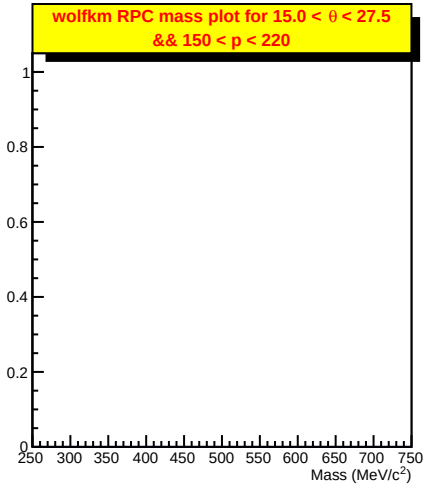
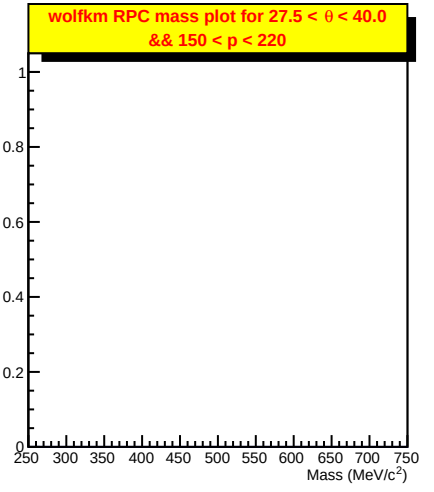
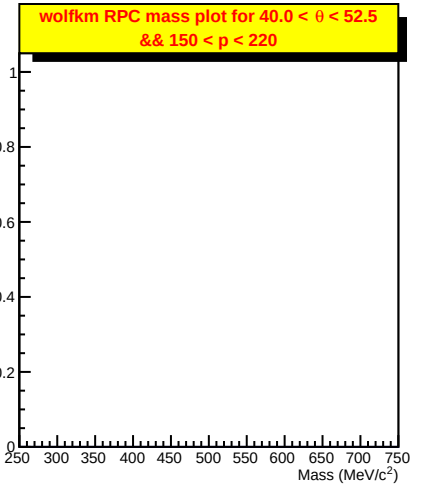
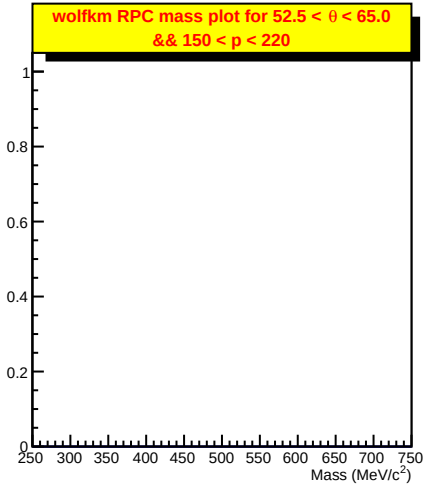
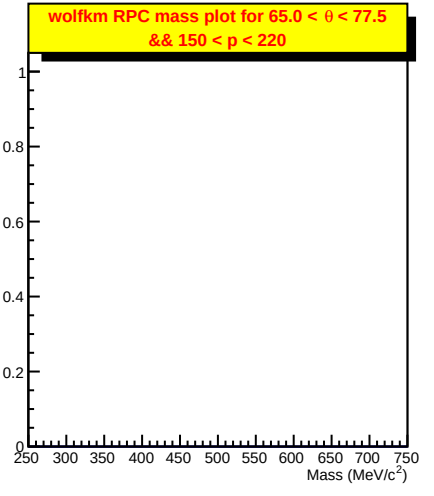
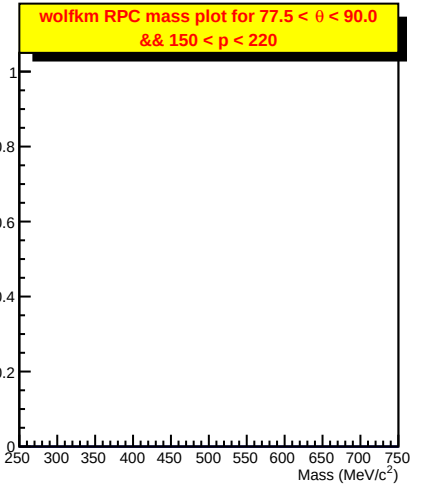

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

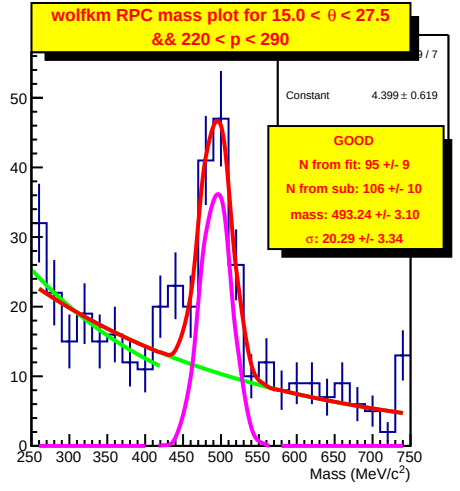

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

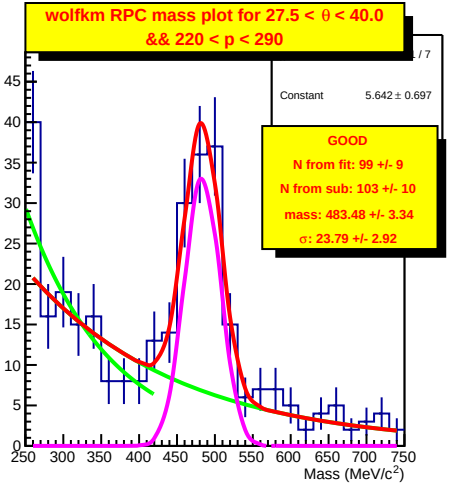

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

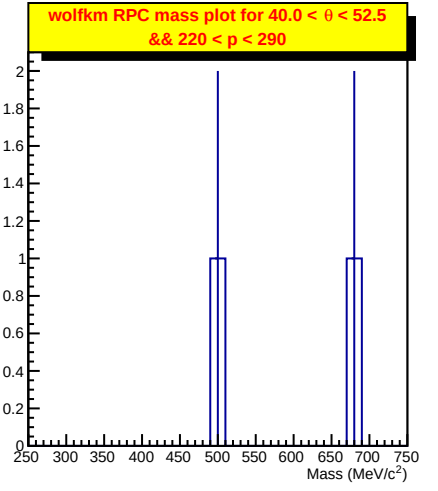

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

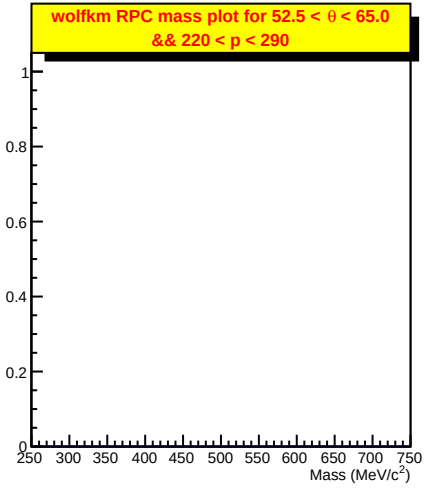

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

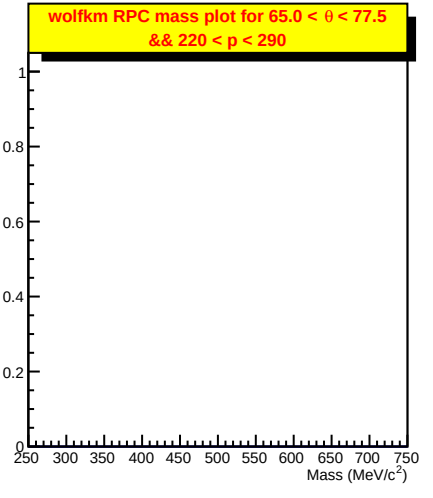

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

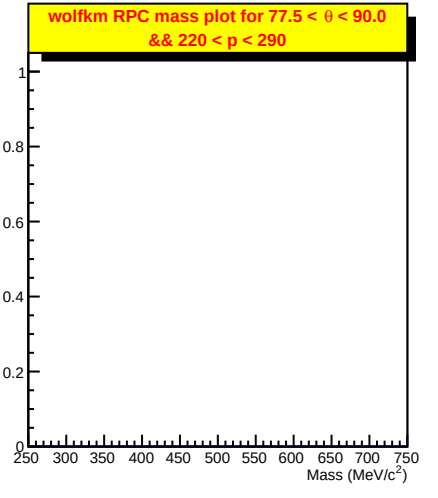

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 220 < p < 290
Constant 4.399 ± 0.619
GOOD
N from fit: 95 +/- 9
N from sub: 106 +/- 10
mass: 493.24 +/- 3.10
σ: 20.29 +/- 3.34
Mass (MeV/c²)

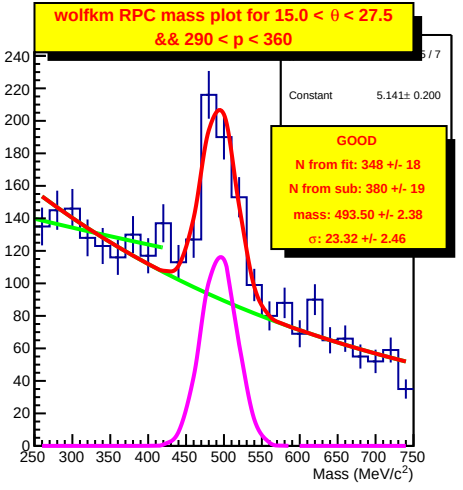

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 220 < p < 290
Constant 5.642 ± 0.697
GOOD
N from fit: 99 +/- 9
N from sub: 103 +/- 10
mass: 483.48 +/- 3.34
σ: 23.79 +/- 2.92
Mass (MeV/c²)

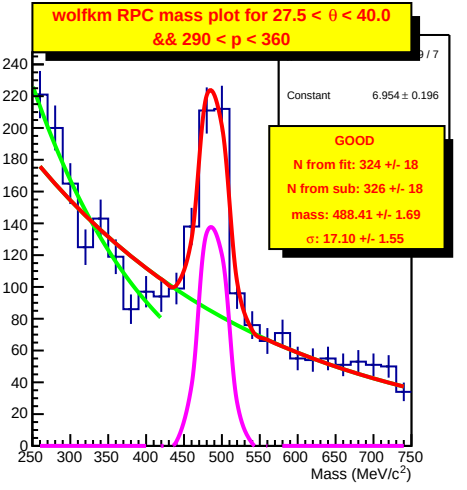

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 220 < p < 290
Mass (MeV/c²)

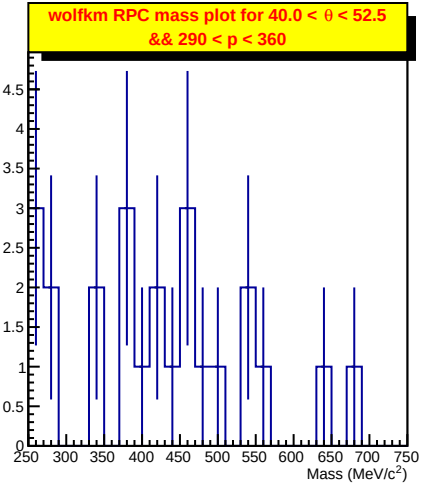

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 220 < p < 290
Mass (MeV/c²)

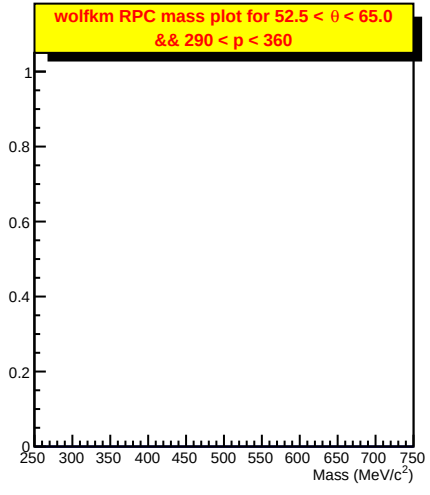

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 220 < p < 290
Mass (MeV/c²)

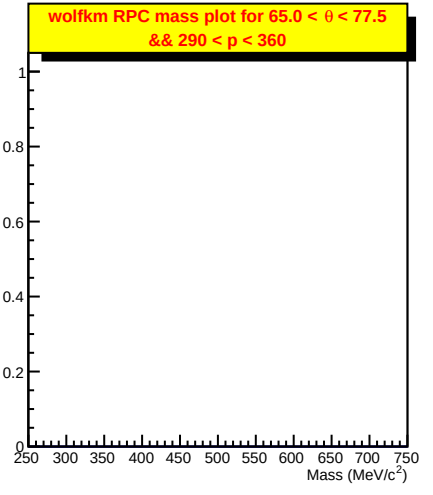

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 220 < p < 290
Mass (MeV/c²)

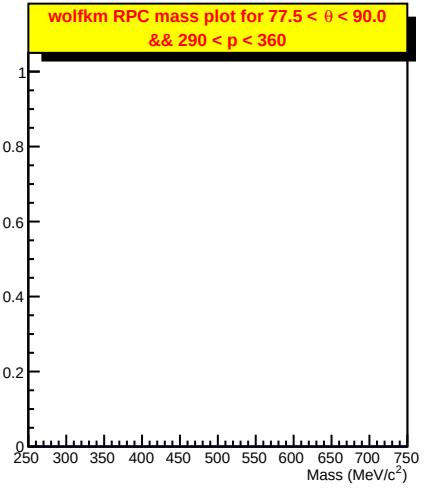

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 290 < p < 360
Constant 5.141± 0.200
GOOD
N from fit: 348 +/- 18
N from sub: 380 +/- 19
mass: 493.50 +/- 2.38
σ: 23.32 +/- 2.46
Mass (MeV/c²)

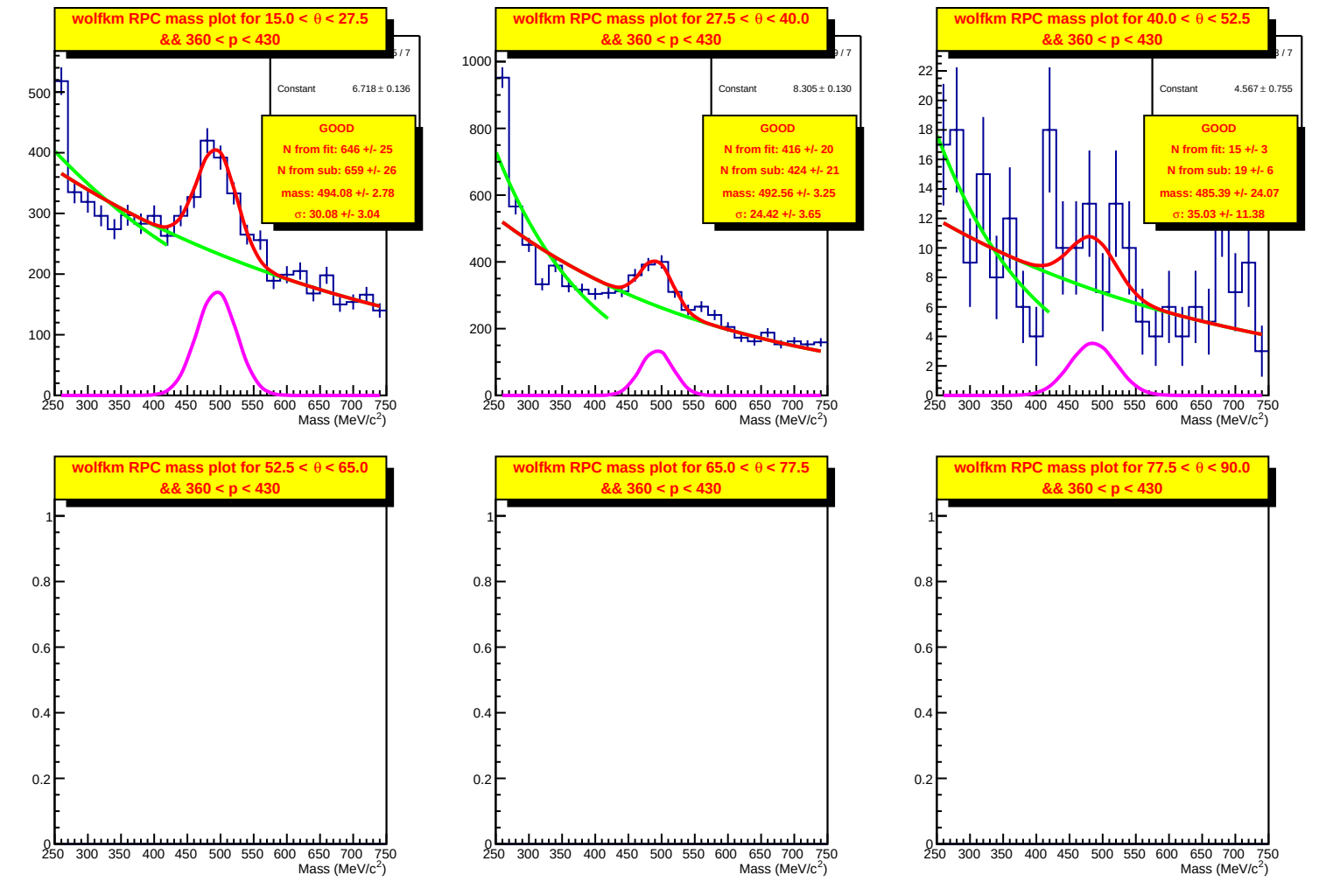

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 290 < p < 360
Constant 6.954 ± 0.196
GOOD
N from fit: 324 +/- 18
N from sub: 326 +/- 18
mass: 488.41 +/- 1.69
σ: 17.10 +/- 1.55
Mass (MeV/c²)

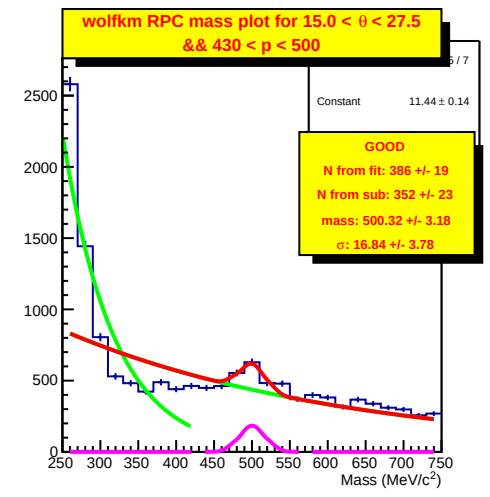

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 290 < p < 360
Mass (MeV/c²)

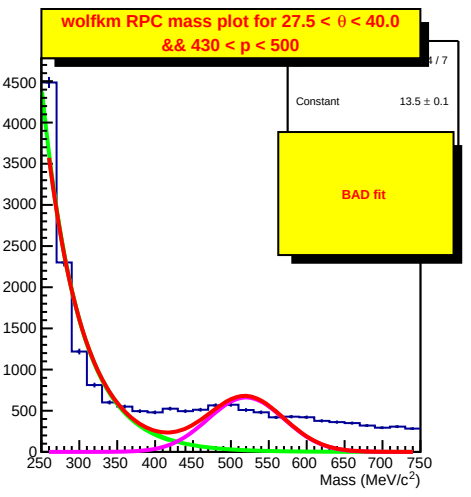

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 290 < p < 360
Mass (MeV/c²)

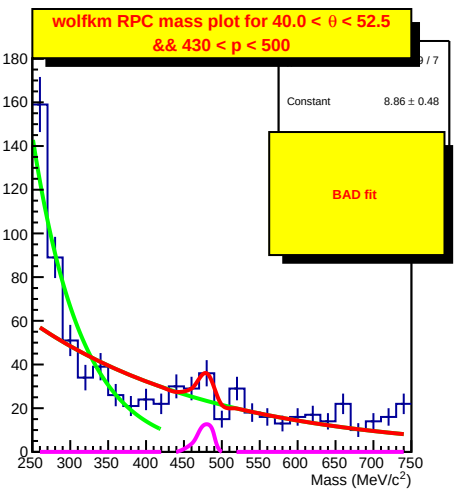

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 290 < p < 360
Mass (MeV/c²)

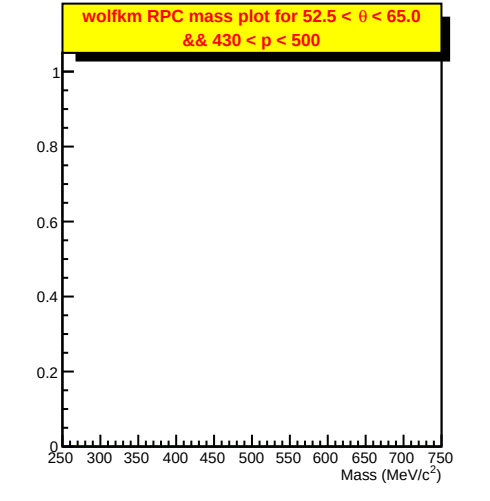

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 290 < p < 360
Mass (MeV/c²)

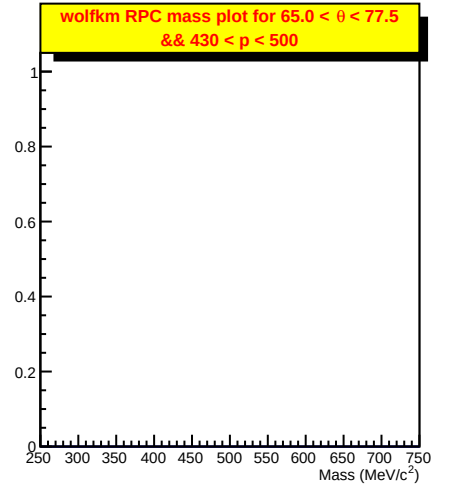

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 360 < p < 430
Constant 6.718 ± 0.136
GOOD
N from fit: 646 +/- 25
N from sub: 659 +/- 26
mass: 494.08 +/- 2.78
σ: 30.08 +/- 3.04
Mass (MeV/c²)
wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 360 < p < 430
Constant 8.305 ± 0.130
GOOD
N from fit: 416 +/- 20
N from sub: 424 +/- 21
mass: 492.56 +/- 3.25
σ: 24.42 +/- 3.65
Mass (MeV/c²)
wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 360 < p < 430
Constant 4.567 ± 0.755
GOOD
N from fit: 15 +/- 3
N from sub: 19 +/- 6
mass: 485.39 +/- 24.07
σ: 35.03 +/- 11.38
Mass (MeV/c²)
wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 360 < p < 430
Mass (MeV/c²)
wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 360 < p < 430
Mass (MeV/c²)
wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 360 < p < 430
Mass (MeV/c²)

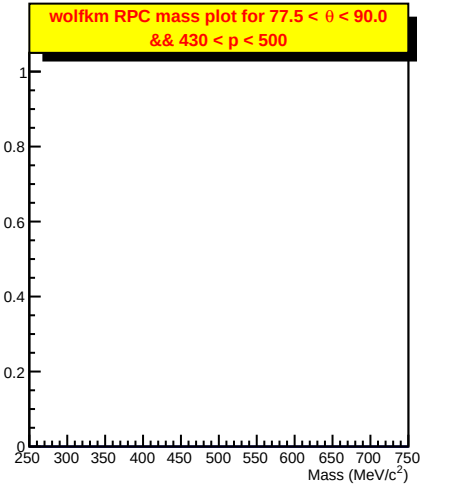

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 430 < p < 500
Constant 11.44 ± 0.14
GOOD
N from fit: 386 +/- 19
N from sub: 352 +/- 23
mass: 500.32 +/- 3.18
σ: 16.84 +/- 3.78
Mass (MeV/c²)

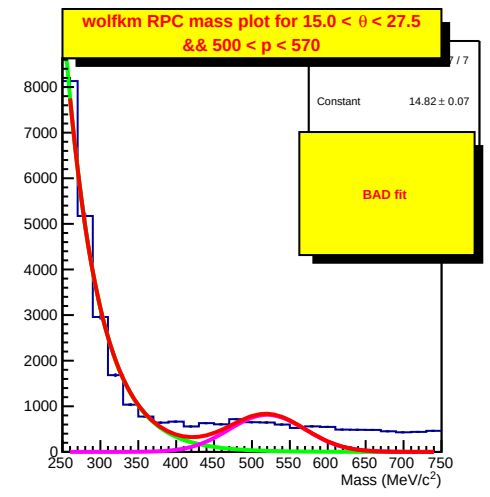

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 430 < p < 500
Constant 13.5 ± 0.1
BAD fit
Mass (MeV/c²)

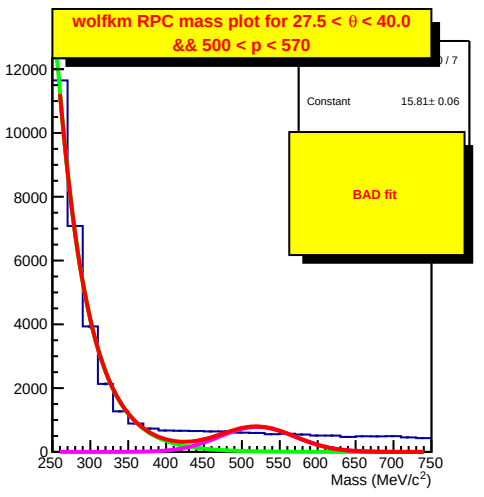

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 430 < p < 500
Constant 8.86 ± 0.48
BAD fit
Mass (MeV/c²)

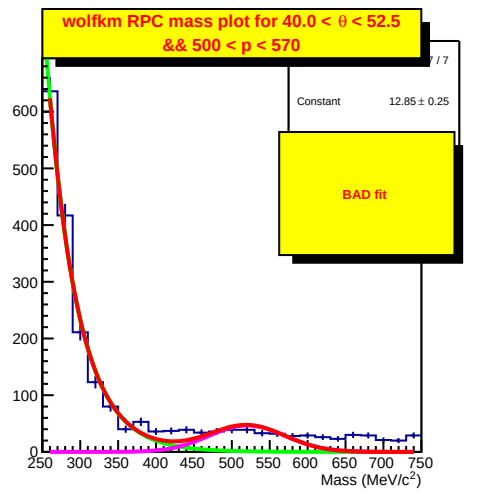

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 430 < p < 500
Mass (MeV/c²)

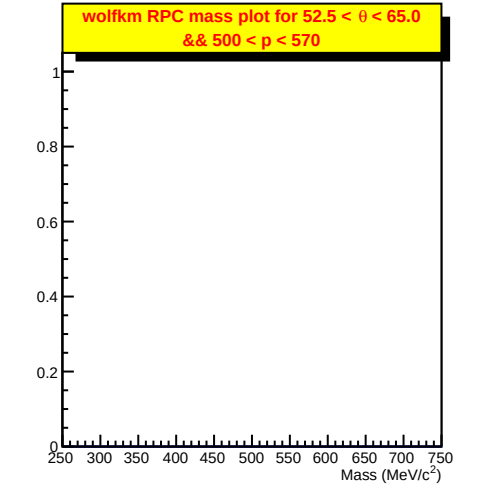

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 430 < p < 500
Mass (MeV/c²)

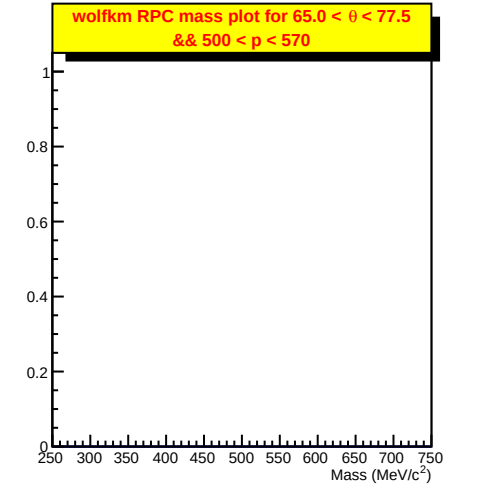

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 430 < p < 500
Mass (MeV/c²)

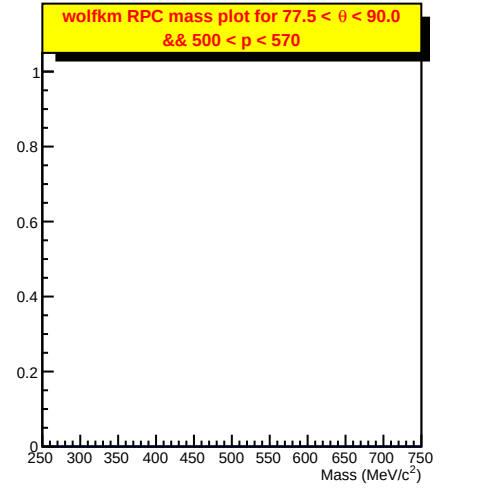

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 500 < p < 570
Constant 14.82 ± 0.07
BAD fit
Mass (MeV/c²)

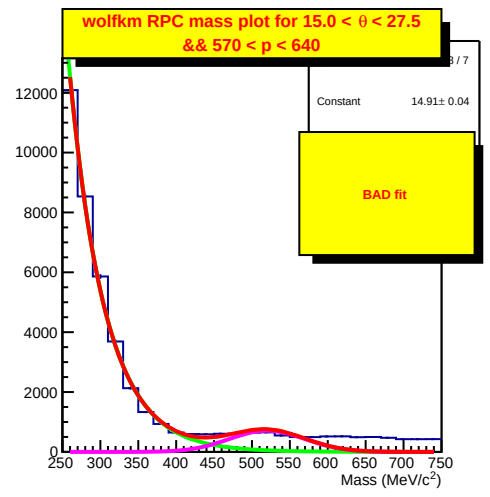

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 500 < p < 570
Constant 15.81 ± 0.06
BAD fit
Mass (MeV/c²)

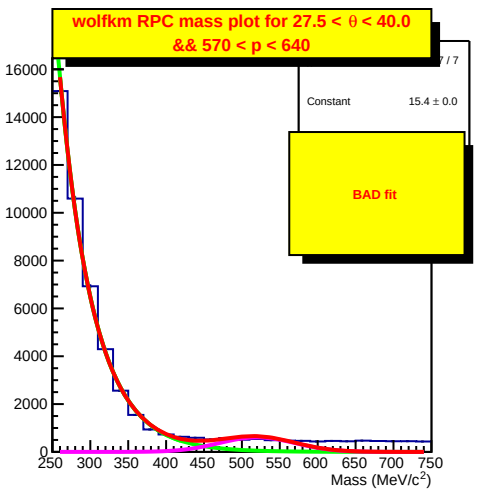

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 500 < p < 570
Constant 12.85 ± 0.25
BAD fit
Mass (MeV/c²)

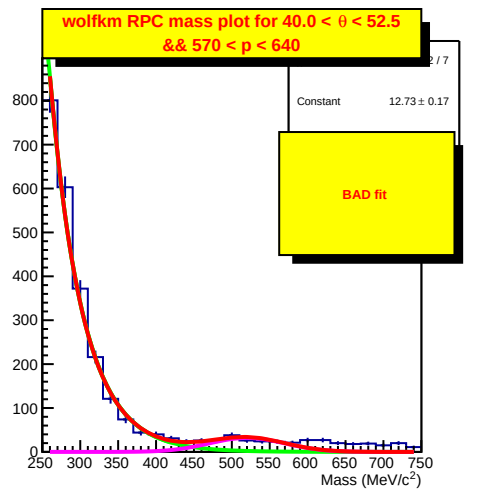

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 500 < p < 570
Mass (MeV/c²)

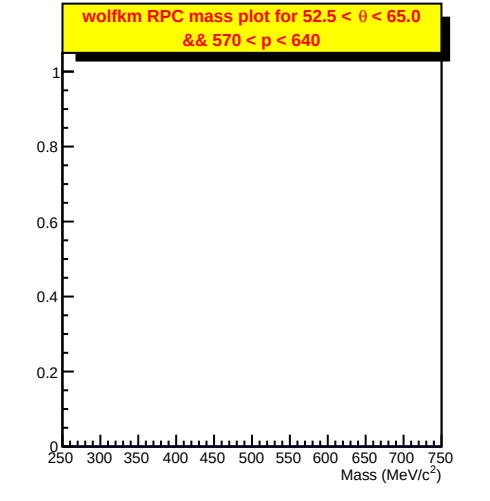

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 500 < p < 570
Mass (MeV/c²)

