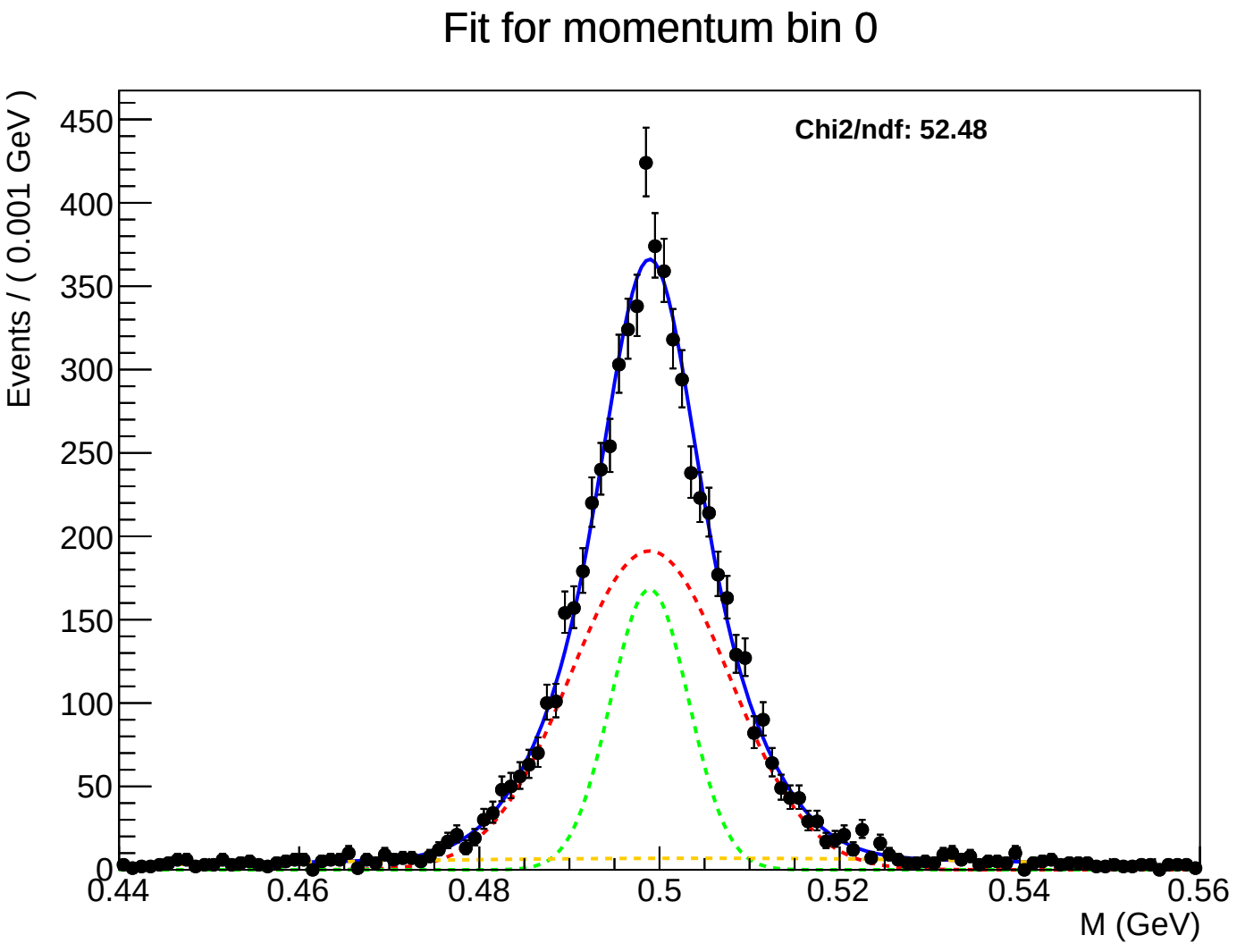
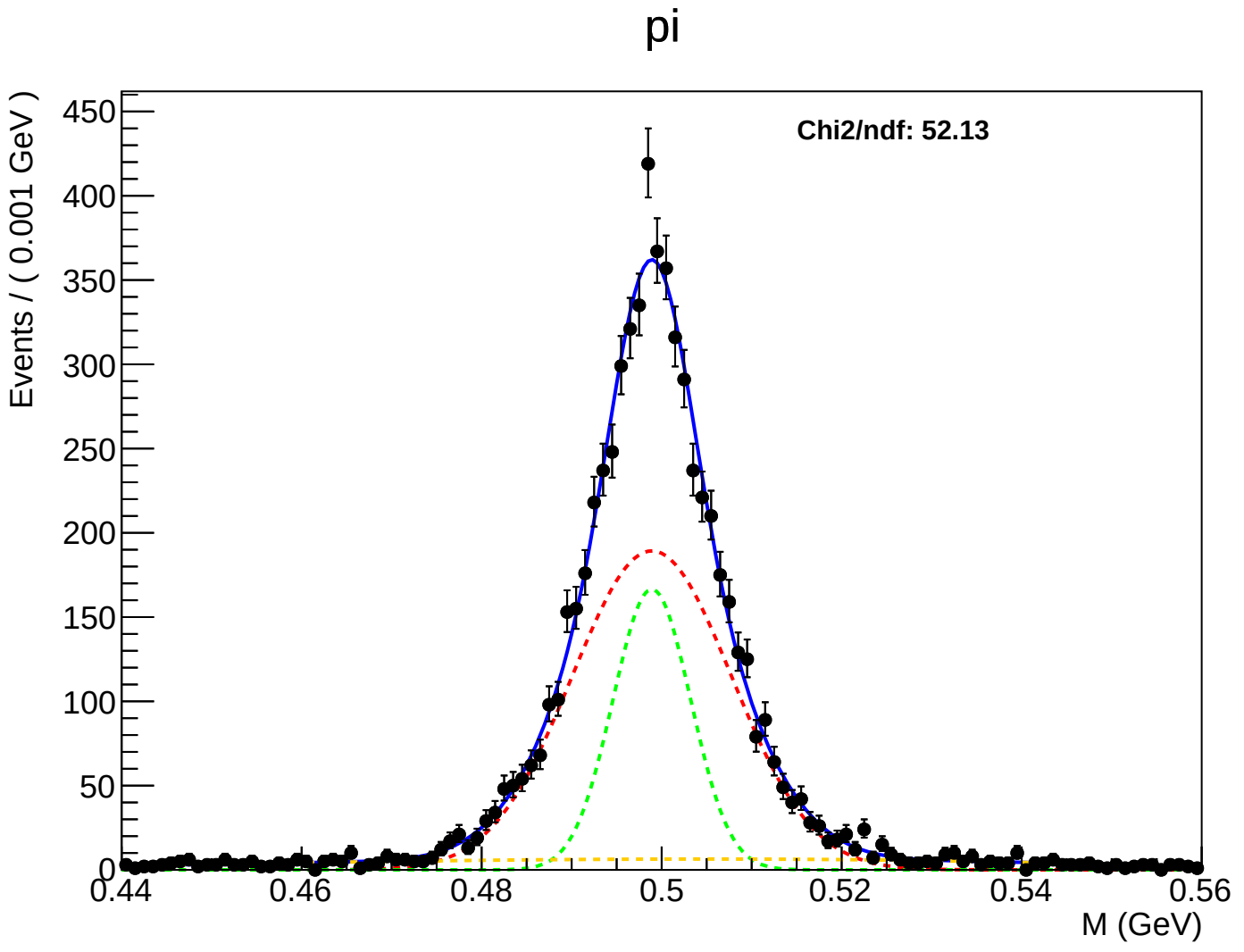
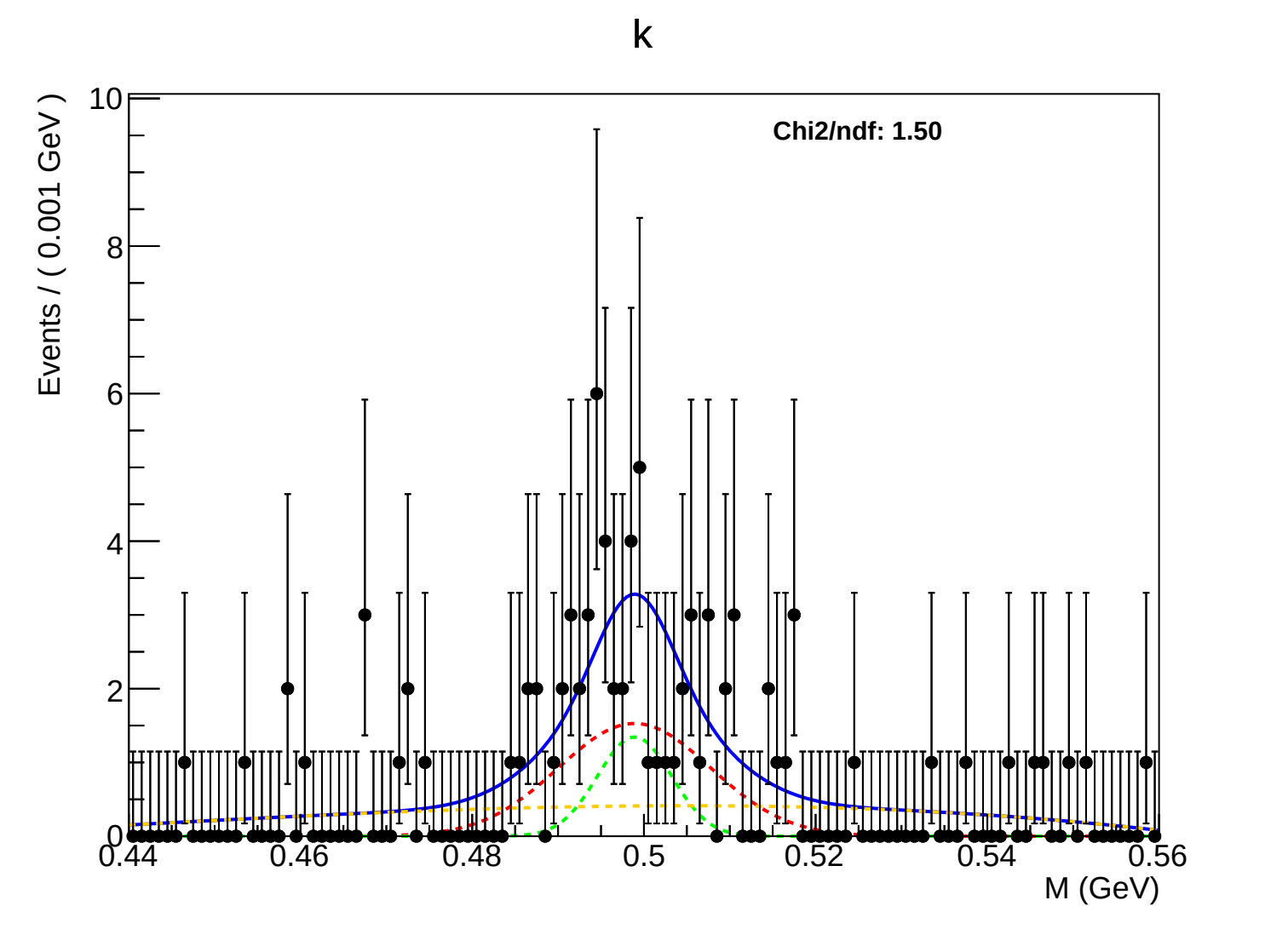
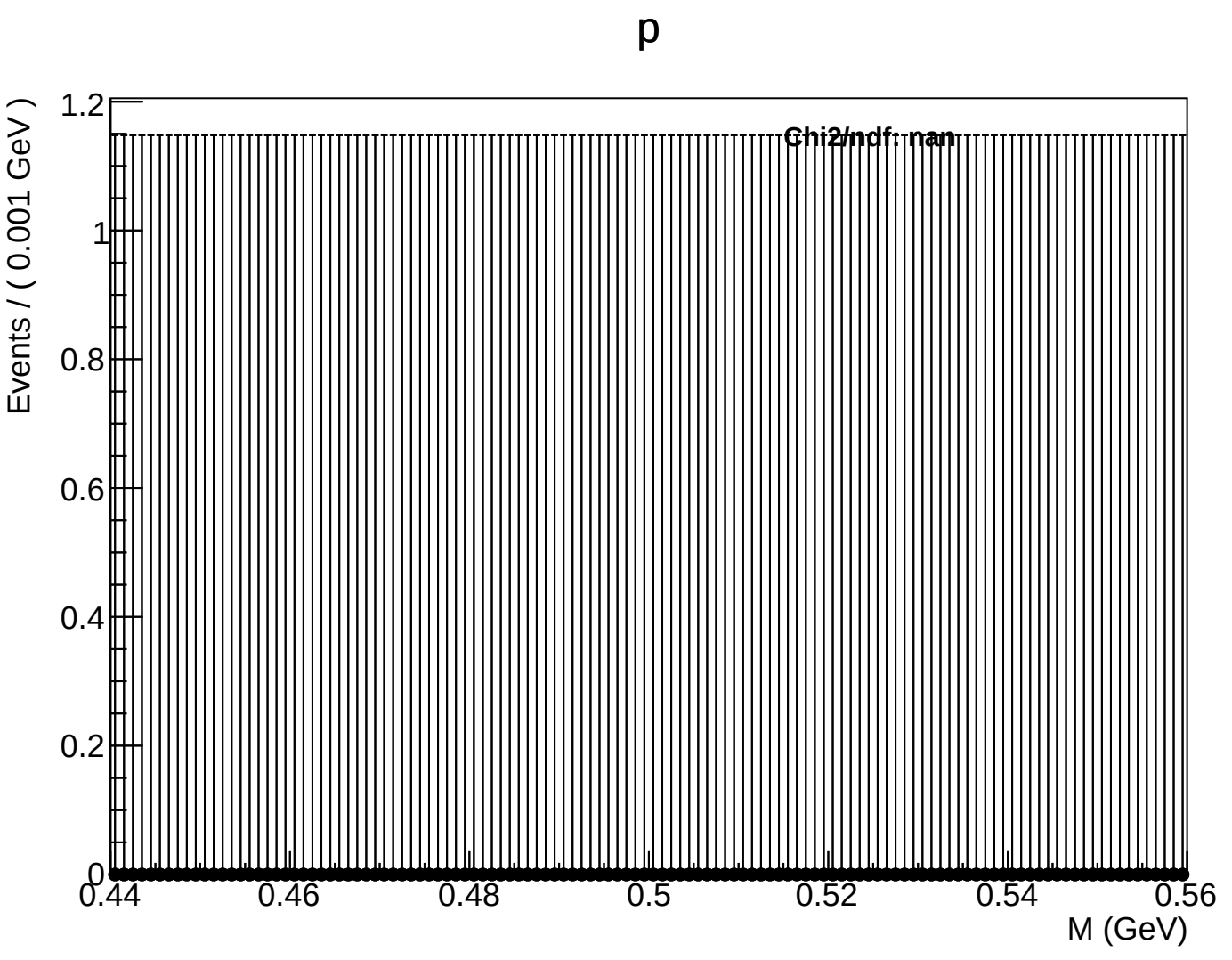
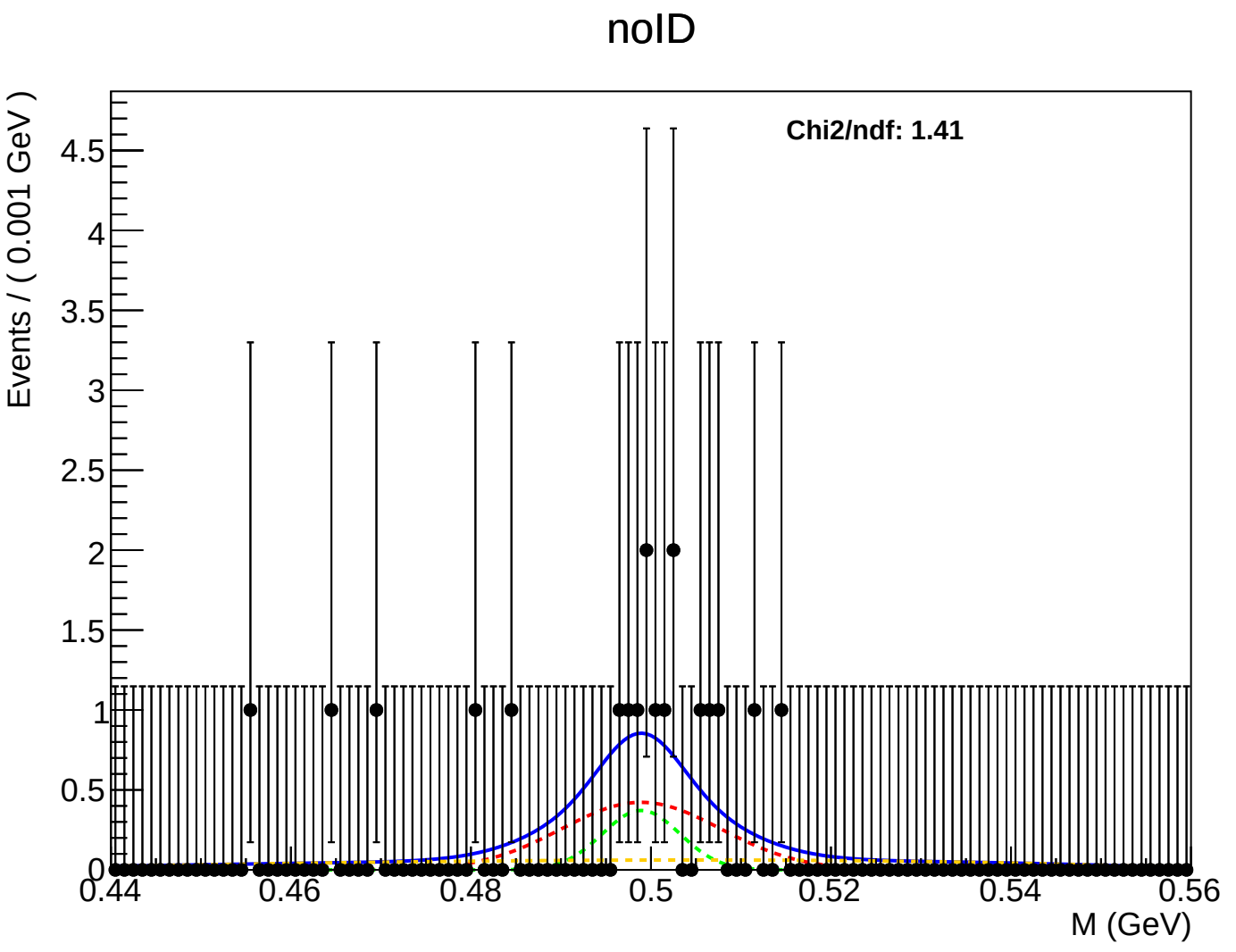
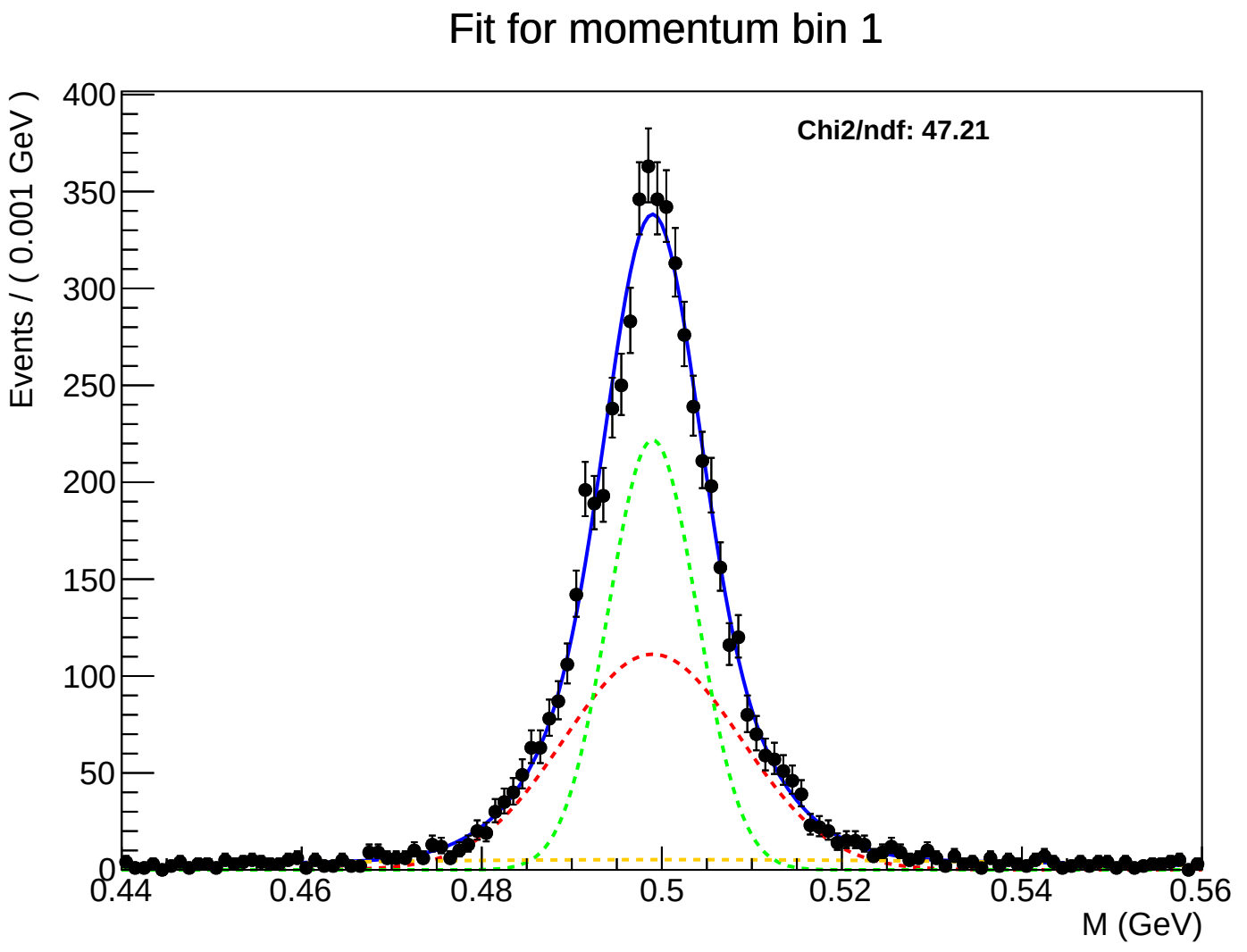

