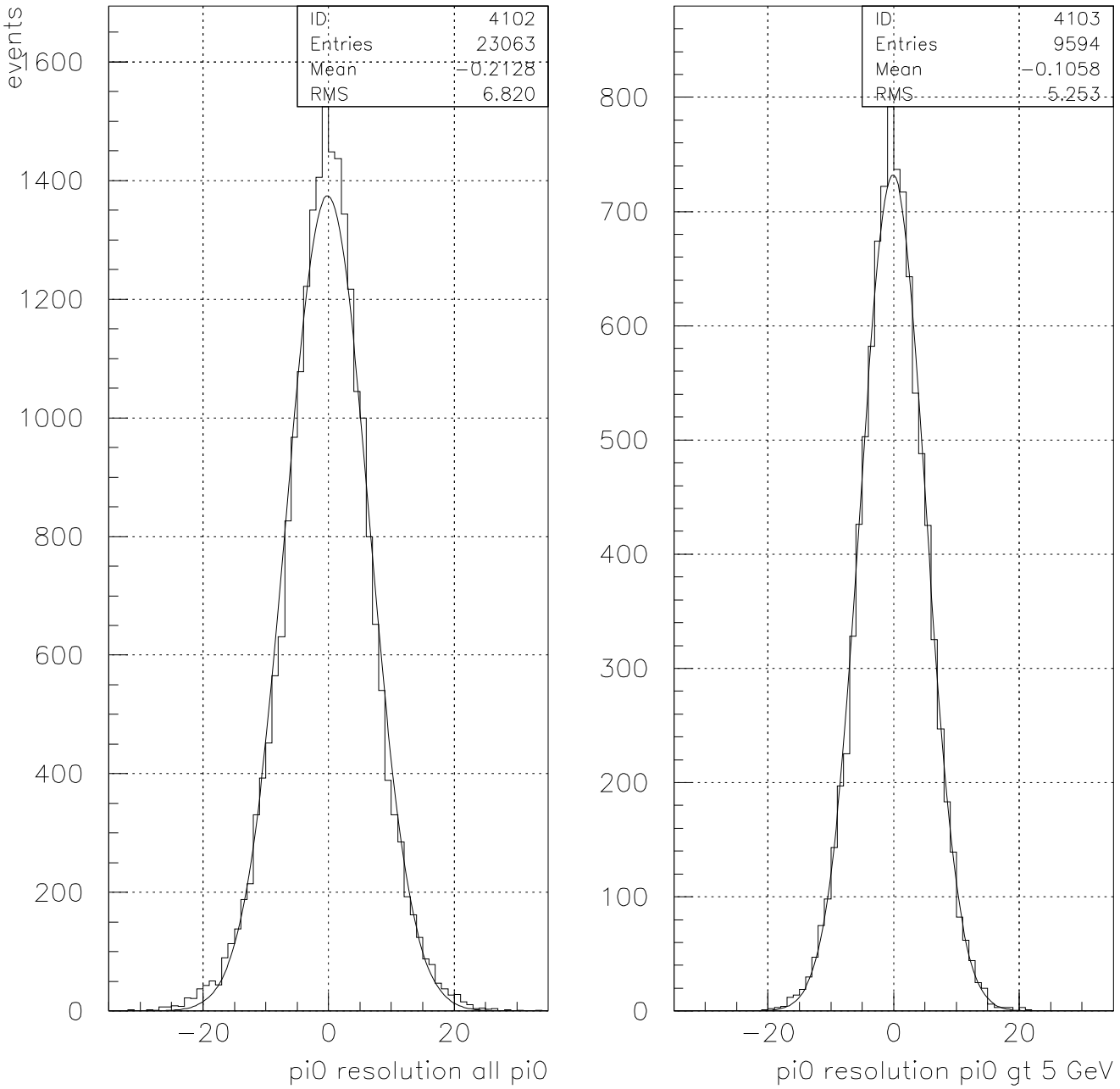




2014/03/26 09.31
pio gt 20 Gev narrow pio
events
ID 33103
Entries 98439
Mean 5933.
RMS 51.07
0
10
20
30
40
50
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central black) (side bands red) MeV


2014/03/26 09.31
pio gt 20 Gev narrow pio
ID 33103
Entries 144596
Mean 5930.
RMS 54.52
events
0
5
10
15
20
25
30
35
5600
5650
5700
5750
5800
5850
5900
5950
6000
lambda b0 + pi0 ( central − side bands) MeV