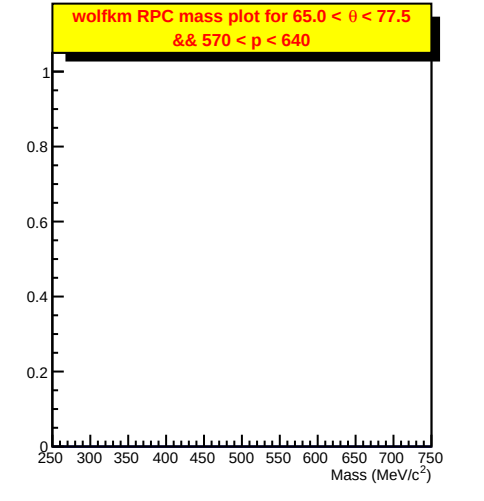

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 500 < p < 570
Mass (MeV/c²)

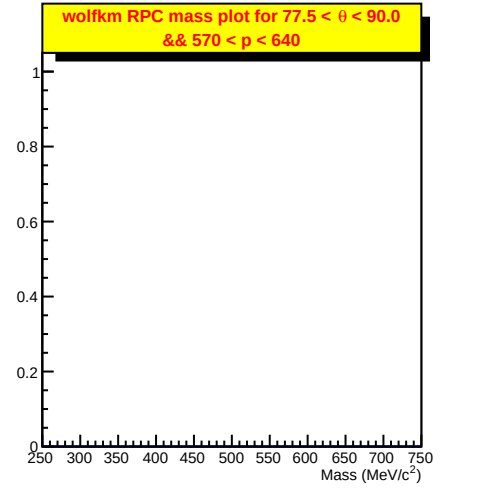

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 570 < p < 640
Constant 14.91± 0.04
BAD fit
Mass (MeV/c²)

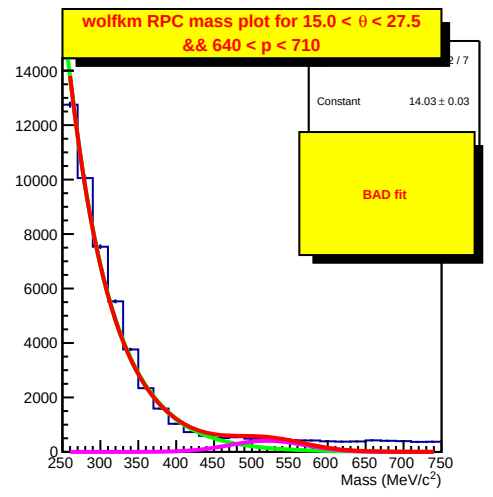

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 570 < p < 640
Constant 15.4 ± 0.0
BAD fit
Mass (MeV/c²)

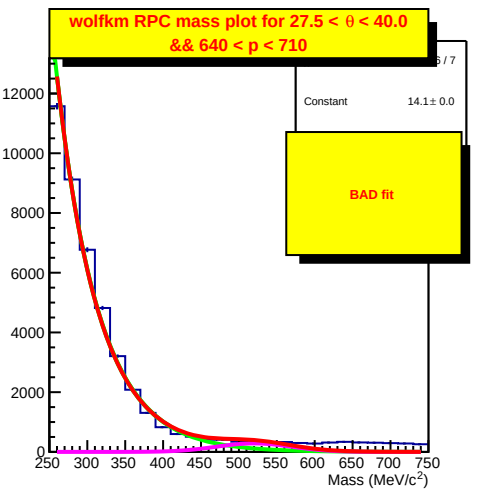

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 570 < p < 640
Constant 12.73 ± 0.17
BAD fit
Mass (MeV/c²)

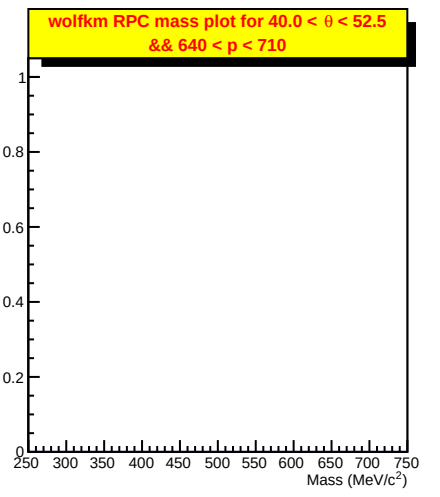

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 570 < p < 640
Mass (MeV/c²)

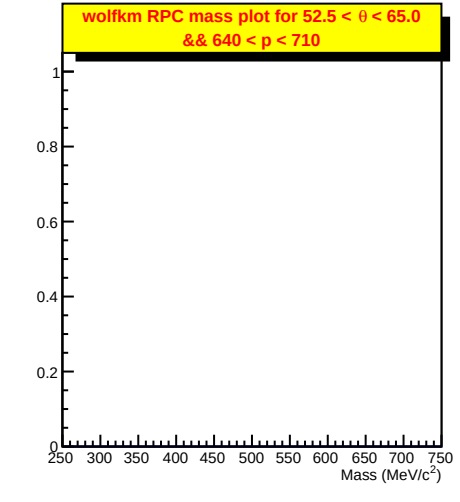

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 570 < p < 640
Mass (MeV/c²)

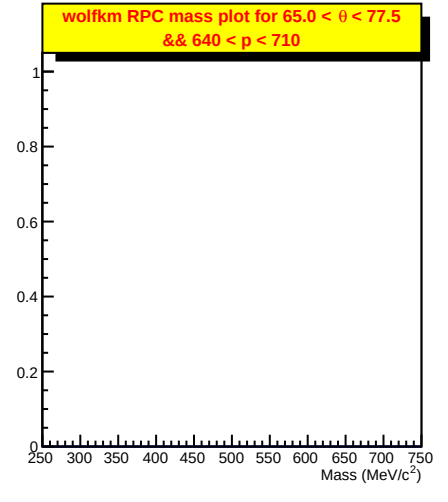

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 570 < p < 640
Mass (MeV/c²)

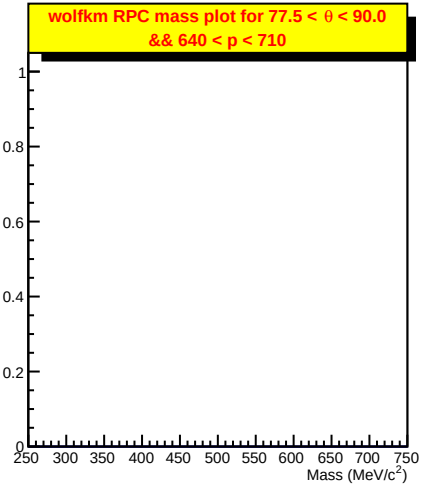

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 640 < p < 710
Constant 14.03 ± 0.03
BAD fit
Mass (MeV/c²)

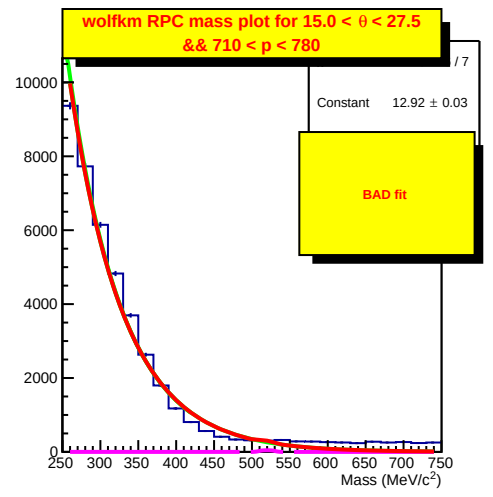

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 640 < p < 710
Constant 14.1 ± 0.0
BAD fit
Mass (MeV/c²)

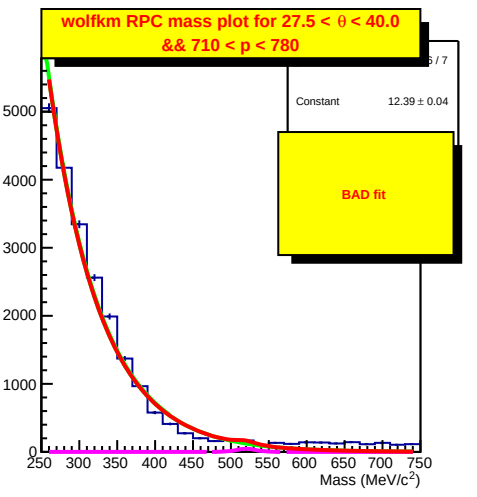

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 640 < p < 710
Mass (MeV/c²)

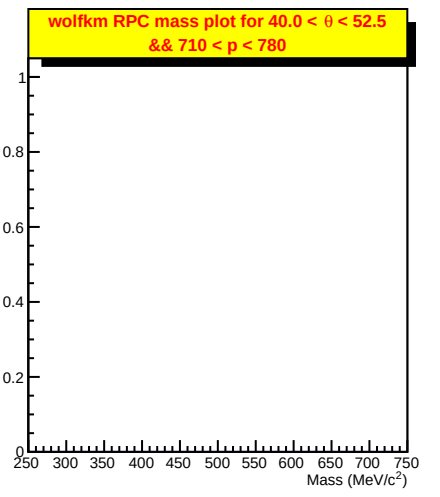

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 640 < p < 710
Mass (MeV/c²)

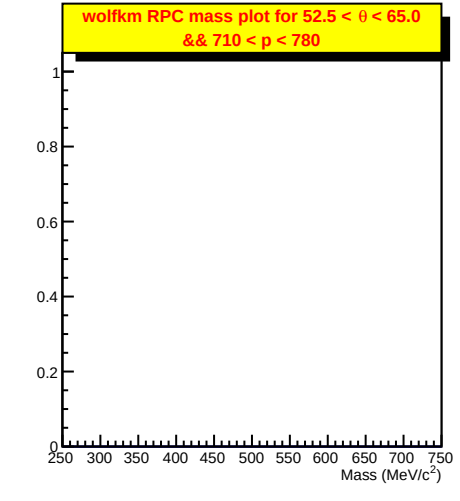

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 640 < p < 710
Mass (MeV/c²)

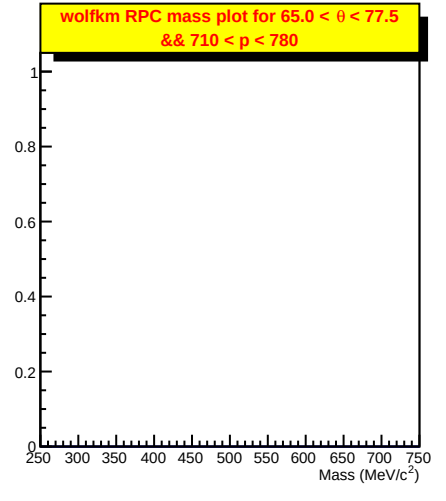

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 640 < p < 710
Mass (MeV/c²)

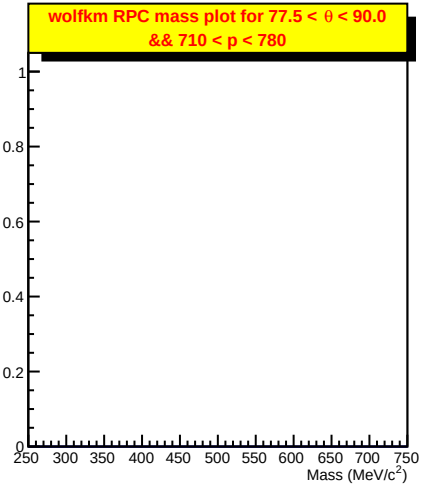

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 710 < p < 780
/ 7
Constant 12.92 ± 0.03
BAD fit
Mass (MeV/c²)

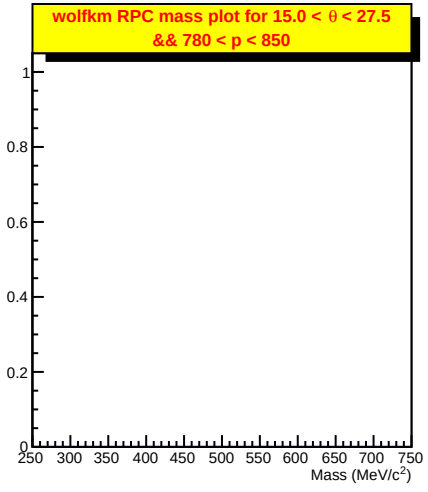

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 710 < p < 780
/ 7
Constant 12.39 ± 0.04
BAD fit
Mass (MeV/c²)

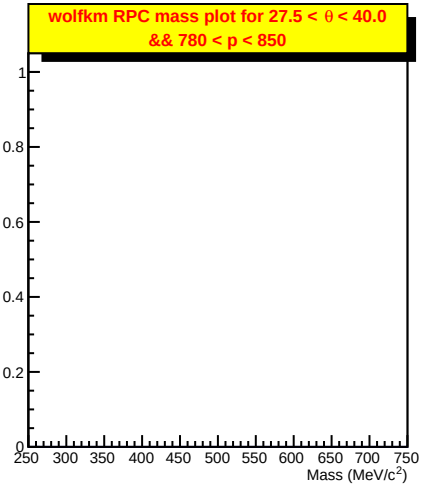

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 710 < p < 780
Mass (MeV/c²)

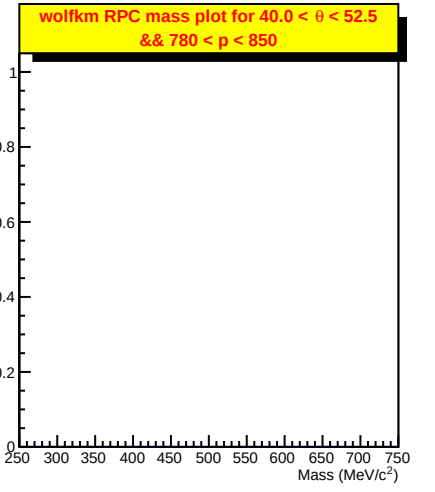

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 710 < p < 780
Mass (MeV/c²)

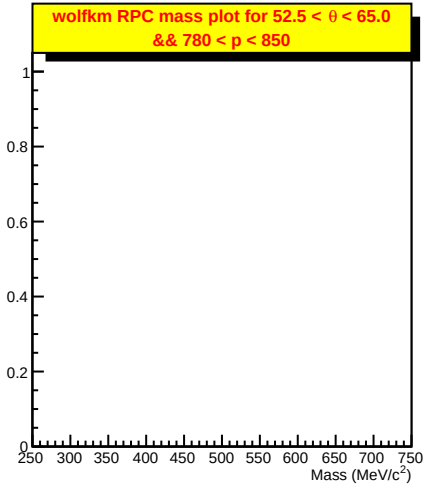

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 710 < p < 780
Mass (MeV/c²)

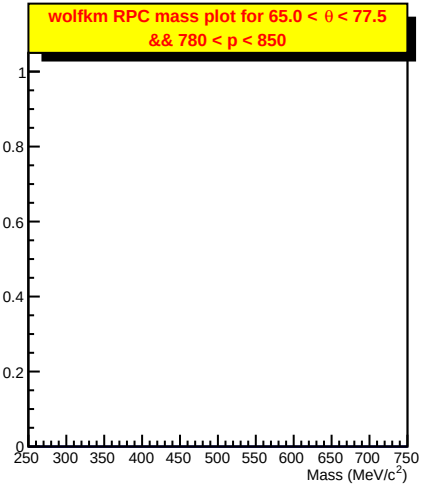

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 710 < p < 780
Mass (MeV/c²)

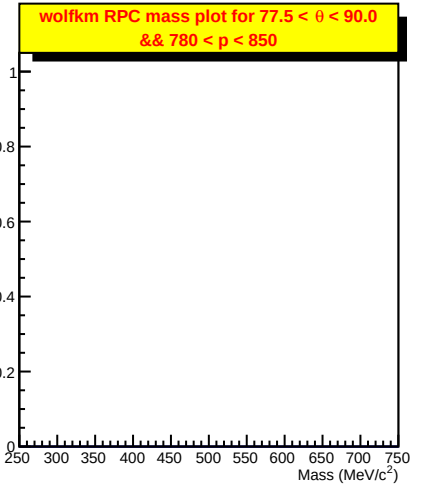

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 780 < p < 850
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

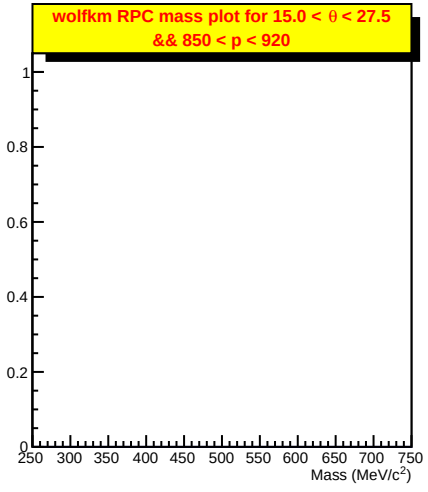

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 780 < p < 850
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

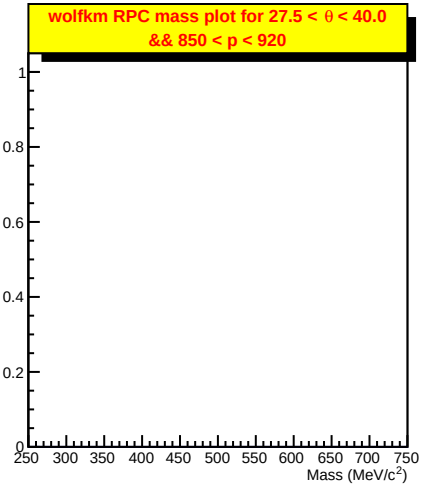

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 780 < p < 850
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

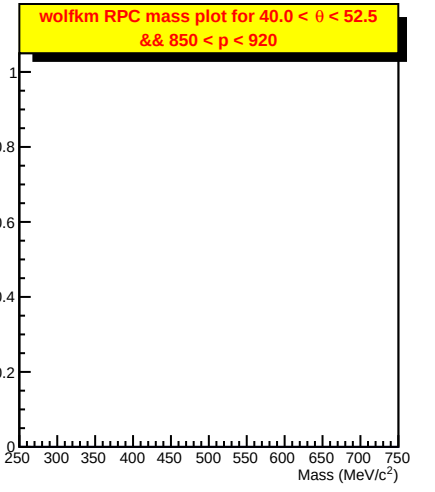

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 780 < p < 850
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

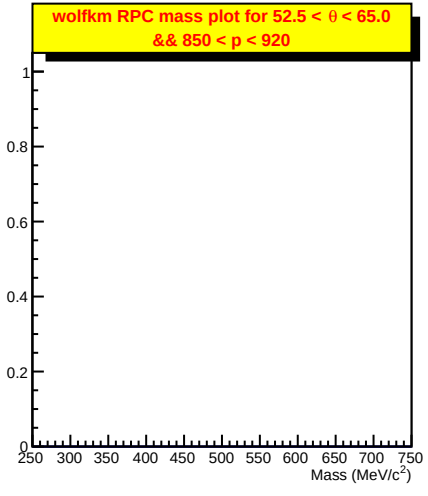

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 780 < p < 850
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

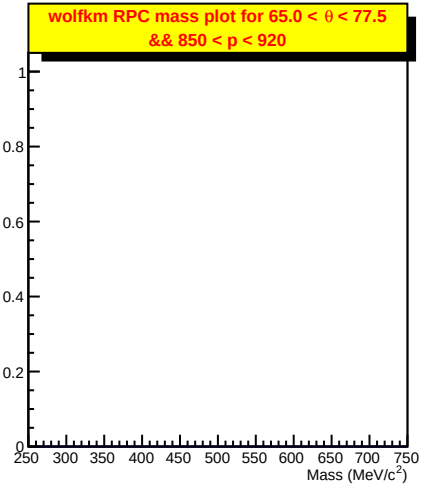

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 780 < p < 850
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

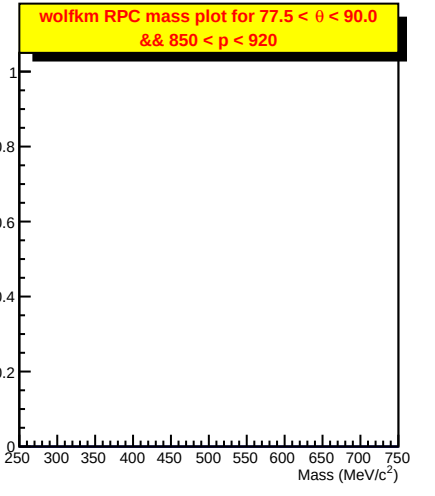

wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

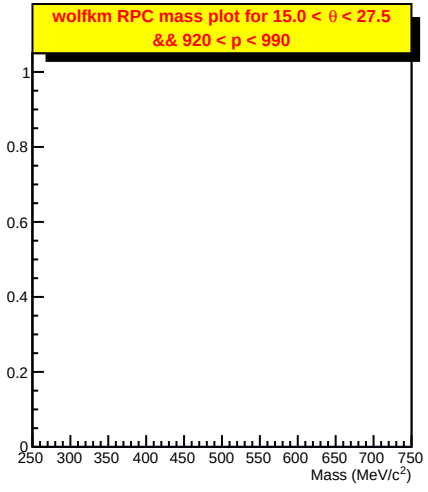

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm RPC mass plot for 15.0 < θ < 27.5
&& 920 < p < 990
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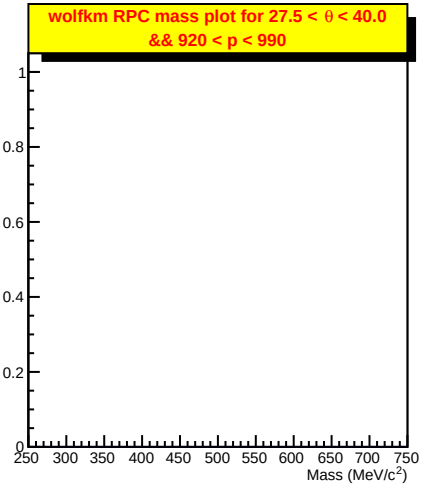
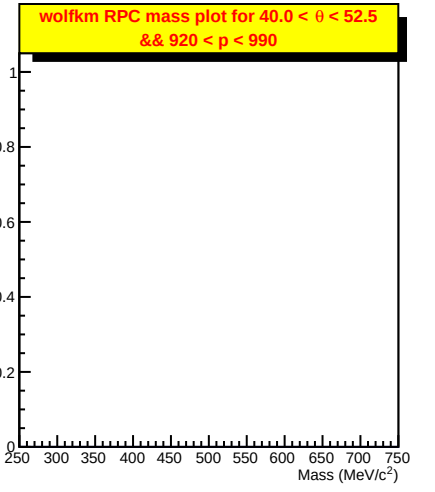
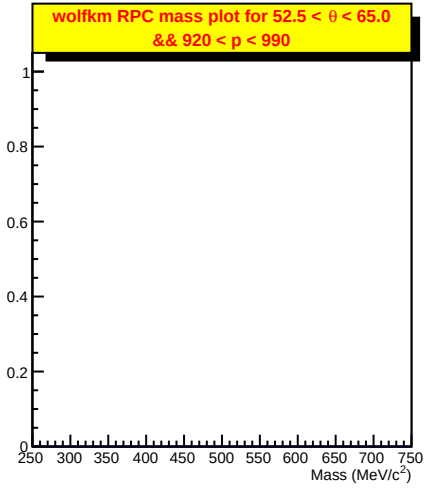
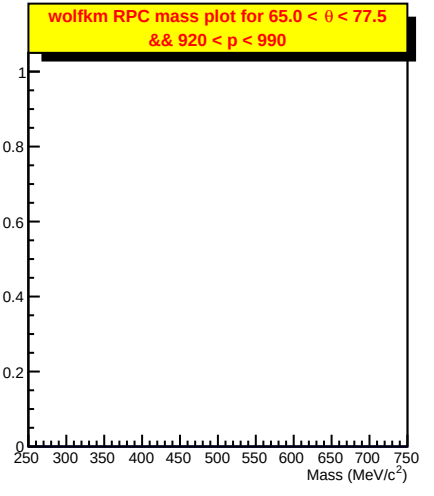
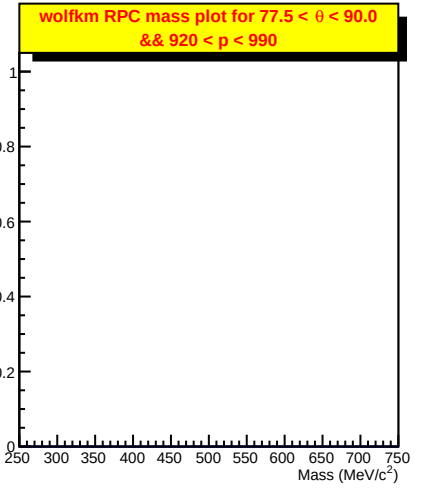
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

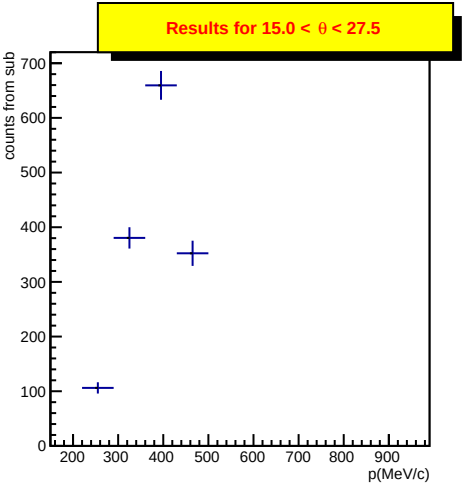

wolfkm RPC mass plot for 27.5 < θ < 40.0
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

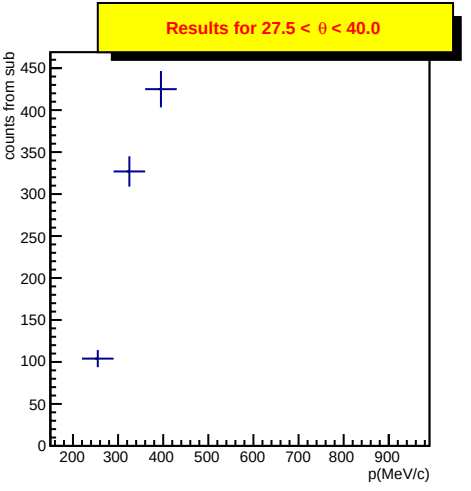

wolfkm RPC mass plot for 40.0 < θ < 52.5
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

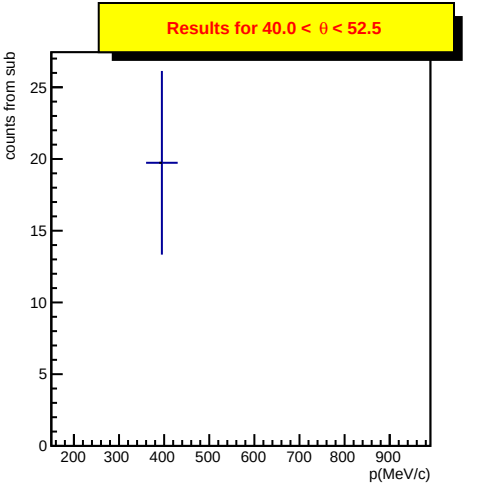

wolfkm RPC mass plot for 52.5 < θ < 65.0
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

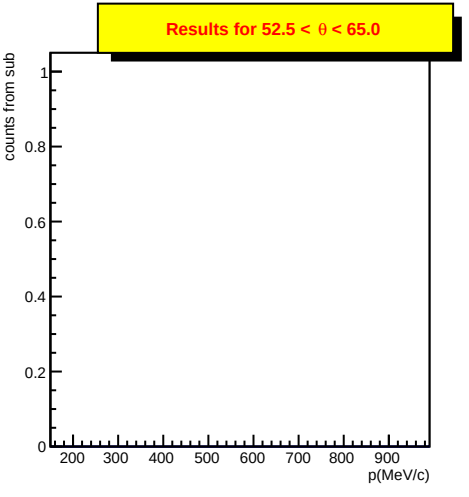

wolfkm RPC mass plot for 65.0 < θ < 77.5
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

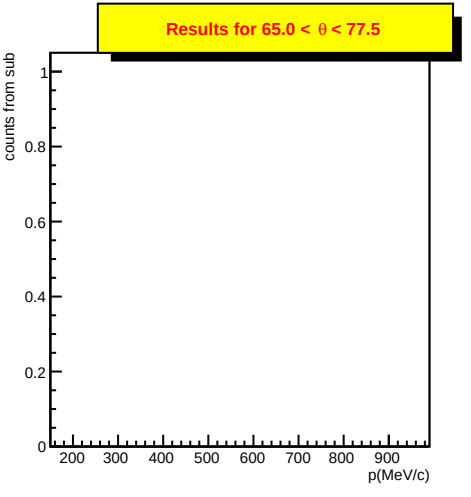

wolfkm RPC mass plot for 77.5 < θ < 90.0
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

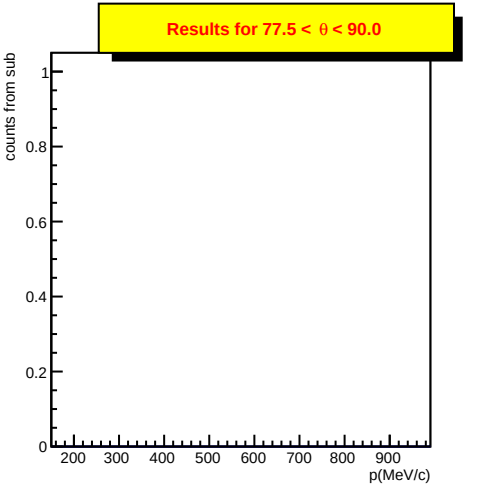

Results for 15.0 < θ < 27.5
counts from sub
p(MeV/c)

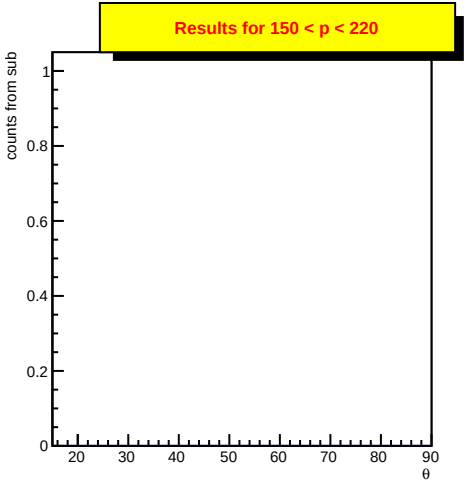

Results for 27.5 < θ < 40.0
counts from sub
p(MeV/c)

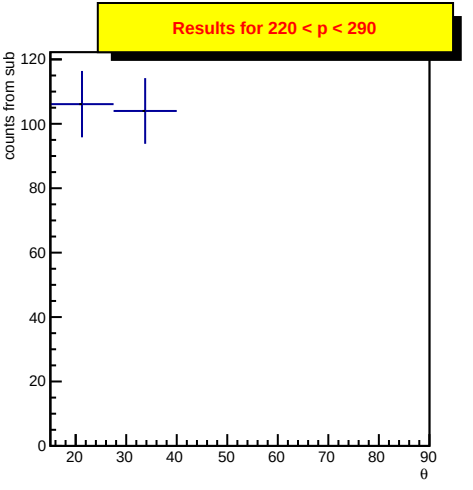

Results for 40.0 < θ < 52.5
counts from sub
p(MeV/c)

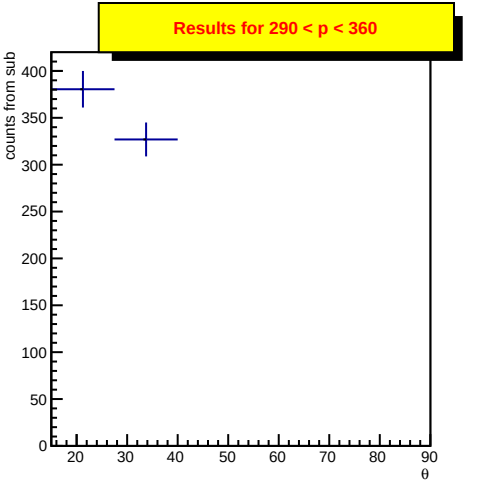

Results for 52.5 < θ < 65.0
counts from sub
p(MeV/c)