Fit for momentum bin 0
Chi2/ndf: 52.48
Events / (0.001 GeV)
M (GeV)
450
400
350
300
250
200
150
100
50
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56

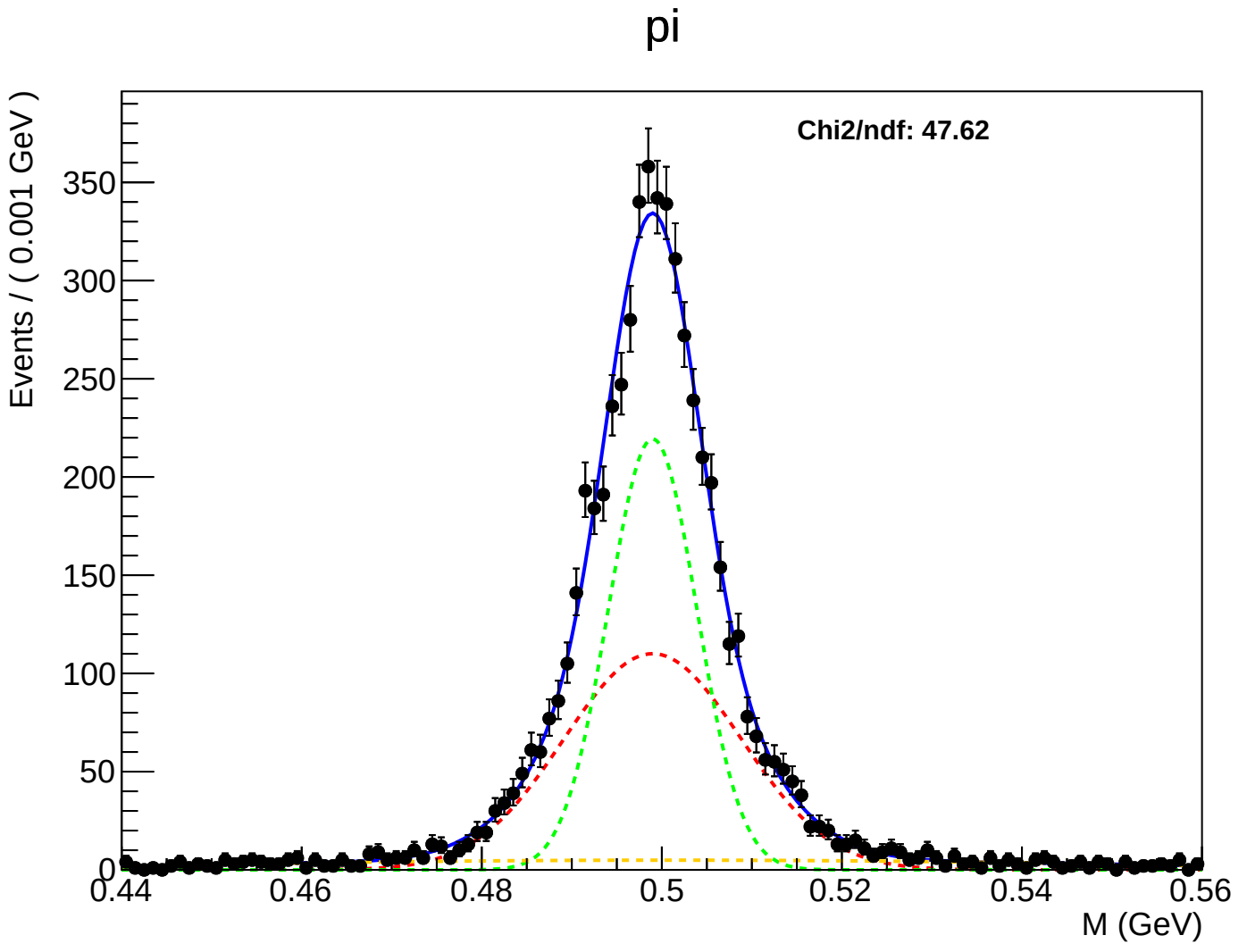

pi
Chi2/ndf: 52.13
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
300
350
400
450
0.44
0.46
0.48
0.5
0.52
0.54
0.56

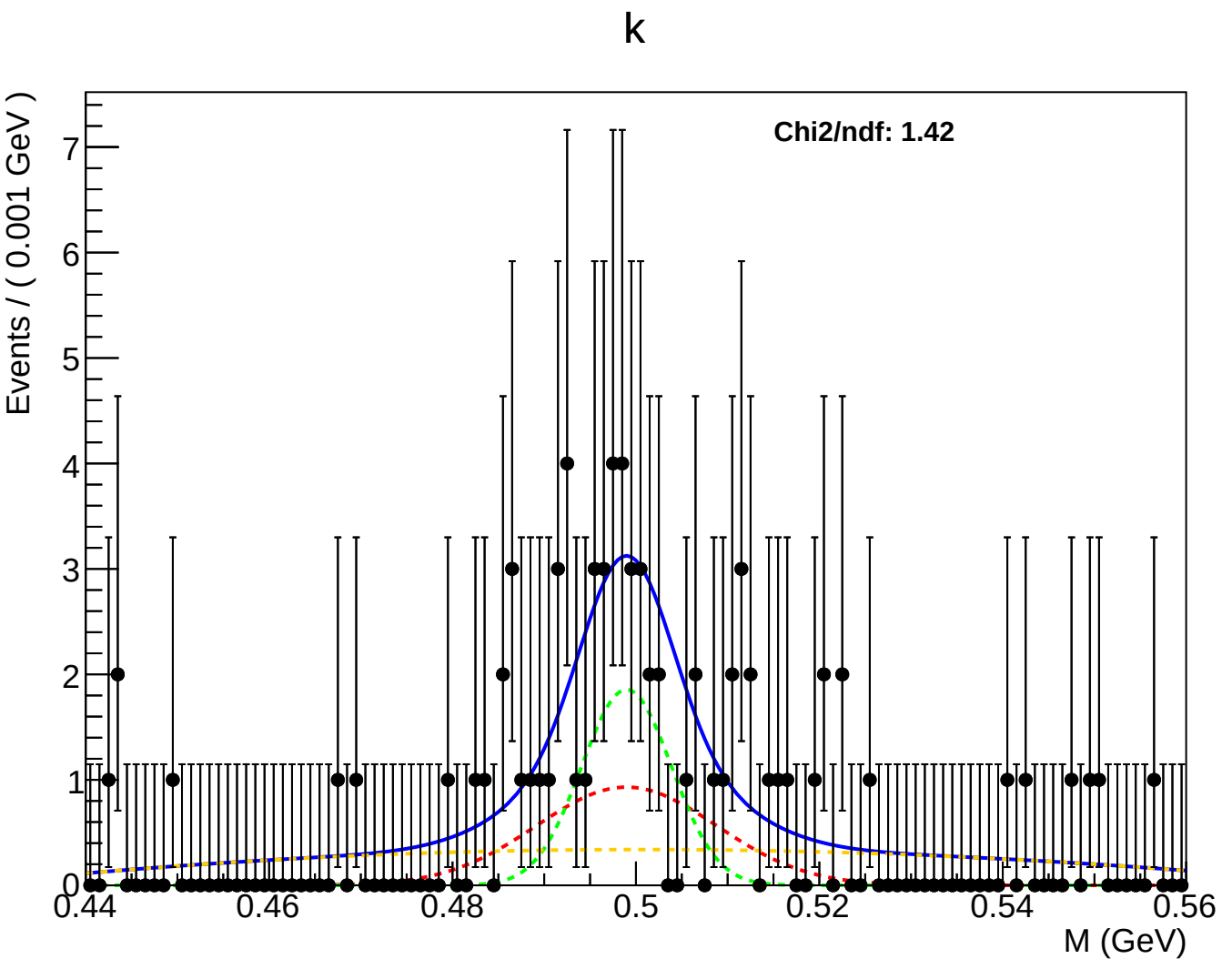

k
Chi2/ndf: 1.50
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
0.44
0.46
0.48
0.5
0.52
0.54
0.56

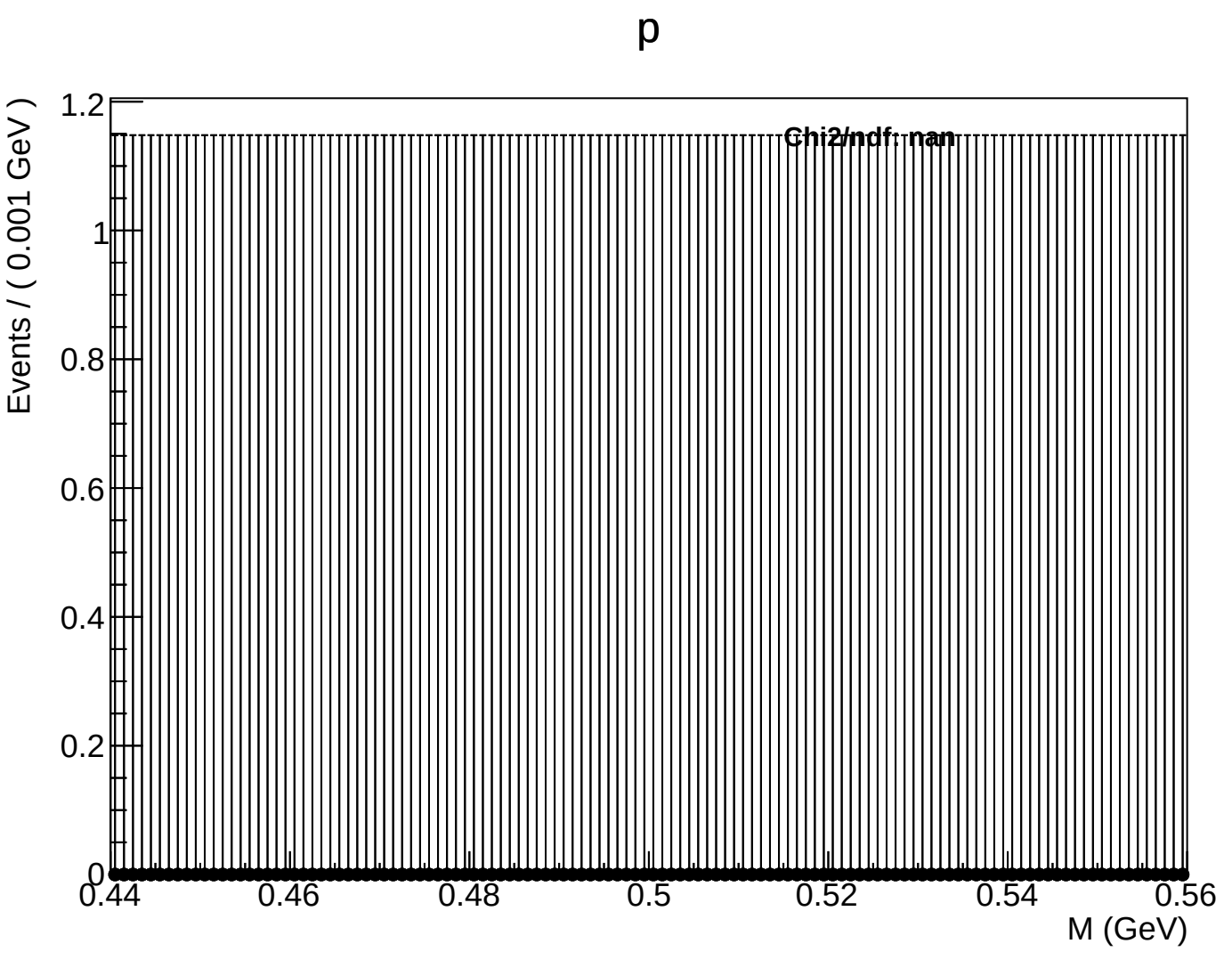

p
Chi2/ndf: nan
Events / (0.001 GeV)
1.2
1
0.8
0.6
0.4
0.2
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

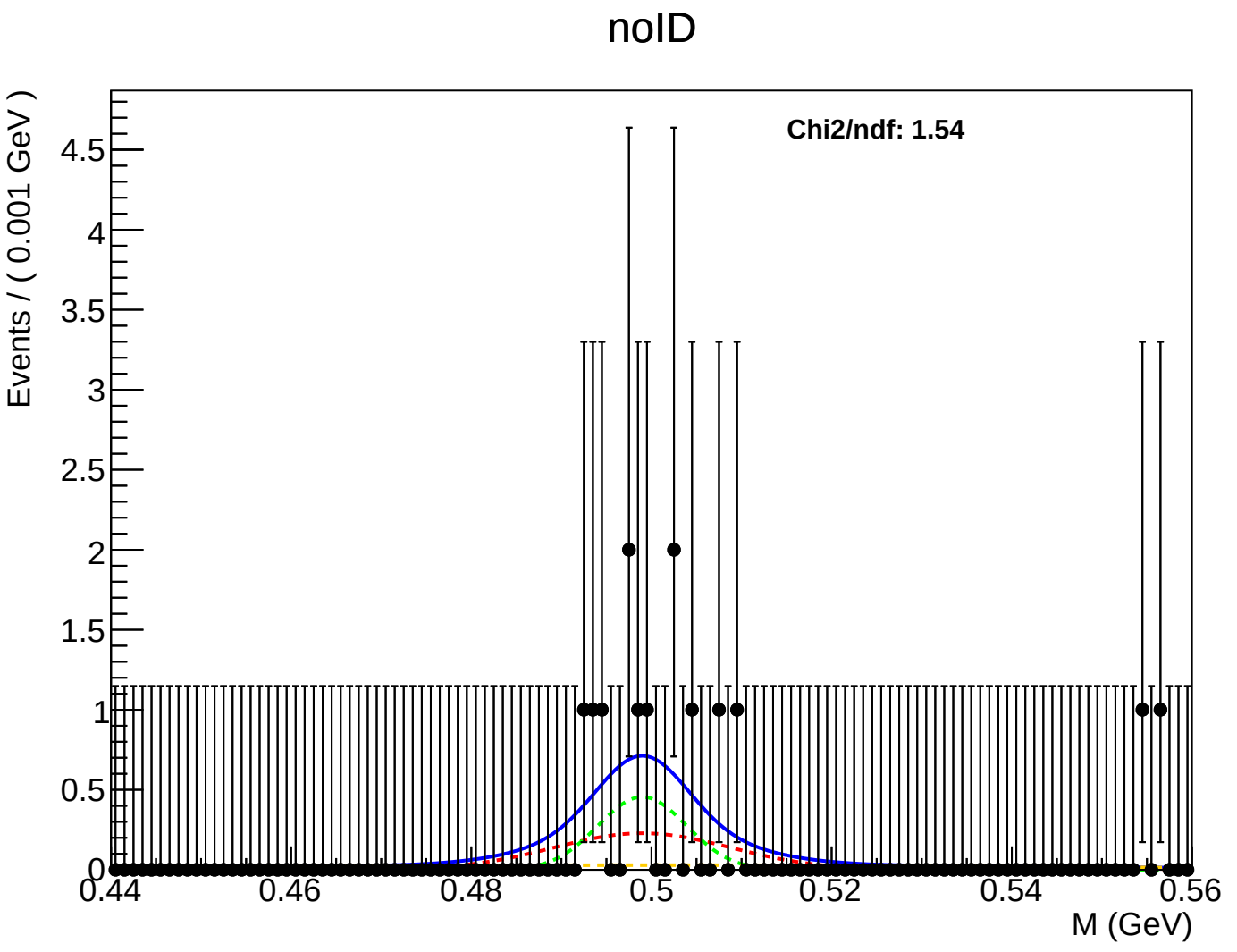

noID
Chi2/ndf: 1.41
Events / (0.001 GeV)
M (GeV)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0.44
0.46
0.48
0.5
0.52
0.54
0.56

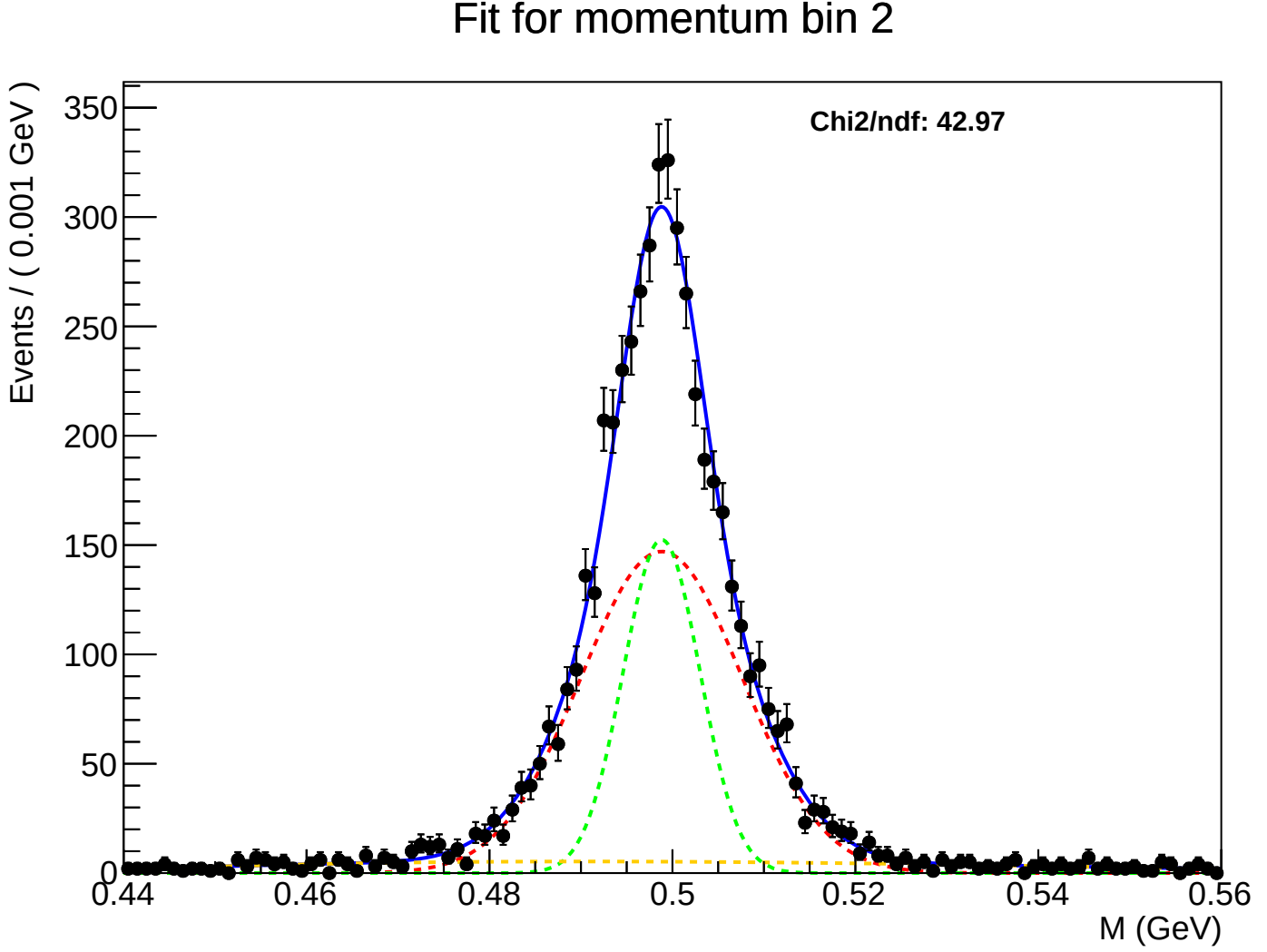

Fit for momentum bin 1
Chi2/ndf: 47.21
Events / (0.001 GeV)
M (GeV)
400
350
300
250
200
150
100
50
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56