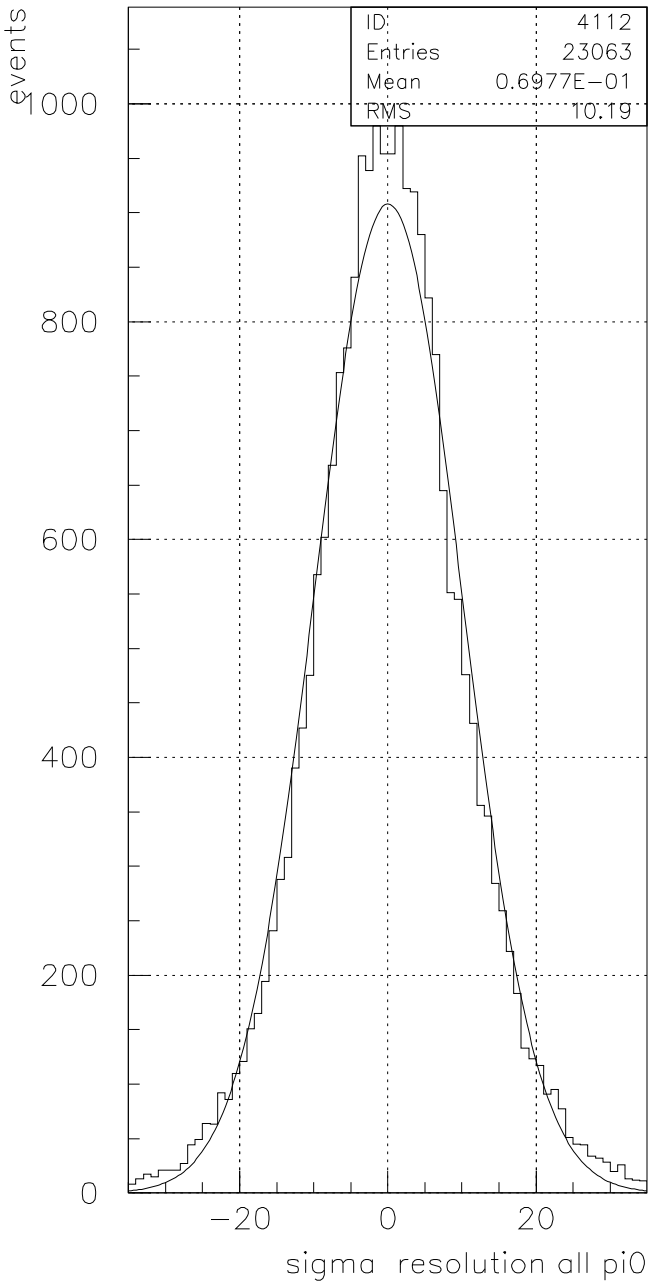
2014/03/26 09.31

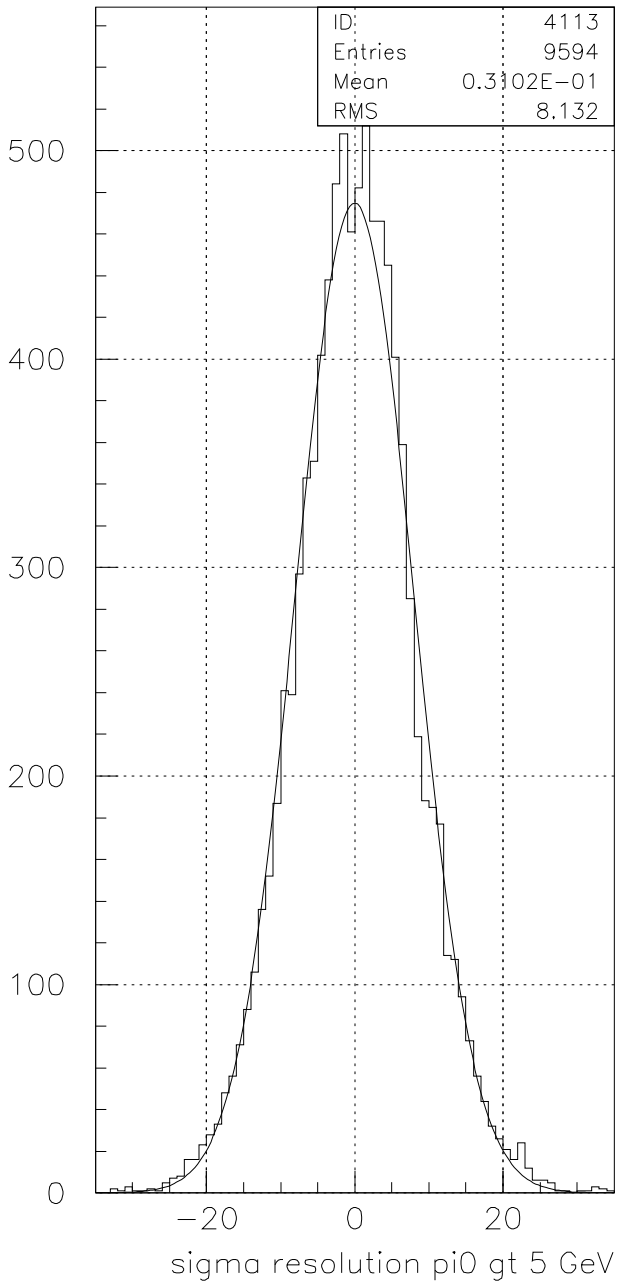
resolution for pi0, standard gamma errors