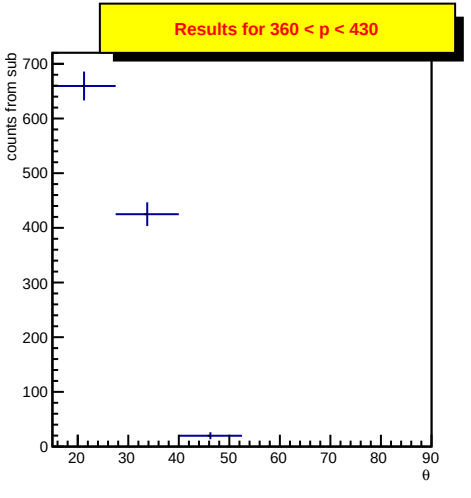

Results for 65.0 < θ < 77.5
counts from sub
p(MeV/c)

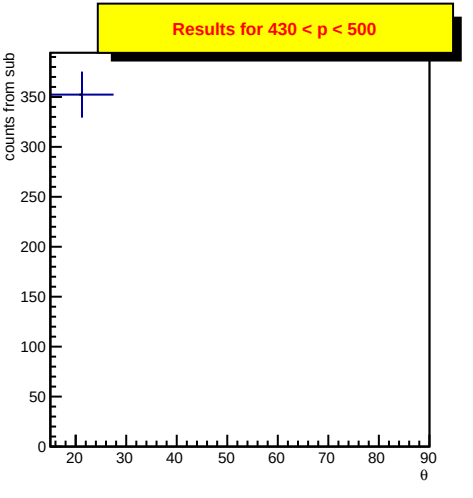

Results for 77.5 < θ < 90.0
counts from sub
p(MeV/c)

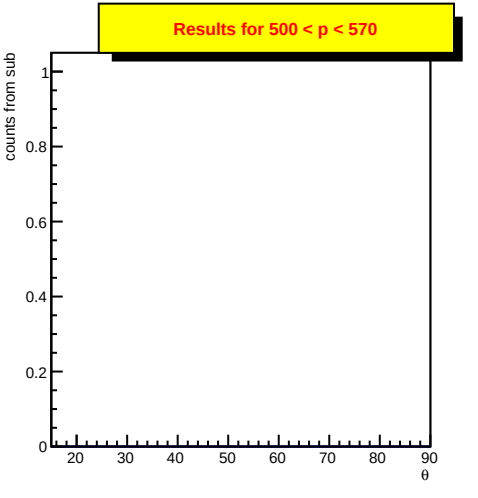

Results for 150 < p < 220
counts from sub
θ

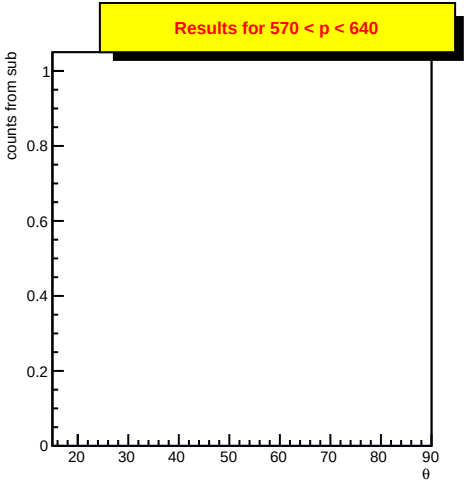

Results for 220 < p < 290
counts from sub
θ

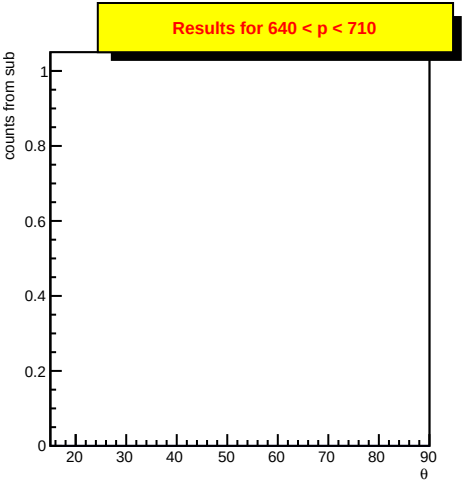

Results for 290 < p < 360
counts from sub
θ

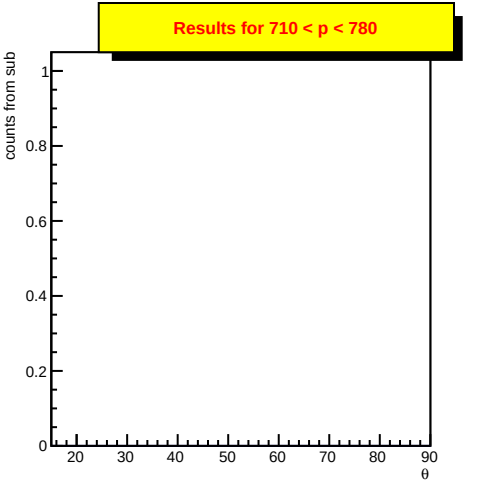

Results for 360 < p < 430
counts from sub
θ

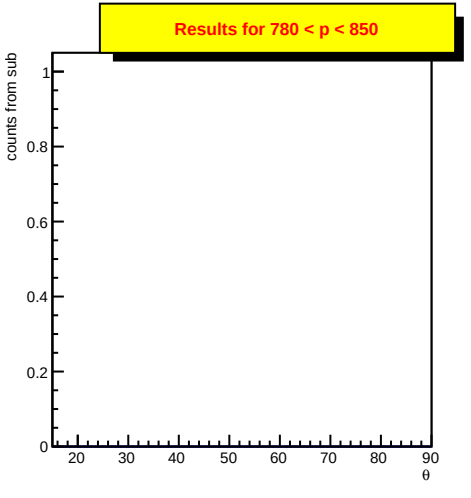

Results for 430 < p < 500
counts from sub
θ

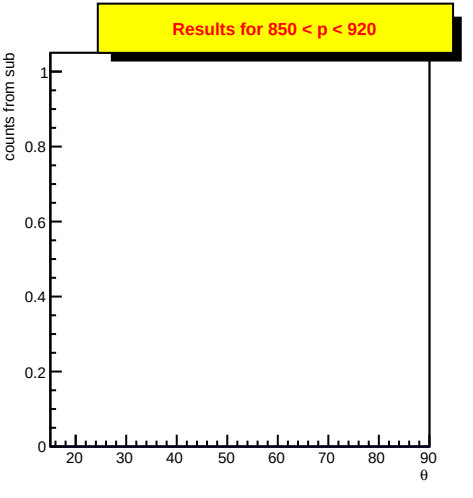

Results for 500 < p < 570
counts from sub
θ

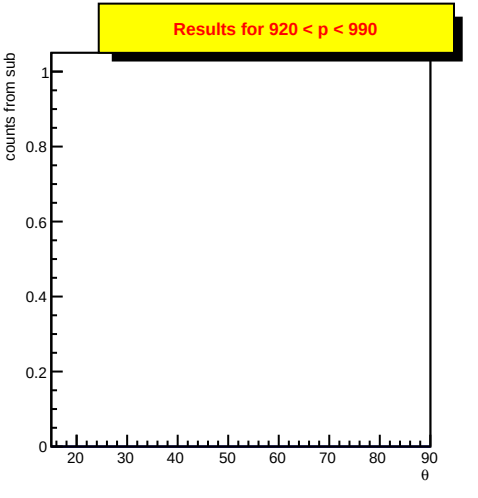

Results for 570 < p < 640
counts from sub
θ

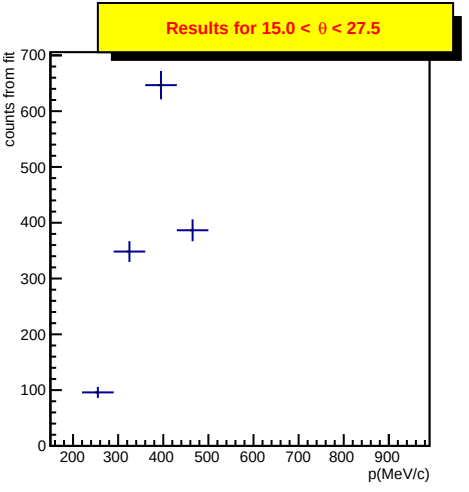

Results for 640 < p < 710
counts from sub
θ

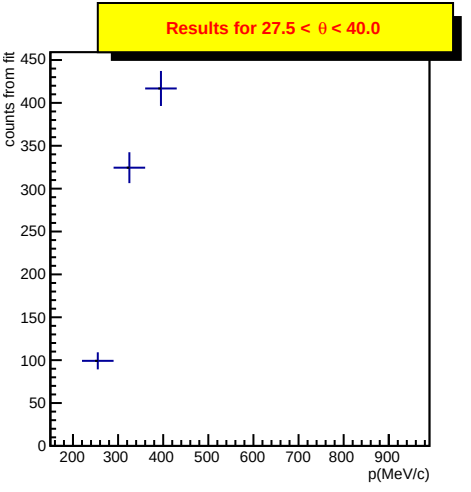

Results for 710 < p < 780
counts from sub
θ

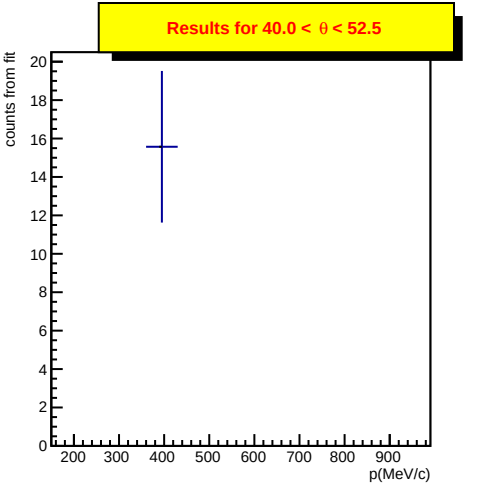

Results for 780 < p < 850
counts from sub
θ

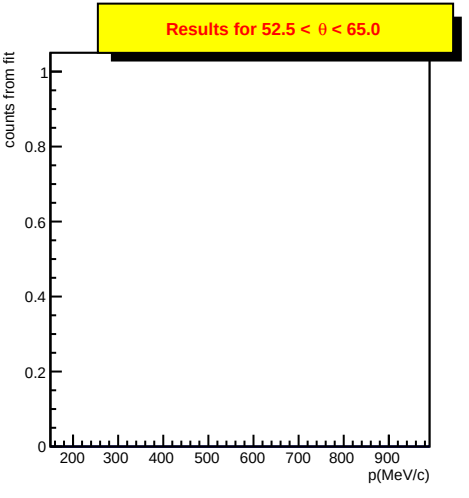

Results for 850 < p < 920
counts from sub
θ

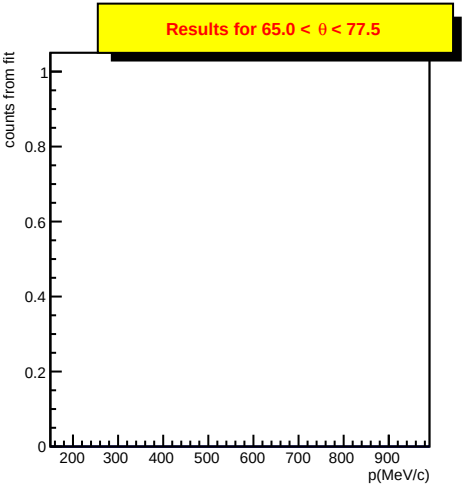

Results for 920 < p < 990
counts from sub
θ

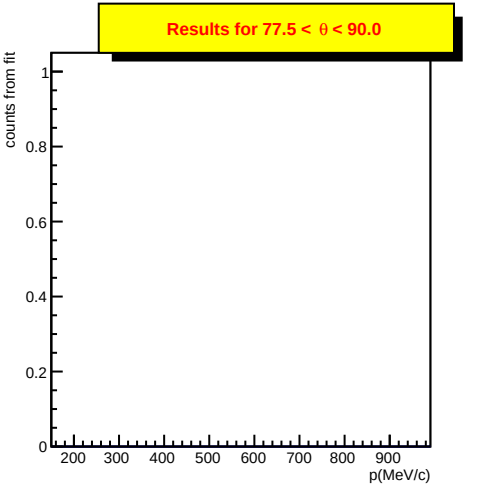

Results for 15.0 < θ < 27.5
counts from fit
p(MeV/c)

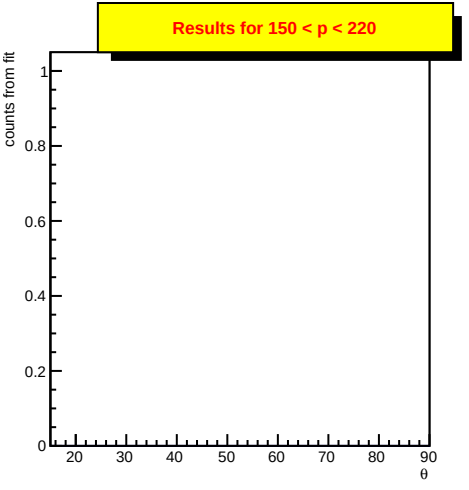

Results for 27.5 < θ < 40.0
counts from fit
p(MeV/c)

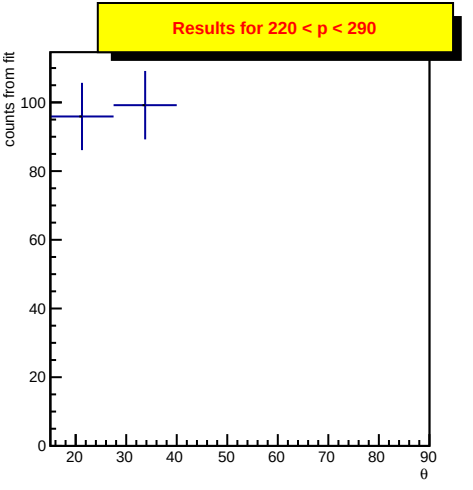

Results for 40.0 < θ < 52.5
counts from fit
p(MeV/c)

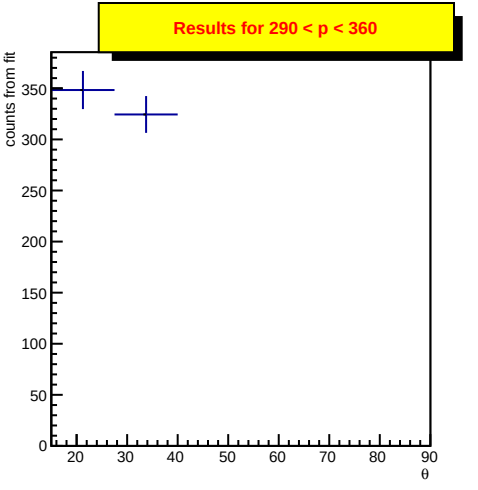

Results for 52.5 < θ < 65.0
counts from fit
p(MeV/c)

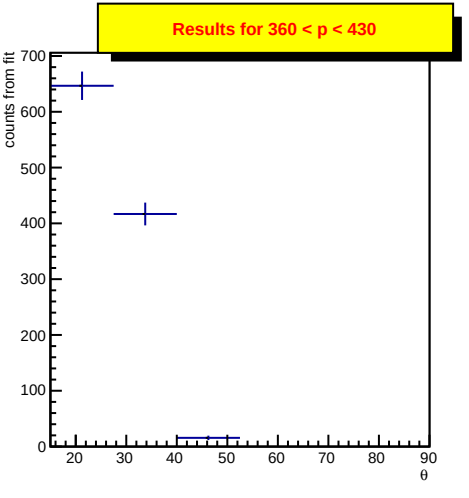

Results for 65.0 < θ < 77.5
counts from fit
p(MeV/c)

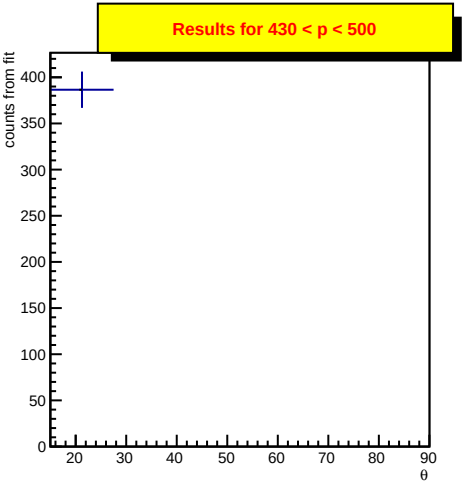

Results for 77.5 < θ < 90.0
counts from fit
p(MeV/c)

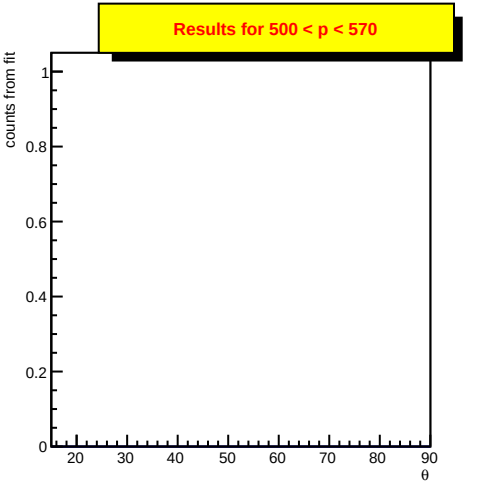

Results for 150 < p < 220
counts from fit
θ

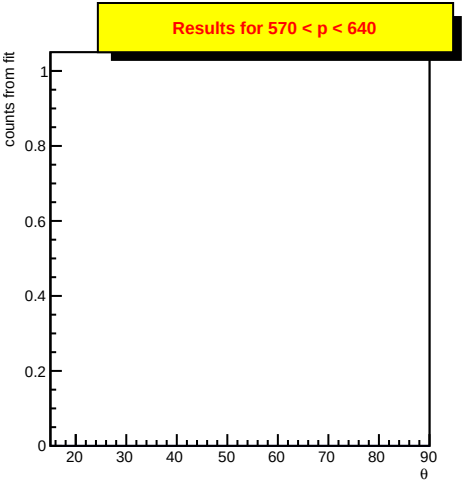

Results for 220 < p < 290
counts from fit
θ

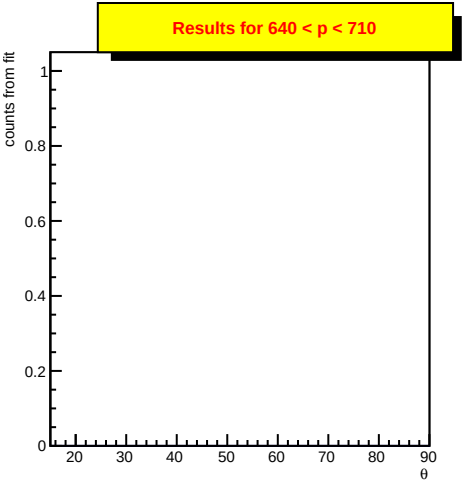

Results for 290 < p < 360
counts from fit
θ

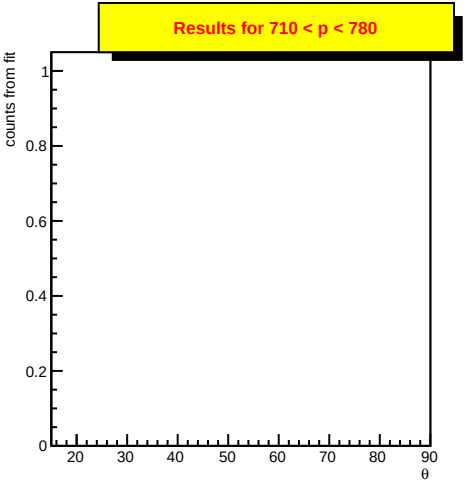

Results for 360 < p < 430
counts from fit
θ

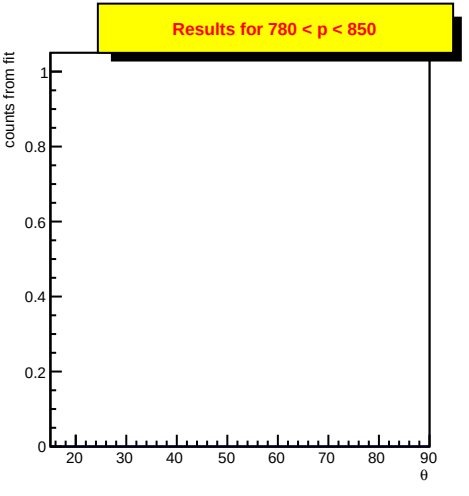

Results for 430 < p < 500
counts from fit
θ

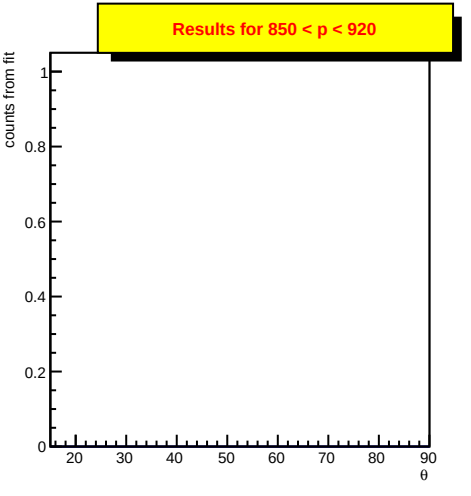

Results for 500 < p < 570
counts from fit
θ

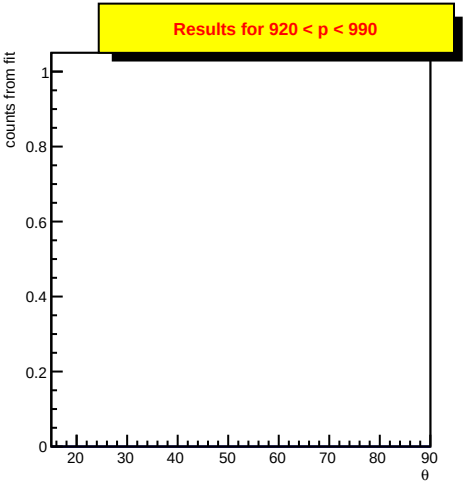

Results for 570 < p < 640
counts from fit
θ

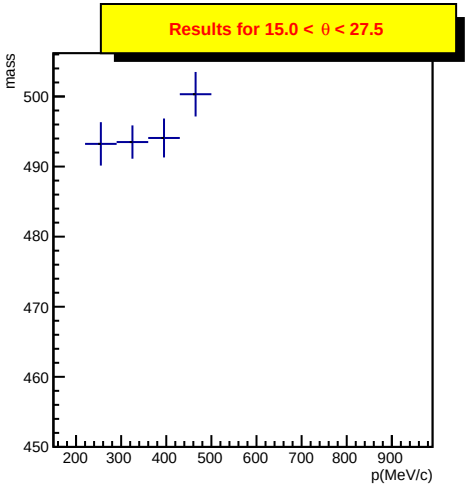

Results for 640 < p < 710
counts from fit
θ

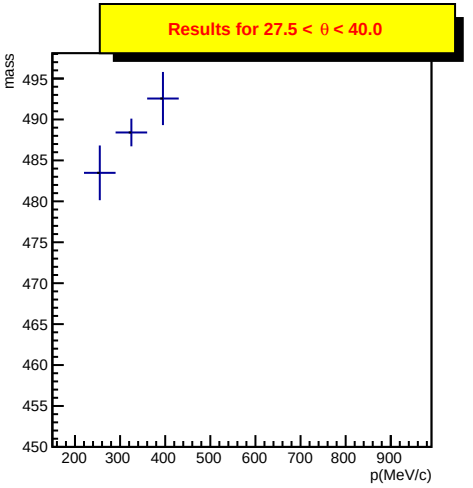

Results for 710 < p < 780
counts from fit
θ

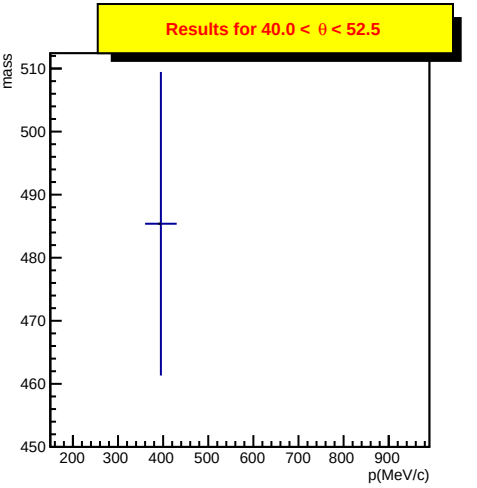

Results for 780 < p < 850
counts from fit
θ

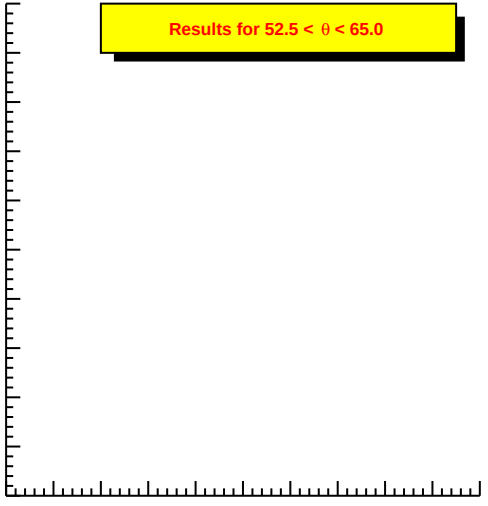

Results for 850 < p < 920
counts from fit
θ

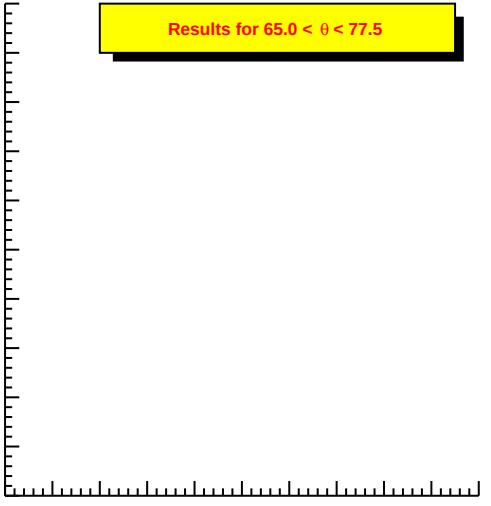

Results for 920 < p < 990
counts from fit
θ

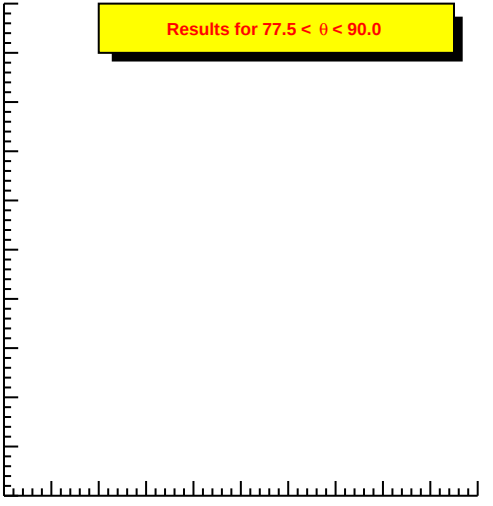

Results for 15.0 < θ < 27.5
mass
p(MeV/c)

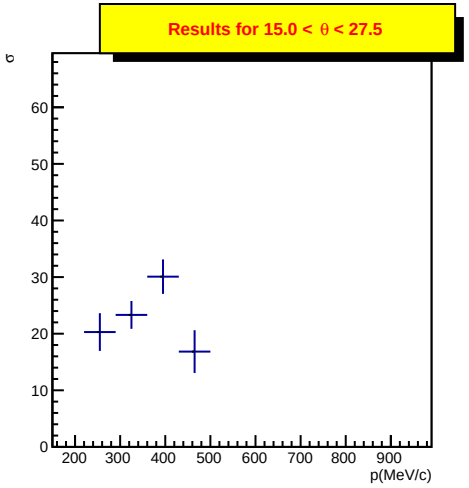

Results for 27.5 < θ < 40.0
mass
p(MeV/c)

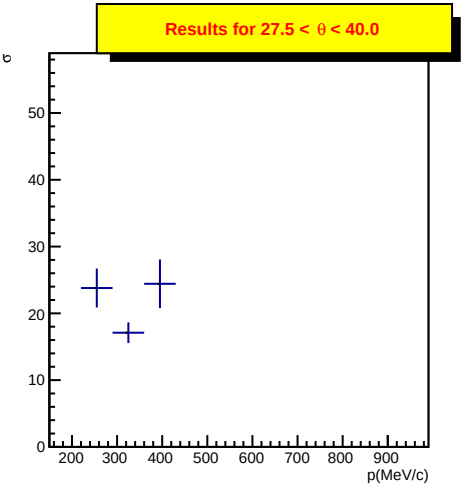

Results for 40.0 < θ < 52.5
mass
p(MeV/c)

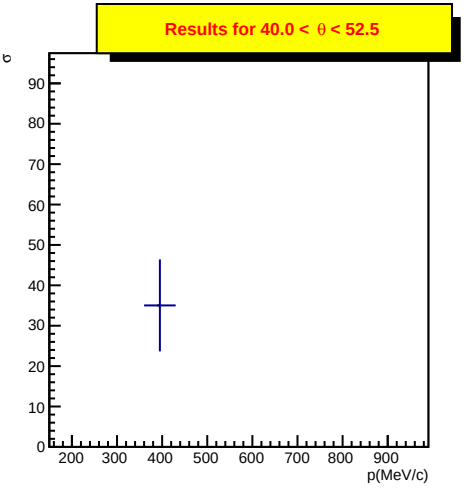

Results for 52.5 < θ < 65.0

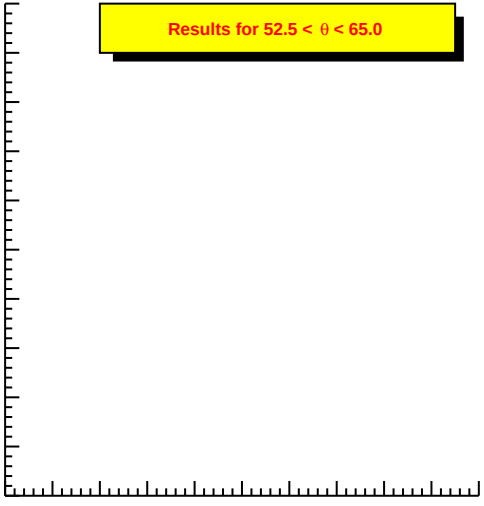

Results for 65.0 < θ < 77.5

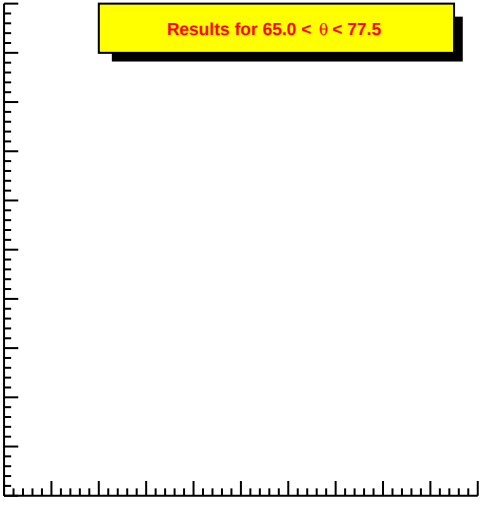

Results for 77.5 < θ < 90.0

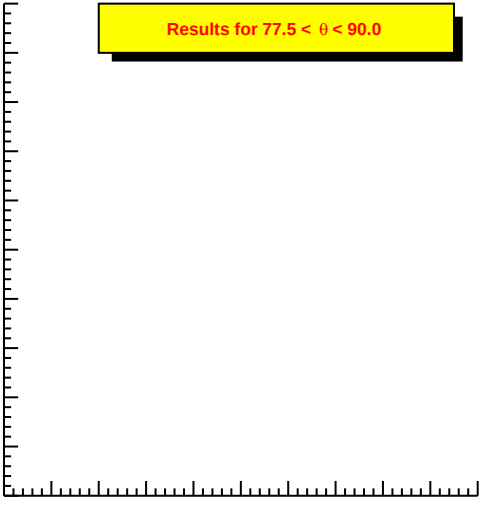

Results for 15.0 < θ < 27.5
σ
0
10
20
30
40
50
60
200
300
400
500
600
700
800
900
p(MeV/c)