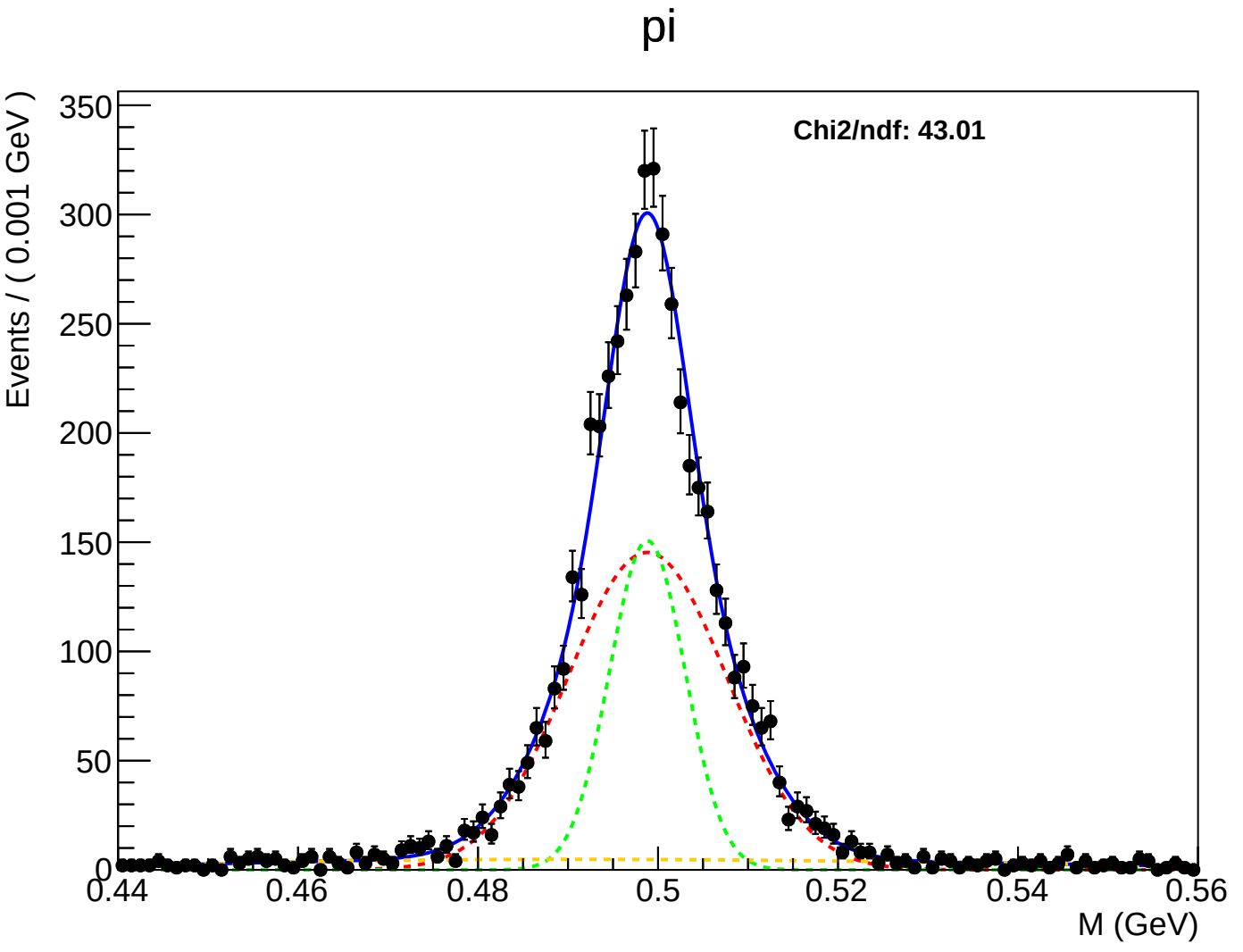

pi
Chi2/ndf: 47.62
Events / (0.001 GeV)
350
300
250
200
150
100
50
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

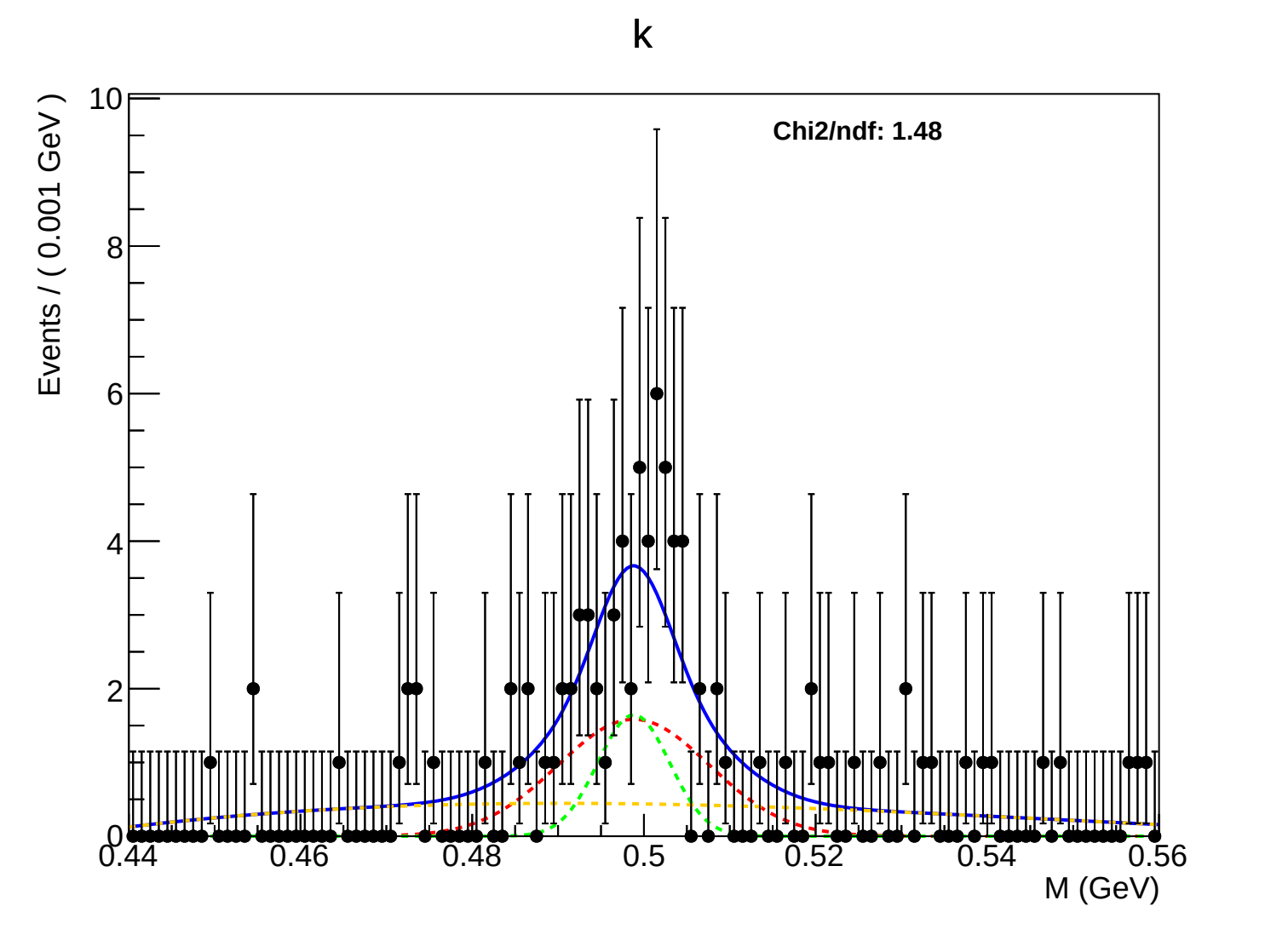

k
Chi2/ndf: 1.42
Events / (0.001 GeV)
M (GeV)
0
1
2
3
4
5
6
7
0.44
0.46
0.48
0.5
0.52
0.54
0.56

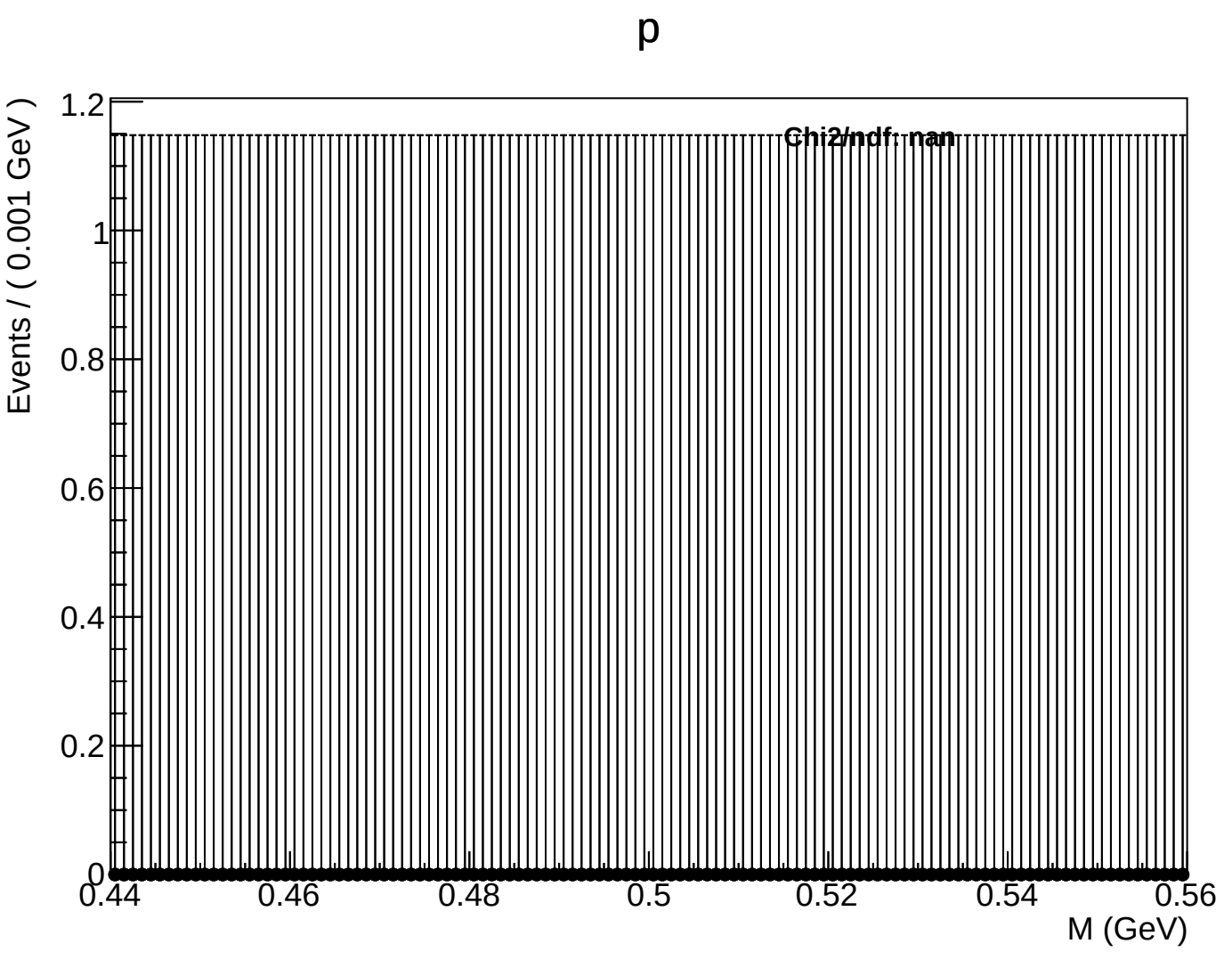

p
Chi2/ndf: nan
Events / (0.001 GeV)
1.2
1
0.8
0.6
0.4
0.2
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

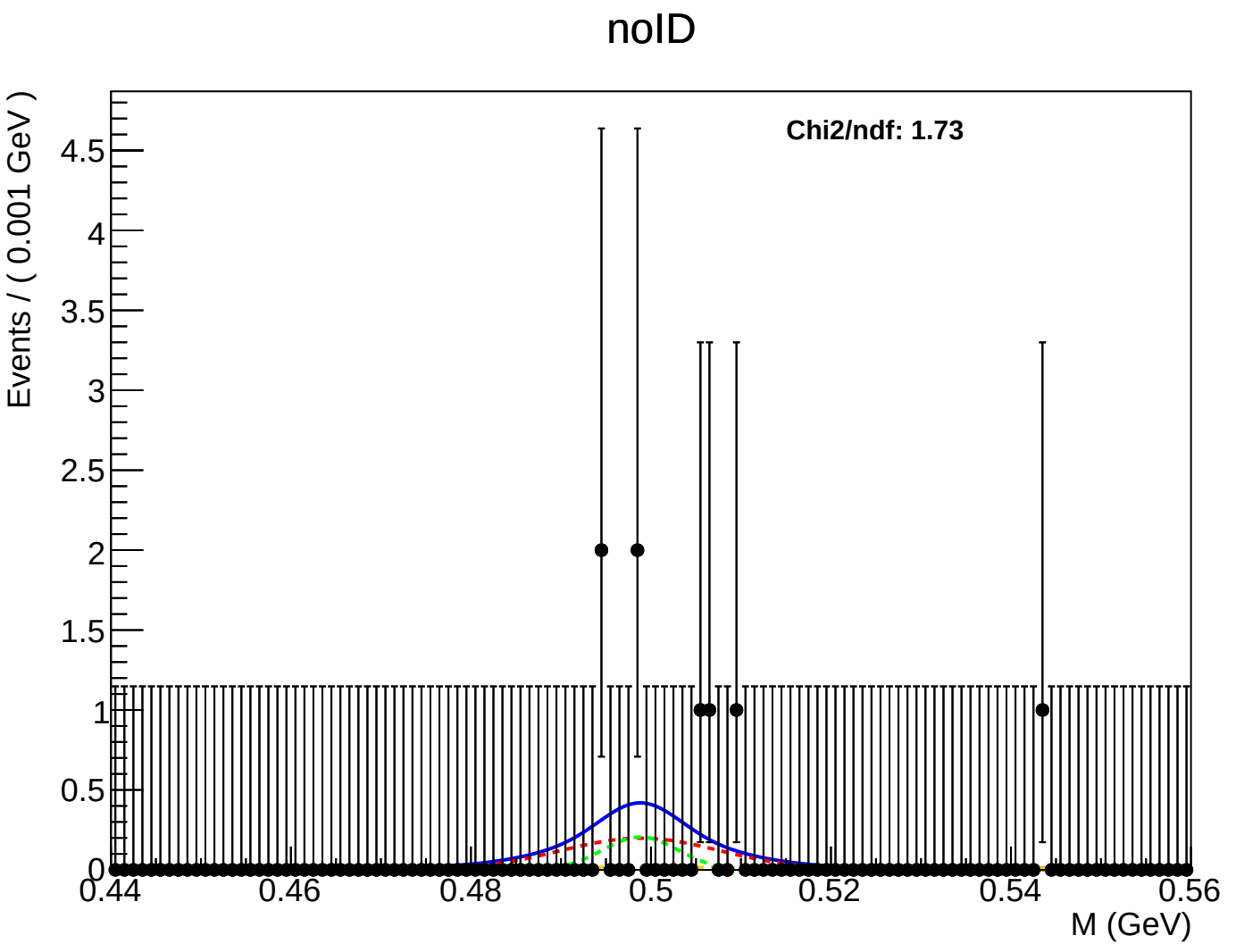

noID
Chi2/ndf: 1.54
Events / (0.001 GeV)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

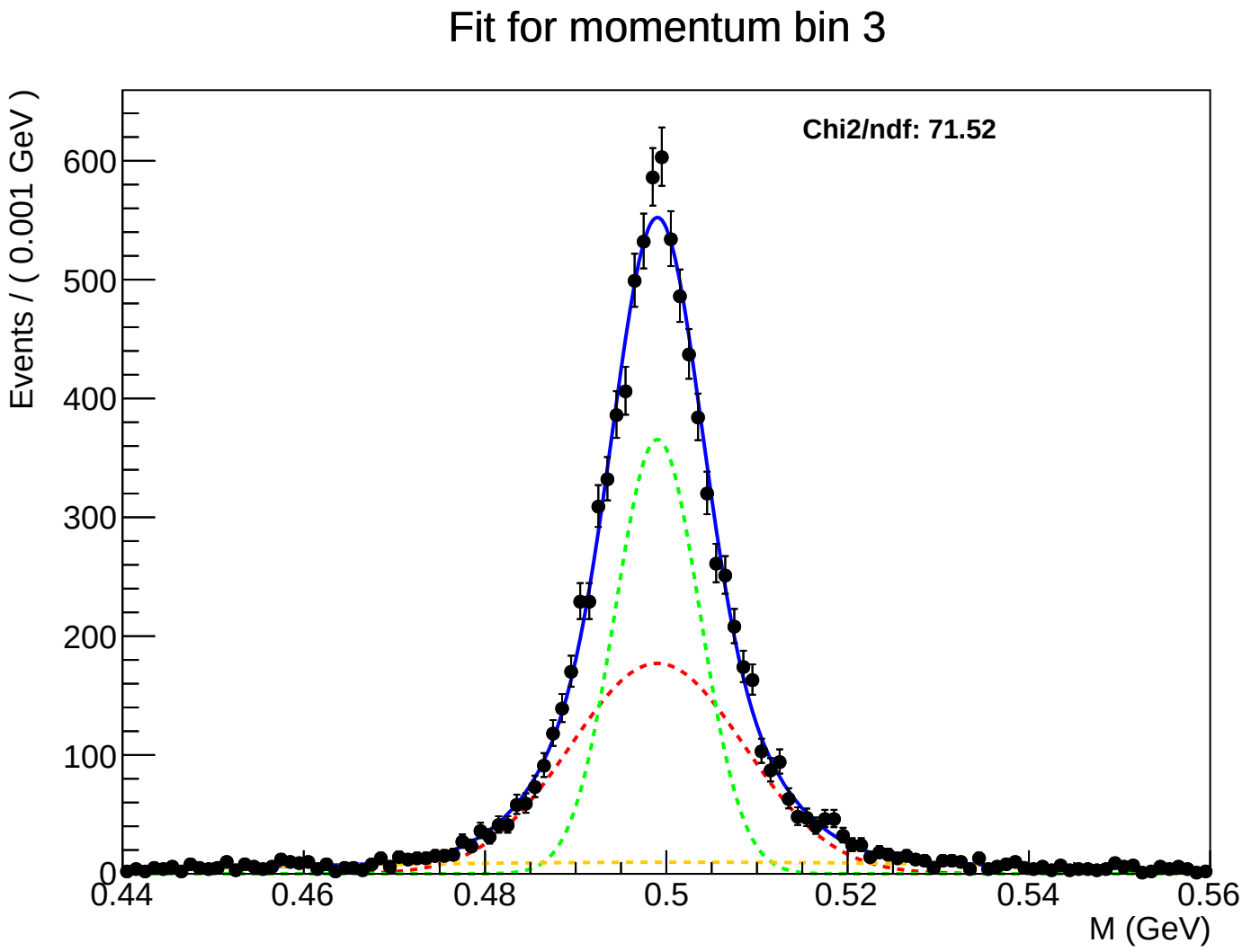

Fit for momentum bin 2
Chi2/ndf: 42.97
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
300
350
0.44
0.46
0.48
0.5
0.52
0.54
0.56

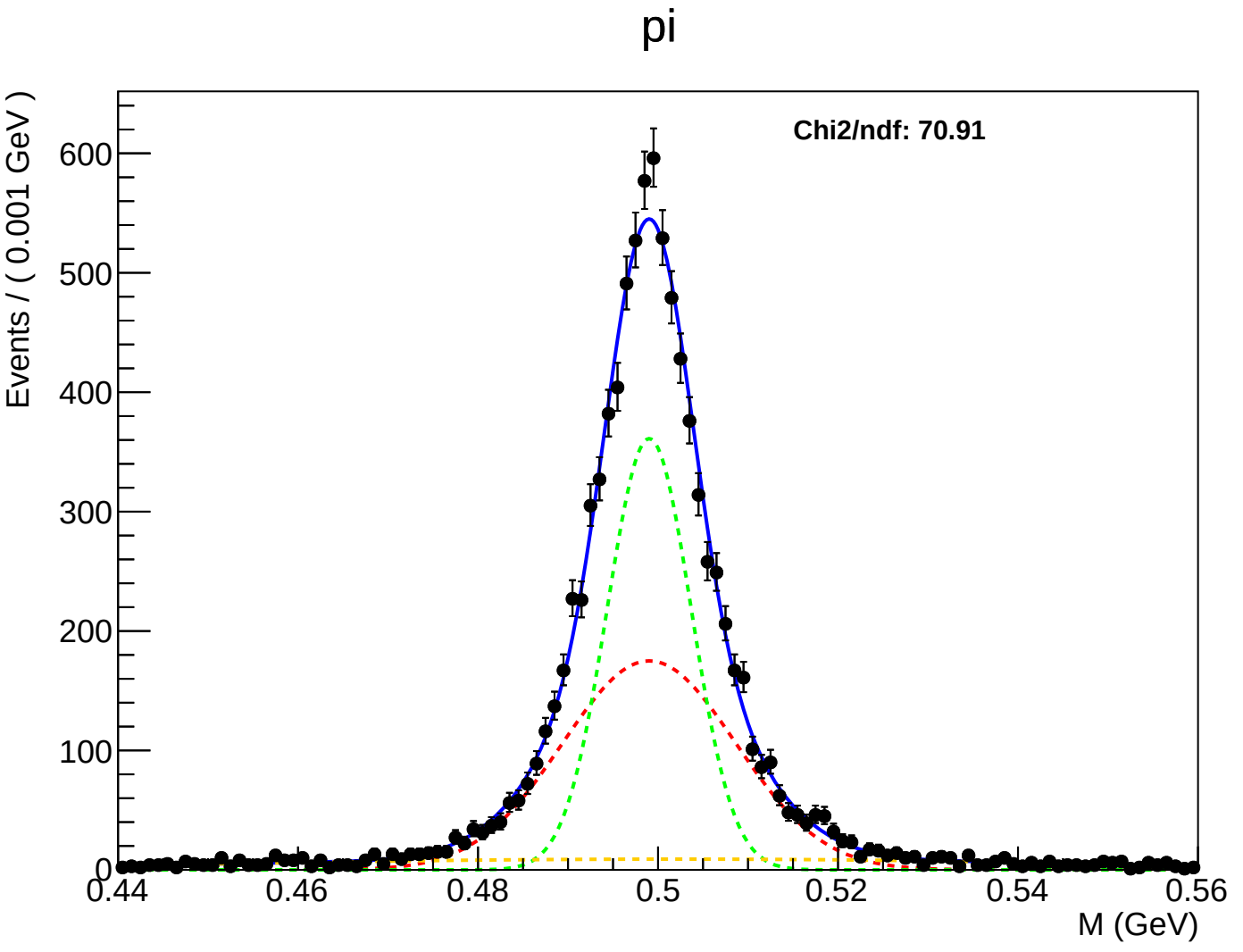

pi
Chi2/ndf: 43.01
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
300
350
0.44
0.46
0.48
0.5
0.52
0.54
0.56