2014/03/26 09.31

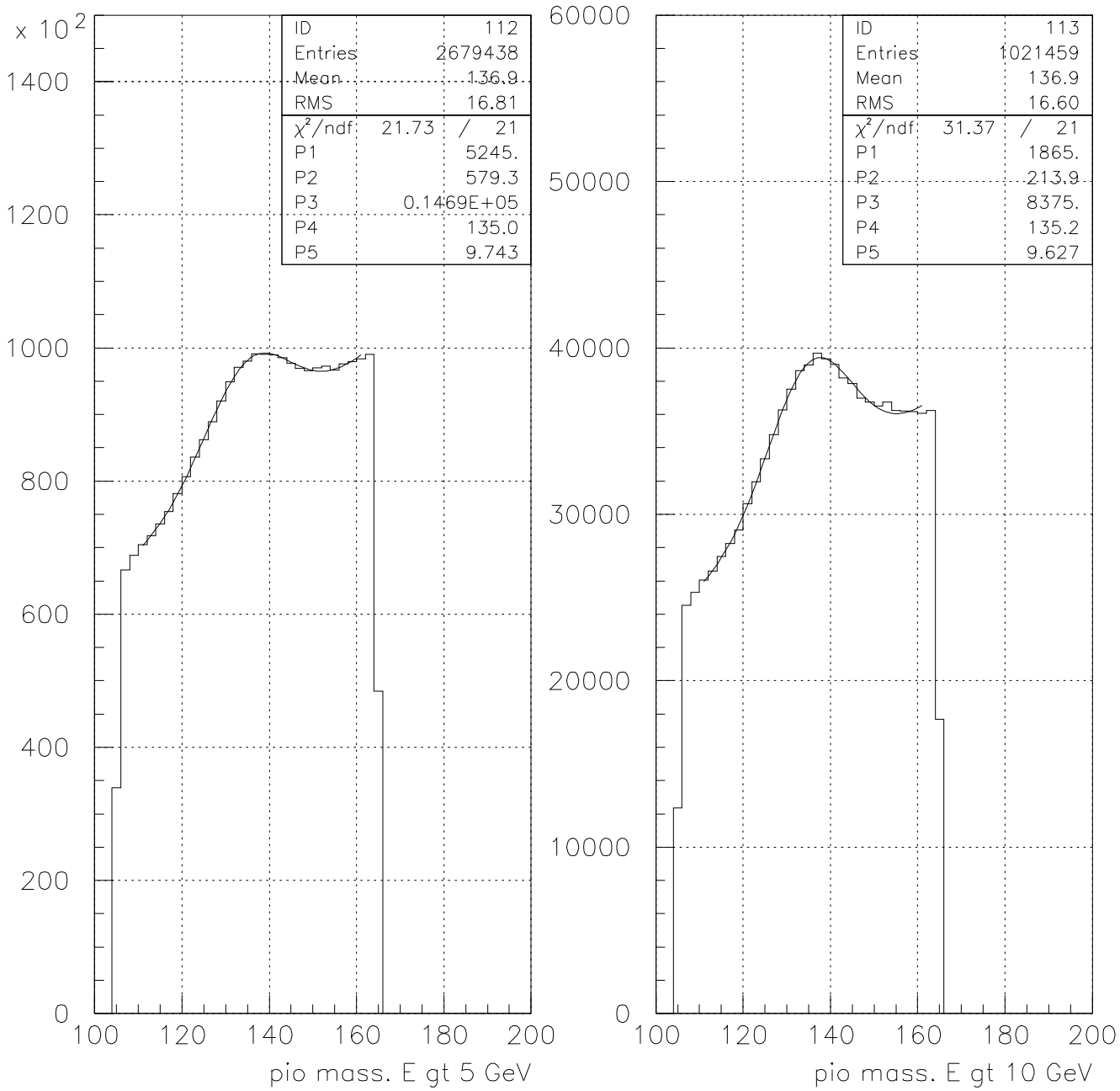
resolution for sigma−b0, standard gamma errors