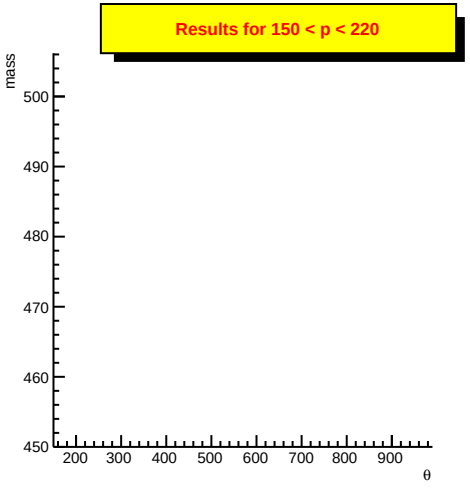

Results for 27.5 < θ < 40.0
σ
0
10
20
30
40
50
200
300
400
500
600
700
800
900
p(MeV/c)

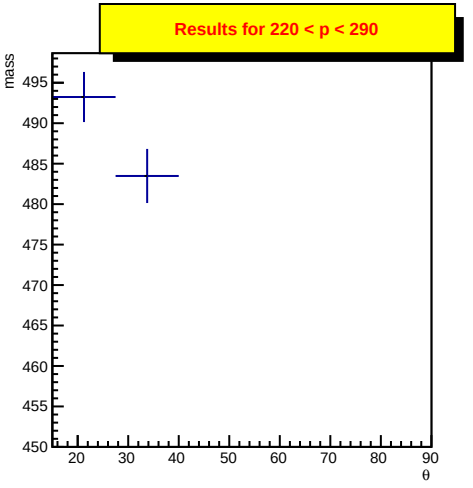

Results for 40.0 < θ < 52.5
σ
0
10
20
30
40
50
60
70
80
90
200
300
400
500
600
700
800
900
p(MeV/c)

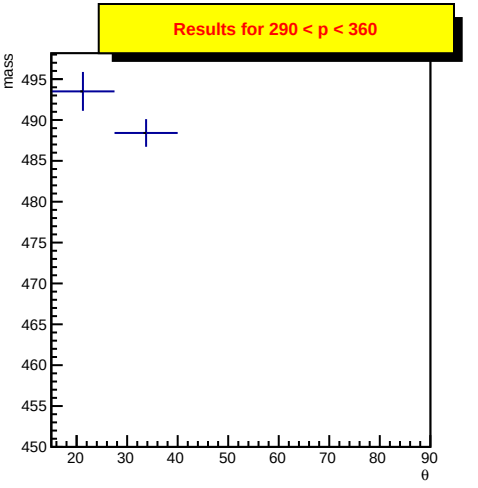

Results for 52.5 < θ < 65.0

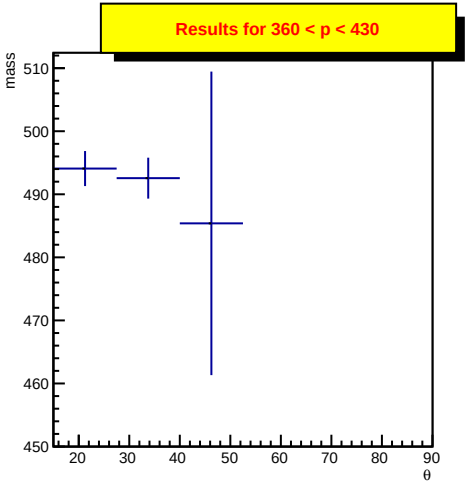

Results for 65.0 < θ < 77.5

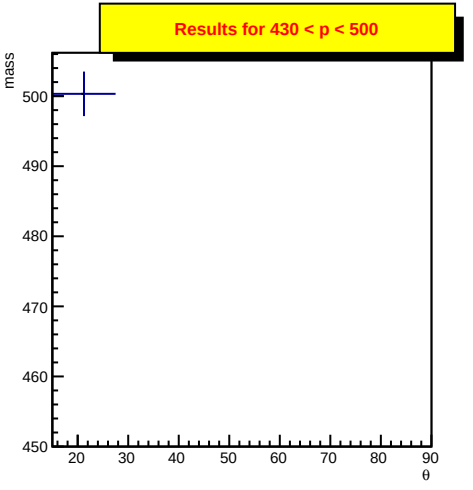

Results for 77.5 < θ < 90.0

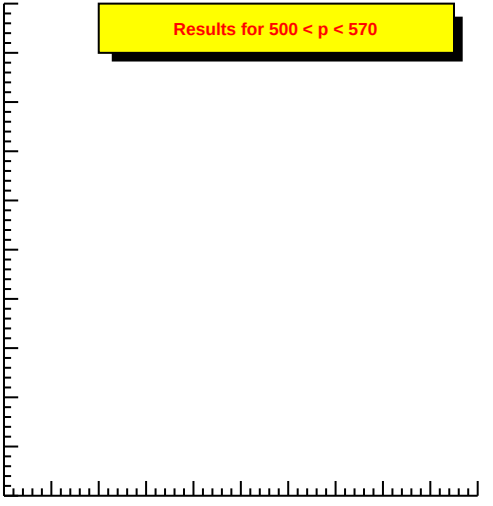

Results for 150 < p < 220
mass
θ

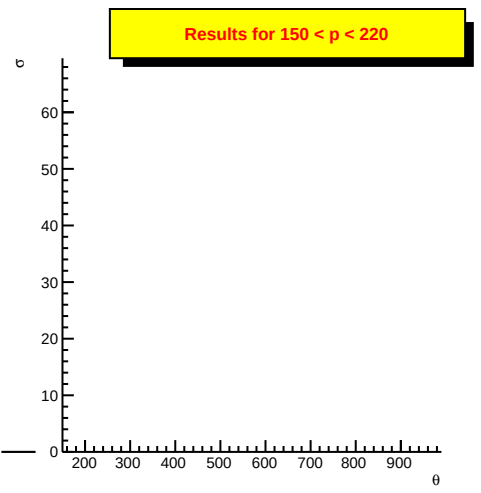

Results for 220 < p < 290
mass
θ

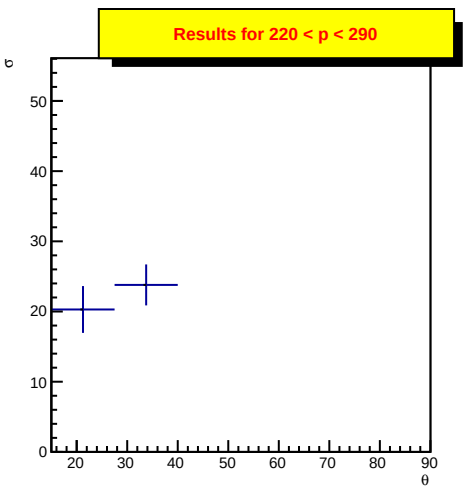

Results for 290 < p < 360
mass
θ

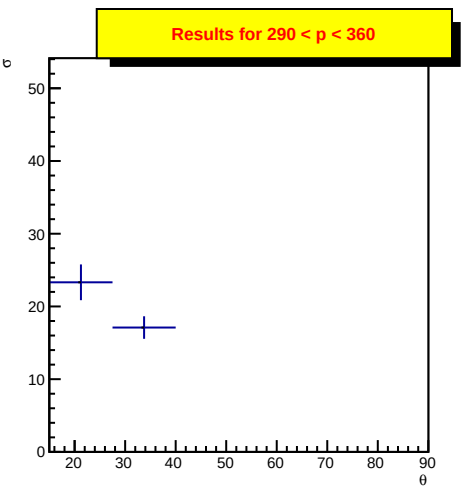

Results for 360 < p < 430
mass
θ

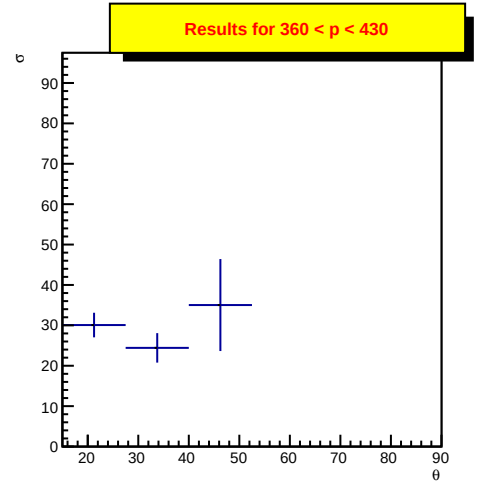

Results for 430 < p < 500
mass
θ

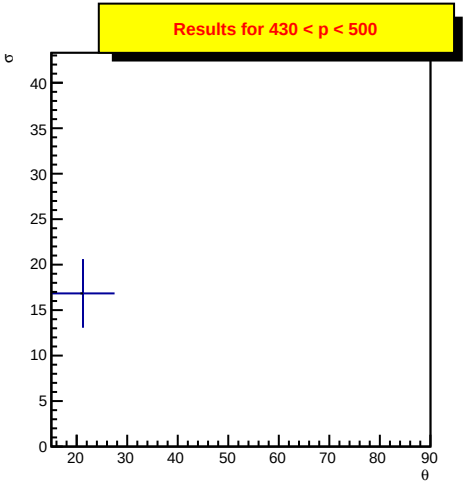

Results for 500 < p < 570

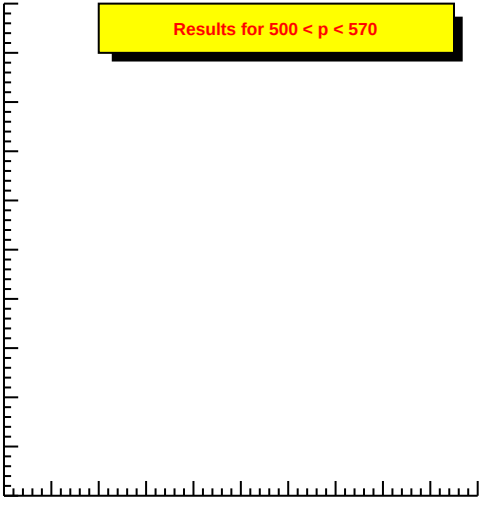

Results for 150 < p < 220
σ
θ

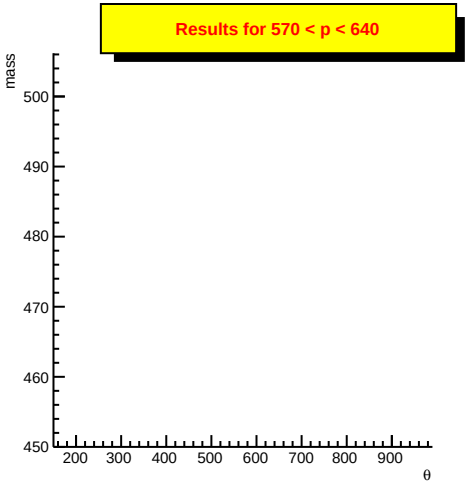

Results for 220 < p < 290
σ
θ

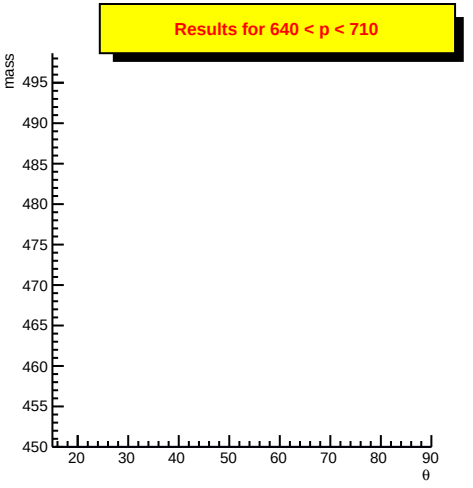

Results for 290 < p < 360
σ
θ

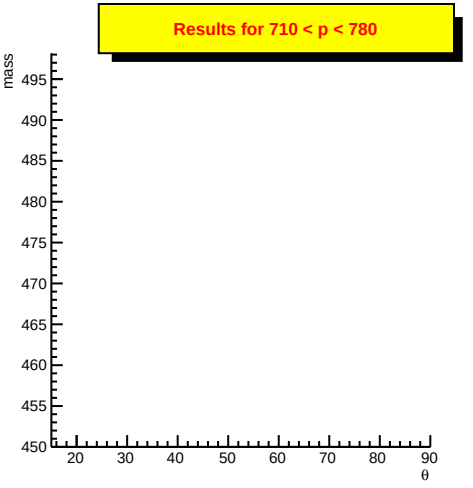

Results for 360 < p < 430
σ
θ

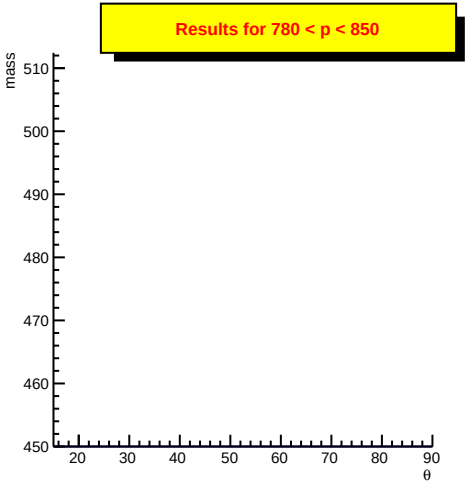

Results for 430 < p < 500
σ
θ

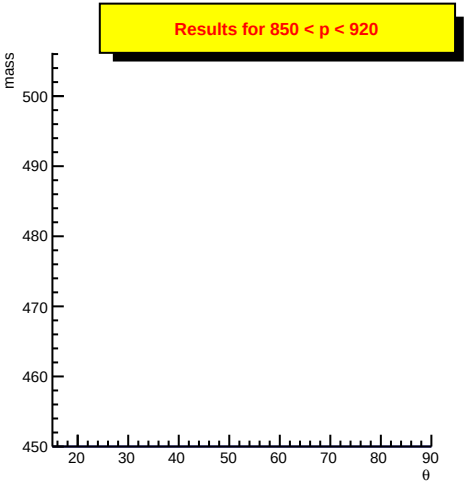

Results for 500 < p < 570

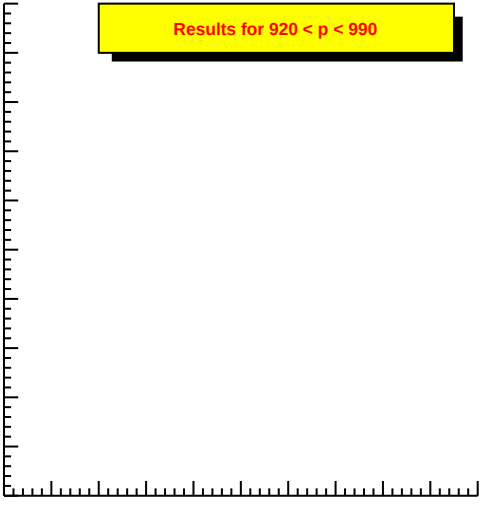

Results for 570 < p < 640
mass
500
490
480
470
460
450
200
300
400
500
600
700
800
900
θ


Results for 640 < p < 710
mass
495
490
485
480
475
470
465
460
455
450
20
30
40
50
60
70
80
90
θ

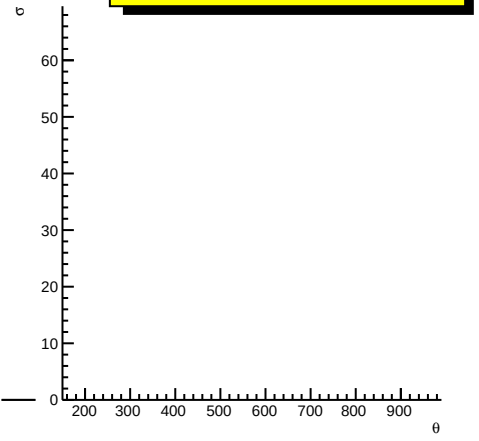

Results for 710 < p < 780
mass
495
490
485
480
475
470
465
460
455
450
20
30
40
50
60
70
80
90
θ


Results for 780 < p < 850
mass
510
500
490
480
470
460
450
20
30
40
50
60
70
80
90
θ