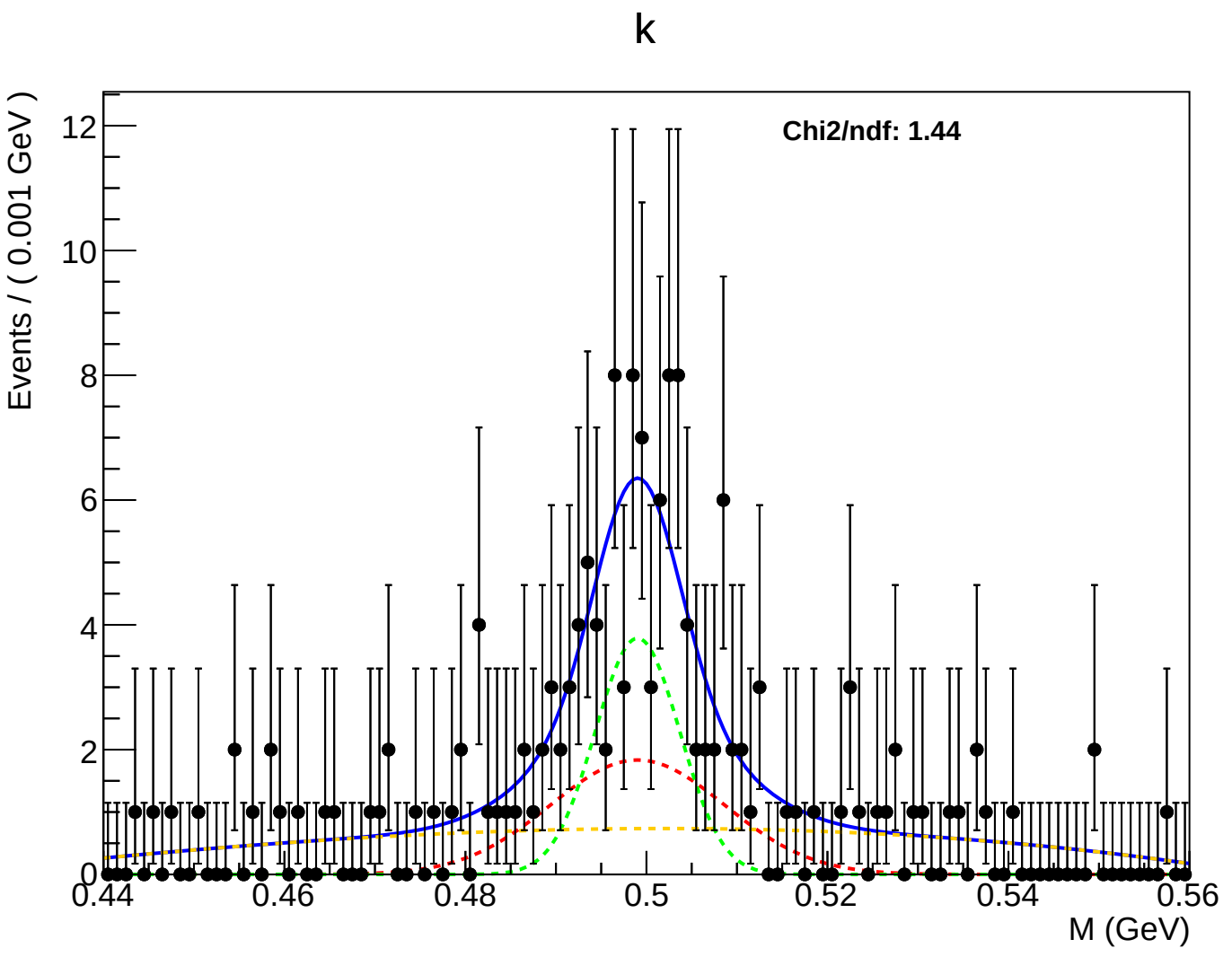

k
Chi2/ndf: 1.48
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
0.44
0.46
0.48
0.5
0.52
0.54
0.56

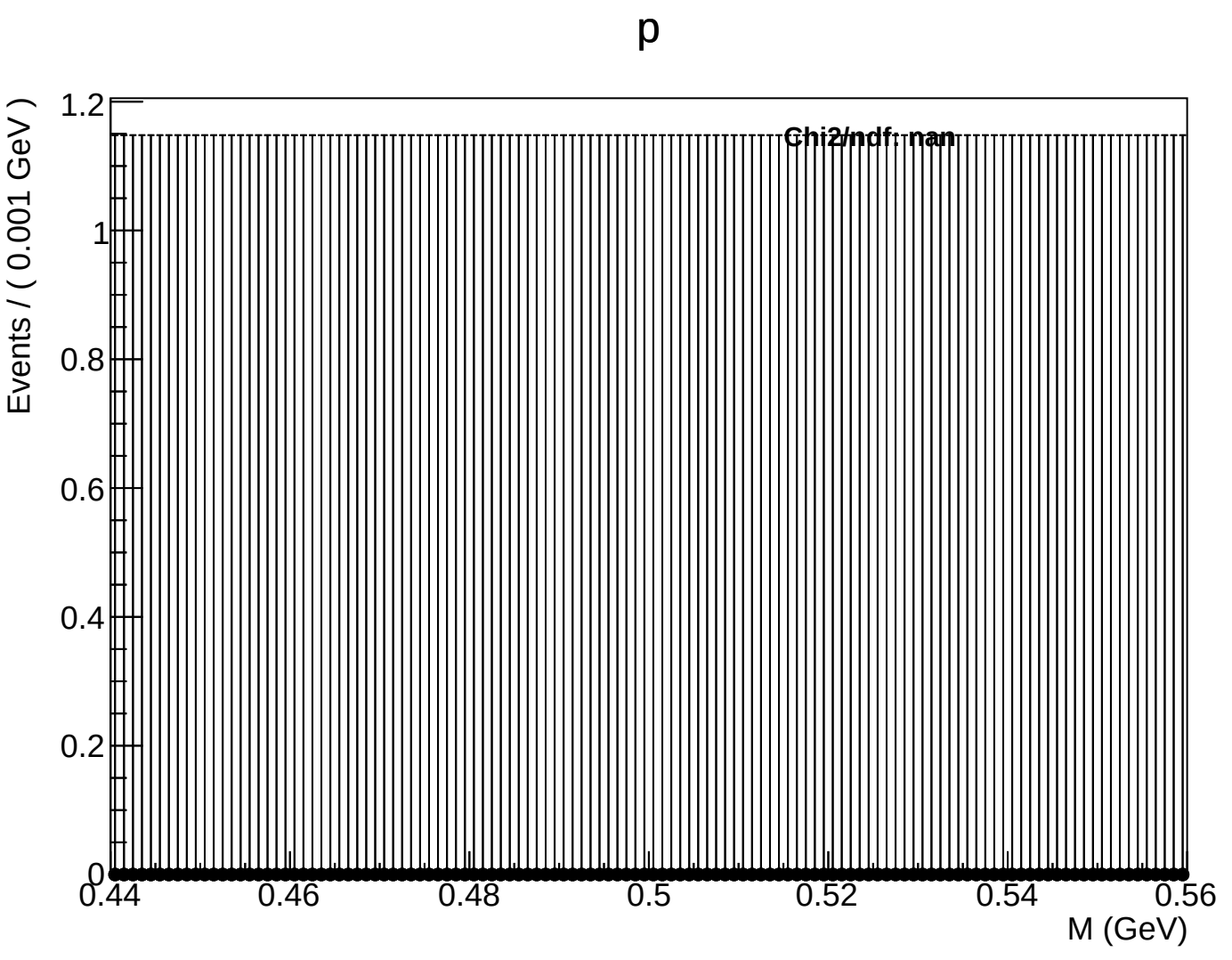

p
Chi2/ndf: nan
Events / (0.001 GeV)
1.2
1
0.8
0.6
0.4
0.2
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

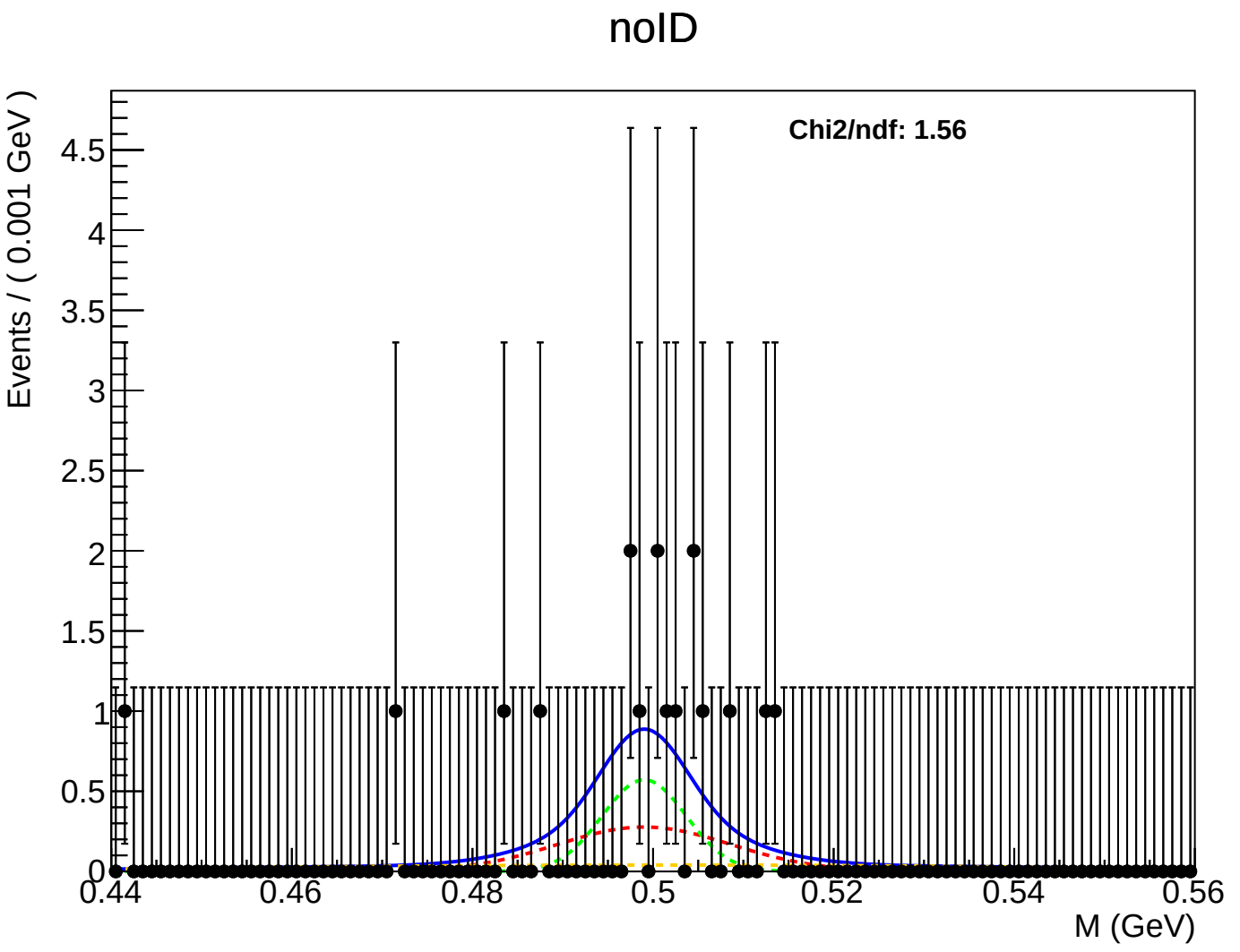

noID
Chi2/ndf: 1.73
Events / (0.001 GeV)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

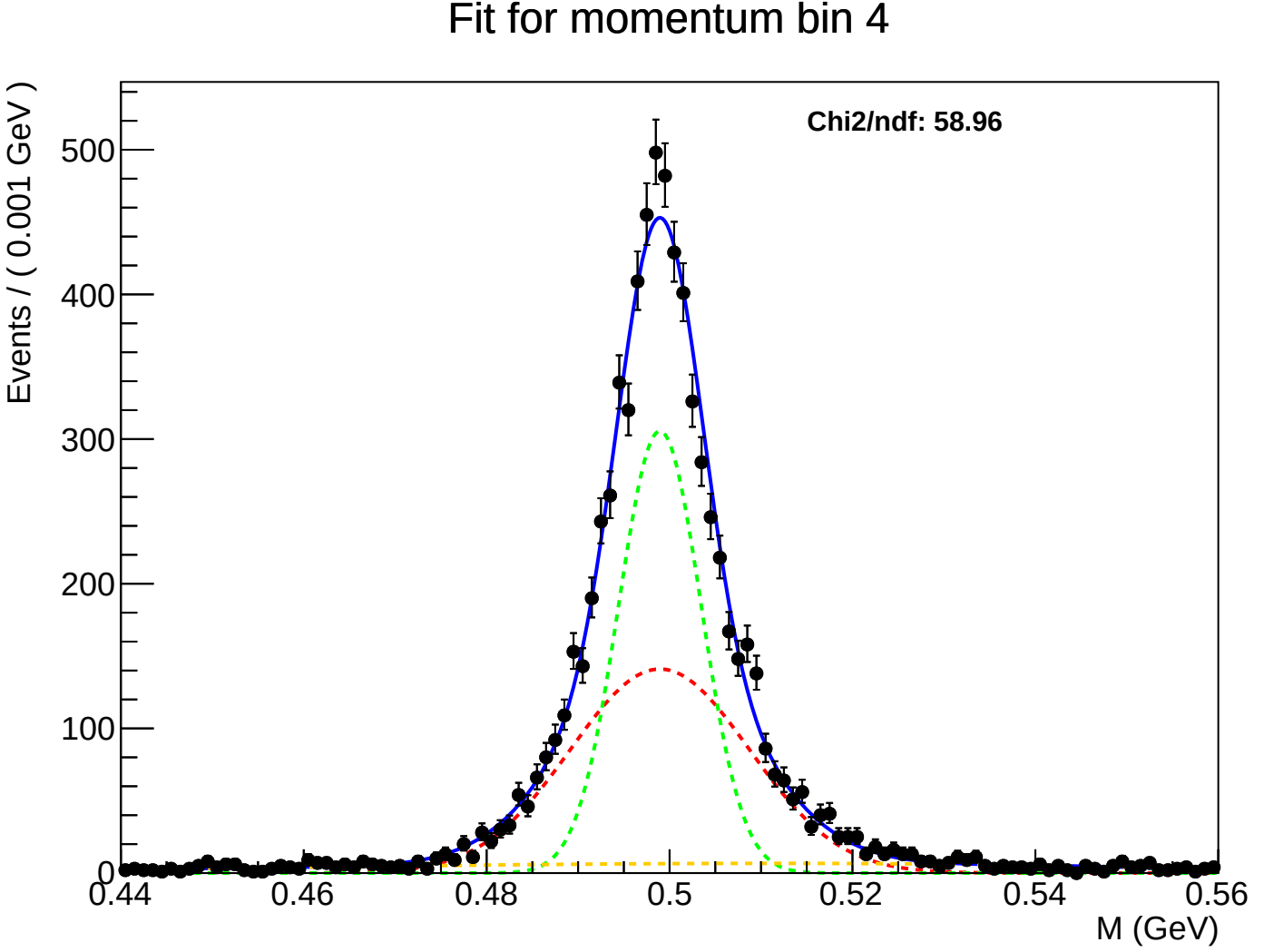

Fit for momentum bin 3
Chi2/ndf: 71.52
Events / (0.001 GeV)
M (GeV)
0
100
200
300
400
500
600
0.44
0.46
0.48
0.5
0.52
0.54
0.56

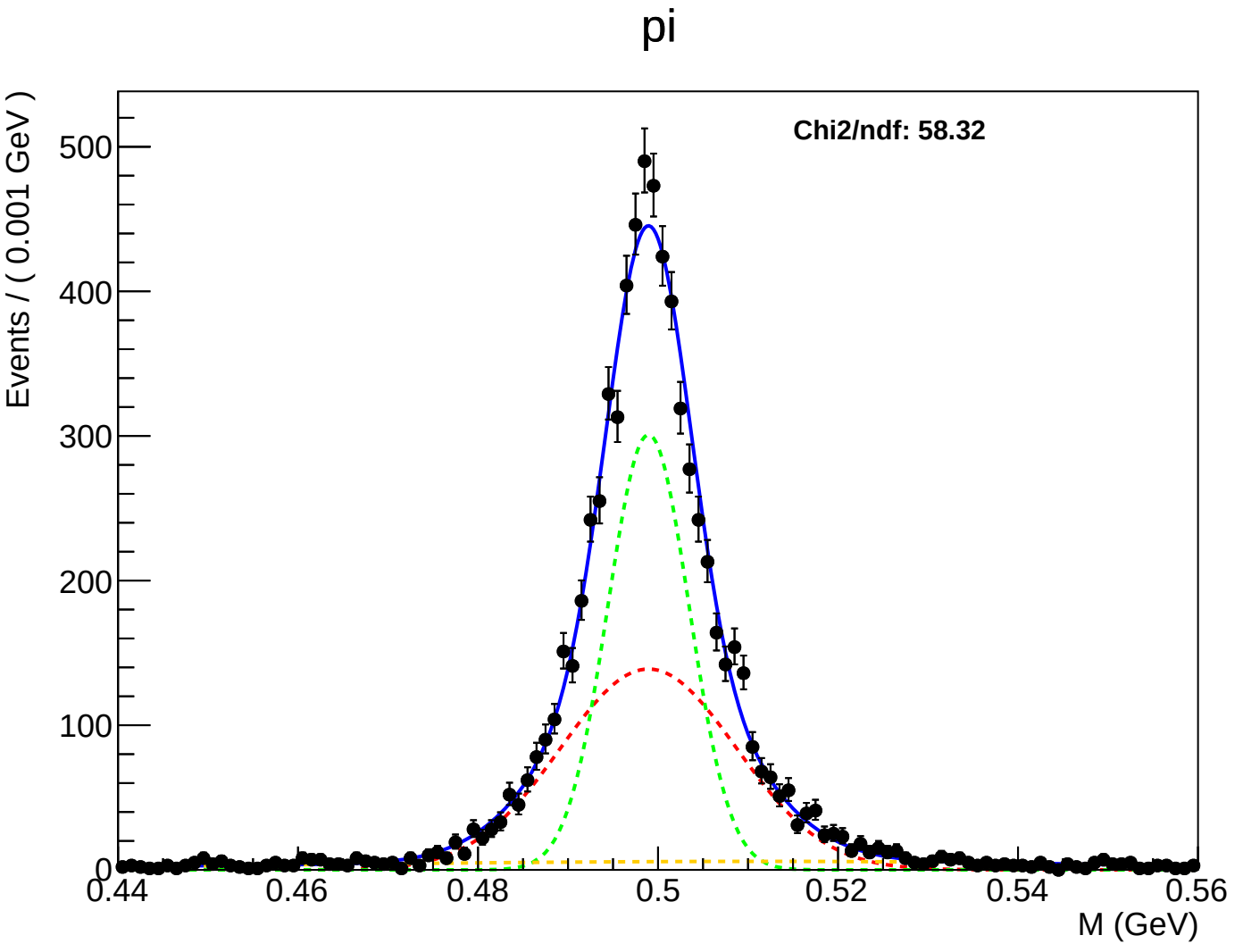

pi
Chi2/ndf: 70.91
Events / (0.001 GeV)
600
500
400
300
200
100
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