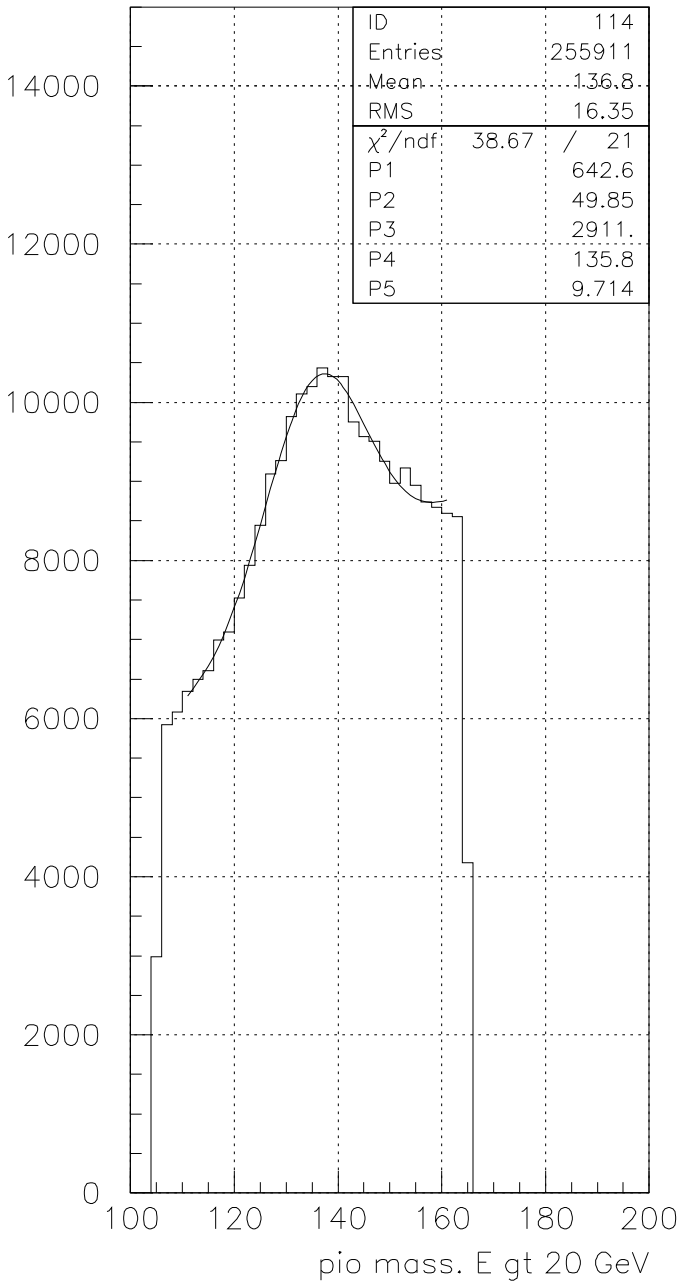
2014/03/26 09.31

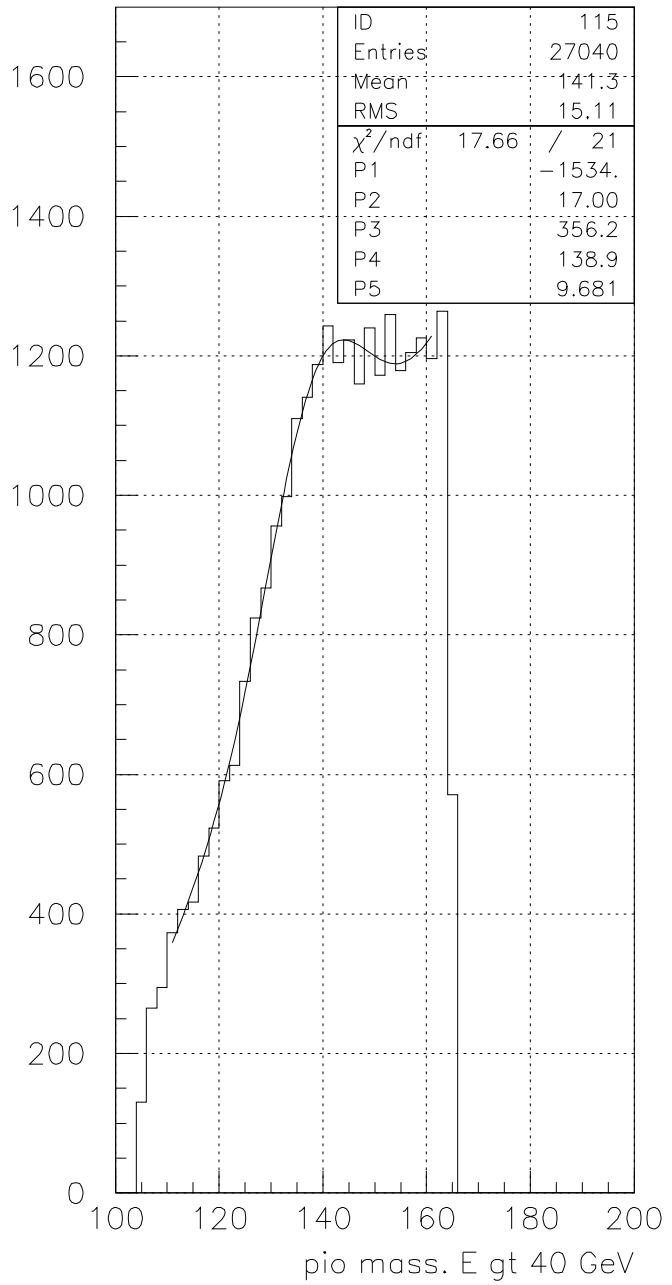
resolution for pio – data