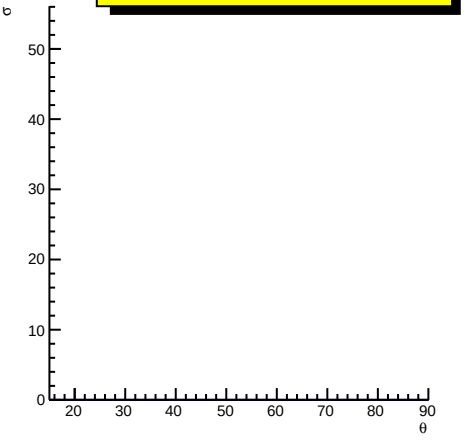

Results for 850 < p < 920
mass
500
490
480
470
460
450
20
30
40
50
60
70
80
90
θ


Results for 920 < p < 990

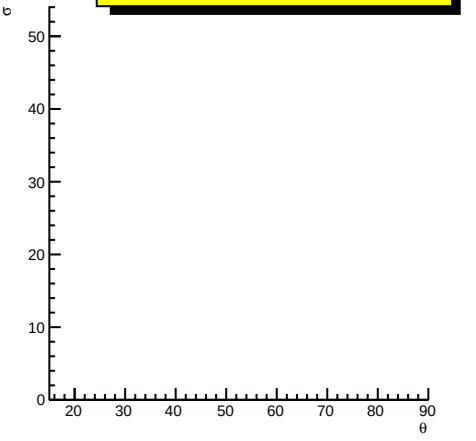
Results for 570 < p < 640



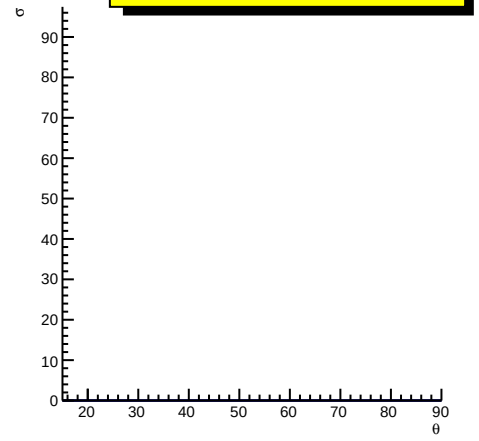
Results for 640 < p < 710



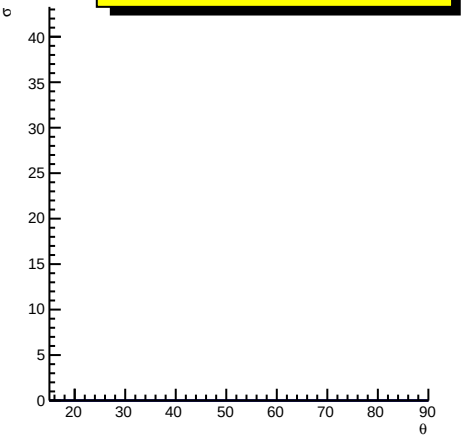
Results for 710 < p < 780



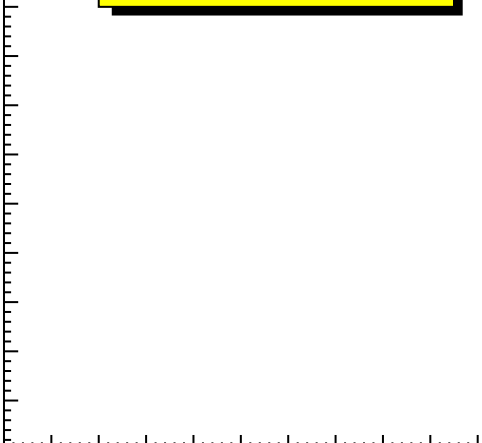
Results for 780 < p < 850

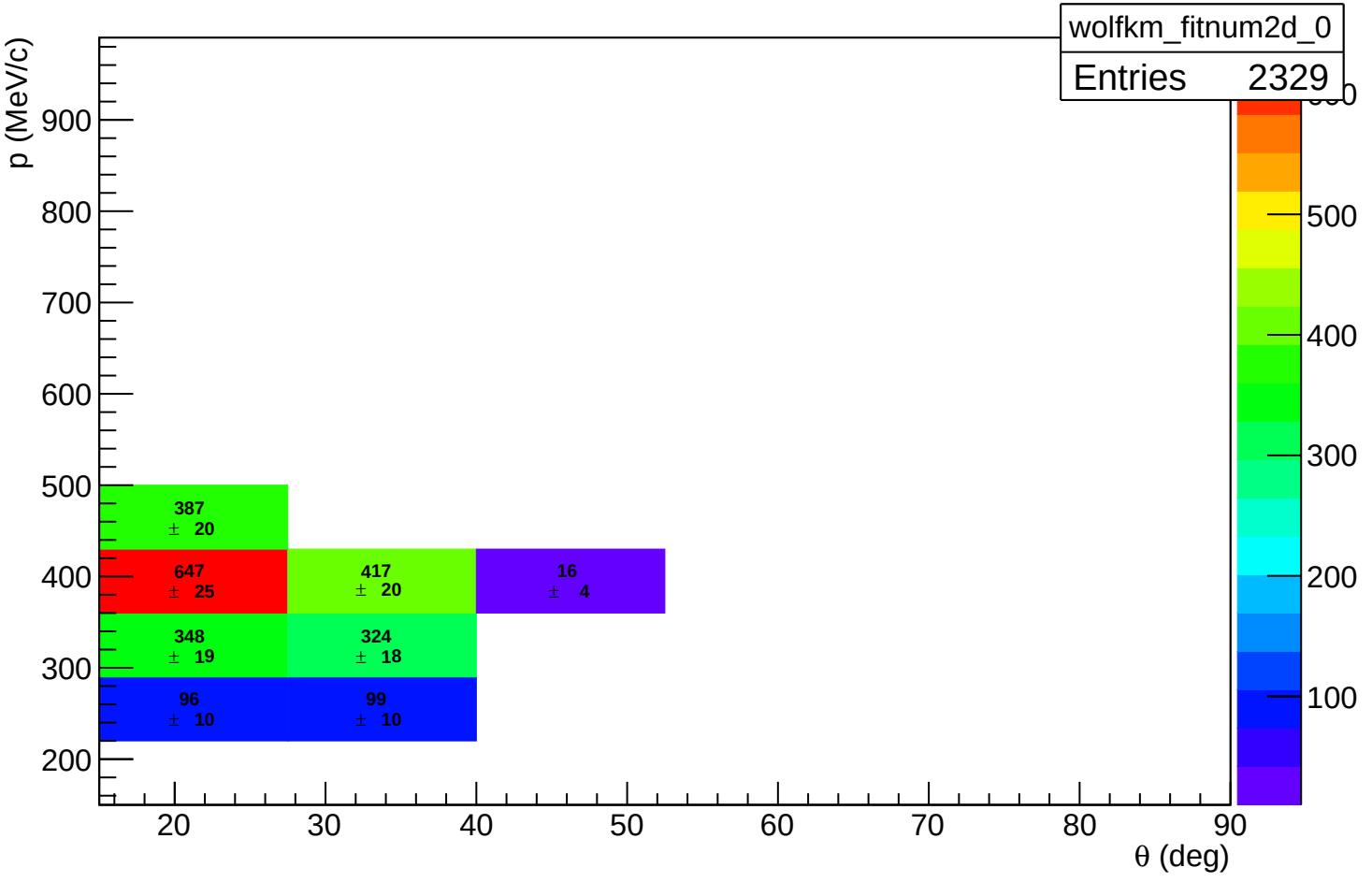


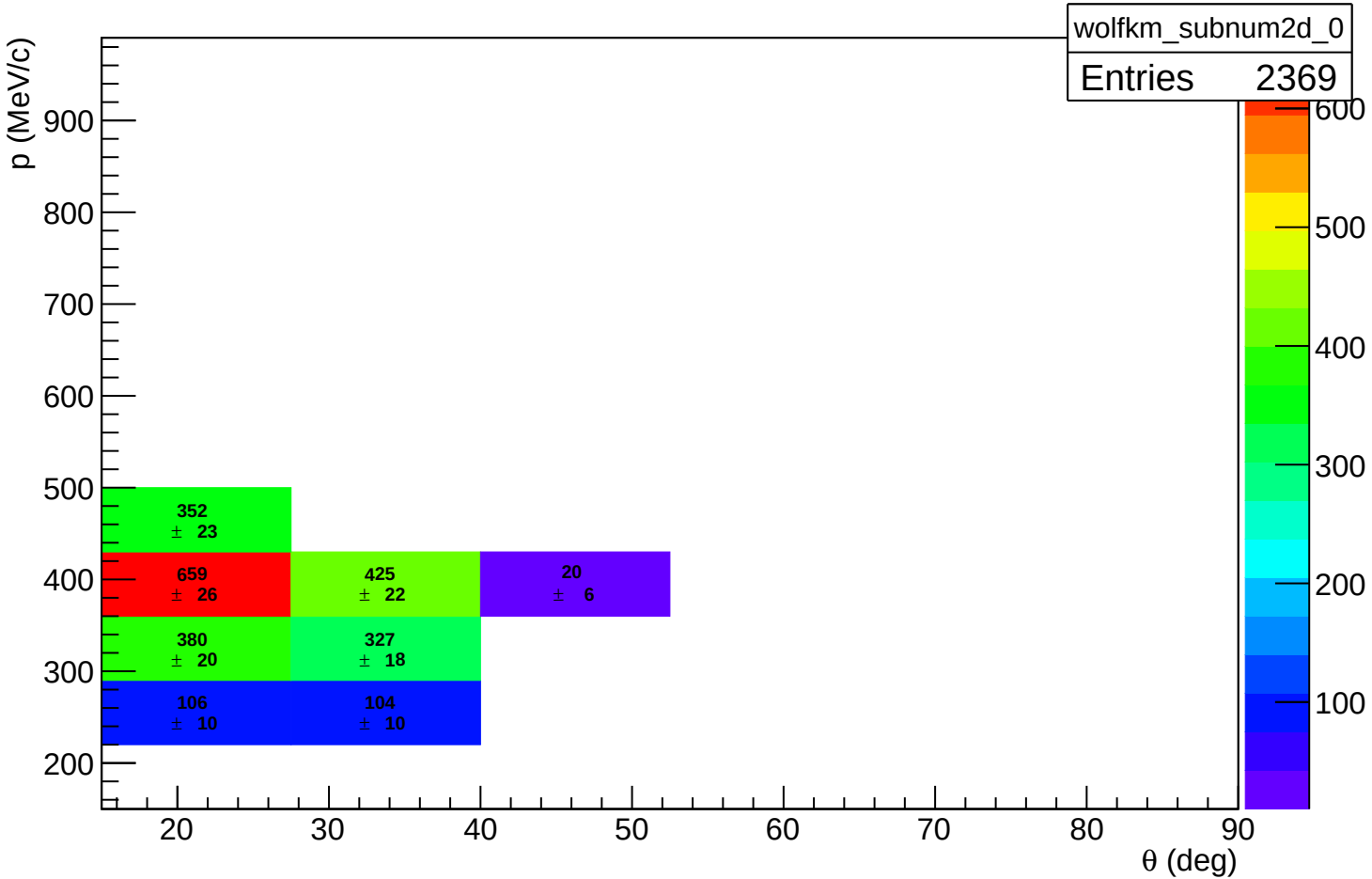
Results for 850 < p < 920

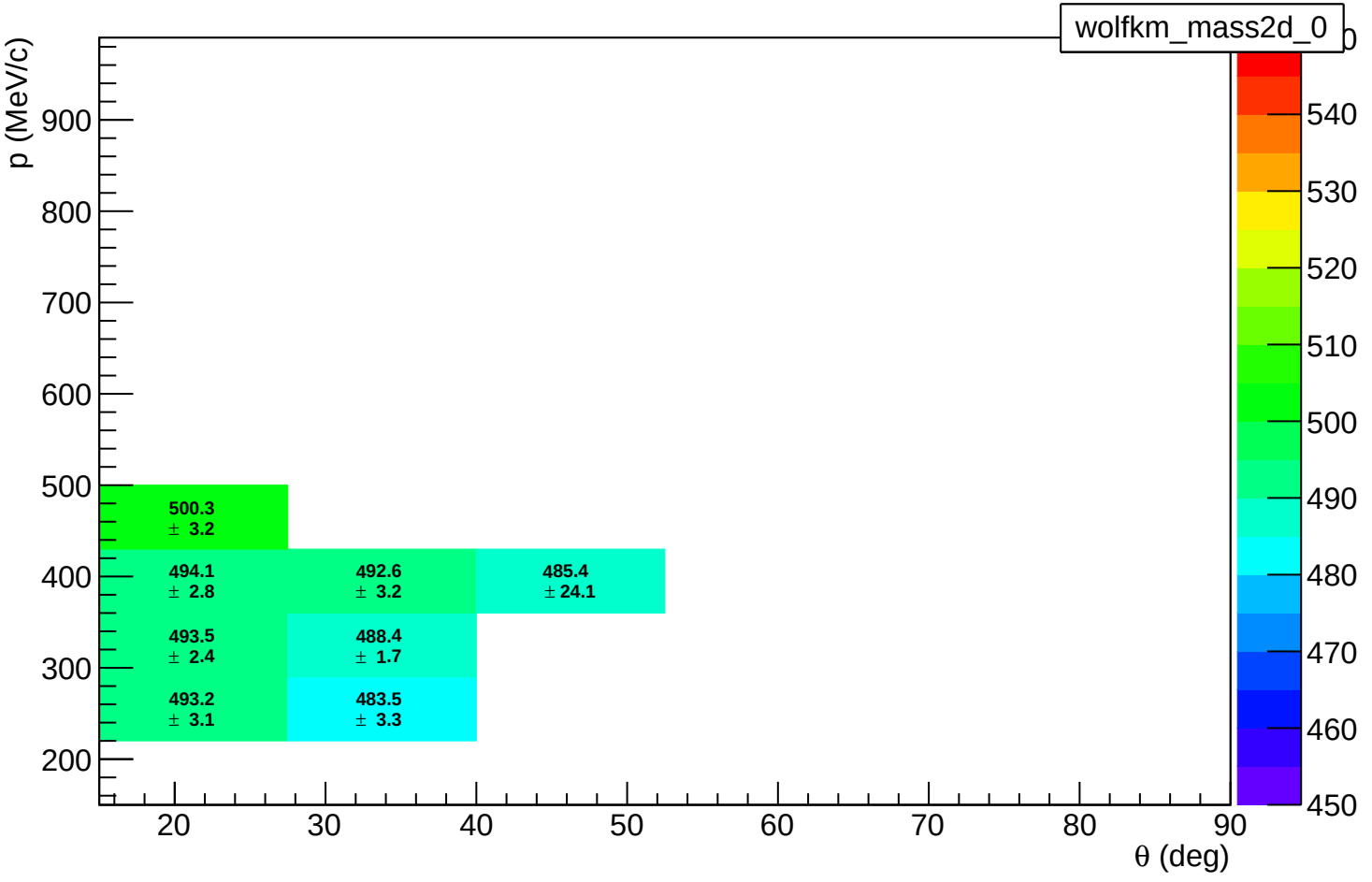


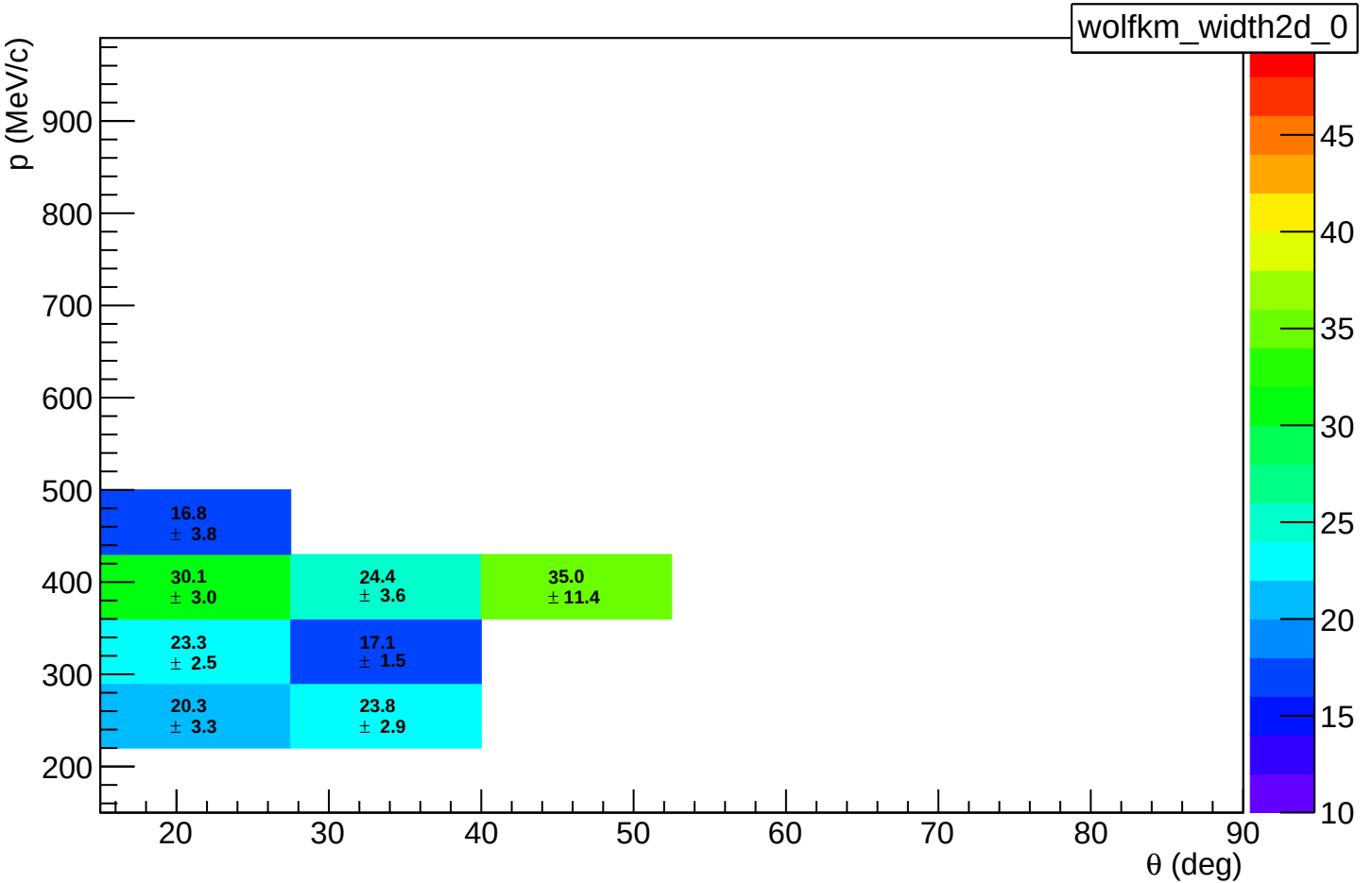
Results for 920 < p < 990

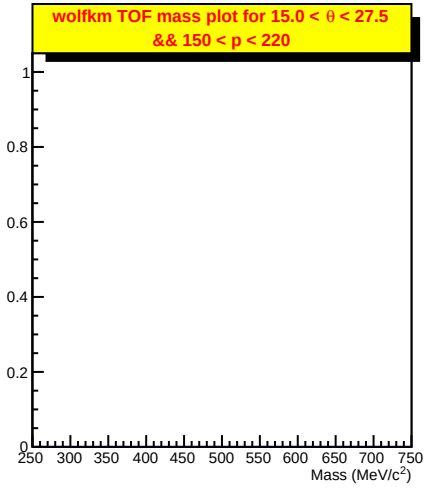


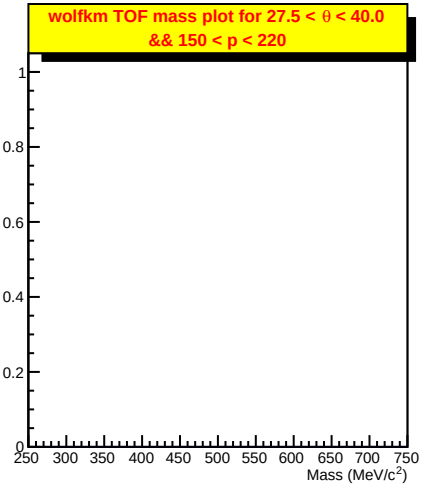

wolfkm_fitnum2d_0
Entries 2329
p (MeV/c)
θ (deg)
387 ± 20
647 ± 25
417 ± 20
16 ± 4
348 ± 19
324 ± 18
96 ± 10
99 ± 10

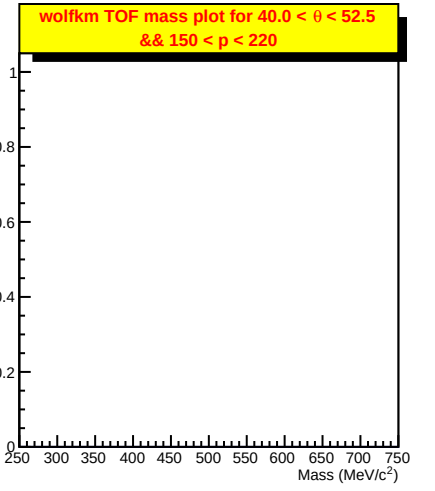

wolfkm_subnum2d_0
Entries 2369
p (MeV/c)
θ (deg)
352 ± 23
659 ± 26
425 ± 22
20 ± 6
380 ± 20
327 ± 18
106 ± 10
104 ± 10

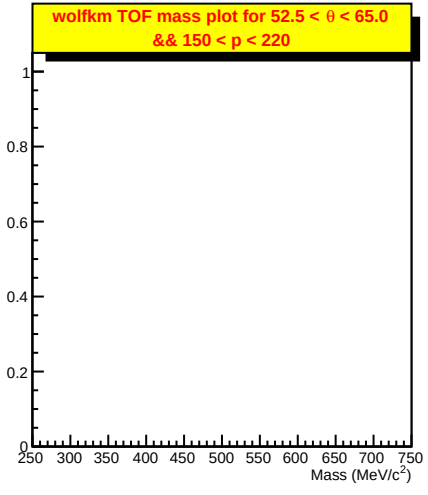

wolfkm_mass2d_0
p (MeV/c)
θ (deg)
500.3
± 3.2
494.1
± 2.8
492.6
± 3.2
485.4
± 24.1
493.5
± 2.4
488.4
± 1.7
493.2
± 3.1
483.5
± 3.3

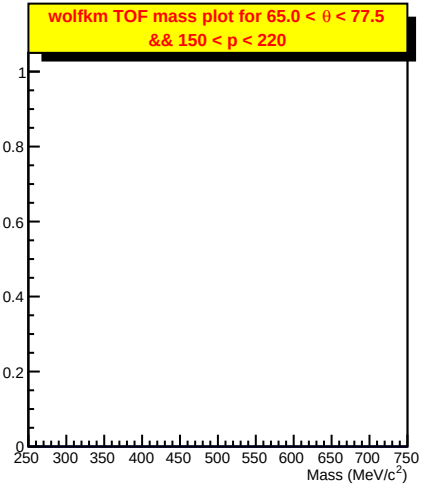

wolfkm_width2d_0
p (MeV/c)
900
800
700
600
500
400
300
200
20
30
40
50
60
70
80
90
θ (deg)
45
40
35
30
25
20
15
10
16.8
± 3.8
30.1
± 3.0
24.4
± 3.6
35.0
± 11.4
23.3
± 2.5
17.1
± 1.5
20.3
± 3.3
23.8
± 2.9

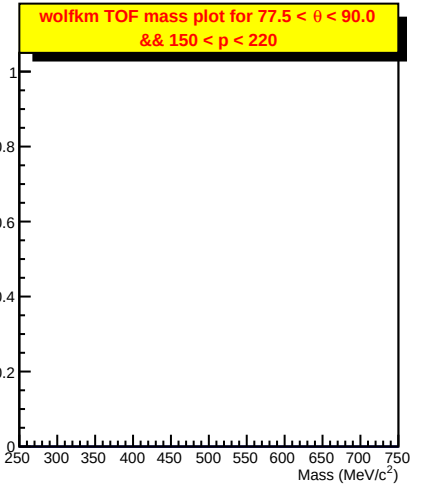

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

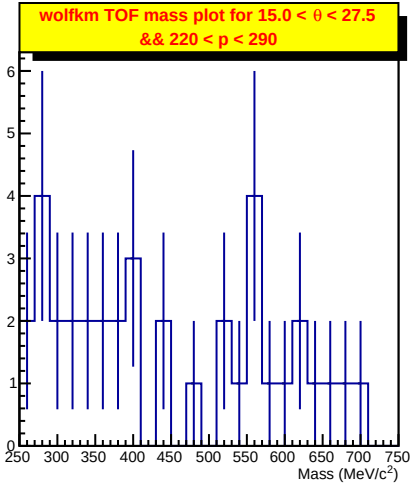

wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

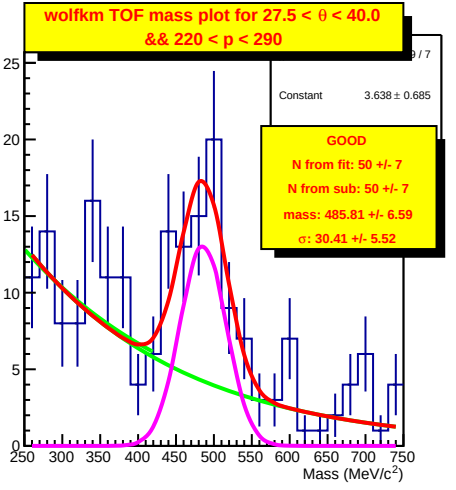

wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

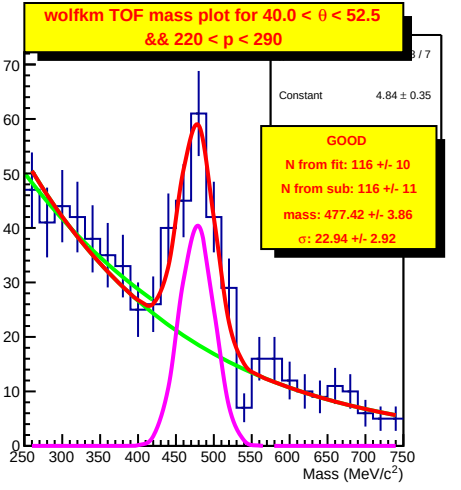

wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

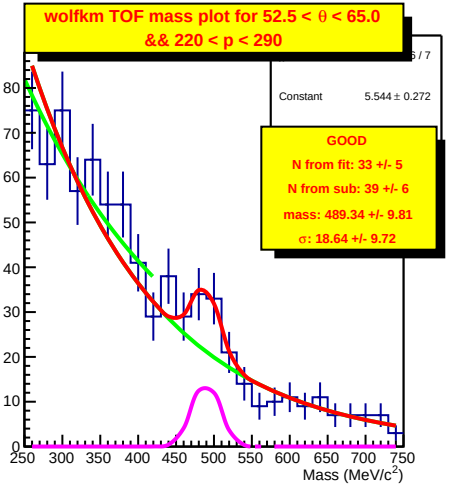

wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

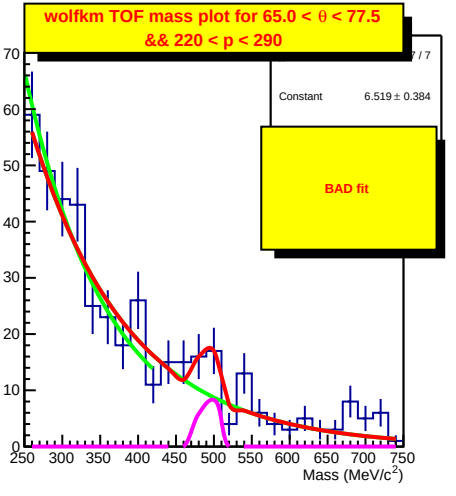

wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 150 < p < 220
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

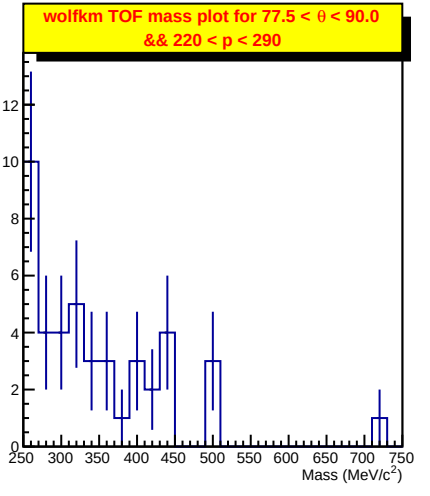

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 220 < p < 290
Mass (MeV/c²)

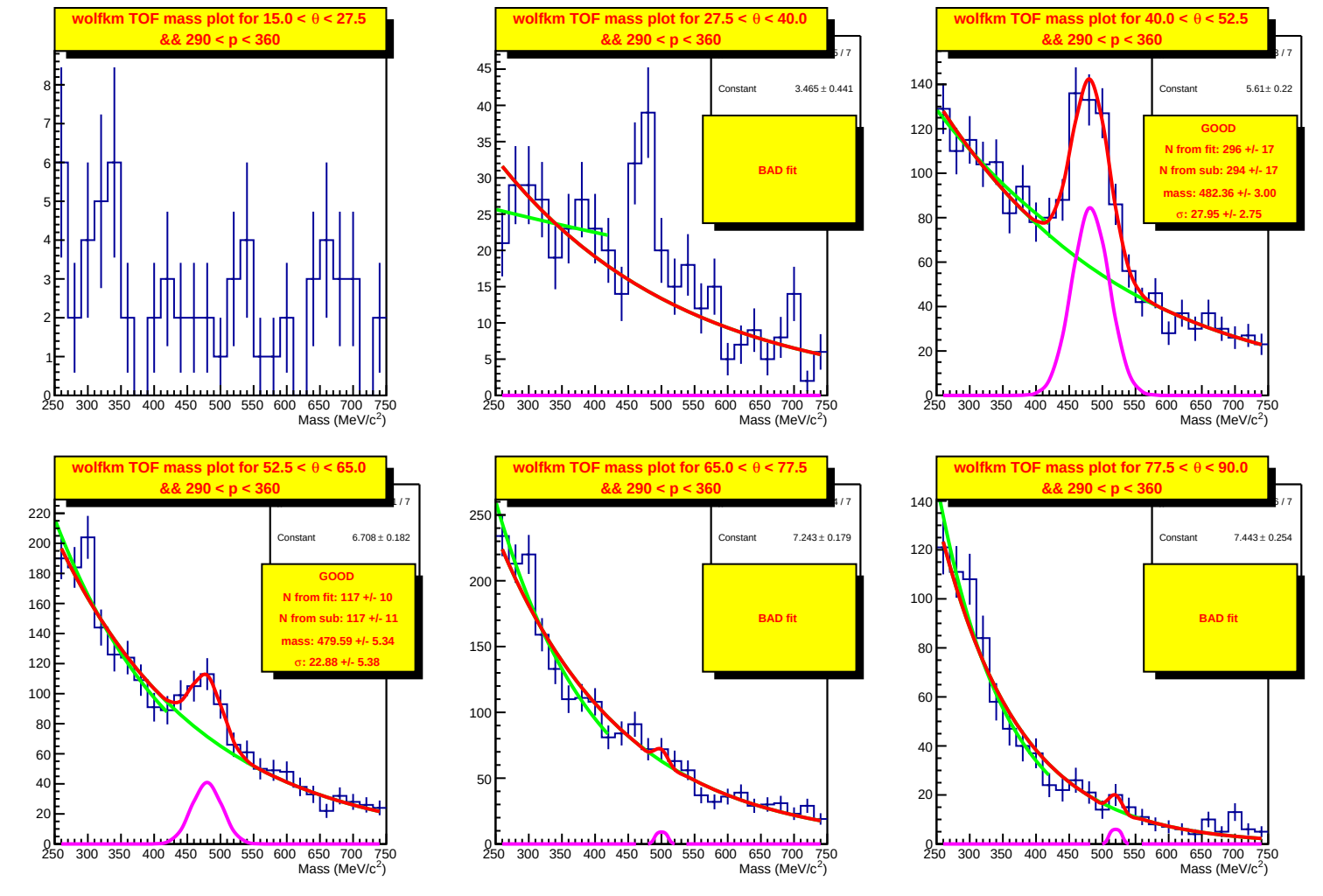

wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 220 < p < 290
Constant 3.638 ± 0.685
GOOD
N from fit: 50 +/- 7
N from sub: 50 +/- 7
mass: 485.81 +/- 6.59
σ: 30.41 +/- 5.52
Mass (MeV/c²)

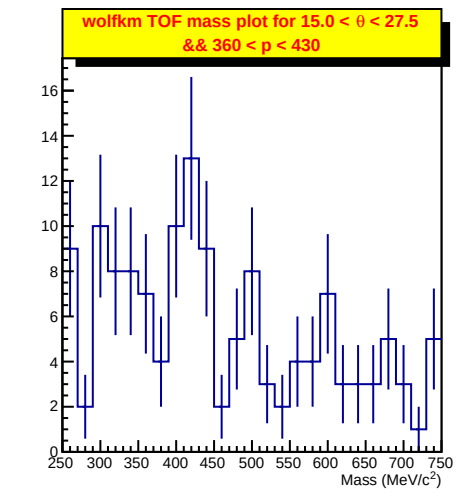

wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 220 < p < 290
Constant 4.84 ± 0.35
GOOD
N from fit: 116 +/- 10
N from sub: 116 +/- 11
mass: 477.42 +/- 3.86
σ: 22.94 +/- 2.92
Mass (MeV/c²)

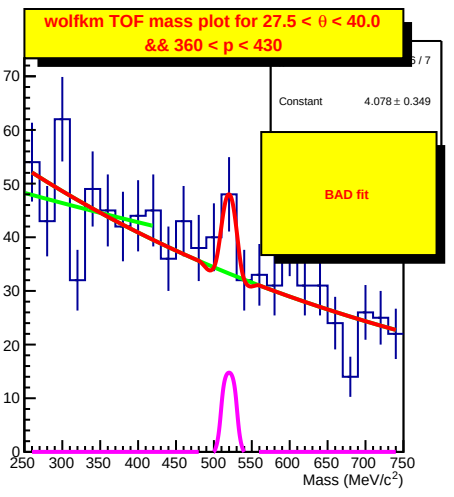

wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 220 < p < 290
Constant 5.544 ± 0.272
GOOD
N from fit: 33 +/- 5
N from sub: 39 +/- 6
mass: 489.34 +/- 9.81
σ: 18.64 +/- 9.72
Mass (MeV/c²)

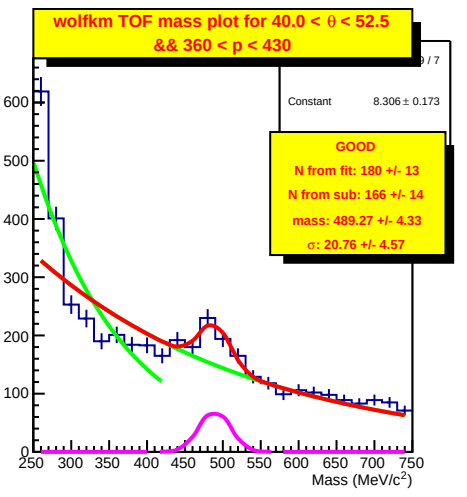

wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 220 < p < 290
Constant 6.519 ± 0.384
BAD fit
Mass (MeV/c²)

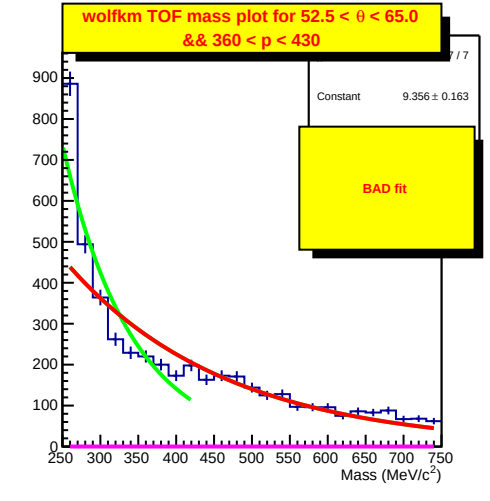

wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 220 < p < 290
Mass (MeV/c²)

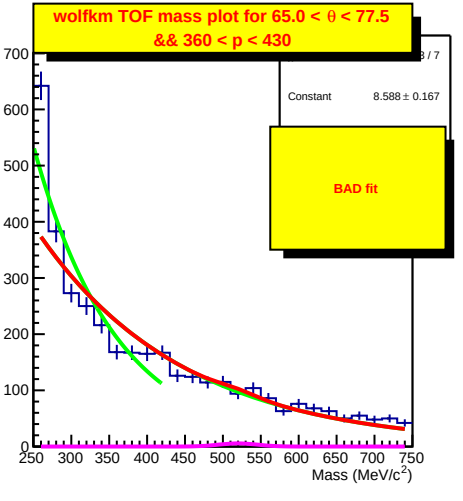

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 290 < p < 360
Mass (MeV/c²)
wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 290 < p < 360
Constant 3.465 ± 0.441
BAD fit
Mass (MeV/c²)
wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 290 < p < 360
Constant 5.61 ± 0.22
GOOD
N from fit: 296 +/- 17
N from sub: 294 +/- 17
mass: 482.36 +/- 3.00
σ: 27.95 +/- 2.75
Mass (MeV/c²)
wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 290 < p < 360
Constant 6.708 ± 0.182
GOOD
N from fit: 117 +/- 10
N from sub: 117 +/- 11
mass: 479.59 +/- 5.34
σ: 22.88 +/- 5.38
Mass (MeV/c²)
wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 290 < p < 360
Constant 7.243 ± 0.179
BAD fit
Mass (MeV/c²)
wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 290 < p < 360
Constant 7.443 ± 0.254
BAD fit
Mass (MeV/c²)

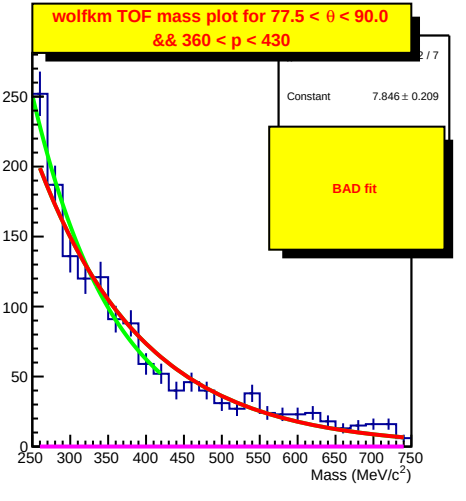

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 360 < p < 430
Mass (MeV/c²)

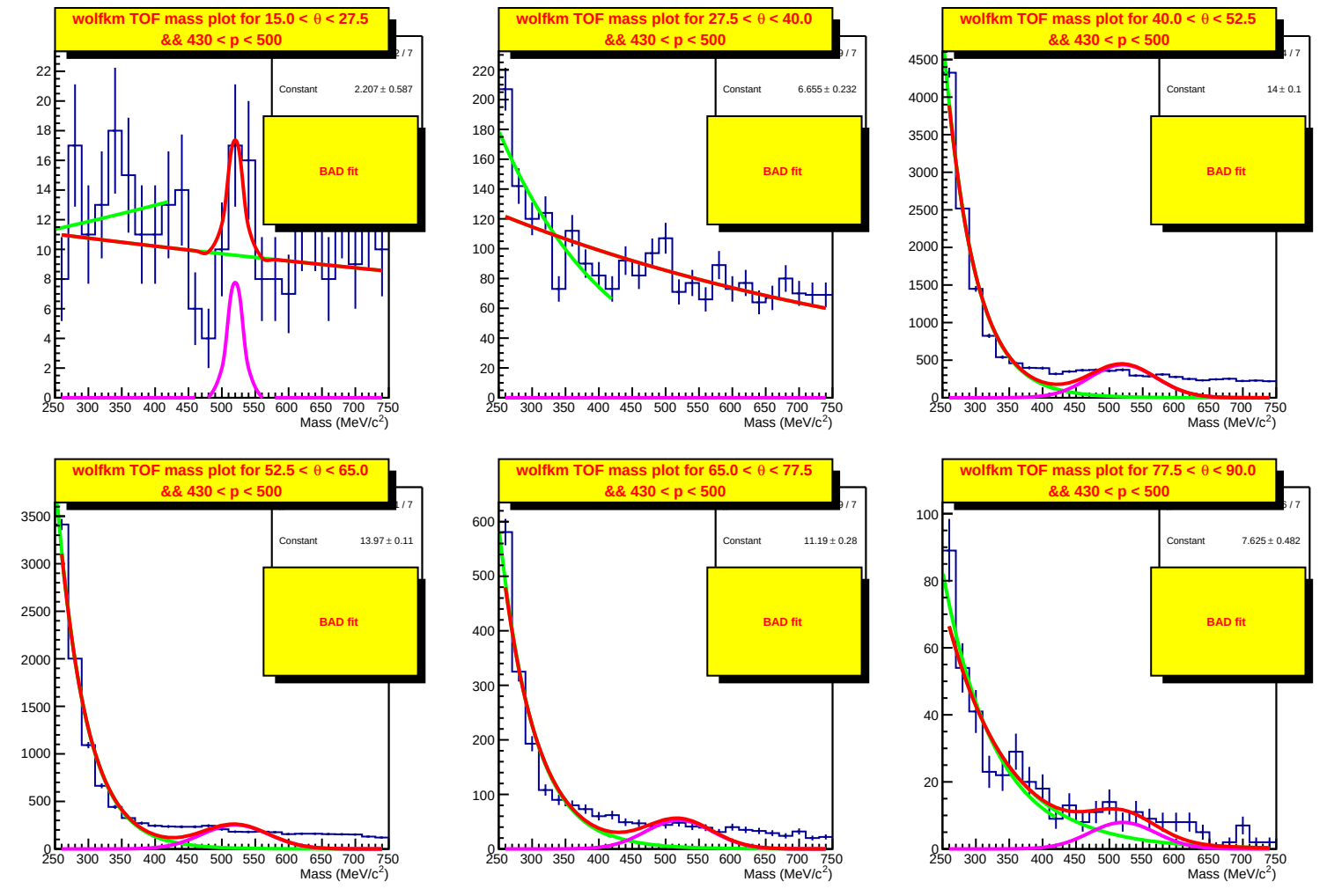

wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 360 < p < 430
Constant 4.078 ± 0.349
BAD fit
Mass (MeV/c²)

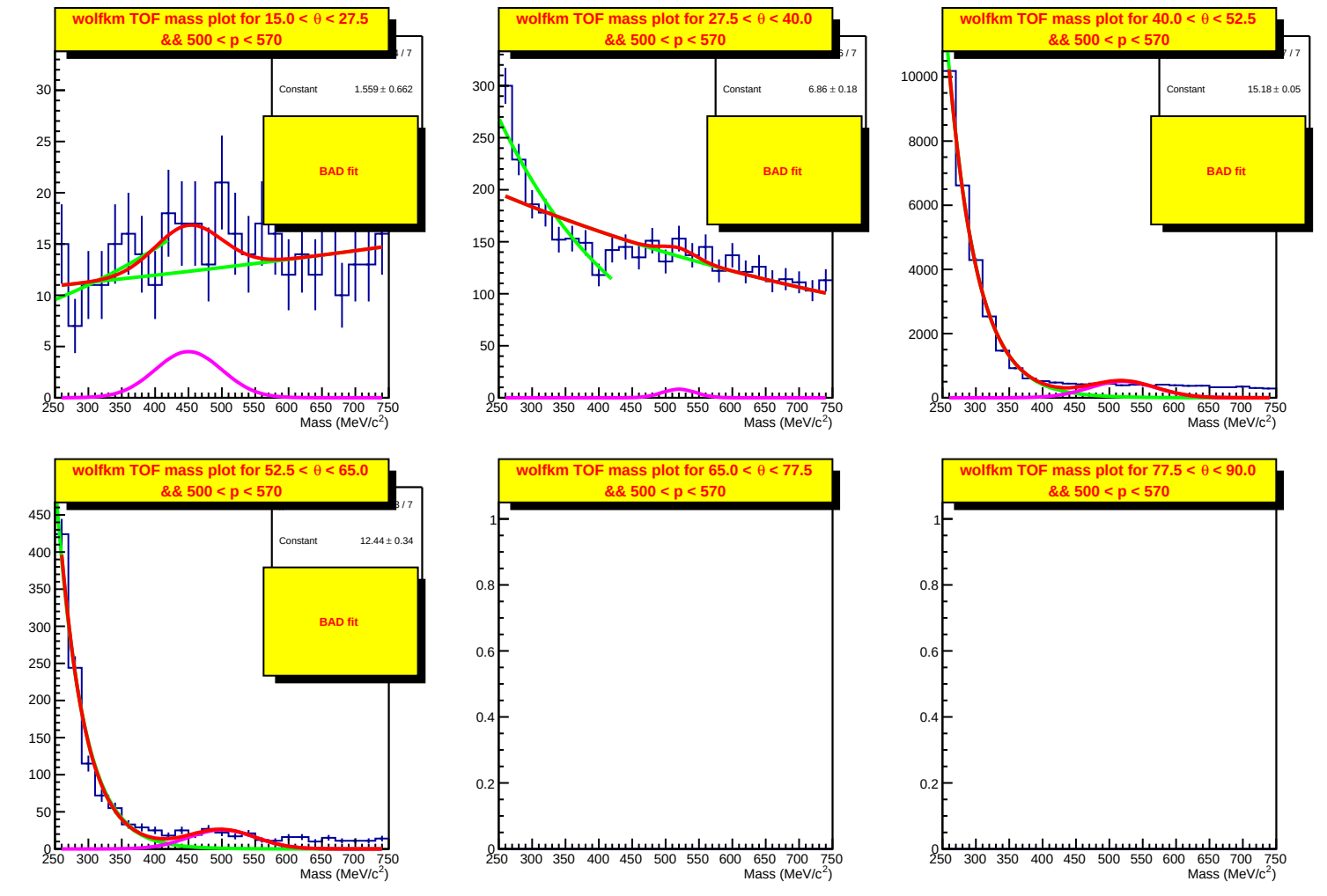

wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 360 < p < 430
Constant 8.306 ± 0.173
GOOD
N from fit: 180 +/- 13
N from sub: 166 +/- 14
mass: 489.27 +/- 4.33
σ: 20.76 +/- 4.57
Mass (MeV/c²)

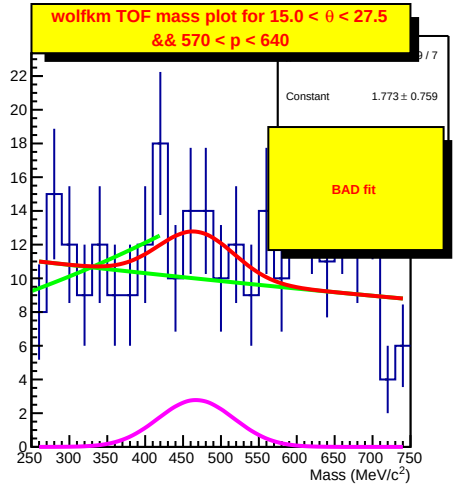

wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 360 < p < 430
Constant 9.356 ± 0.163
BAD fit
Mass (MeV/c²)