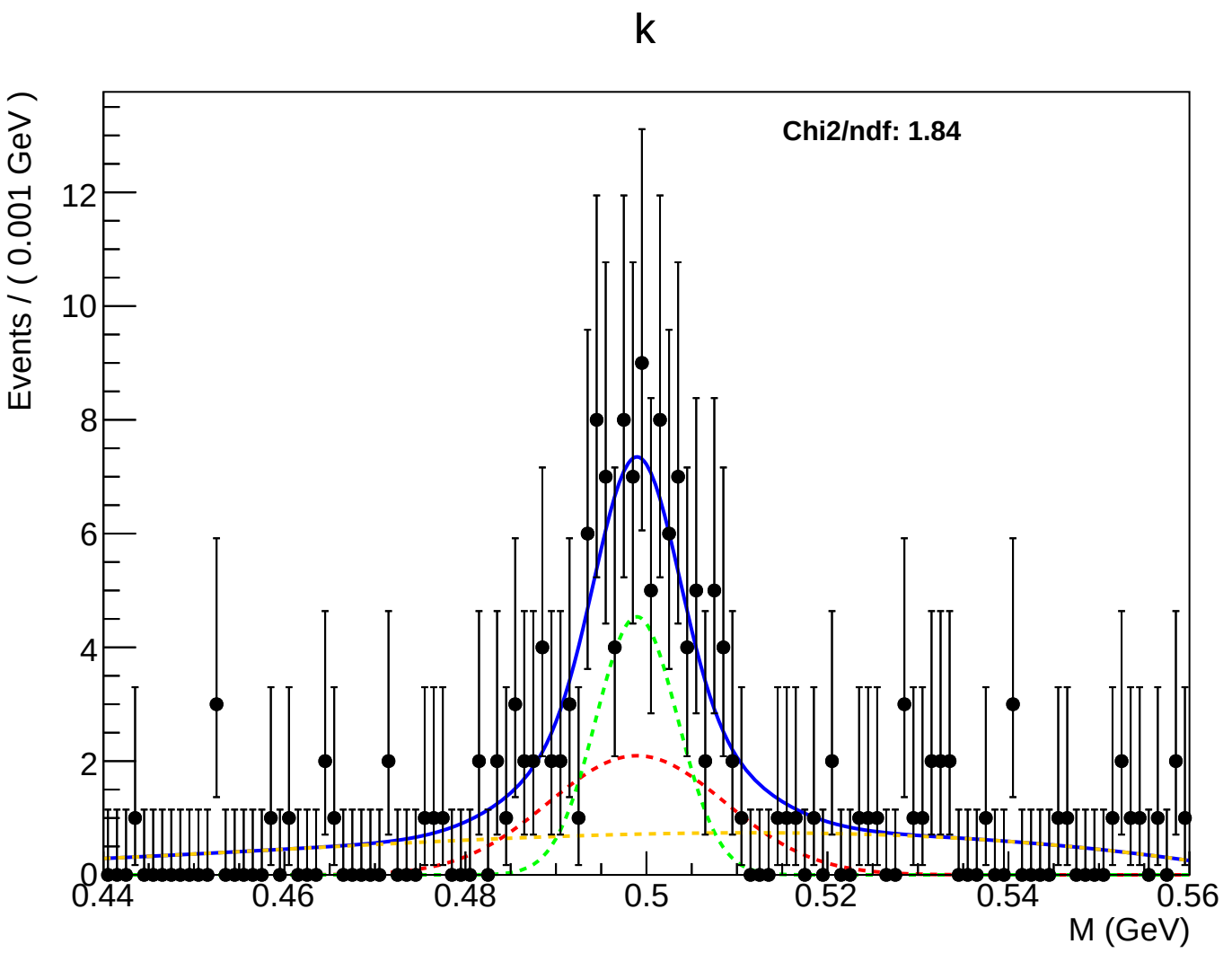

k
Chi2/ndf: 1.44
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
12
0.44
0.46
0.48
0.5
0.52
0.54
0.56

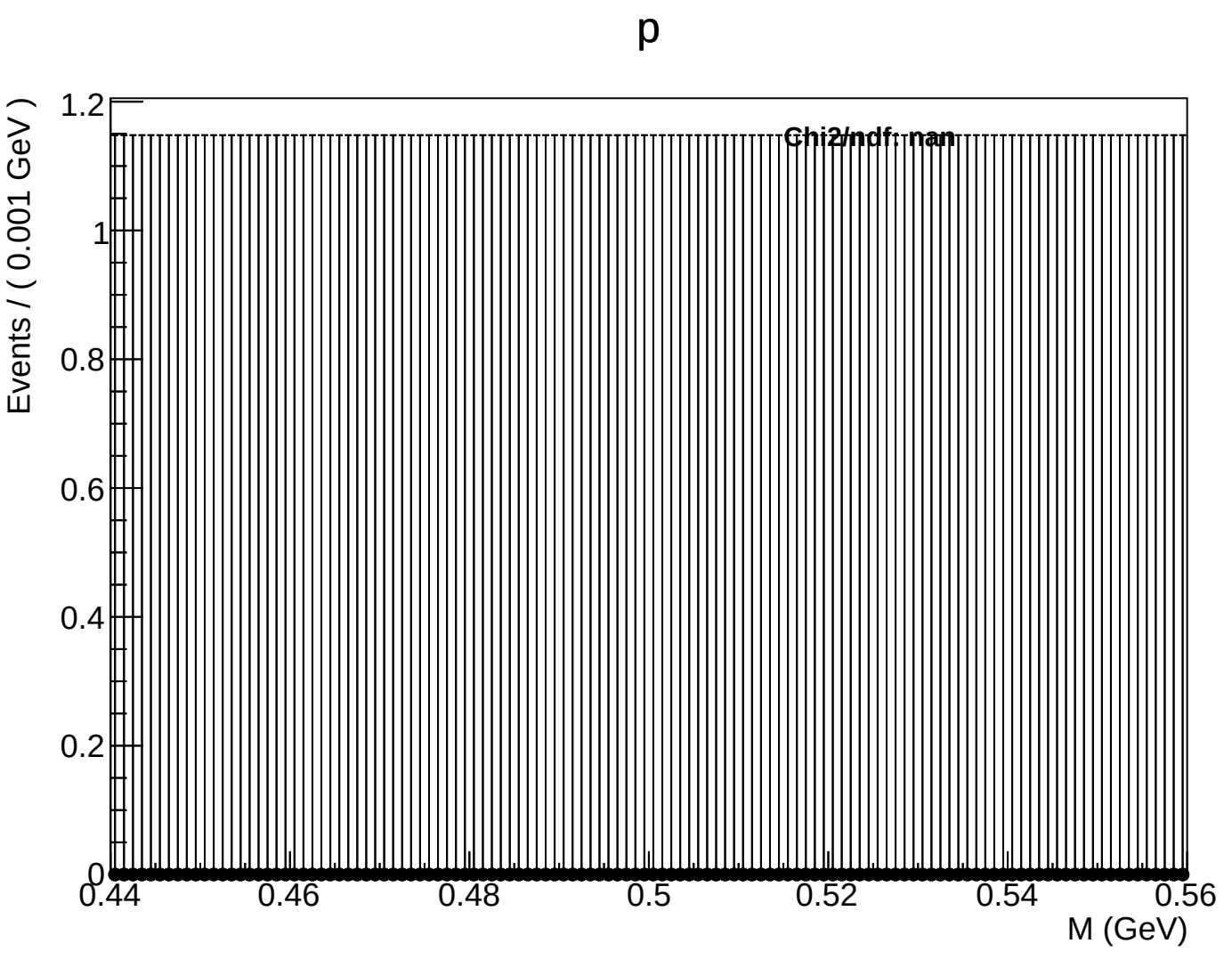

p
Chi2/ndf: nan
Events / (0.001 GeV)
1.2
1
0.8
0.6
0.4
0.2
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

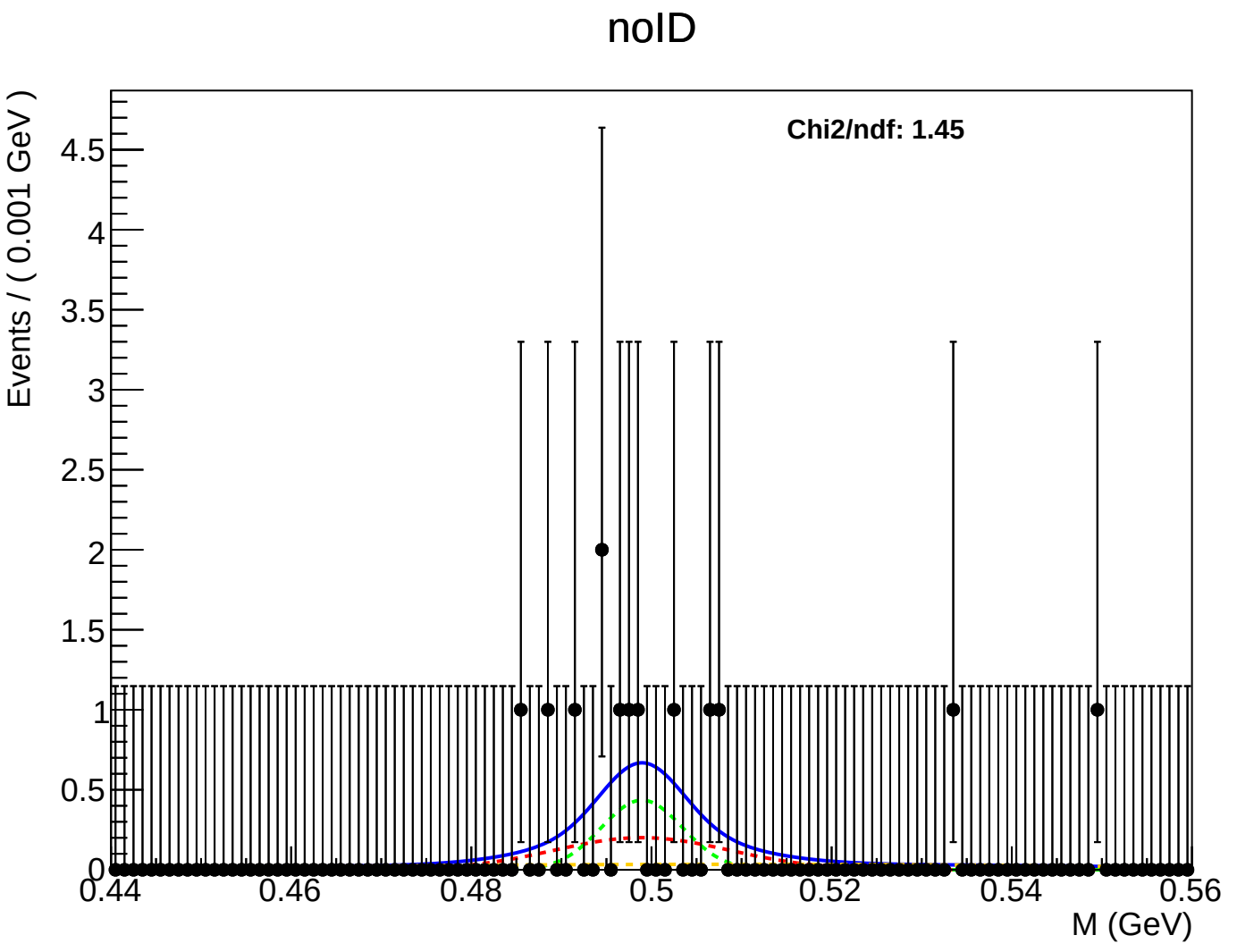

noID
Chi2/ndf: 1.56
Events / (0.001 GeV)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

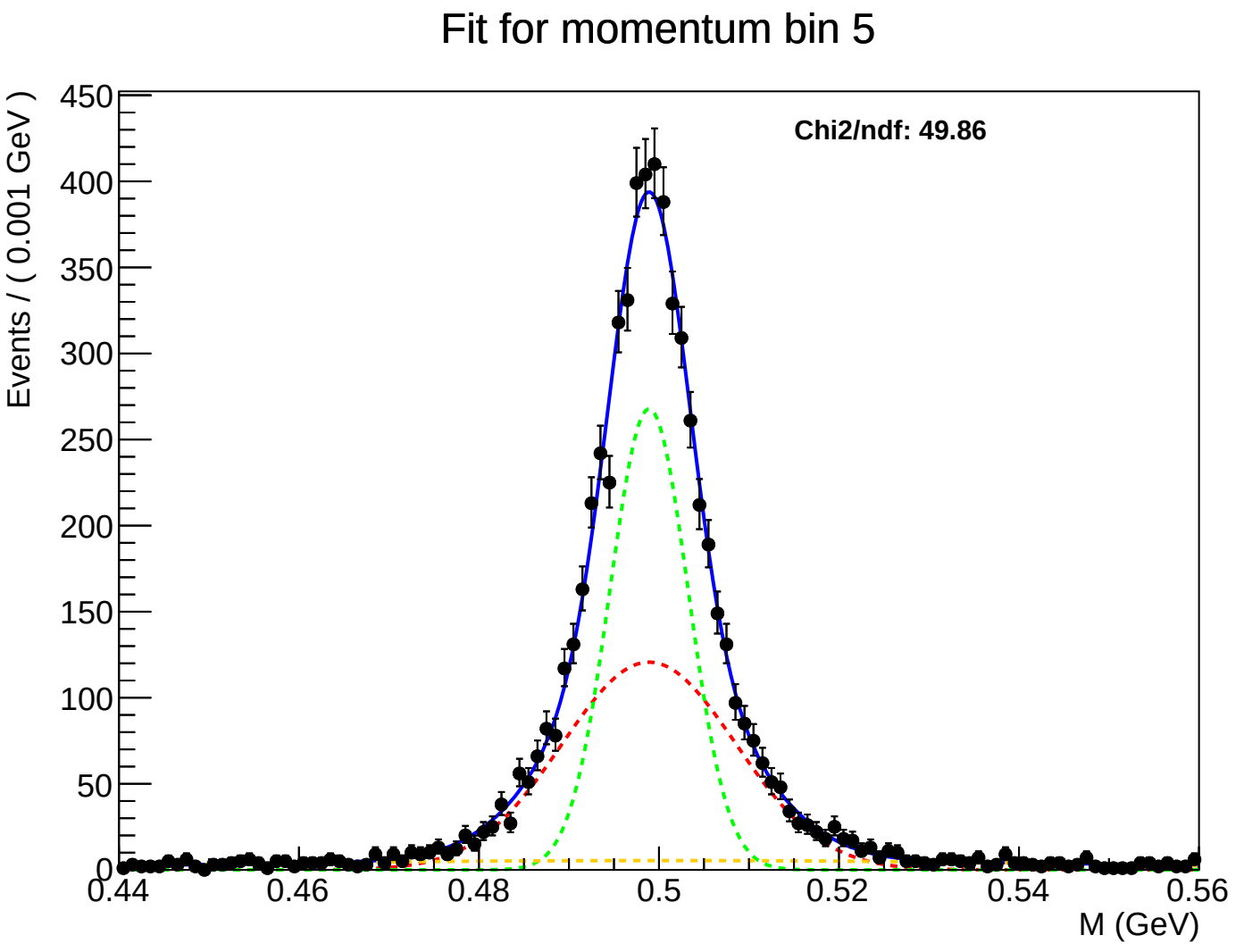

Fit for momentum bin 4
Chi2/ndf: 58.96
Events / (0.001 GeV)
M (GeV)
0
100
200
300
400
500
0.44
0.46
0.48
0.5
0.52
0.54
0.56

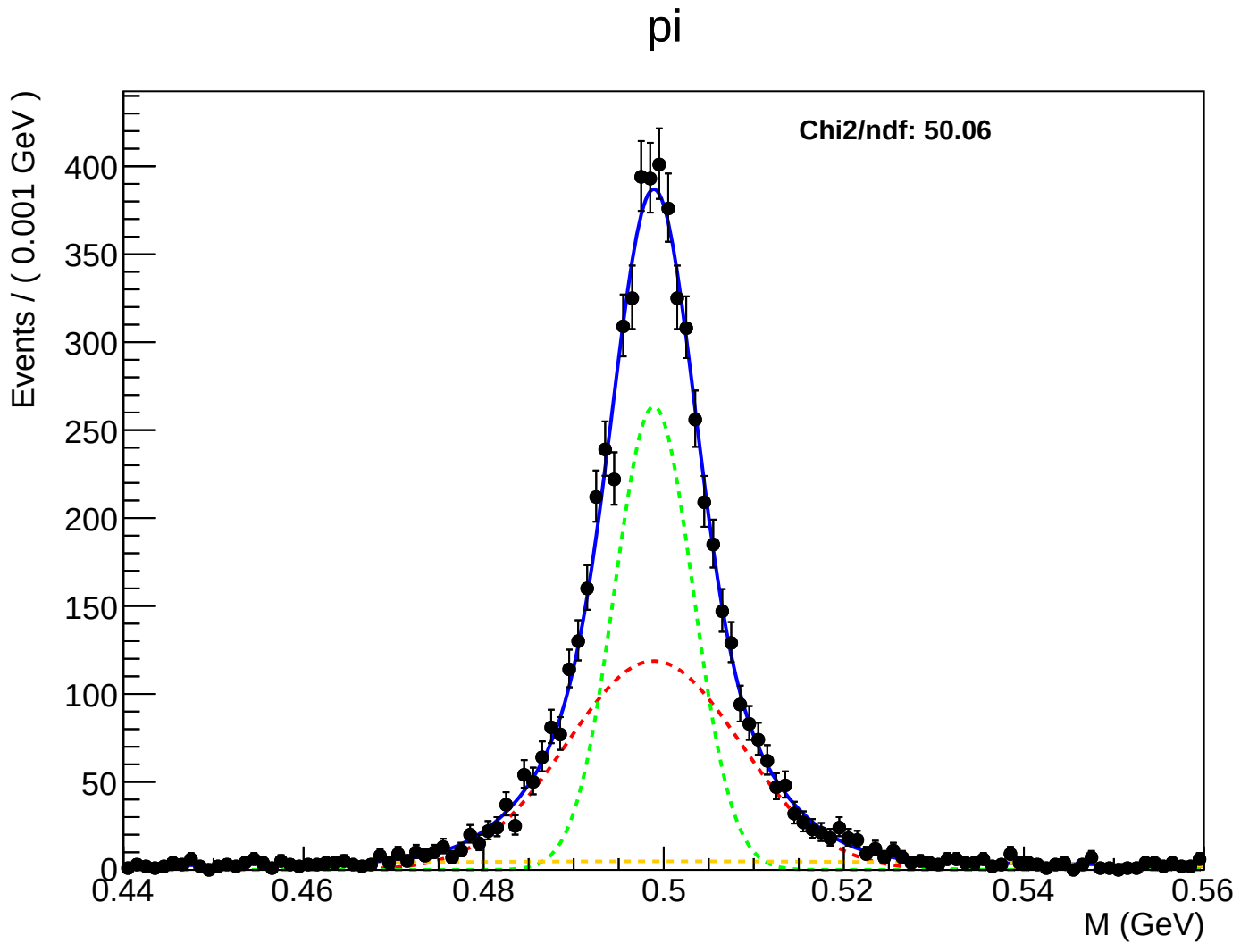

pi
Chi2/ndf: 58.32
Events / (0.001 GeV)
500
400
300
200
100
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

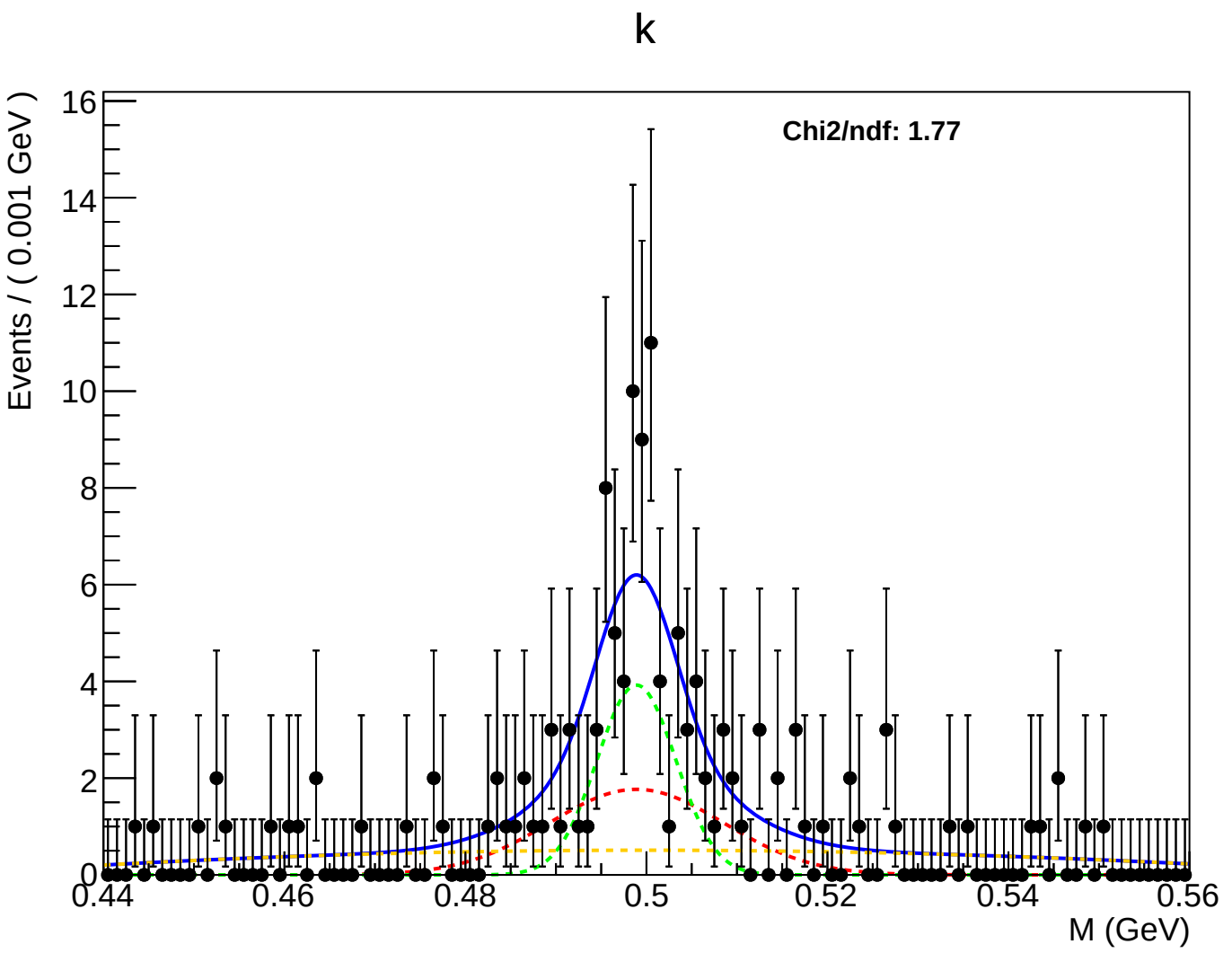

k
Chi2/ndf: 1.84
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
12
0.44
0.46
0.48
0.5
0.52
0.54
0.56