2014/03/26 09.31

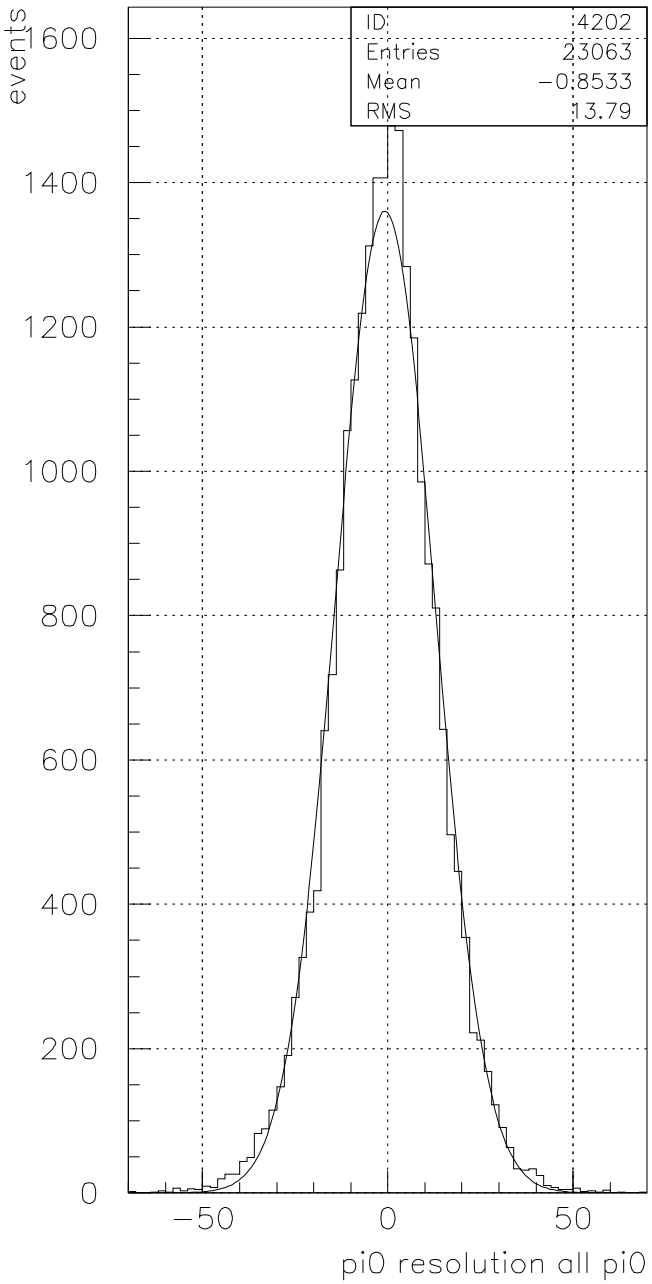
resolution for pio – data