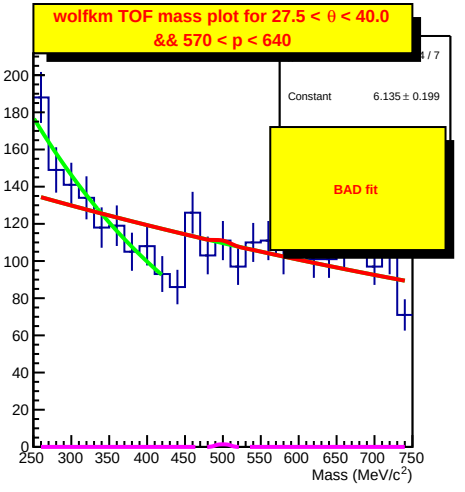

wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 360 < p < 430
Constant 8.588 ± 0.167
BAD fit
Mass (MeV/c²)

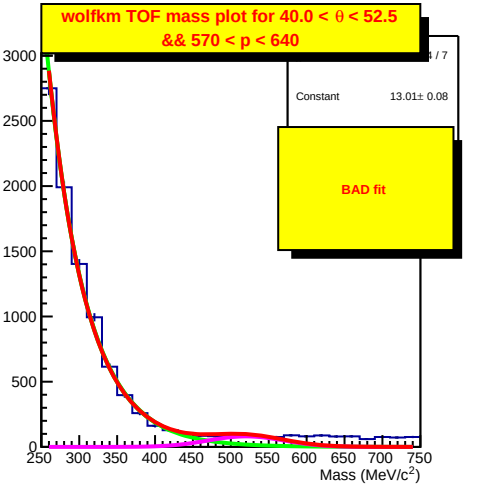

wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 360 < p < 430
Constant 7.846 ± 0.209
BAD fit
Mass (MeV/c²)

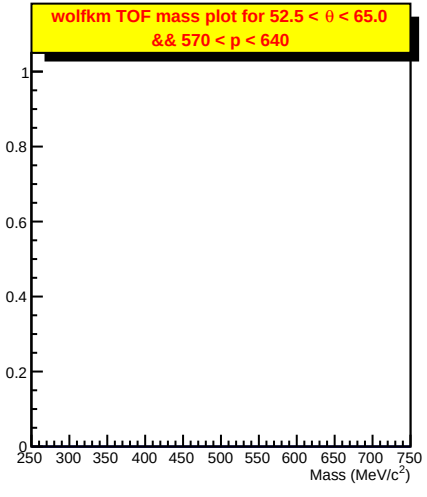

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 430 < p < 500
Constant 2.207 ± 0.587
BAD fit
Mass (MeV/c²)
wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 430 < p < 500
Constant 6.655 ± 0.232
BAD fit
Mass (MeV/c²)
wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 430 < p < 500
Constant 14 ± 0.1
BAD fit
Mass (MeV/c²)
wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 430 < p < 500
Constant 13.97 ± 0.11
BAD fit
Mass (MeV/c²)
wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 430 < p < 500
Constant 11.19 ± 0.28
BAD fit
Mass (MeV/c²)
wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 430 < p < 500
Constant 7.625 ± 0.482
BAD fit
Mass (MeV/c²)

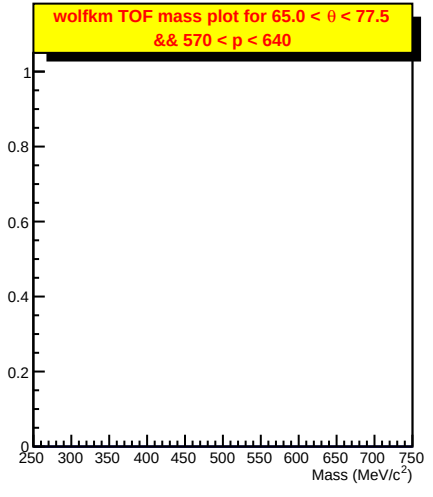

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 500 < p < 570
Constant 1.559 ± 0.662
BAD fit
wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 500 < p < 570
Constant 6.86 ± 0.18
BAD fit
wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 500 < p < 570
Constant 15.18 ± 0.05
BAD fit
wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 500 < p < 570
Constant 12.44 ± 0.34
BAD fit
wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 500 < p < 570
wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 500 < p < 570
Mass (MeV/c²)

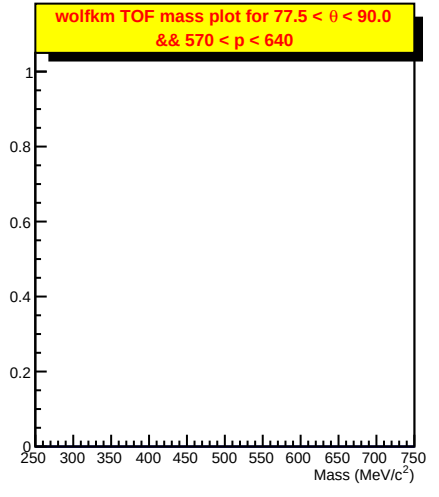

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 570 < p < 640
Constant 1.773 ± 0.759
BAD fit
Mass (MeV/c²)

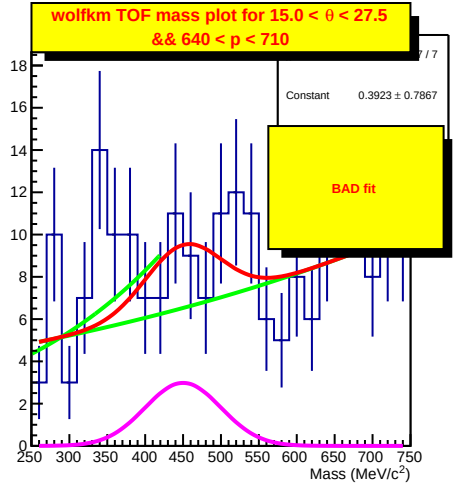

wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 570 < p < 640
Constant 6.135 ± 0.199
BAD fit
Mass (MeV/c²)

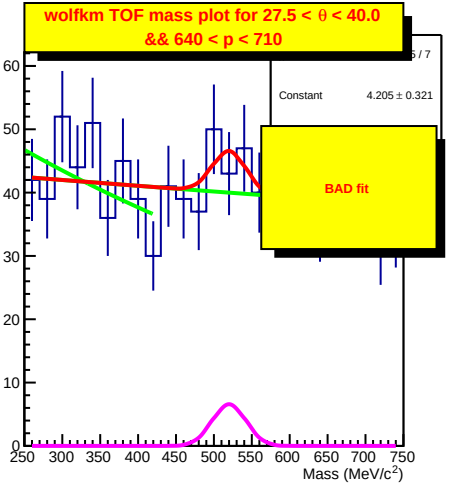

wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 570 < p < 640
Constant 13.01 ± 0.08
BAD fit
Mass (MeV/c²)

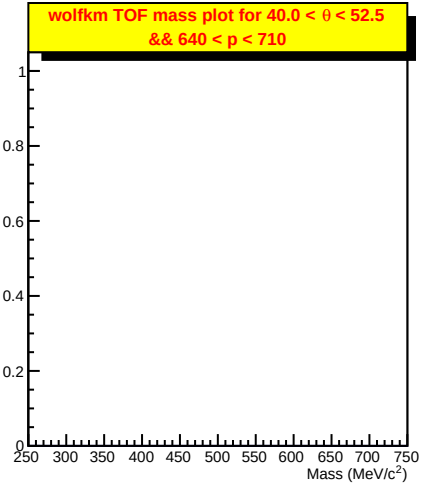

wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 570 < p < 640
Mass (MeV/c²)

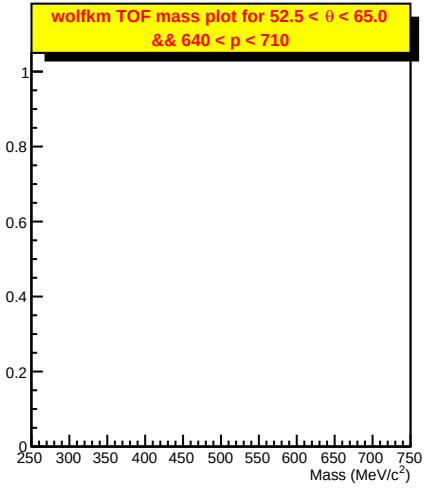

wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 570 < p < 640
Mass (MeV/c²)

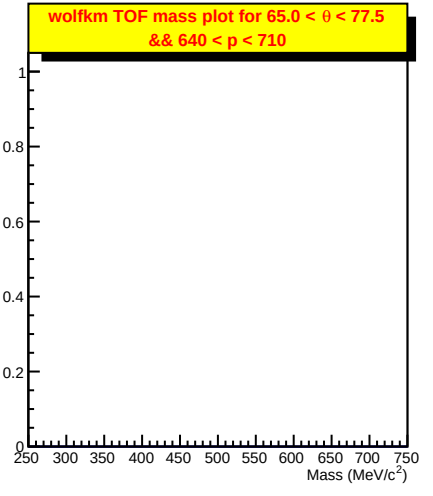

wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 570 < p < 640
Mass (MeV/c²)

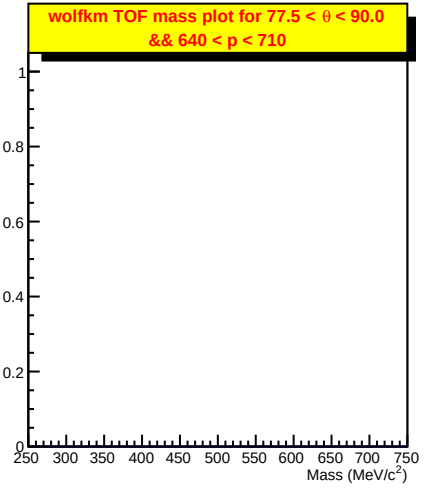

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 640 < p < 710
Constant 0.3923 ± 0.7867
BAD fit
Mass (MeV/c²)

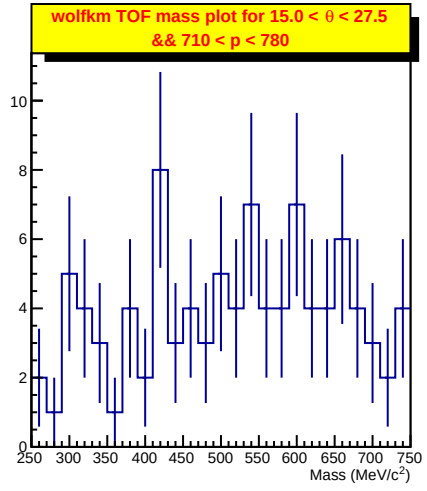

wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 640 < p < 710
Constant 4.205 ± 0.321
BAD fit
Mass (MeV/c²)

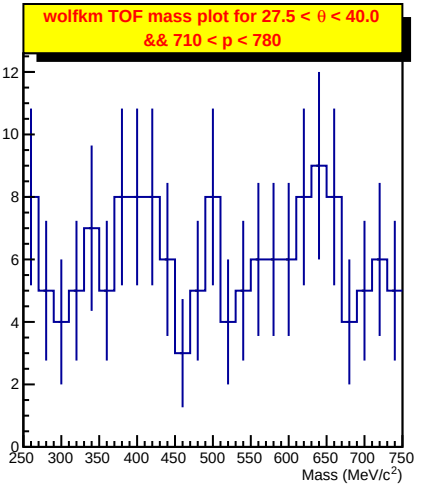

wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 640 < p < 710
Mass (MeV/c²)

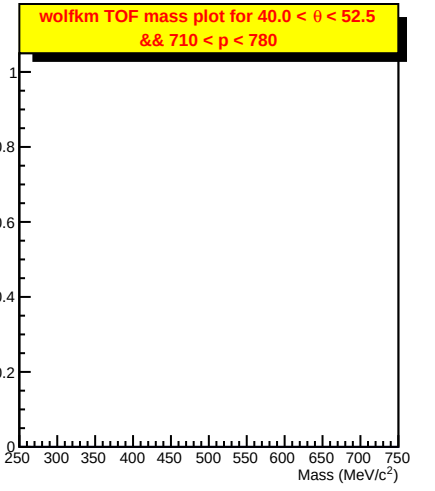

wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 640 < p < 710
Mass (MeV/c²)

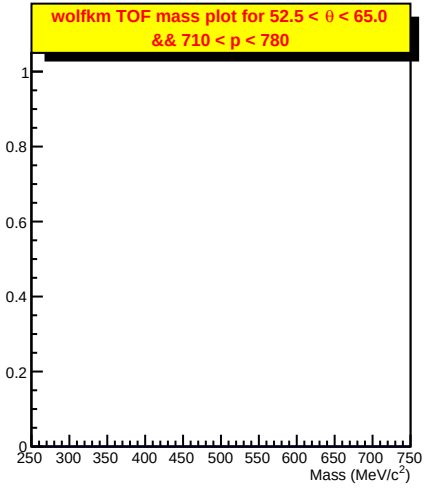

wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 640 < p < 710
Mass (MeV/c²)

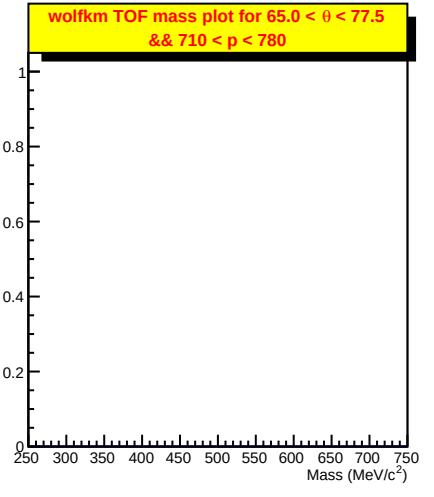

wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 640 < p < 710
Mass (MeV/c²)

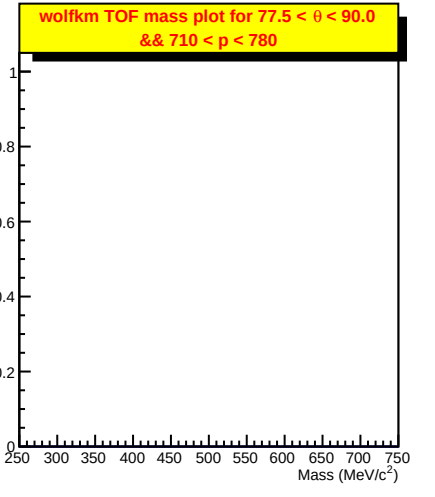

wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 710 < p < 780
Mass (MeV/c²)

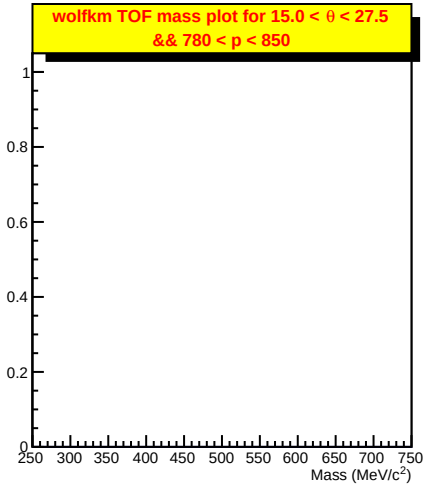

wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 710 < p < 780
Mass (MeV/c²)

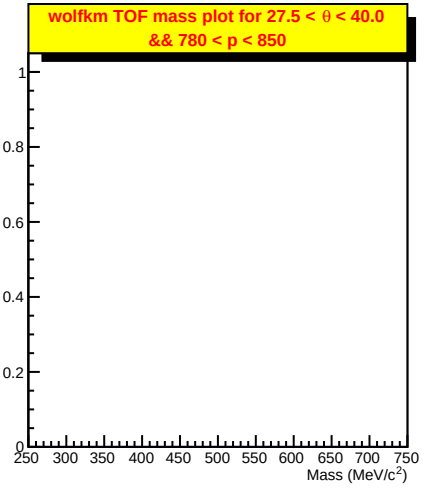

wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 710 < p < 780
Mass (MeV/c²)


wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 710 < p < 780
Mass (MeV/c²)


wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 710 < p < 780
Mass (MeV/c²)


wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 710 < p < 780
Mass (MeV/c²)


wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 780 < p < 850
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 780 < p < 850
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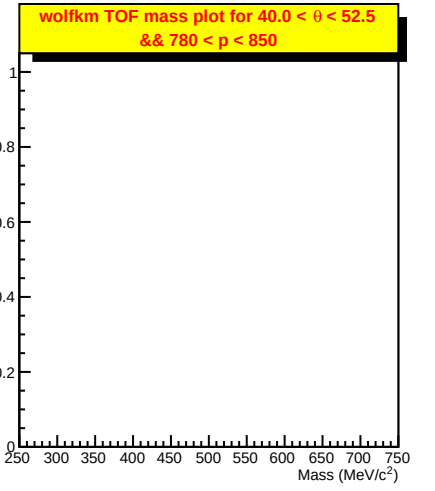
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 780 < p < 850
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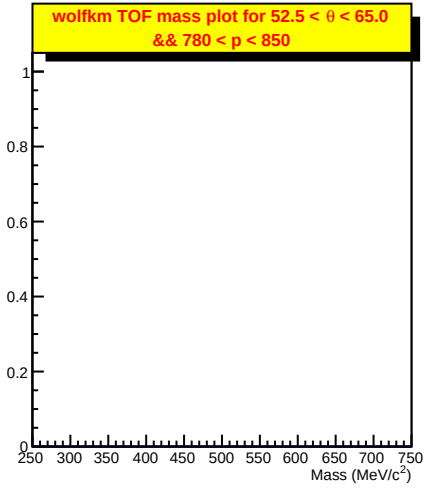
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 780 < p < 850
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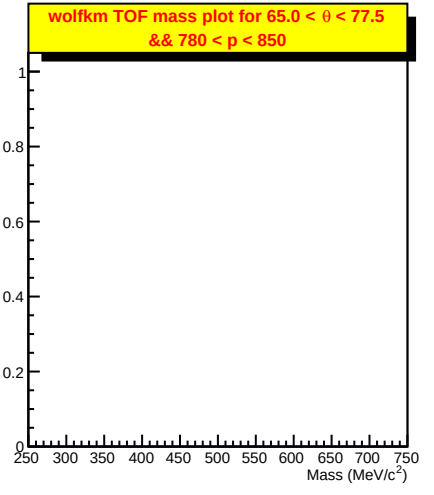
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 780 < p < 850
1
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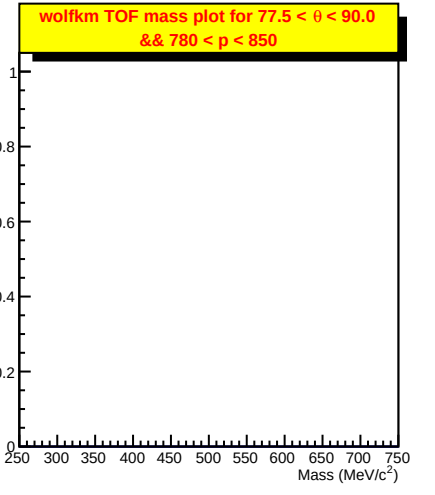
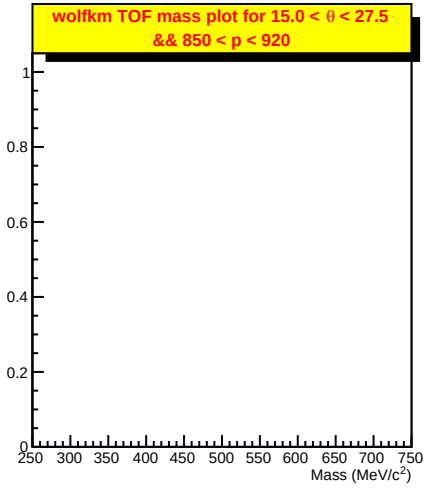
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 780 < p < 850
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 850 < p < 920
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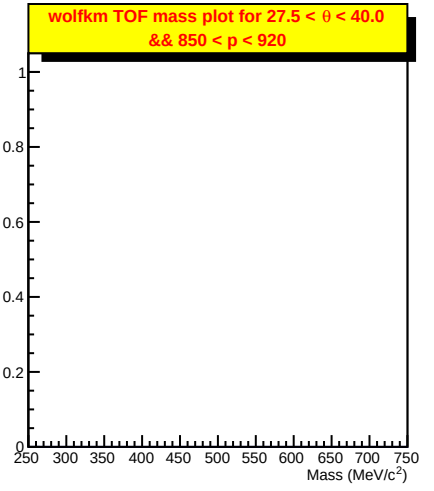
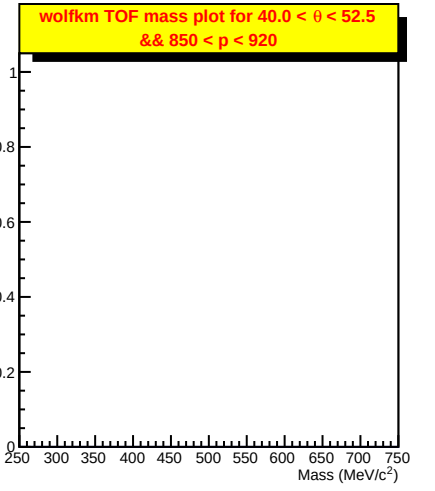
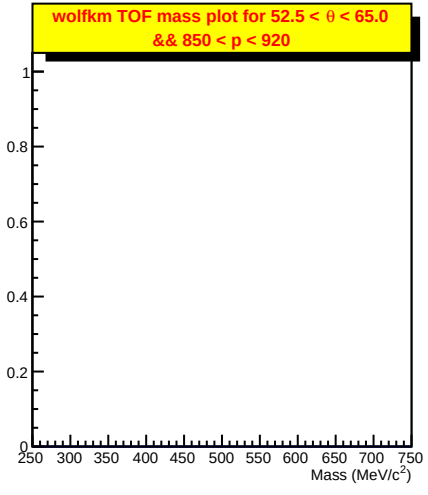
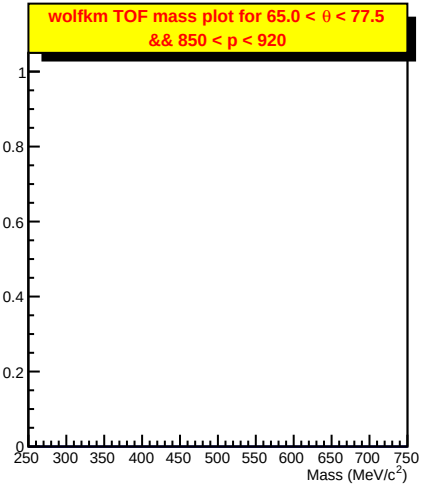
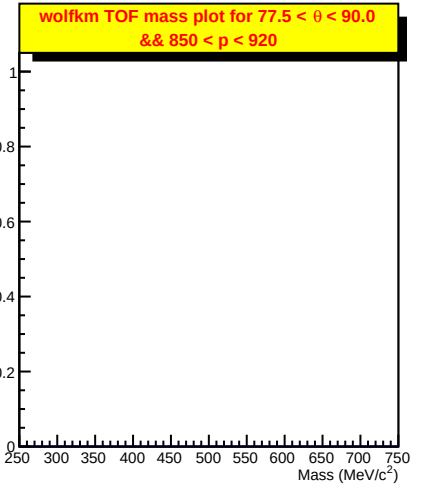
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

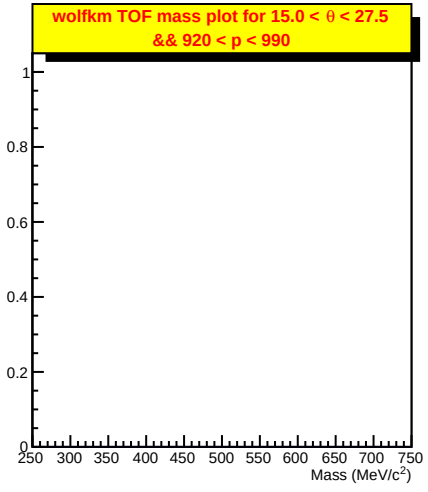

wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 850 < p < 920
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)


wolfkm TOF mass plot for 15.0 < θ < 27.5
&& 920 < p < 990
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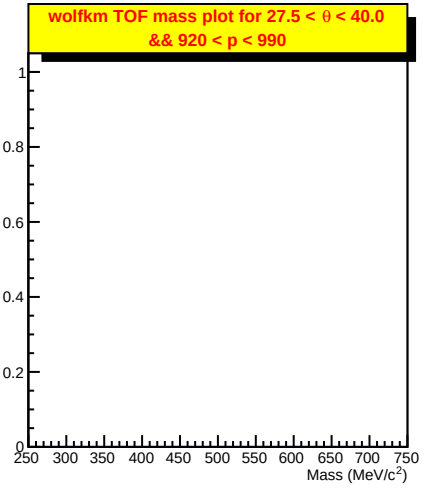
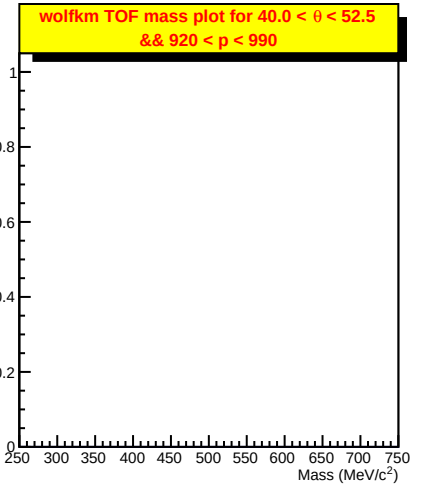
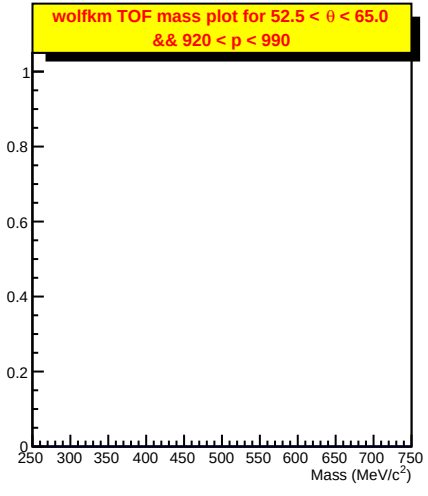
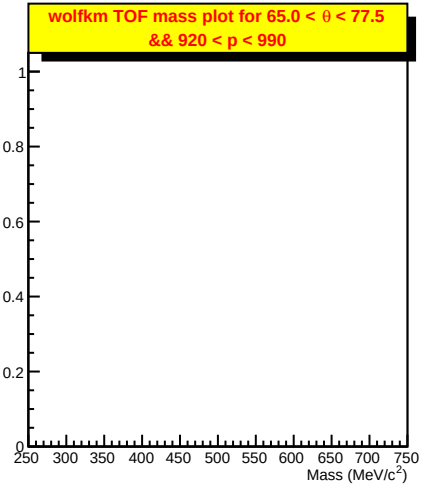
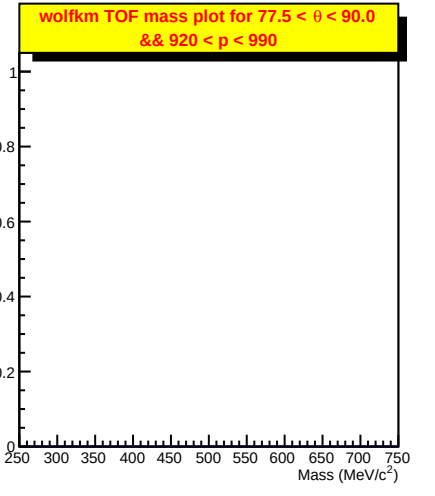
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

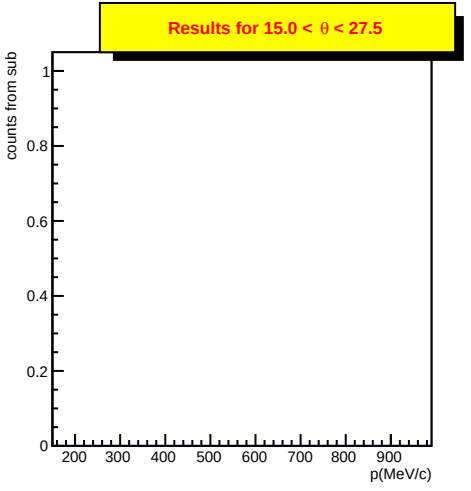

wolfkm TOF mass plot for 27.5 < θ < 40.0
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

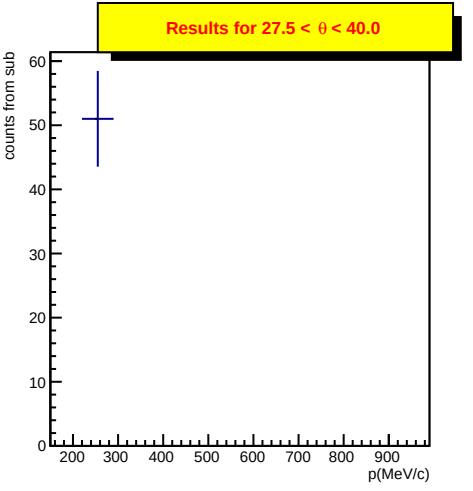

wolfkm TOF mass plot for 40.0 < θ < 52.5
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

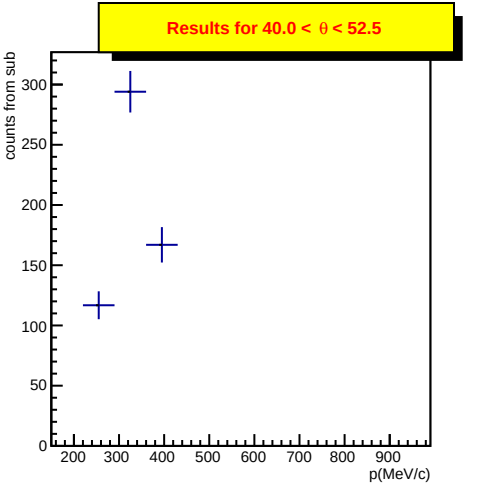

wolfkm TOF mass plot for 52.5 < θ < 65.0
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

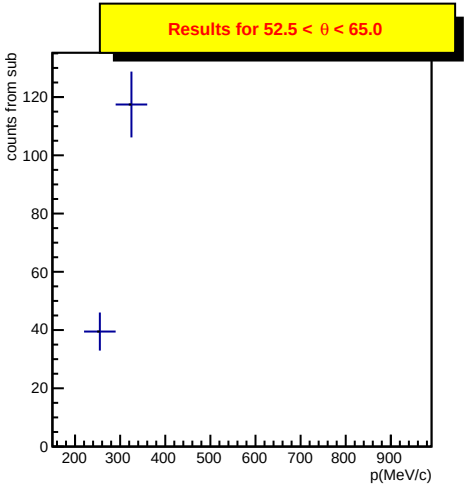

wolfkm TOF mass plot for 65.0 < θ < 77.5
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

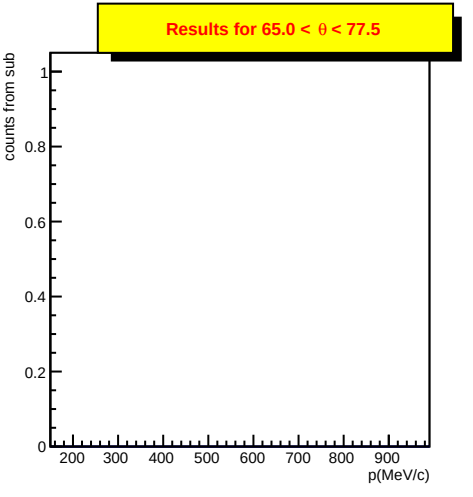

wolfkm TOF mass plot for 77.5 < θ < 90.0
&& 920 < p < 990
1
0.8
0.6
0.4
0.2
0
250 300 350 400 450 500 550 600 650 700 750
Mass (MeV/c²)

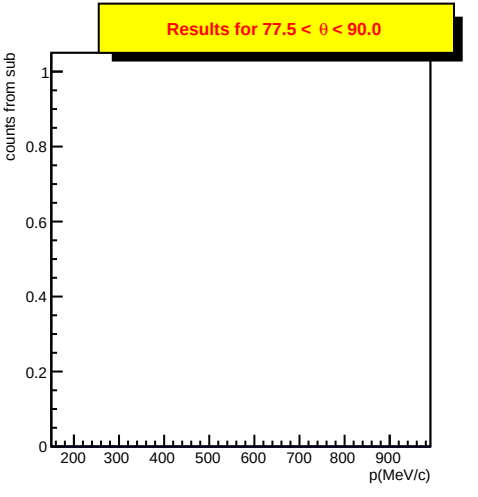

Results for 15.0 < θ < 27.5
counts from sub
p(MeV/c)