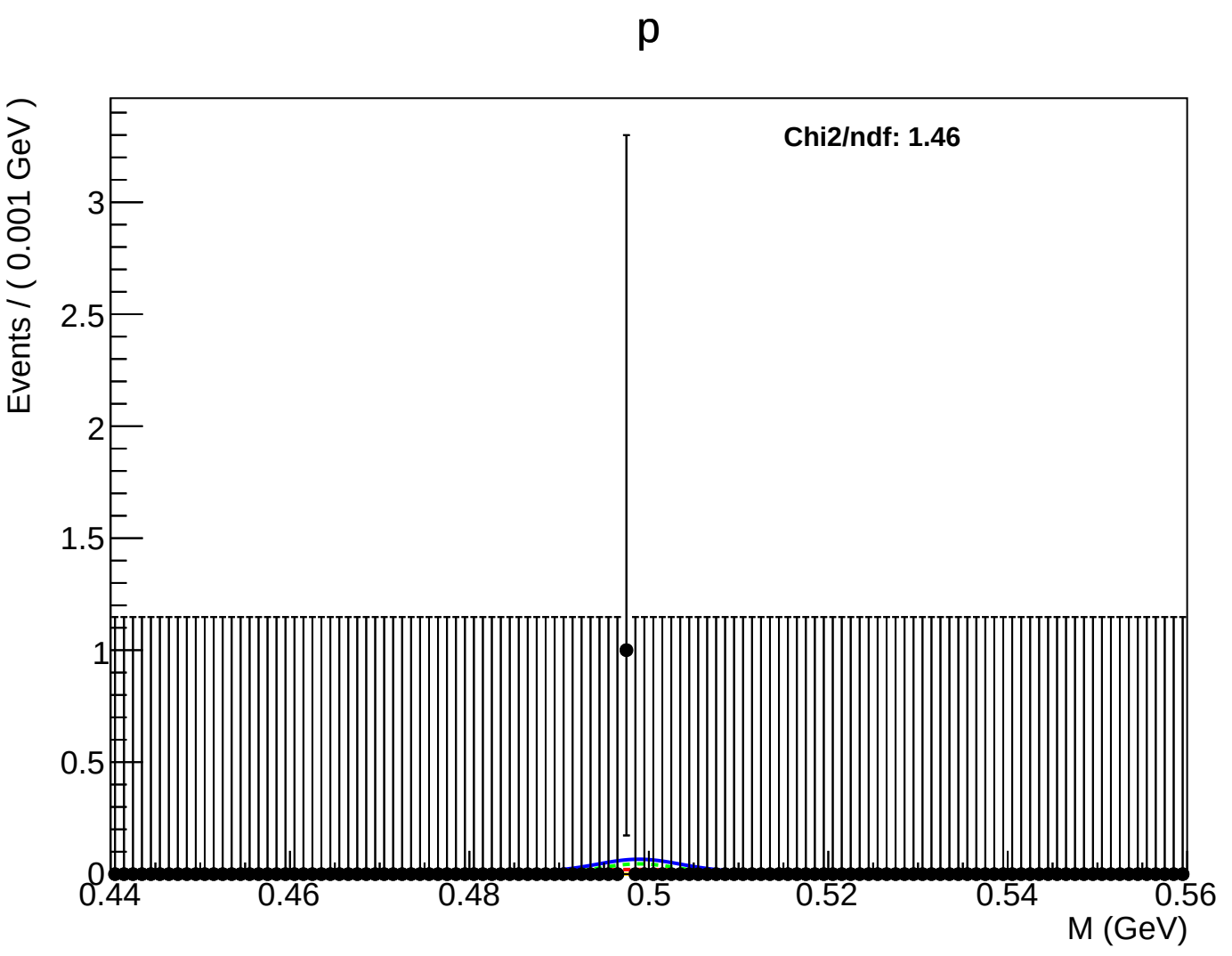

p
Chi2/ndf: nan
Events / (0.001 GeV)
1.2
1
0.8
0.6
0.4
0.2
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

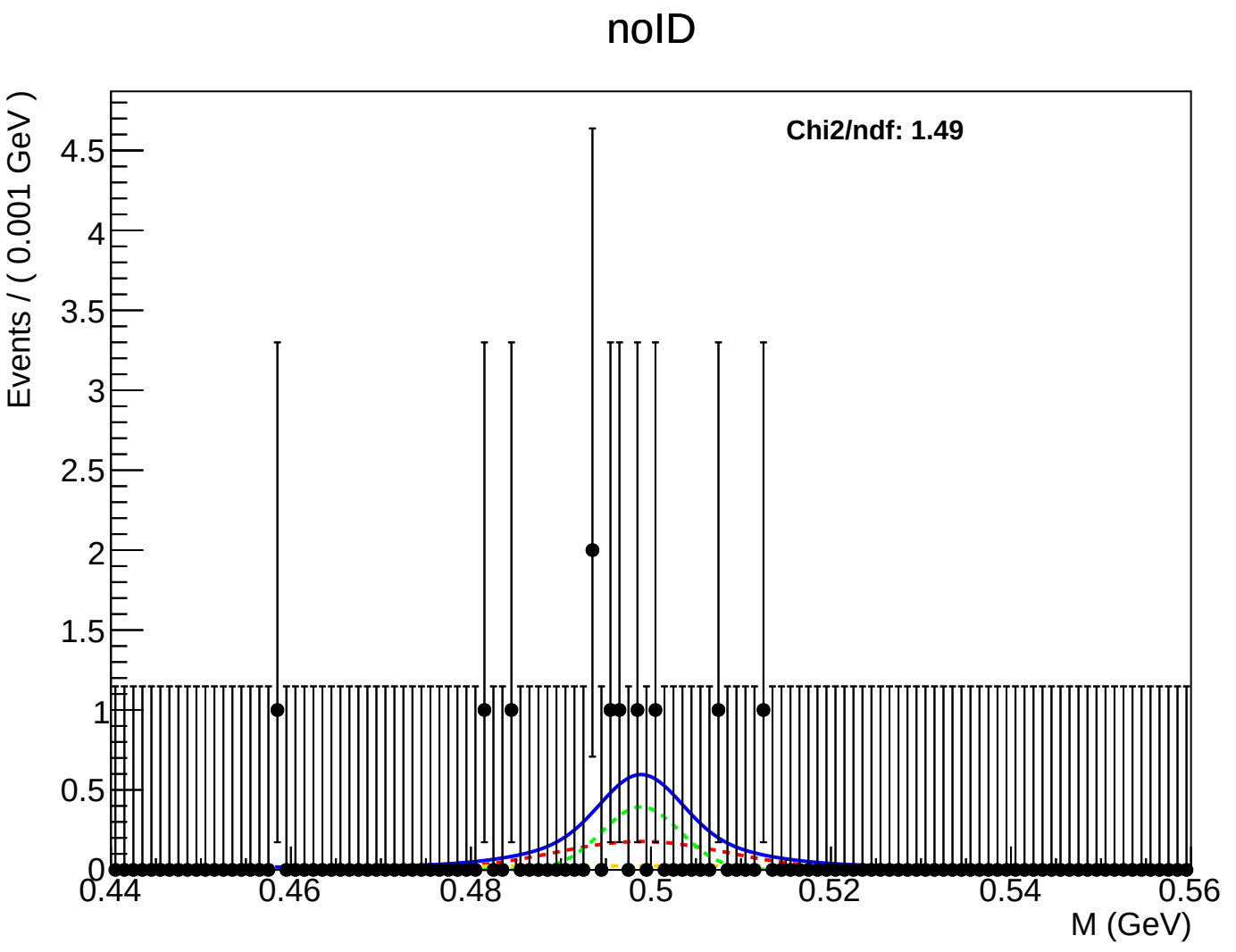

noID
Chi2/ndf: 1.45
Events / (0.001 GeV)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

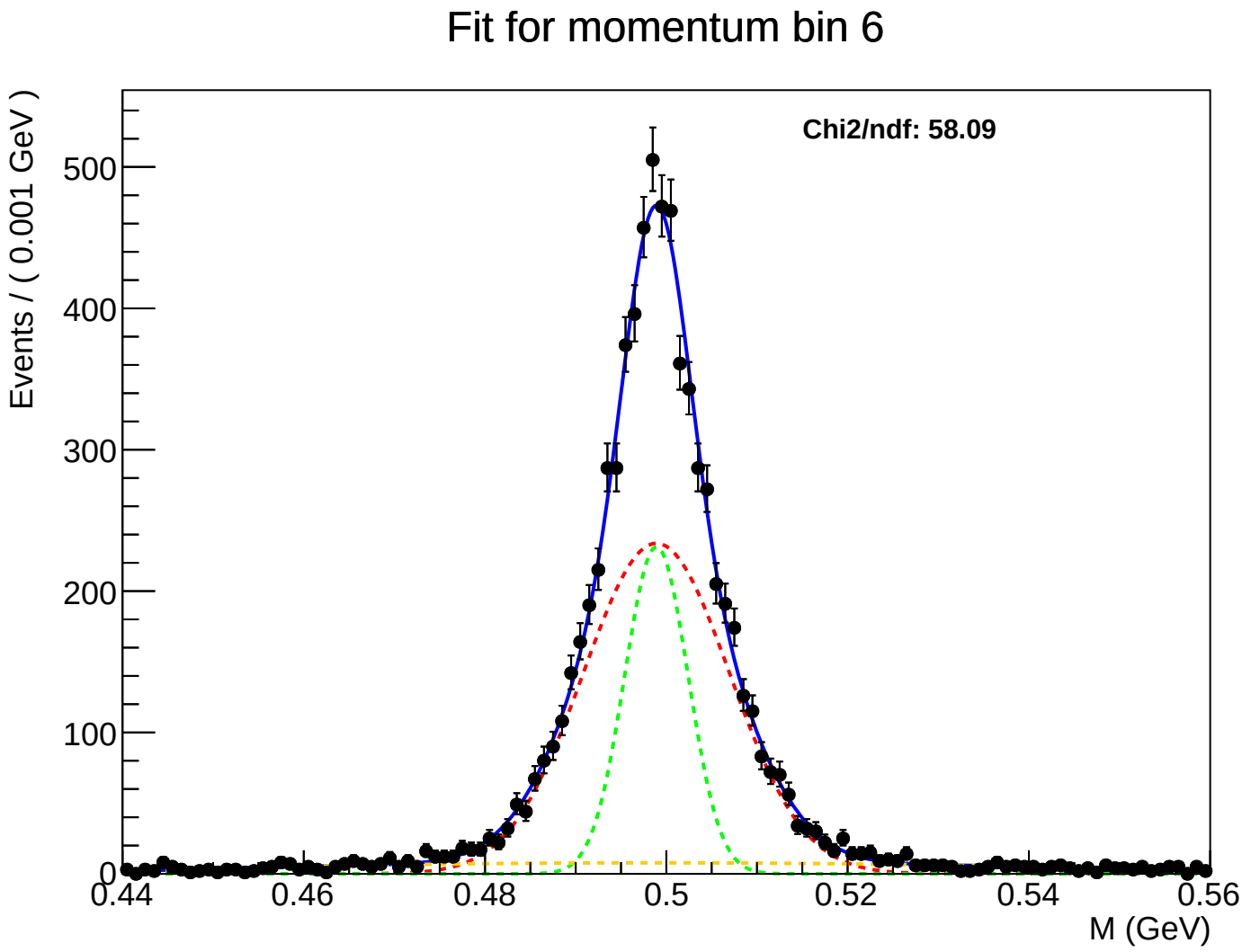

Fit for momentum bin 5
Chi2/ndf: 49.86
Events / (0.001 GeV)
M (GeV)
450
400
350
300
250
200
150
100
50
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56

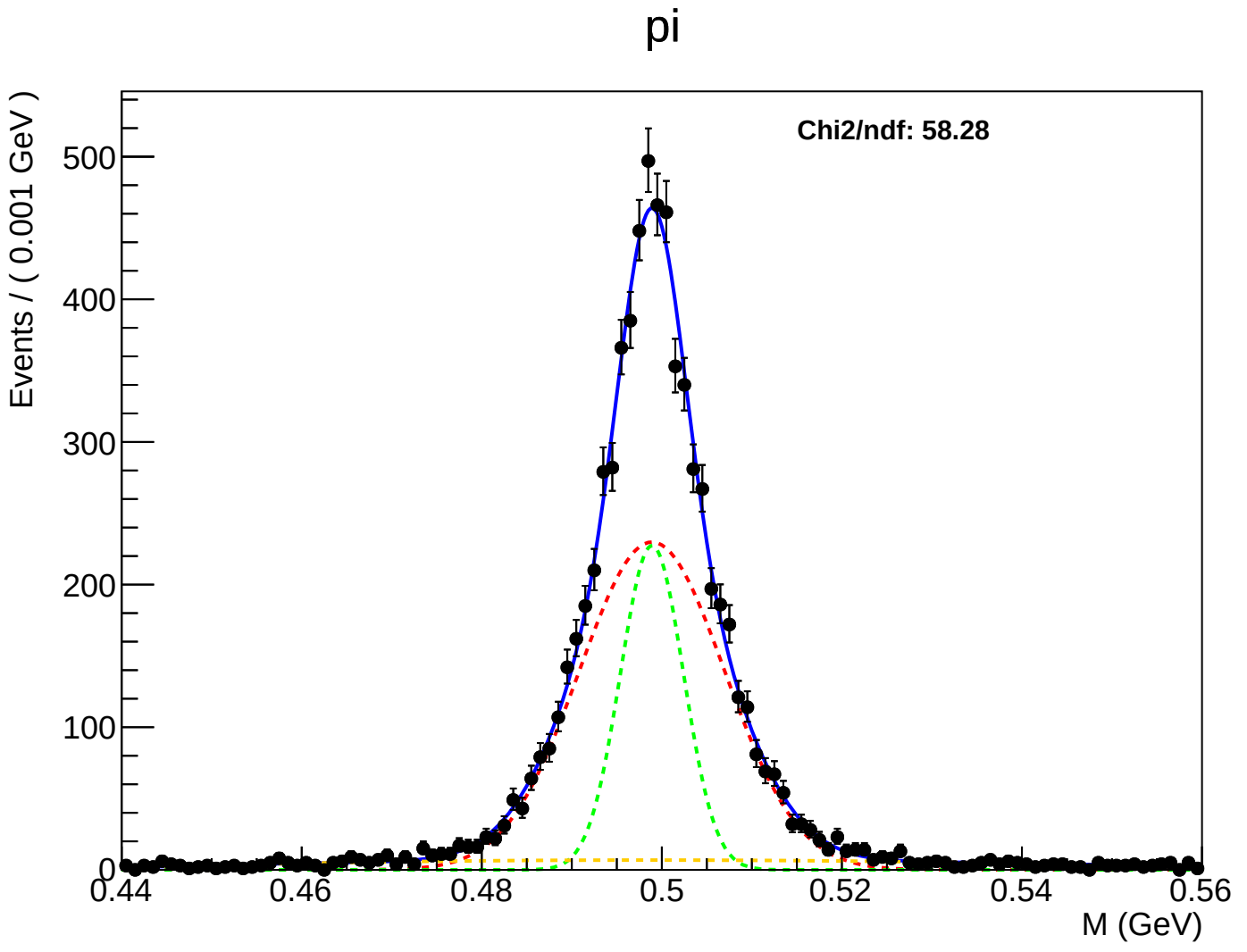

pi
Chi2/ndf: 50.06
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
300
350
400
0.44
0.46
0.48
0.5
0.52
0.54
0.56

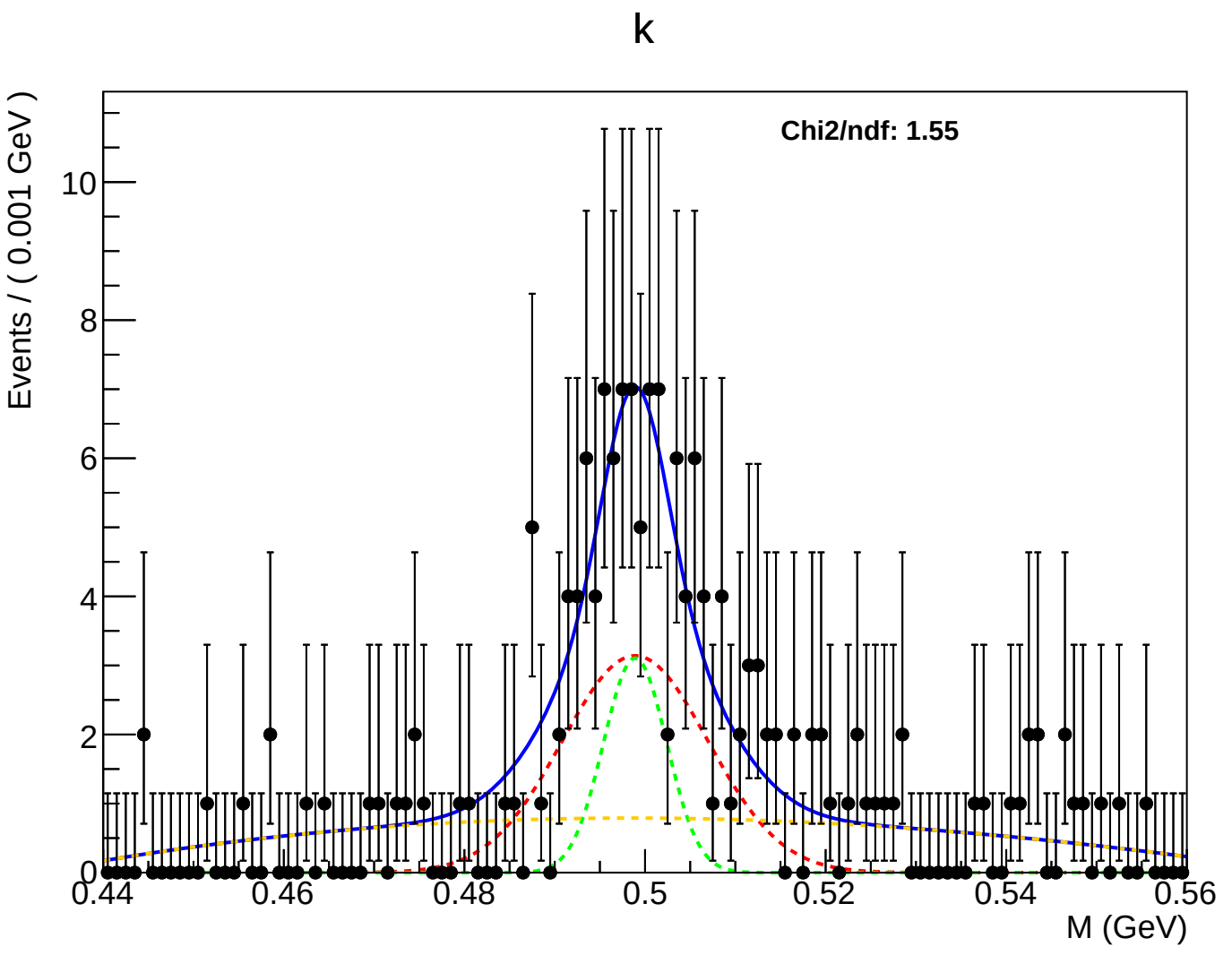

k
Chi2/ndf: 1.77
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
12
14
16
0.44
0.46
0.48
0.5
0.52
0.54
0.56