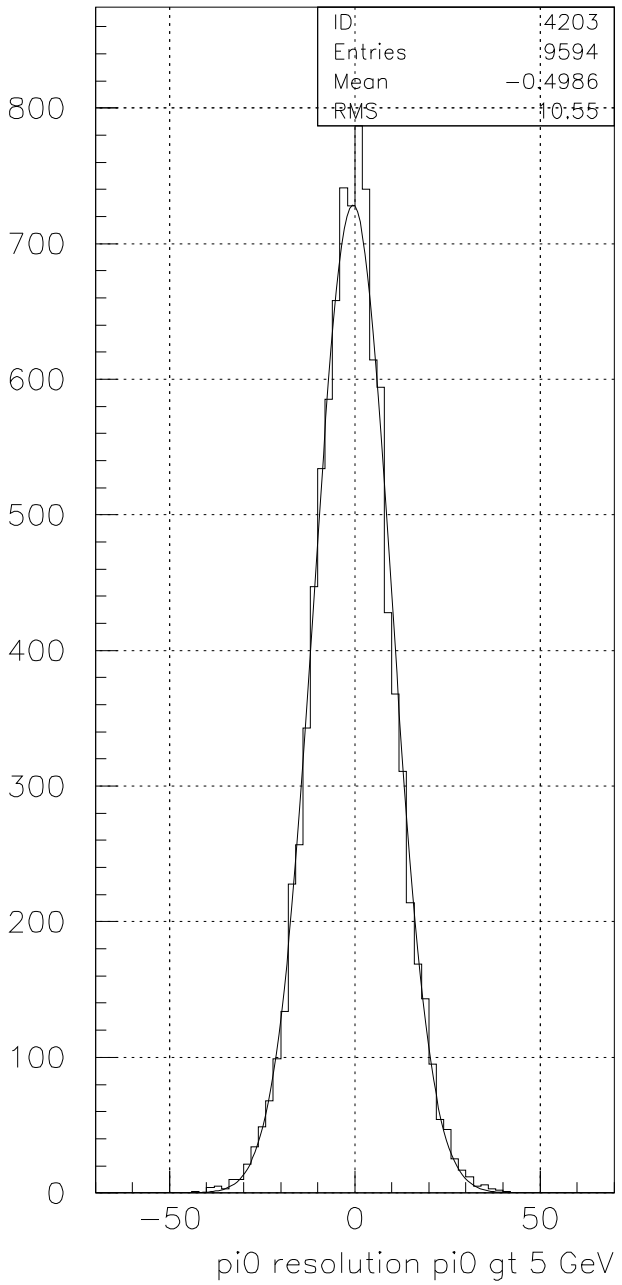


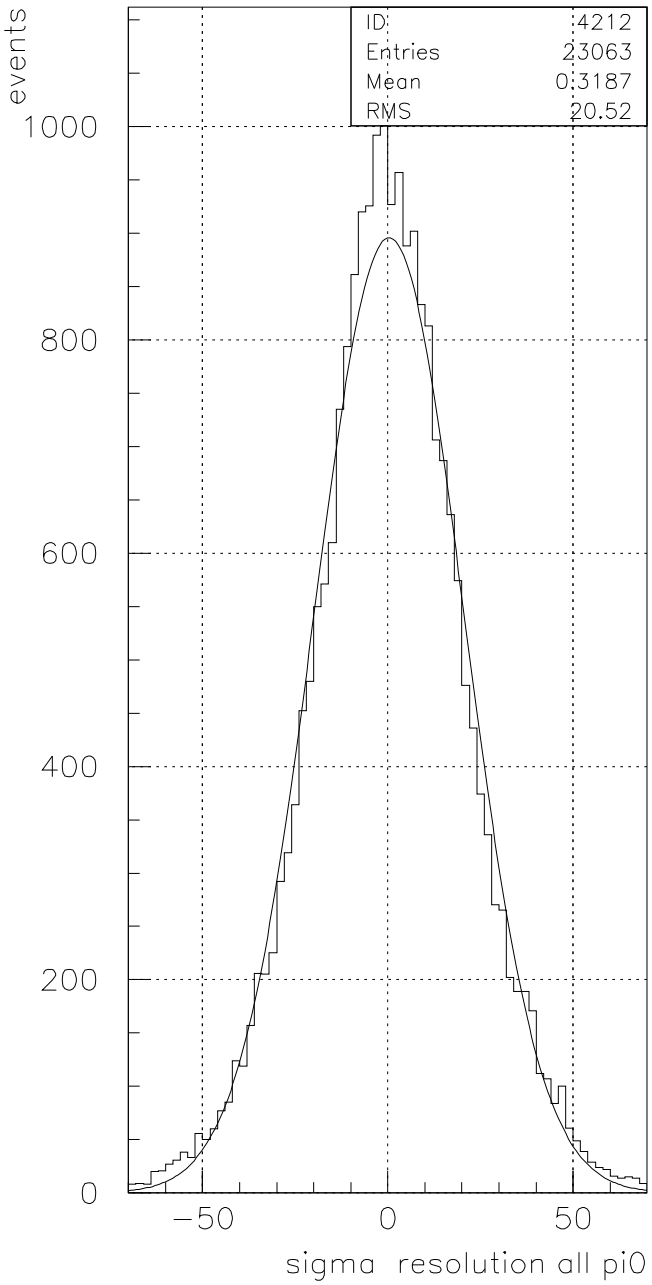
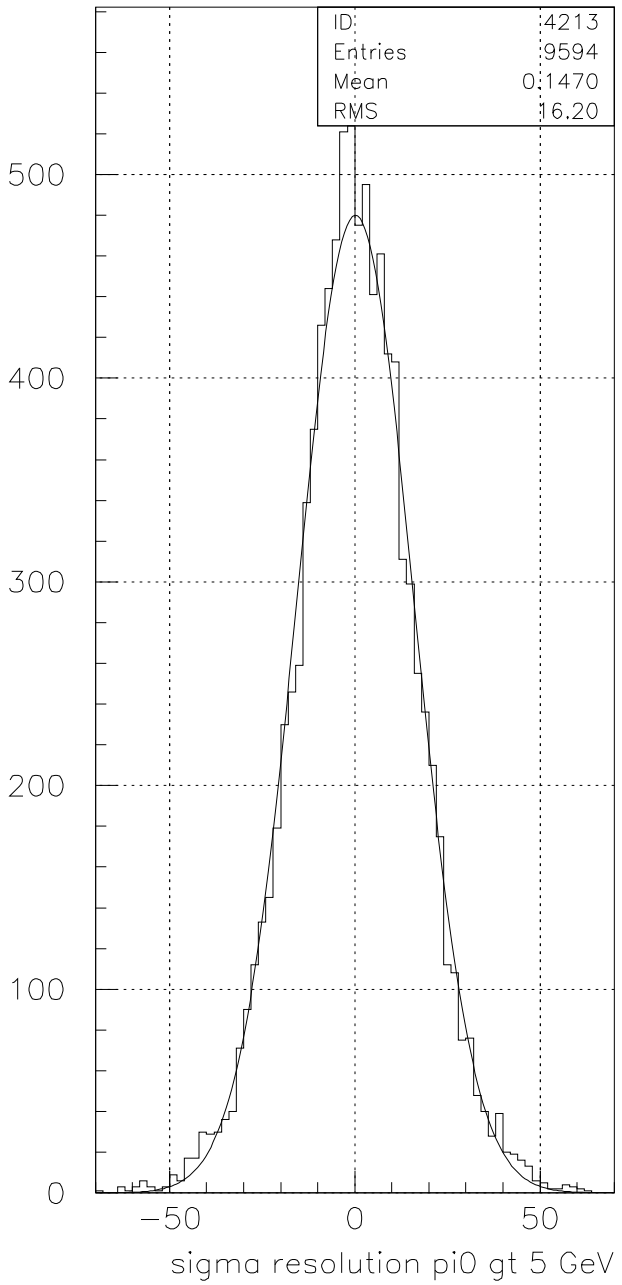



2014/03/26 09.31

resolution for pi0, gamma errors doubled



2014/03/26 09.31

resolution for sigma−b0, gamma errors doubled