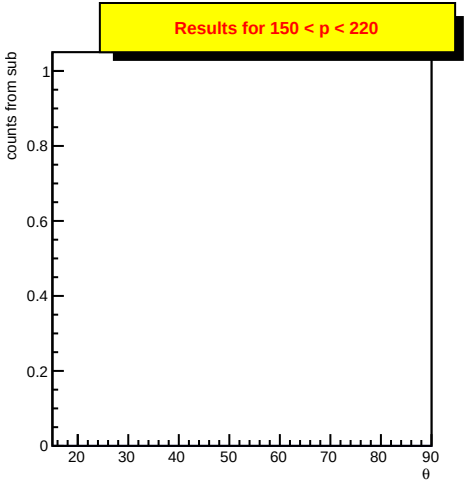

Results for 27.5 < θ < 40.0
counts from sub
p(MeV/c)

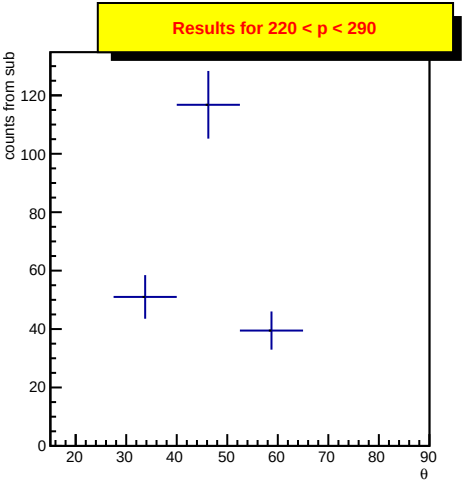

Results for 40.0 < θ < 52.5
counts from sub
p(MeV/c)

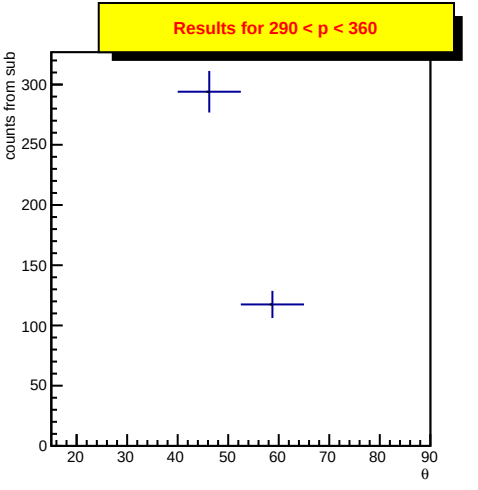

Results for 52.5 < θ < 65.0
counts from sub
p(MeV/c)

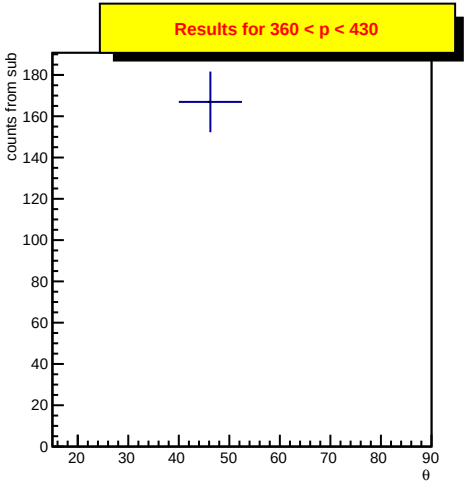

Results for 65.0 < θ < 77.5
counts from sub
p(MeV/c)

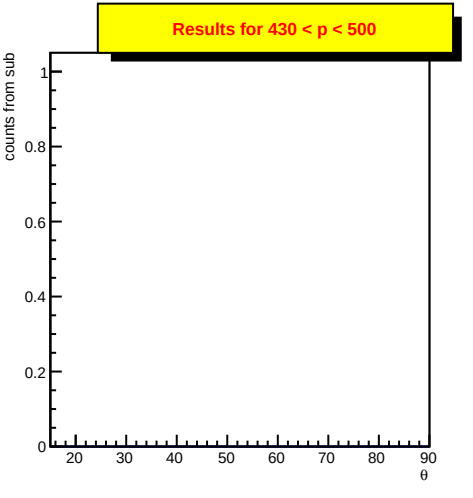

Results for 77.5 < θ < 90.0
counts from sub
p(MeV/c)

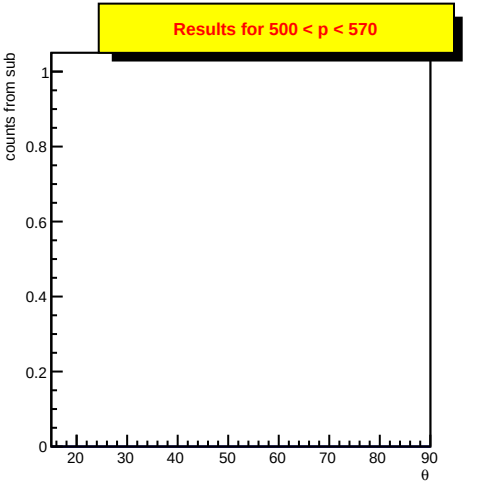

Results for 150 < p < 220
counts from sub
θ

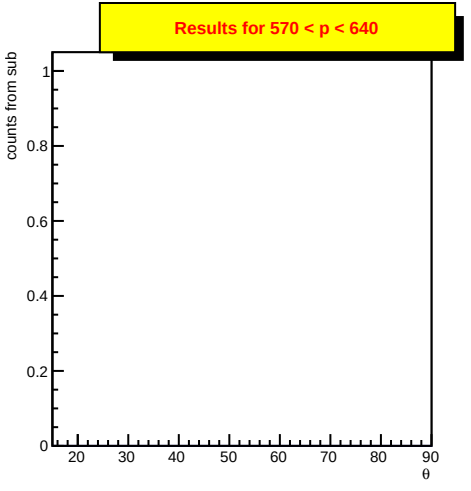

Results for 220 < p < 290
counts from sub
θ

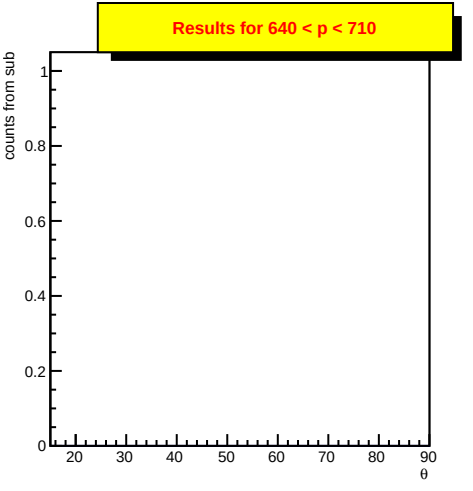

Results for 290 < p < 360
counts from sub
θ

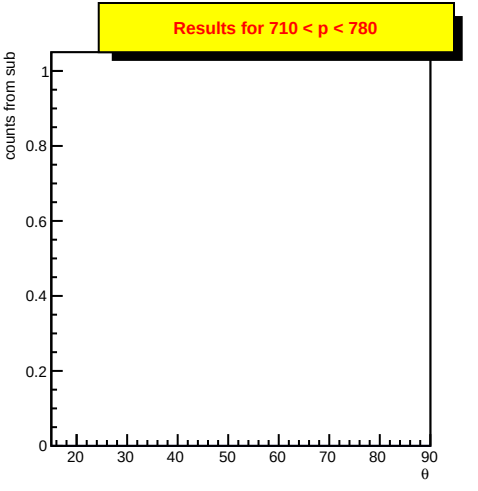

Results for 360 < p < 430
counts from sub
θ

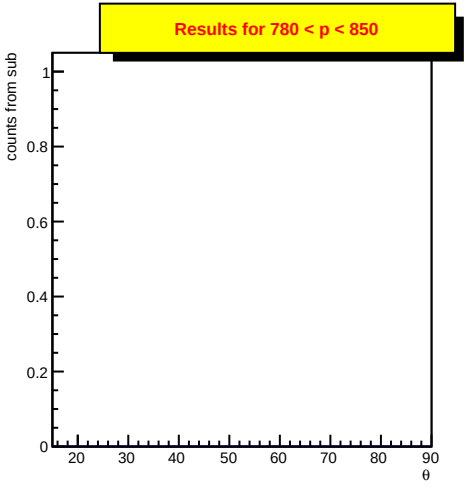

Results for 430 < p < 500
counts from sub
θ

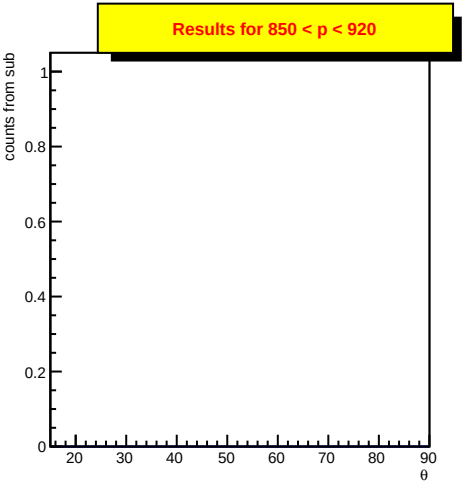

Results for 500 < p < 570
counts from sub
θ

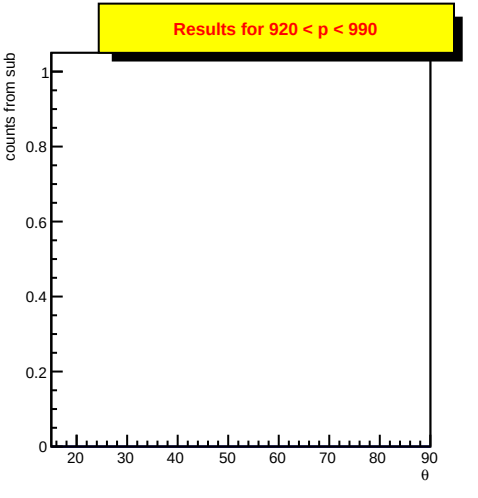

Results for 570 < p < 640
counts from sub
θ

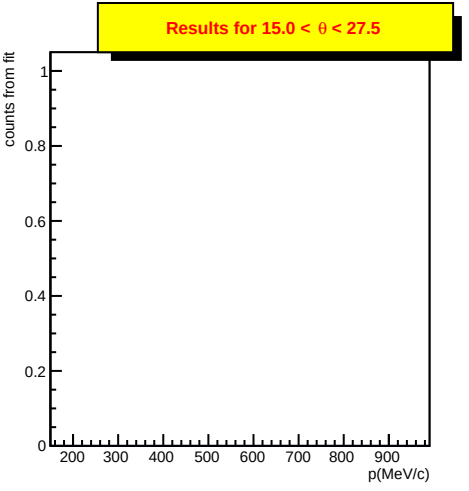

Results for 640 < p < 710
counts from sub
θ

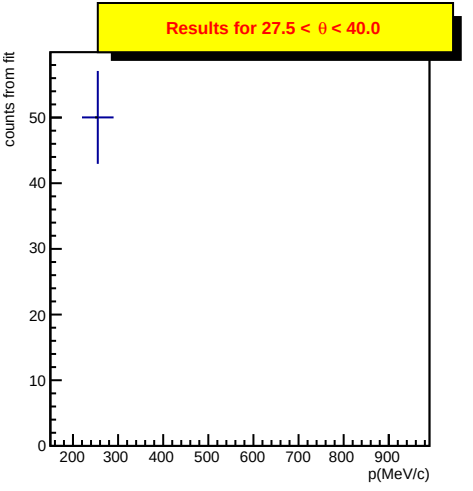

Results for 710 < p < 780
counts from sub
θ

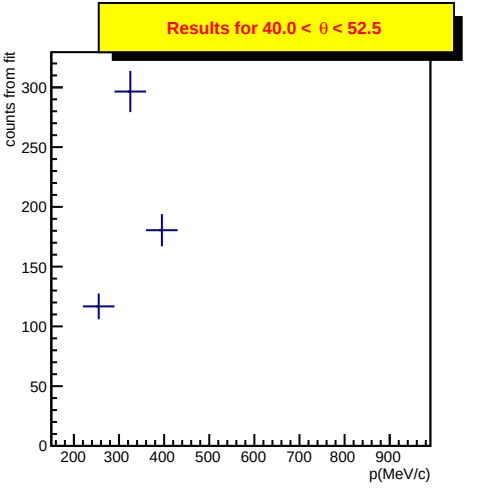

Results for 780 < p < 850
counts from sub
θ

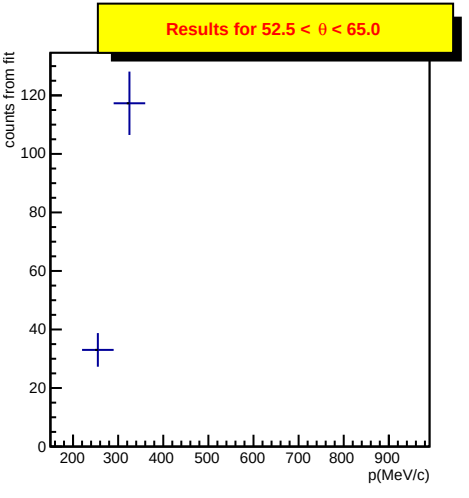

Results for 850 < p < 920
counts from sub
θ

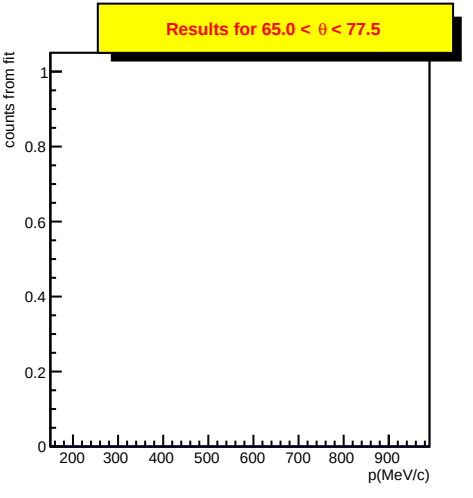

Results for 920 < p < 990
counts from sub
θ

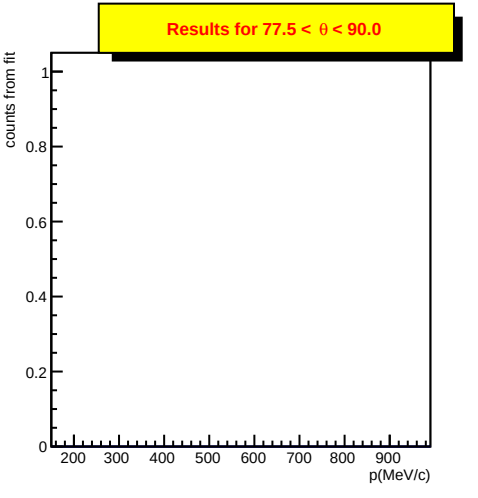

Results for 15.0 < θ < 27.5
counts from fit
p(MeV/c)

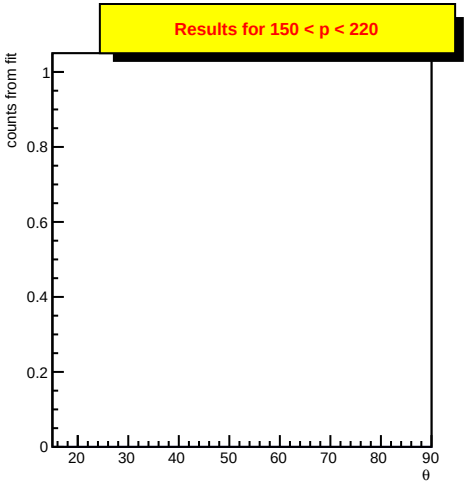

Results for 27.5 < θ < 40.0
counts from fit
p(MeV/c)

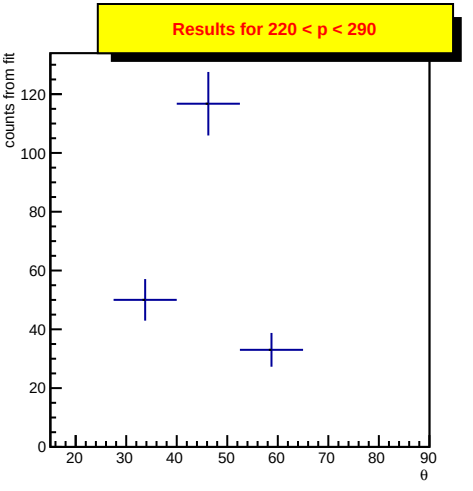

Results for 40.0 < θ < 52.5
counts from fit
p(MeV/c)

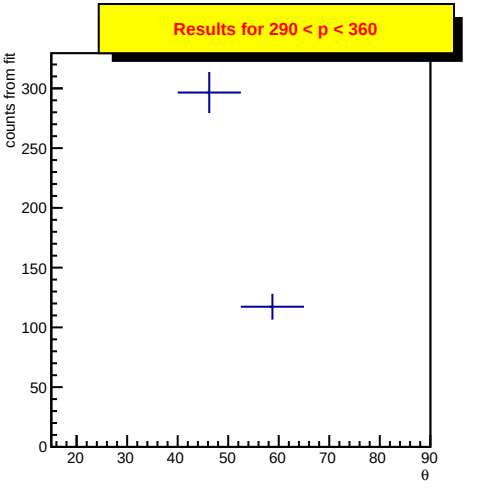

Results for 52.5 < θ < 65.0
counts from fit
p(MeV/c)

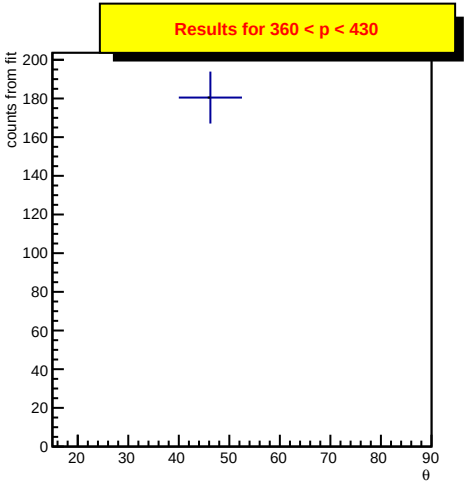

Results for 65.0 < θ < 77.5
counts from fit
p(MeV/c)

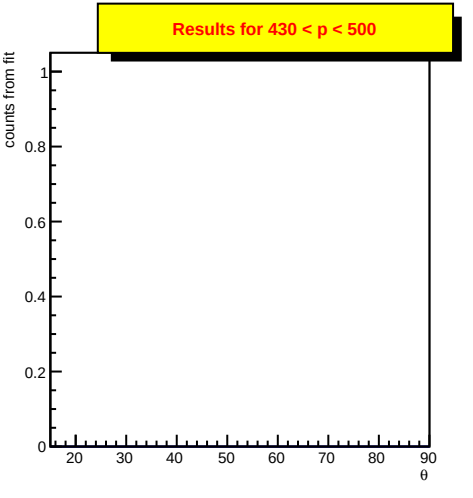

Results for 77.5 < θ < 90.0
counts from fit
p(MeV/c)

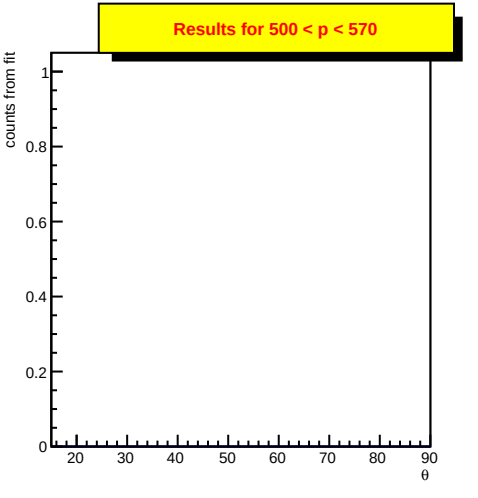

Results for 150 < p < 220
counts from fit
θ

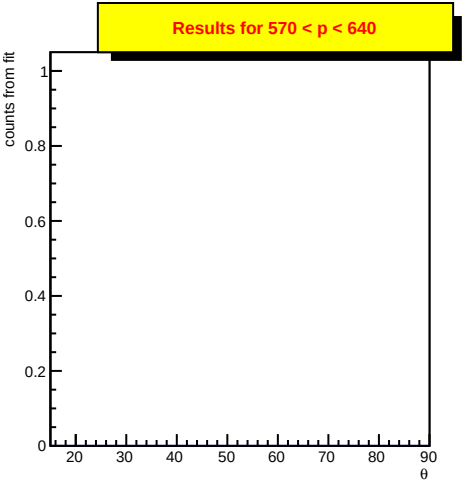

Results for 220 < p < 290
counts from fit
θ

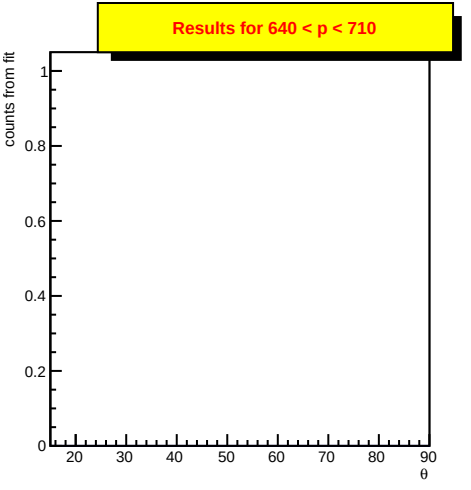

Results for 290 < p < 360
counts from fit
θ

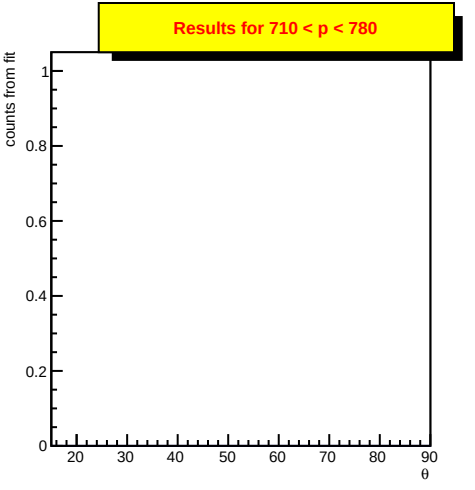

Results for 360 < p < 430
counts from fit
θ

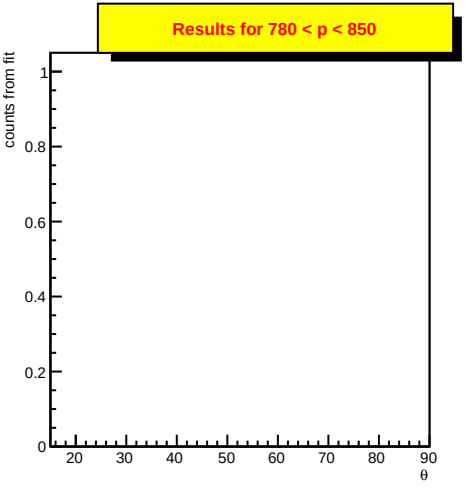

Results for 430 < p < 500
counts from fit
θ

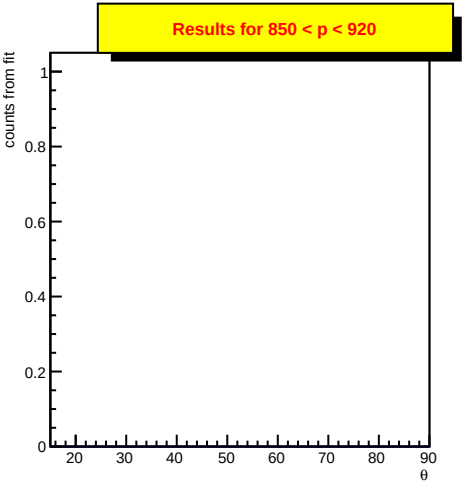

Results for 500 < p < 570
counts from fit
θ

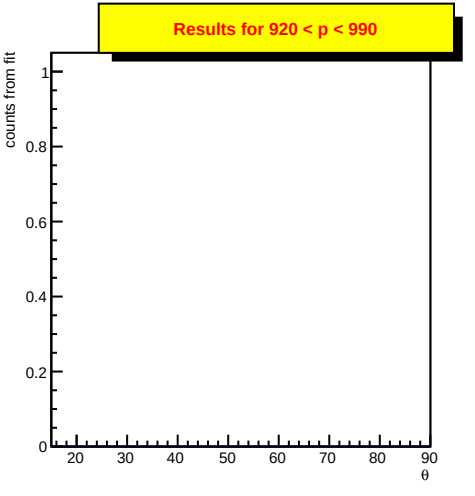

Results for 570 < p < 640
counts from fit
θ


Results for 640 < p < 710
counts from fit
θ

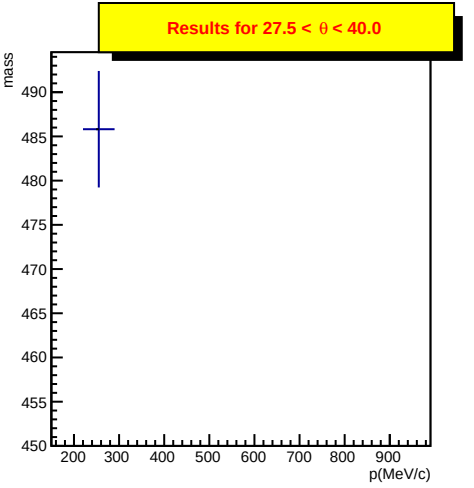

Results for 710 < p < 780
counts from fit
θ

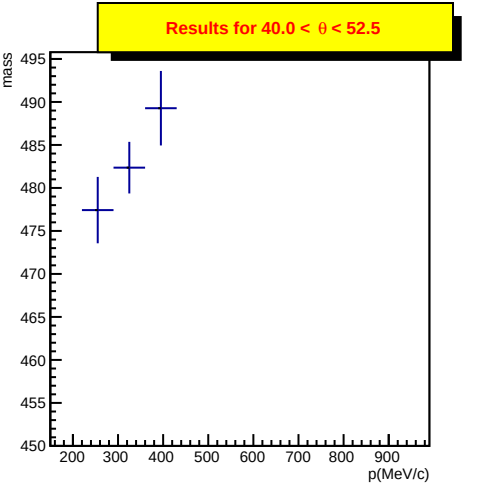

Results for 780 < p < 850
counts from fit
θ

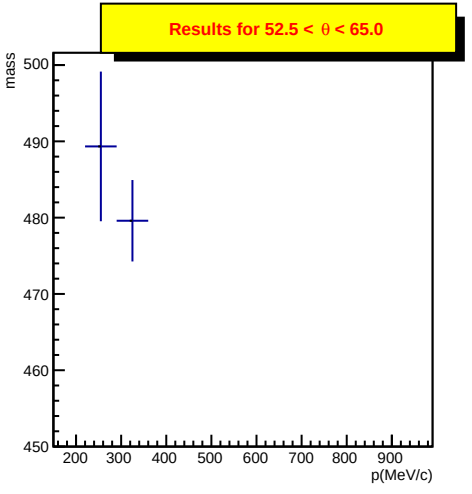

Results for 850 < p < 920
counts from fit
θ

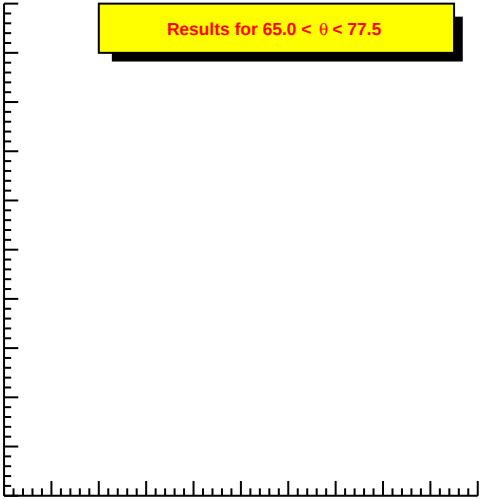

Results for 920 < p < 990
counts from fit
θ

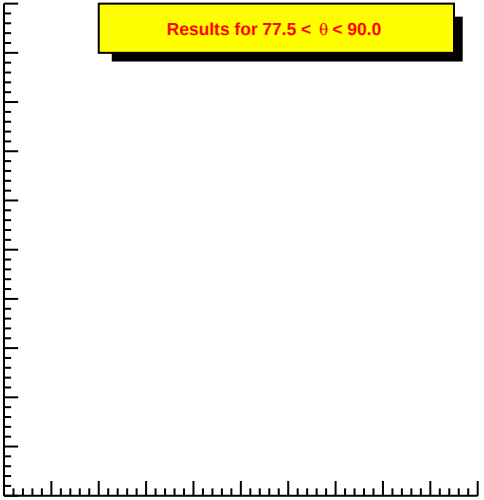

Results for 15.0 < θ < 27.5


Results for 27.5 < θ < 40.0
mass
490
485
480
475
470
465
460
455
450
200
300
400
500
600
700
800
900
p(MeV/c)

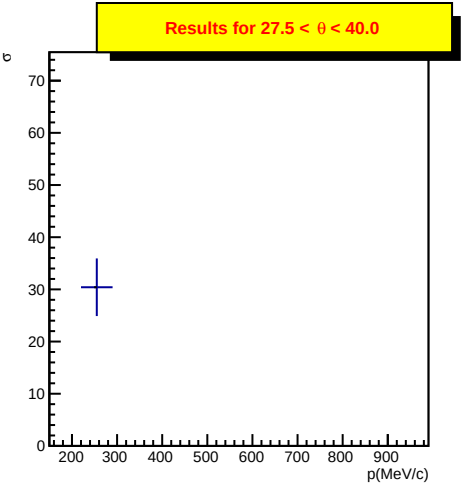

Results for 40.0 < θ < 52.5
mass
495
490
485
480
475
470
465
460
455
450
200
300
400
500
600
700
800
900
p(MeV/c)

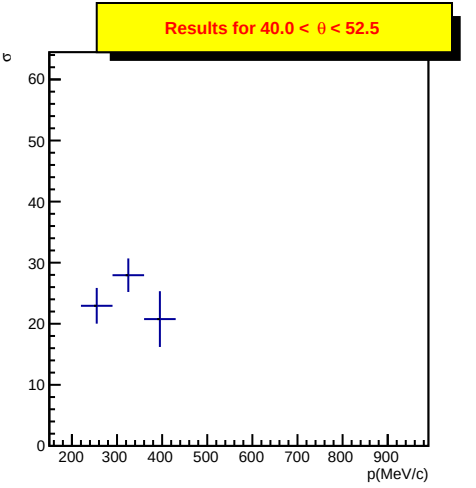

Results for 52.5 < θ < 65.0
mass
500
490
480
470
460
450
200
300
400
500
600
700
800
900
p(MeV/c)