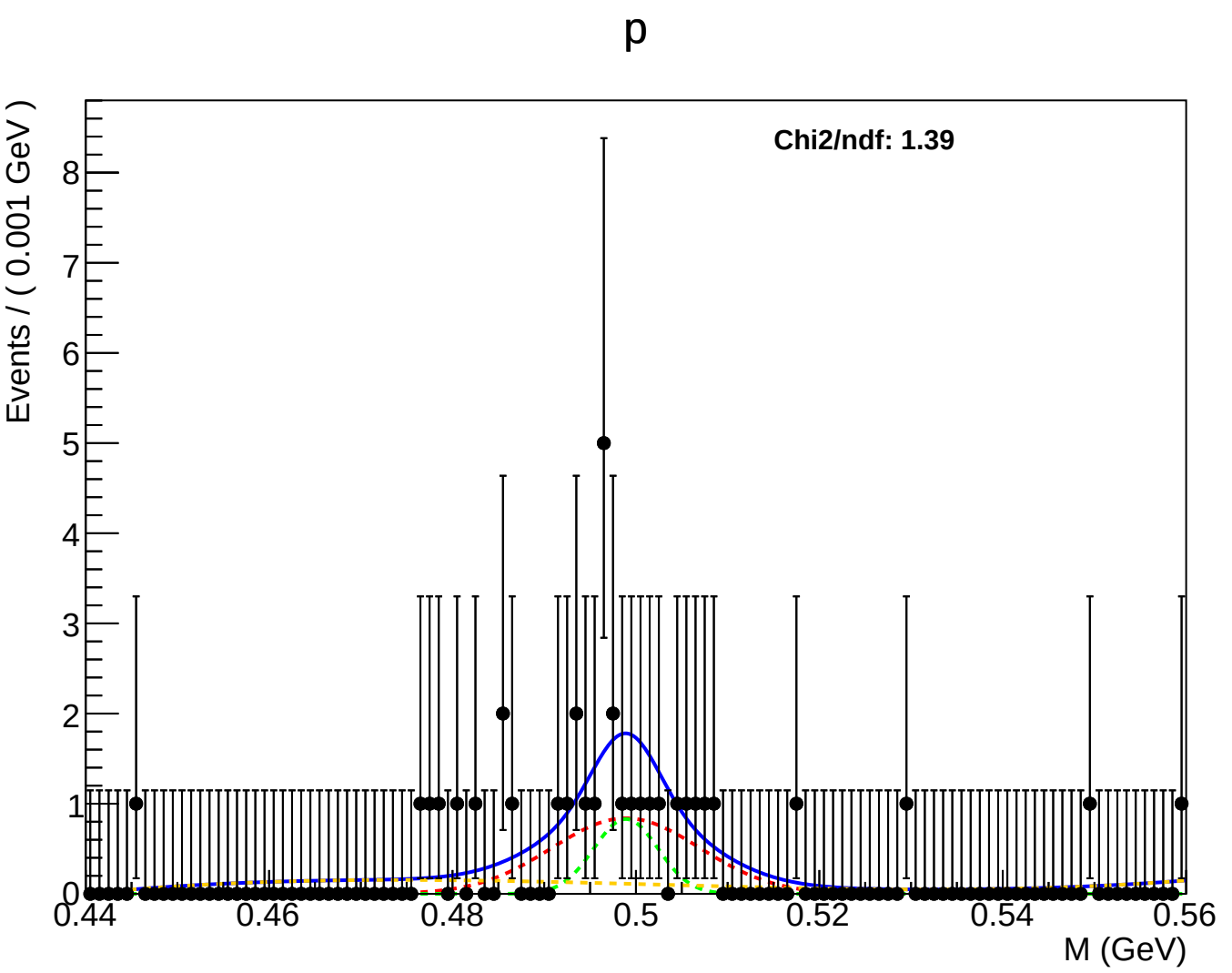

p
Chi2/ndf: 1.46
Events / (0.001 GeV)
0
0.5
1
1.5
2
2.5
3
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

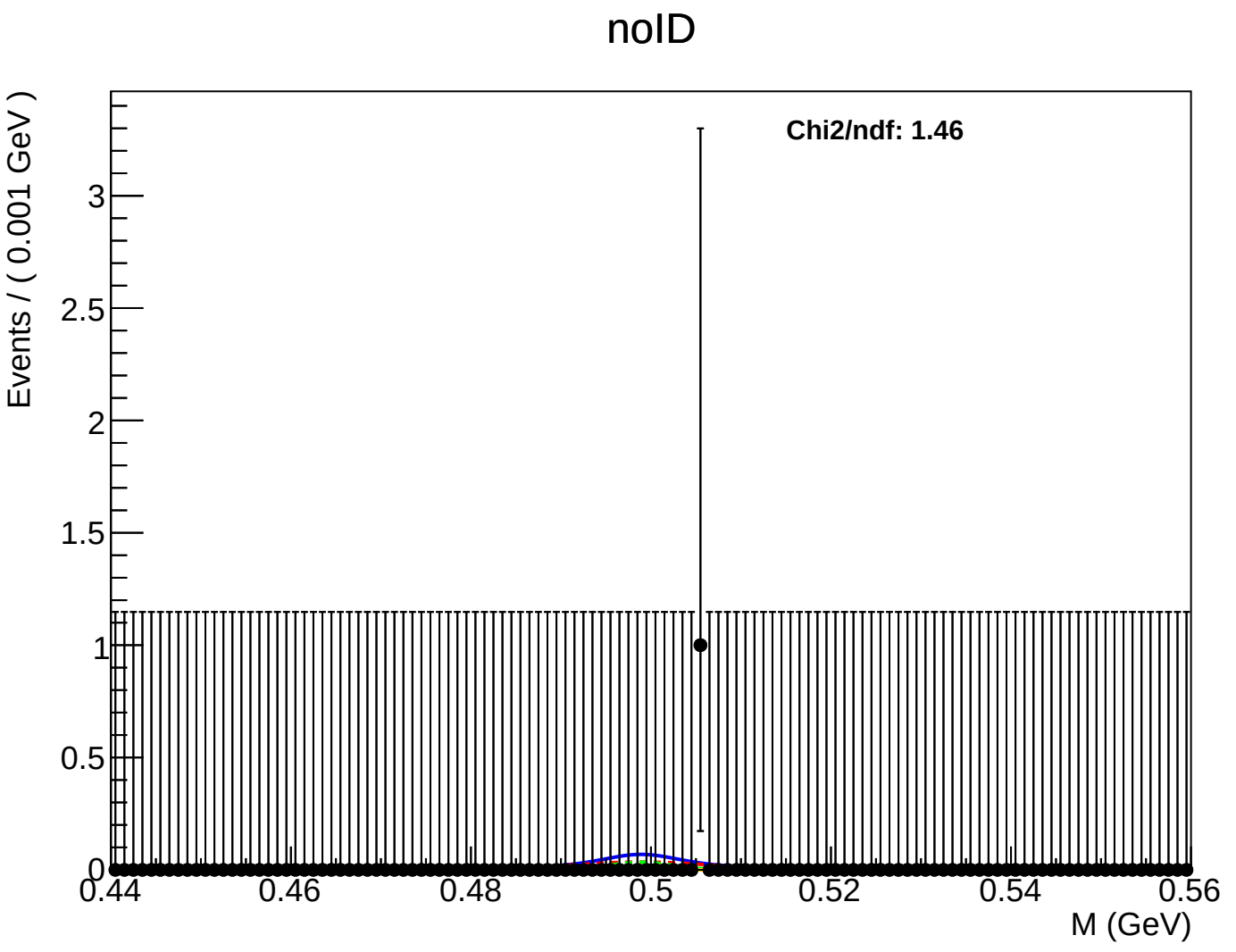

noID
Chi2/ndf: 1.49
Events / (0.001 GeV)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

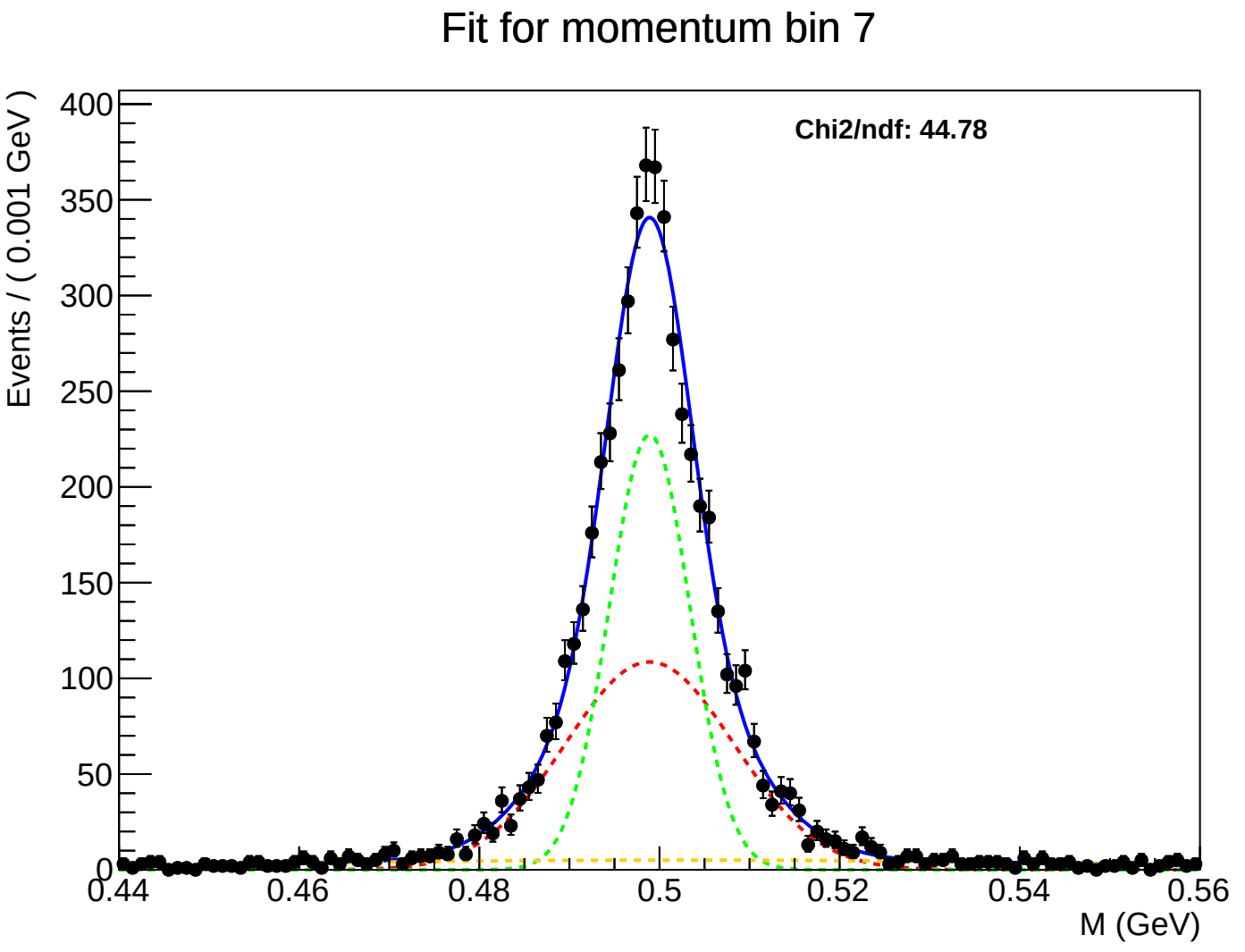

Fit for momentum bin 6
Chi2/ndf: 58.09
Events / (0.001 GeV)
M (GeV)
0
100
200
300
400
500
0.44
0.46
0.48
0.5
0.52
0.54
0.56

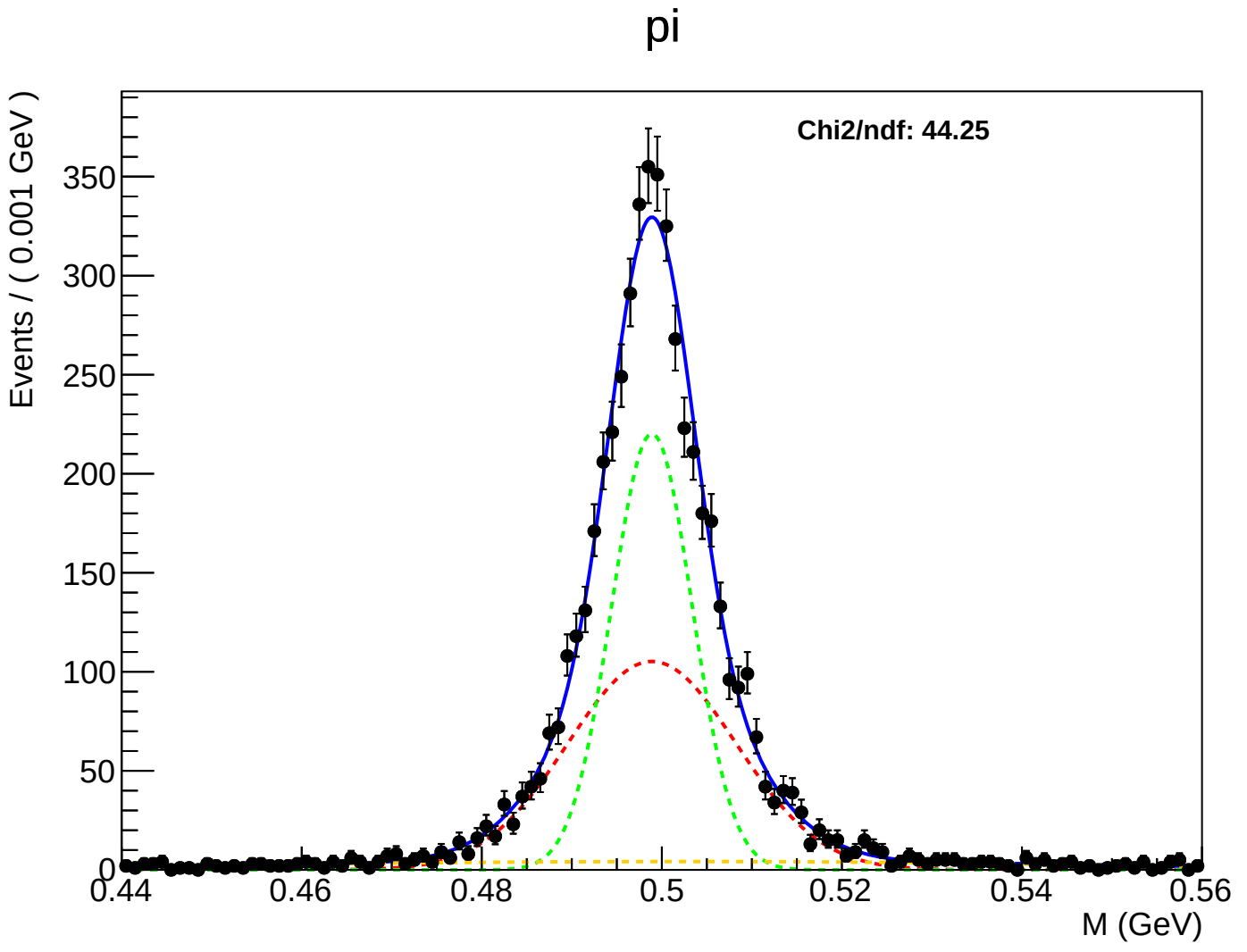

pi
Chi2/ndf: 58.28
Events / (0.001 GeV)
M (GeV)
0
100
200
300
400
500
0.44
0.46
0.48
0.5
0.52
0.54
0.56

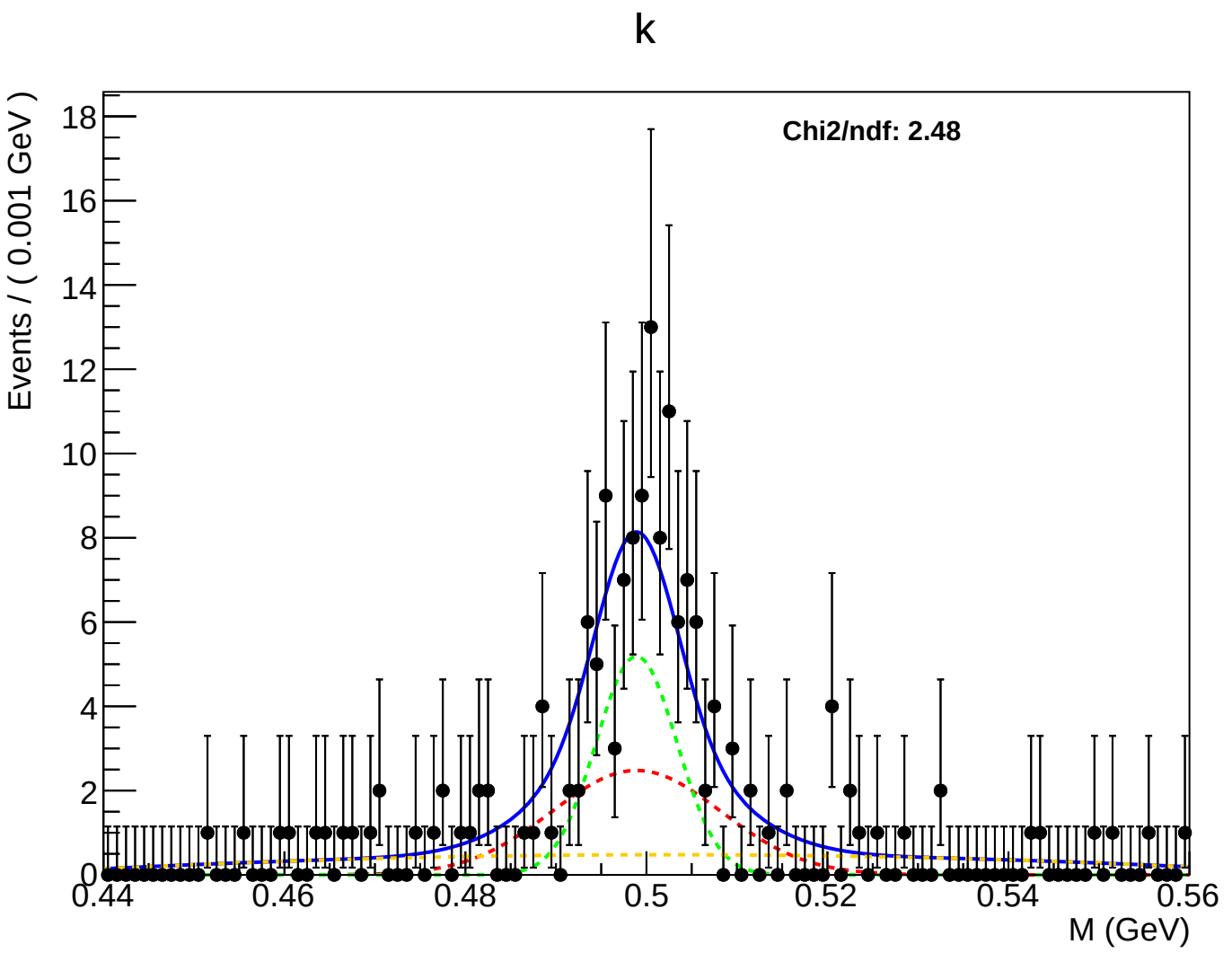

k
Chi2/ndf: 1.55
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
0.44
0.46
0.48
0.5
0.52
0.54
0.56

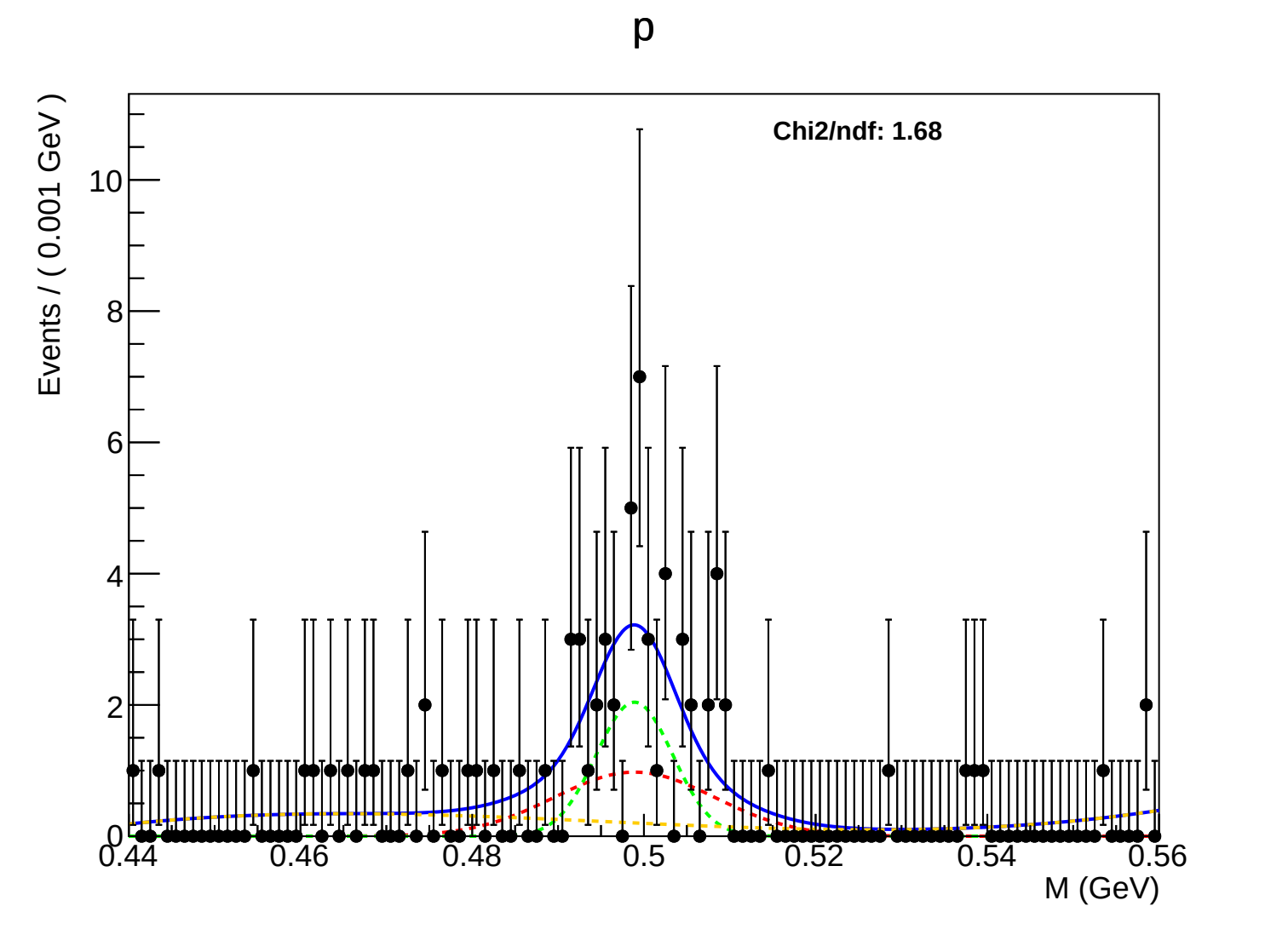

p
Chi2/ndf: 1.39
Events / (0.001 GeV)
0
1
2
3
4
5
6
7
8
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