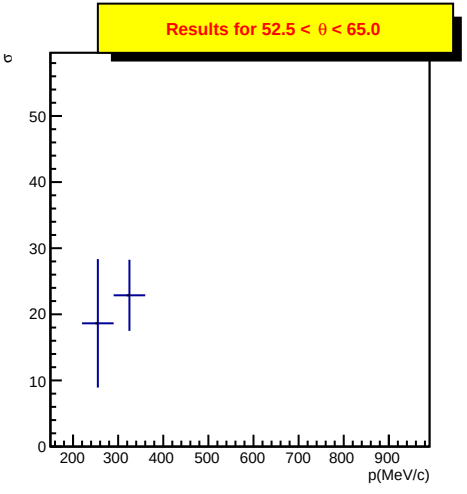

Results for 65.0 < θ < 77.5

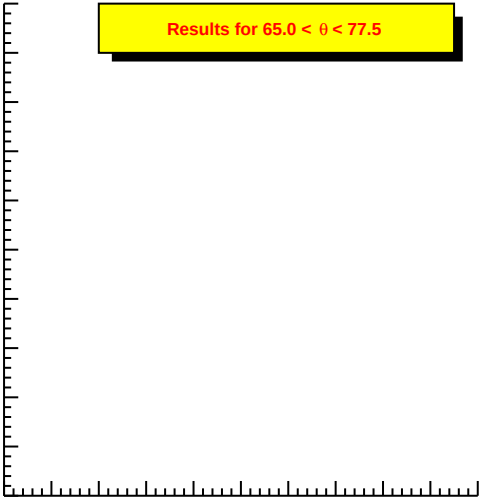

Results for 77.5 < θ < 90.0

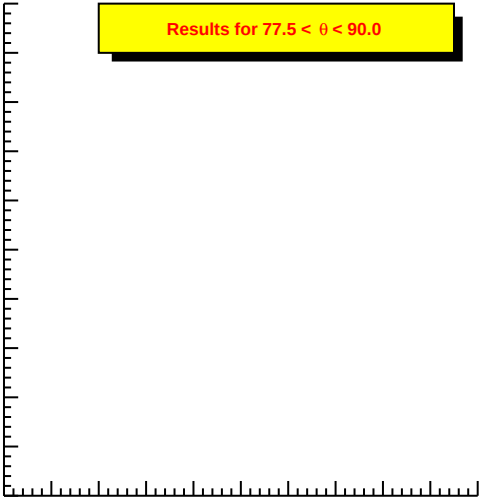

Results for 15.0 < θ < 27.5

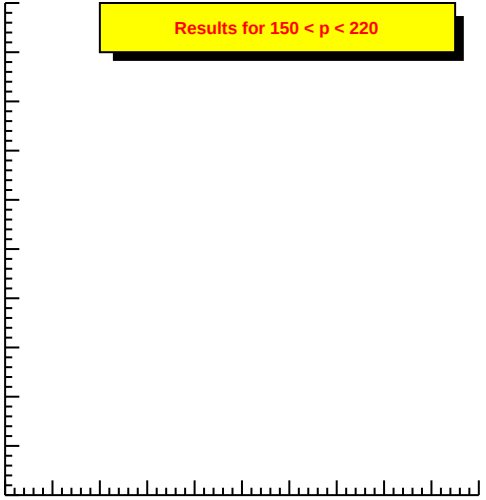

Results for 27.5 < θ < 40.0
σ
70
60
50
40
30
20
10
0
200
300
400
500
600
700
800
900
p(MeV/c)

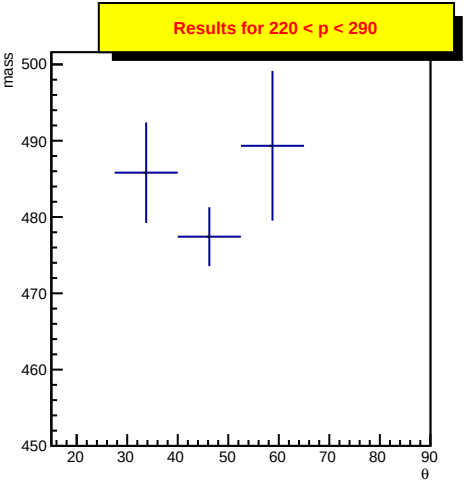

Results for 40.0 < θ < 52.5
σ
60
50
40
30
20
10
0
200
300
400
500
600
700
800
900
p(MeV/c)

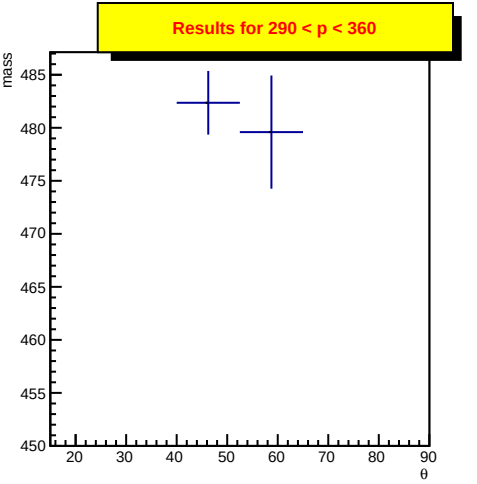

Results for 52.5 < θ < 65.0
σ
50
40
30
20
10
0
200
300
400
500
600
700
800
900
p(MeV/c)

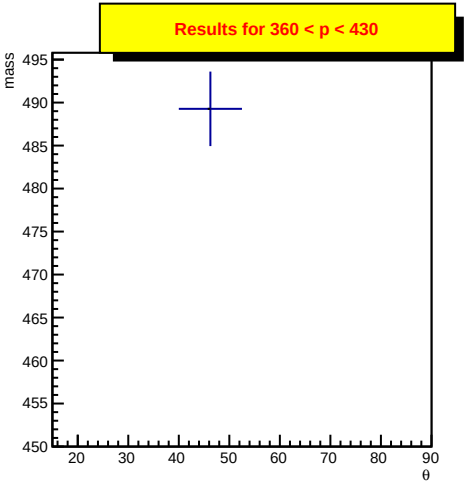

Results for 65.0 < θ < 77.5

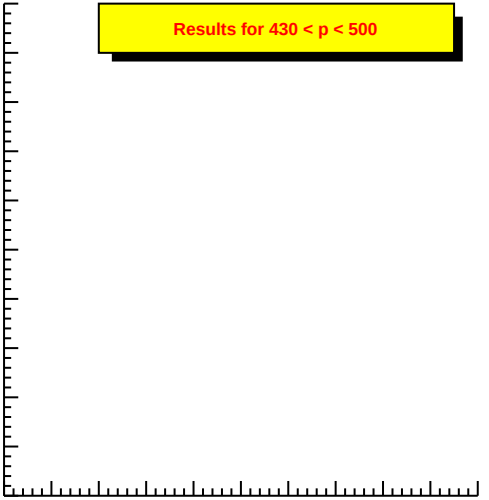

Results for 77.5 < θ < 90.0

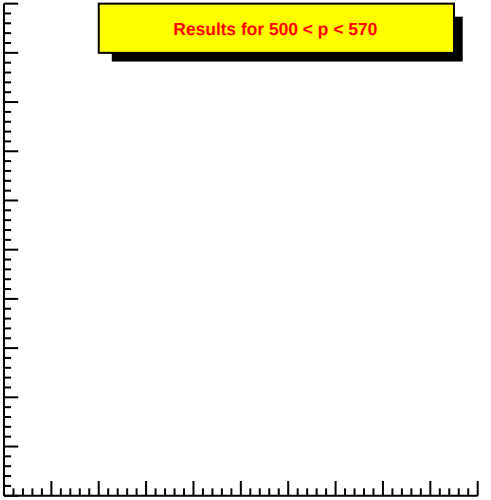

Results for 150 < p < 220


Results for 220 < p < 290
mass
θ

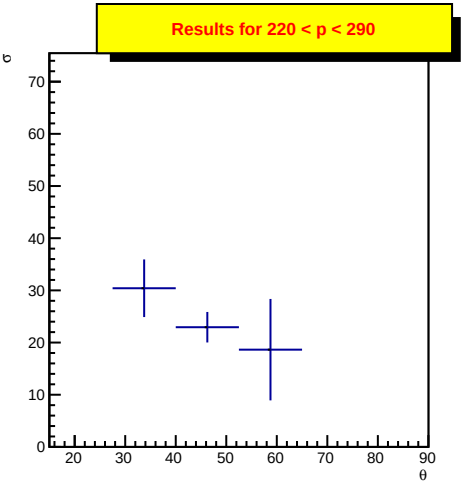

Results for 290 < p < 360
mass
θ

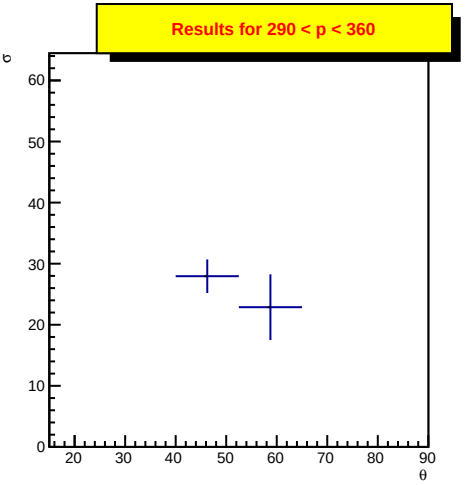

Results for 360 < p < 430
mass
θ

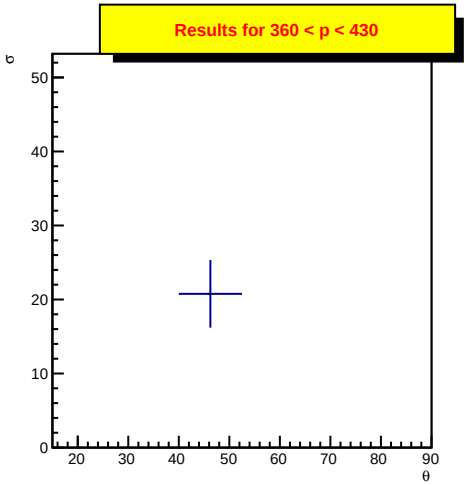

Results for 430 < p < 500


Results for 500 < p < 570

Results for 150 < p < 220





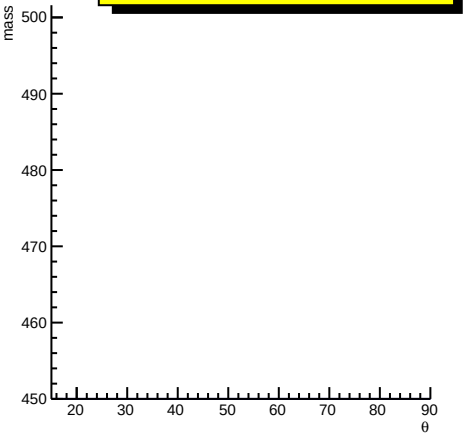


Results for 430 < p < 500

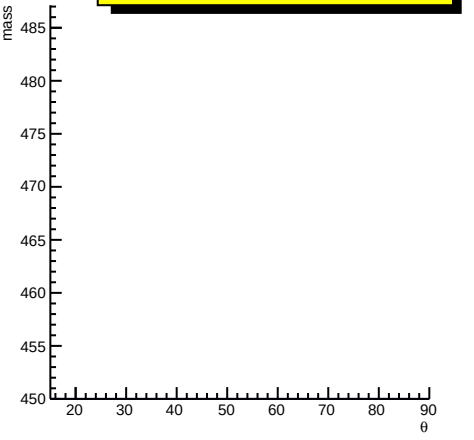
Results for 500 < p < 570

Results for 570 < p < 640

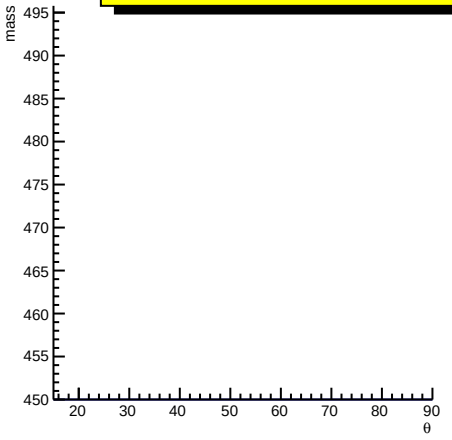
Results for 640 < p < 710



Results for 710 < p < 780

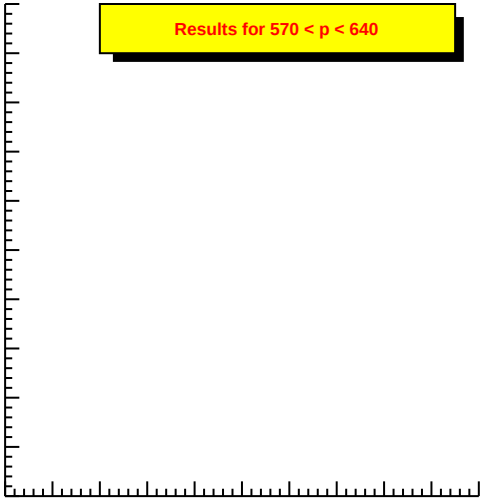


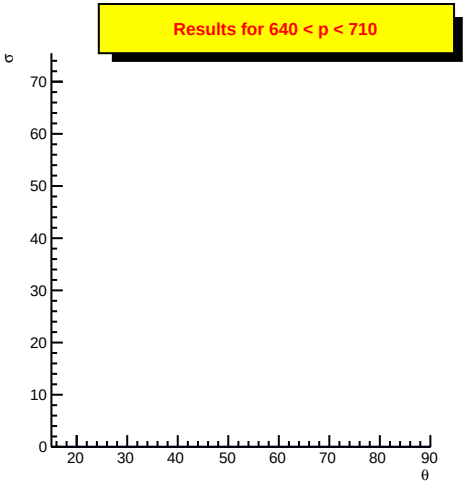
Results for 780 < p < 850

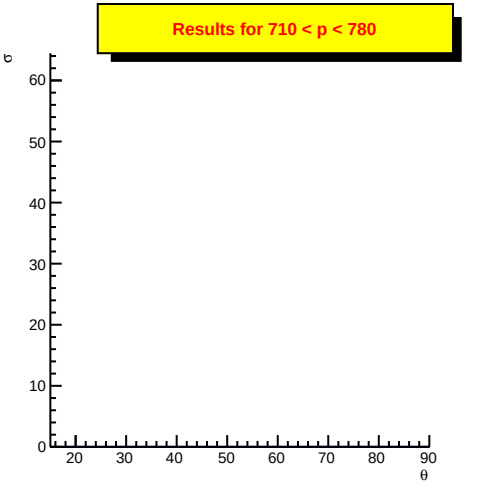


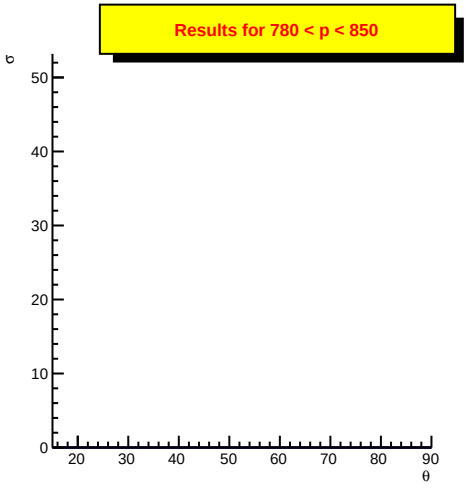
Results for 850 < p < 920

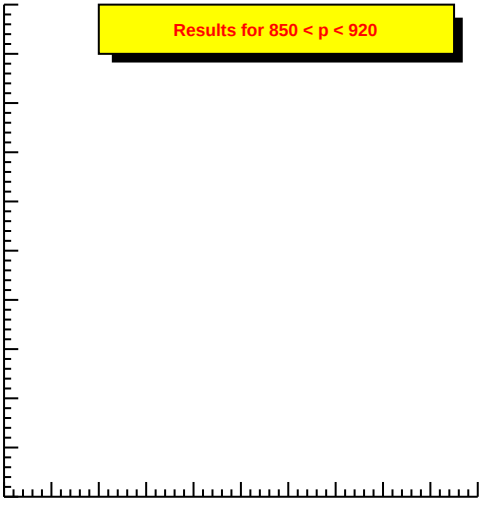
Results for 920 < p < 990

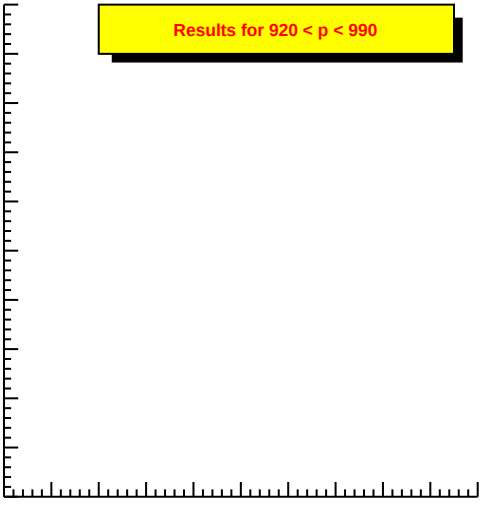

Results for 570 < p < 640

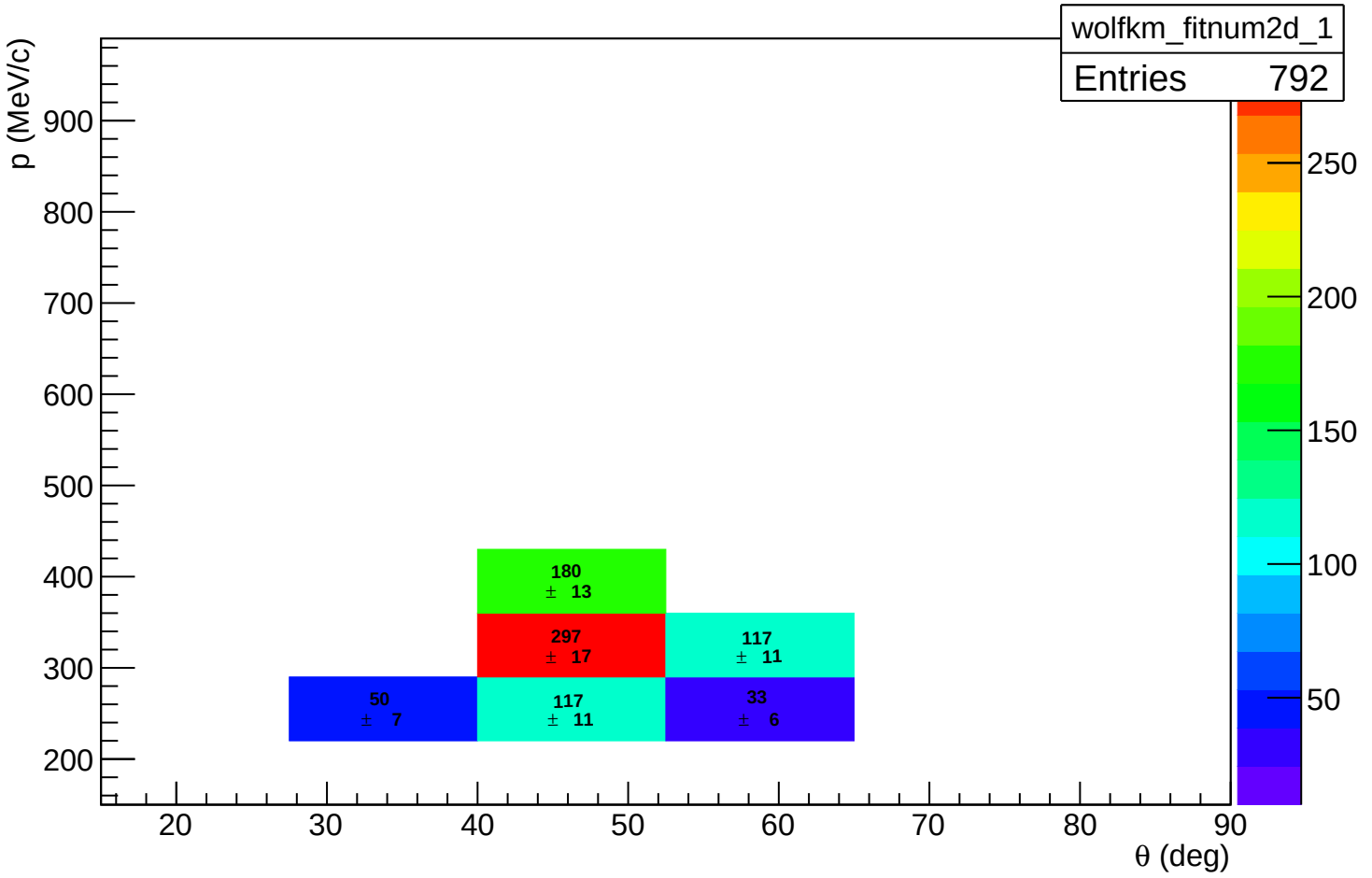

Results for 640 < p < 710
σ
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
θ

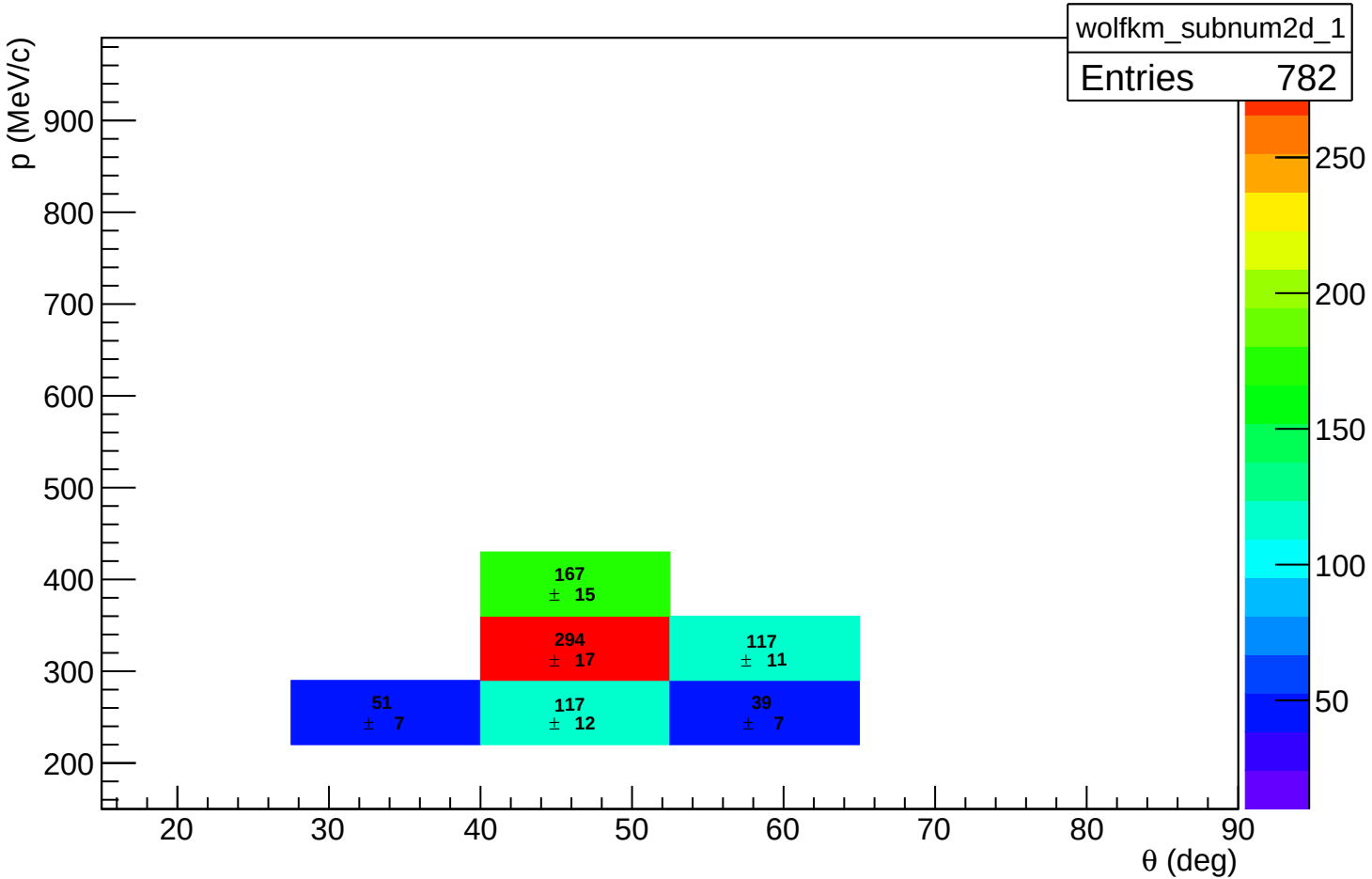

Results for 710 < p < 780
σ
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
θ

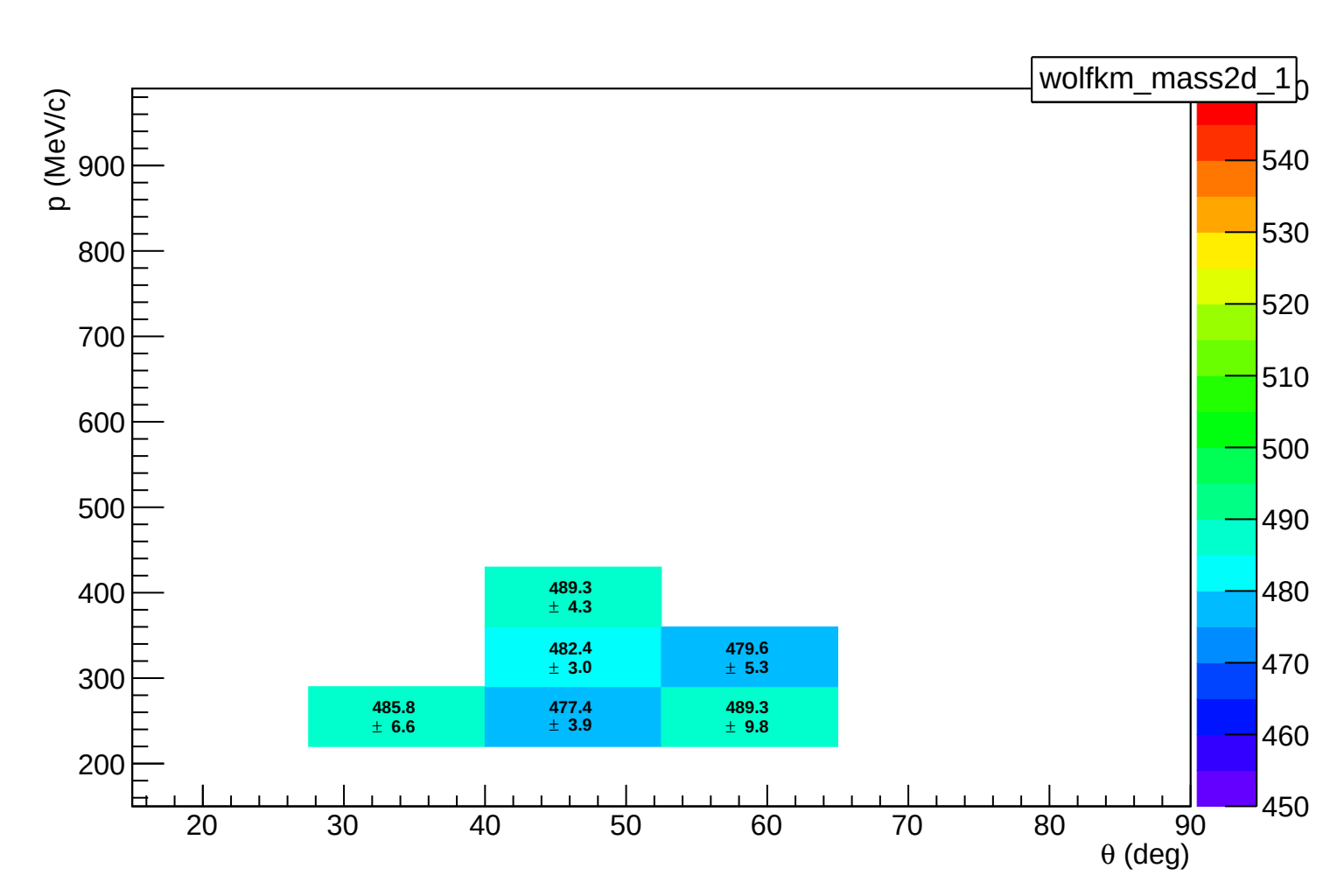

Results for 780 < p < 850
σ
50
40
30
20
10
0
20
30
40
50
60
70
80
90
θ

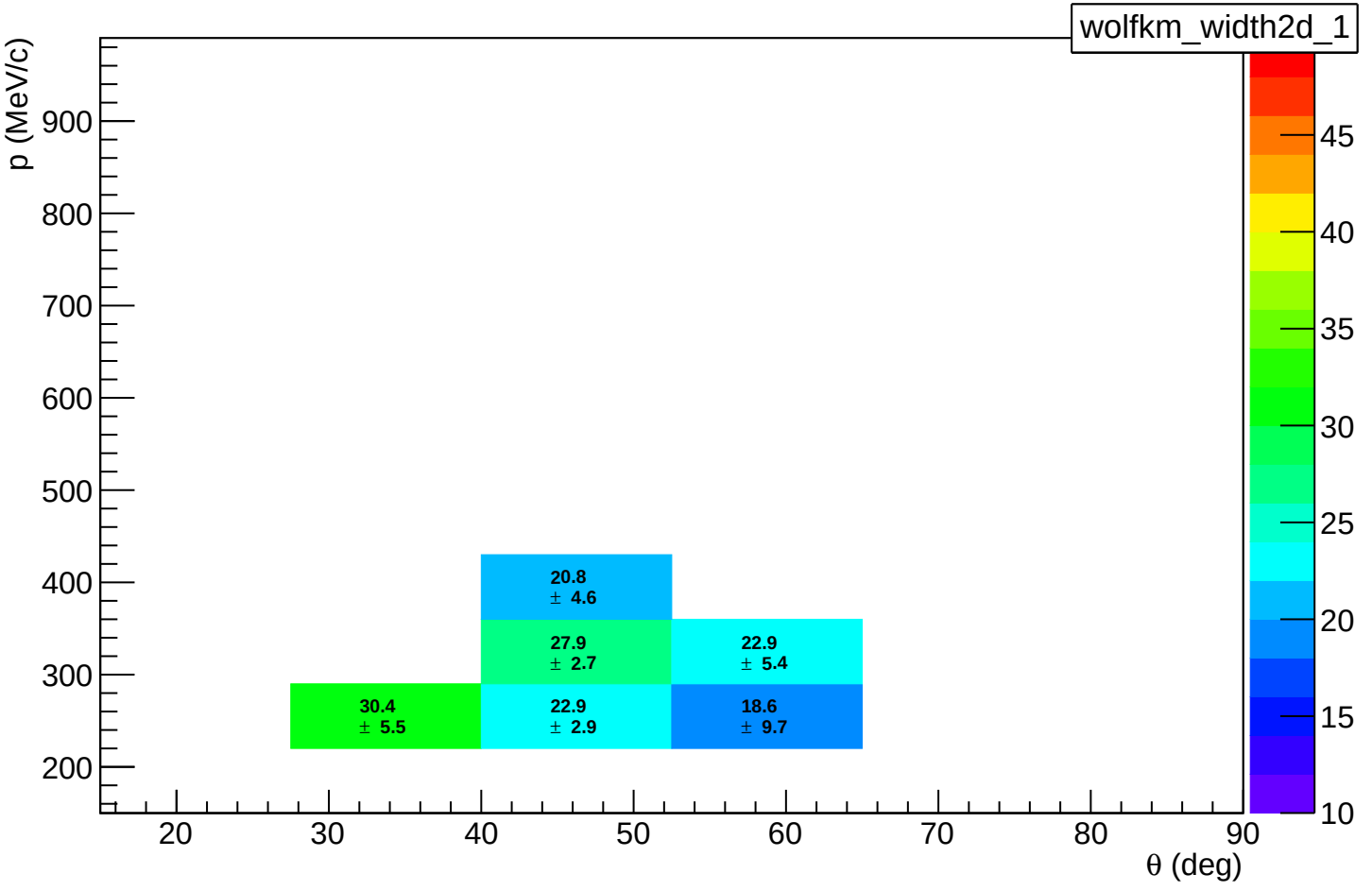

Results for 850 < p < 920


Results for 920 < p < 990


wolfkm_fitnum2d_1
Entries 792
p (MeV/c)
θ (deg)
180 ± 13
297 ± 17
117 ± 11
50 ± 7
117 ± 11
33 ± 6


wolfkm_subnum2d_1
Entries 782
p (MeV/c)
θ (deg)
167 ± 15
294 ± 17
117 ± 11
51 ± 7
117 ± 12
39 ± 7


wolfkm_mass2d_1
p (MeV/c)
θ (deg)
489.3
± 4.3
482.4
± 3.0
479.6
± 5.3
485.8
± 6.6
477.4
± 3.9
489.3
± 9.8


wolfkm_width2d_1
p (MeV/c)
θ (deg)
900
800
700
600
500
400
300
200
20
30
40
50
60
70
80
90
45
40
35
30
25
20
15
10
20.8
± 4.6
27.9
± 2.7
22.9
± 5.4
30.4
± 5.5
22.9
± 2.9
18.6
± 9.7