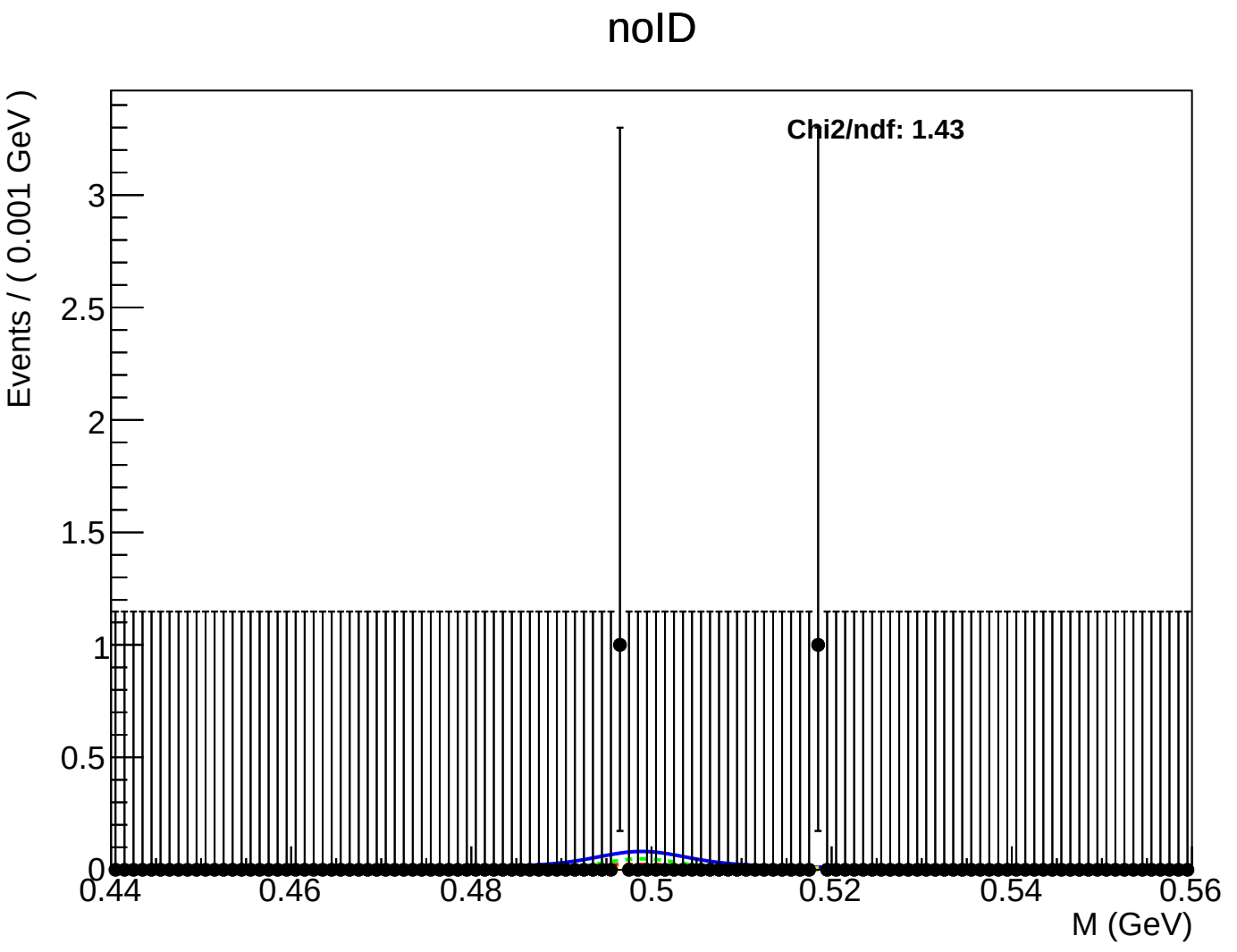

noID
Chi2/ndf: 1.46
Events / (0.001 GeV)
0
0.5
1
1.5
2
2.5
3
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

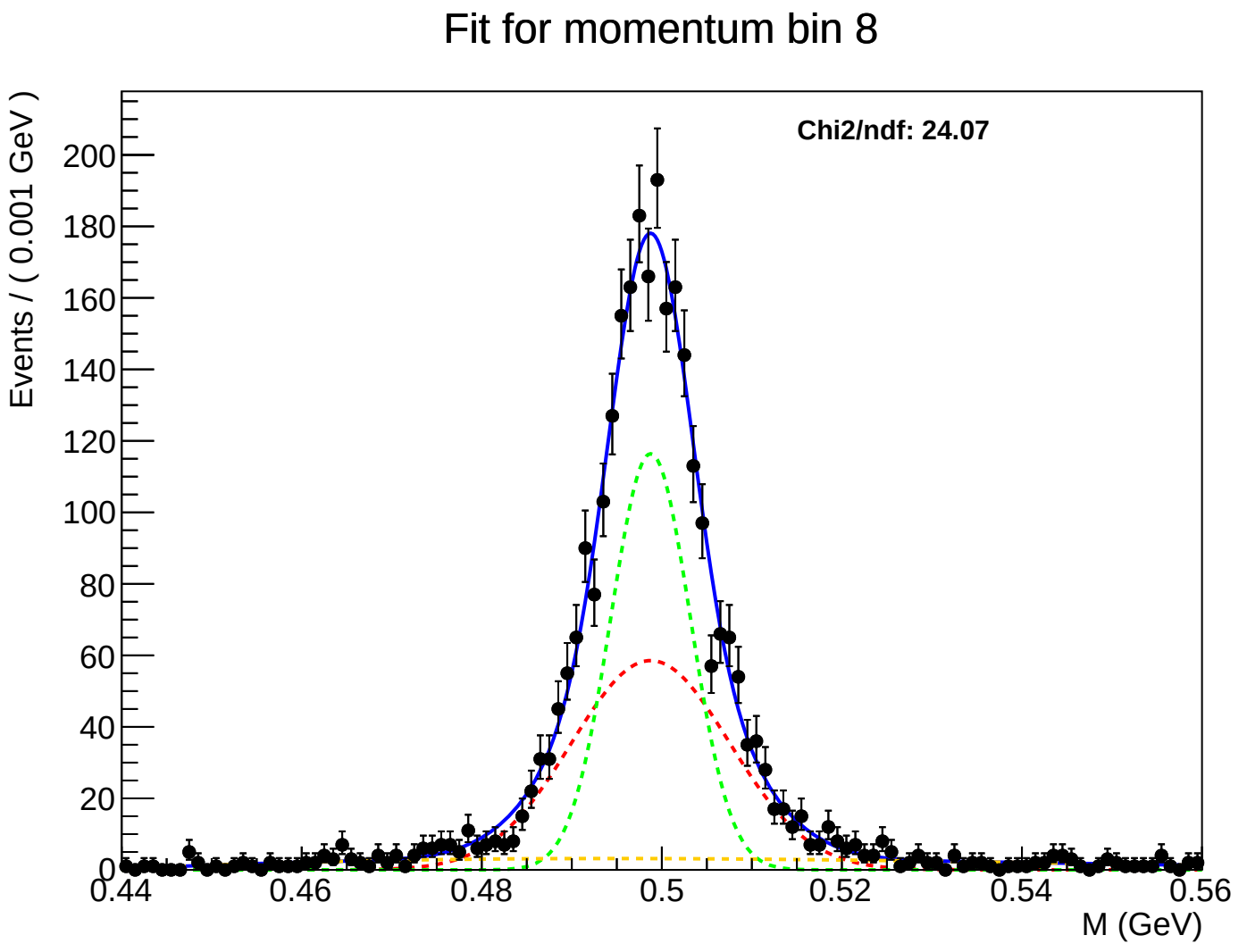

Fit for momentum bin 7
Chi2/ndf: 44.78
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
300
350
400
0.44
0.46
0.48
0.5
0.52
0.54
0.56

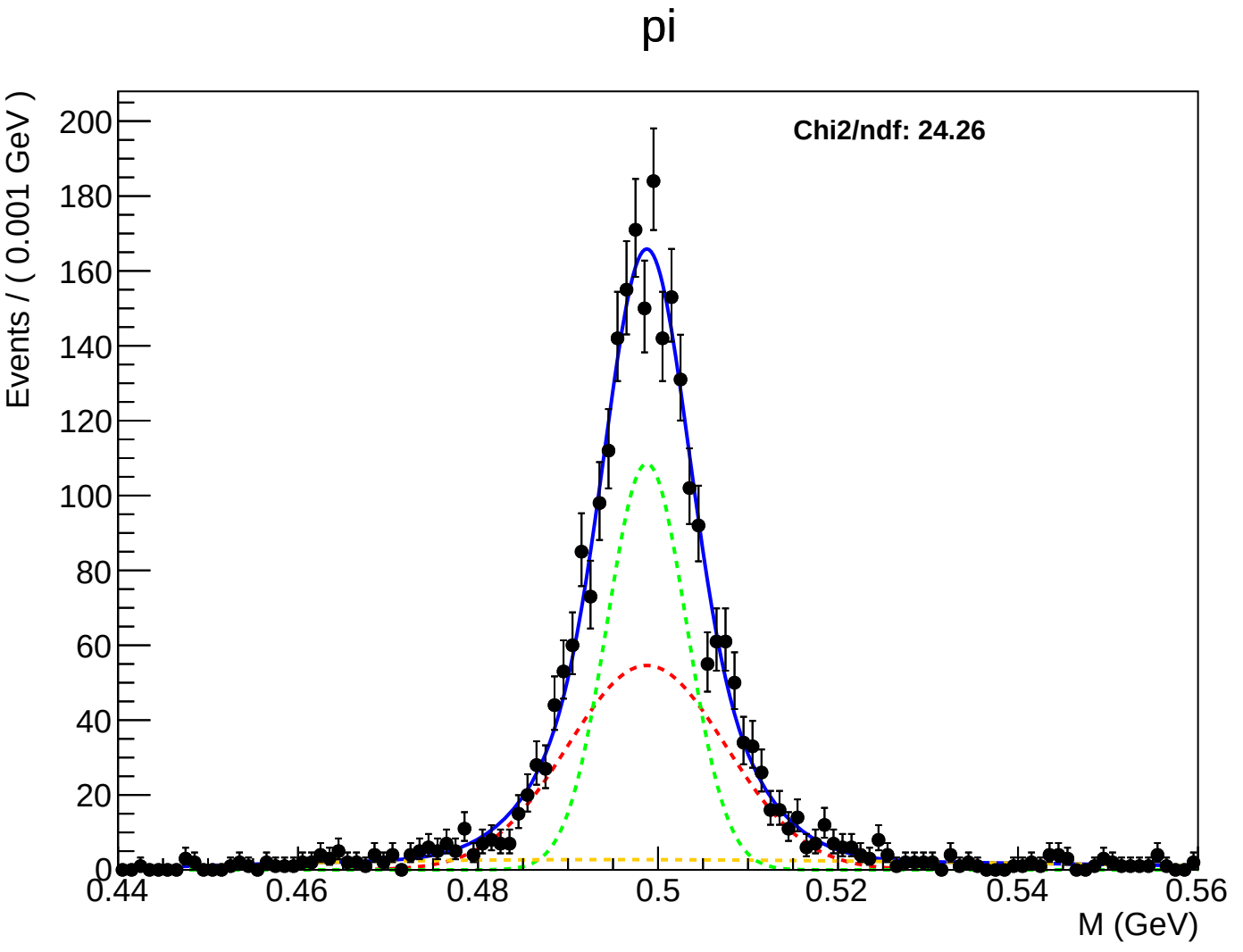

pi
Chi2/ndf: 44.25
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
300
350
0.44
0.46
0.48
0.5
0.52
0.54
0.56

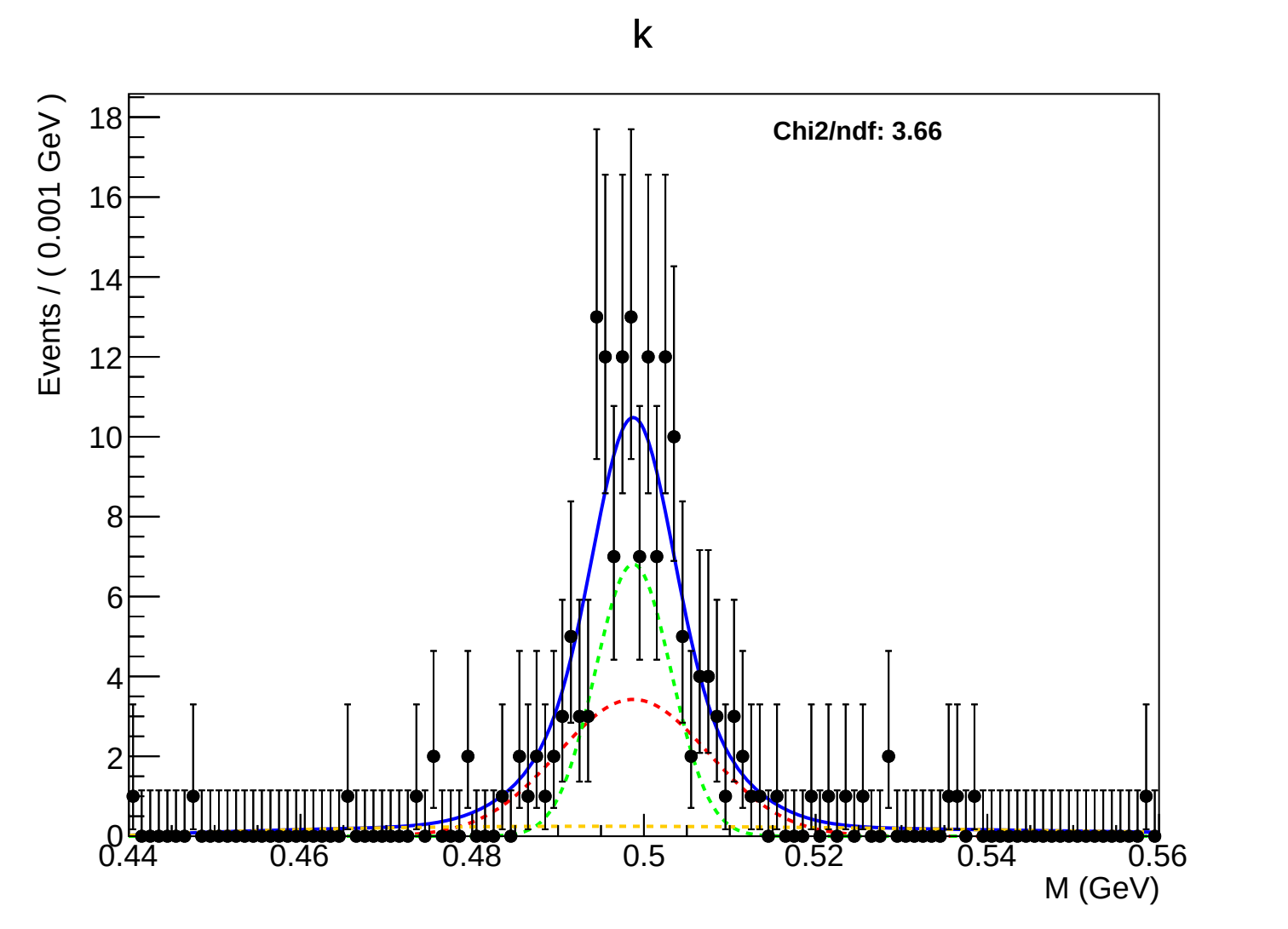

k
Chi2/ndf: 2.48
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
12
14
16
18
0.44
0.46
0.48
0.5
0.52
0.54
0.56

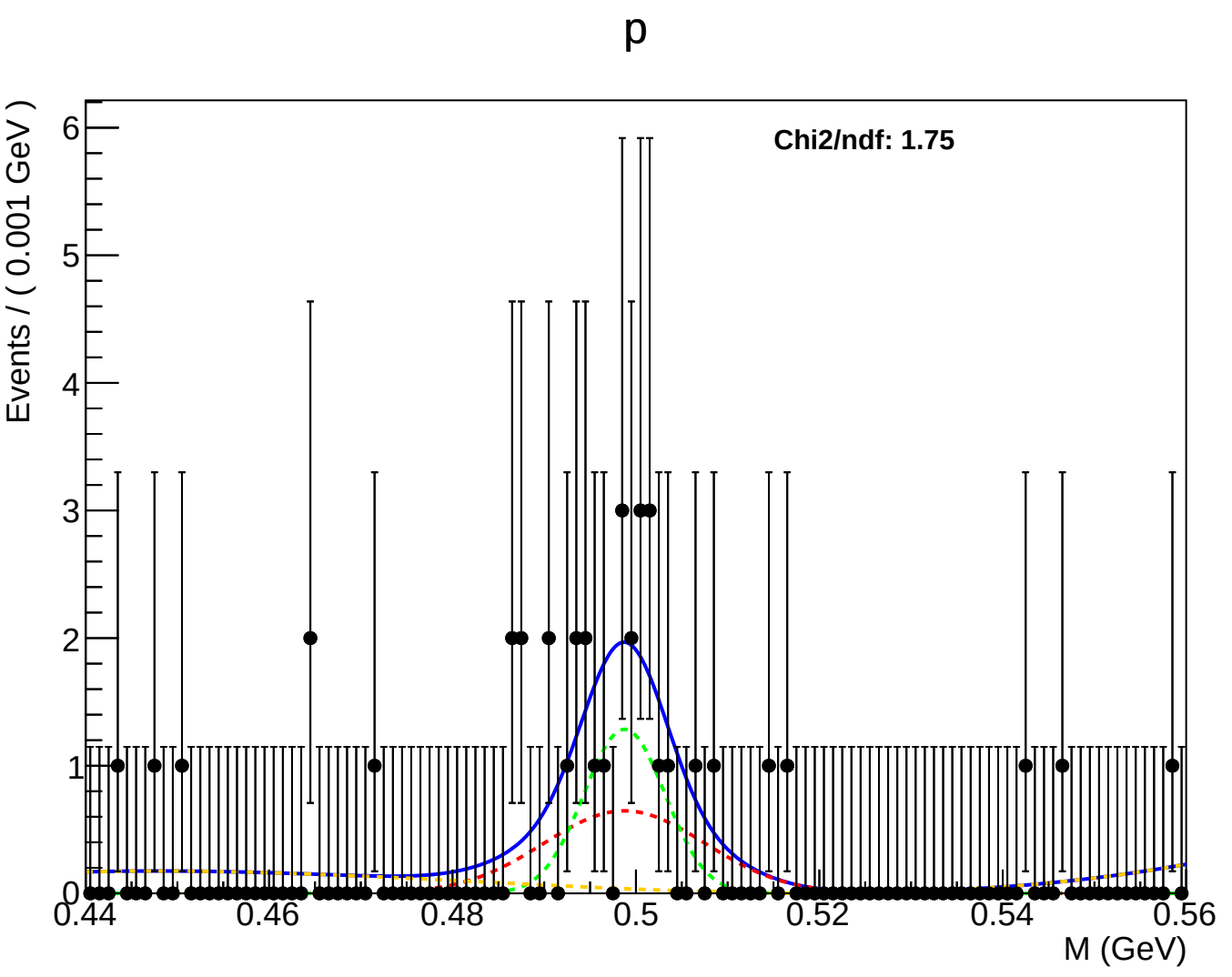

p
Chi2/ndf: 1.68
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
0.44
0.46
0.48
0.5
0.52
0.54
0.56

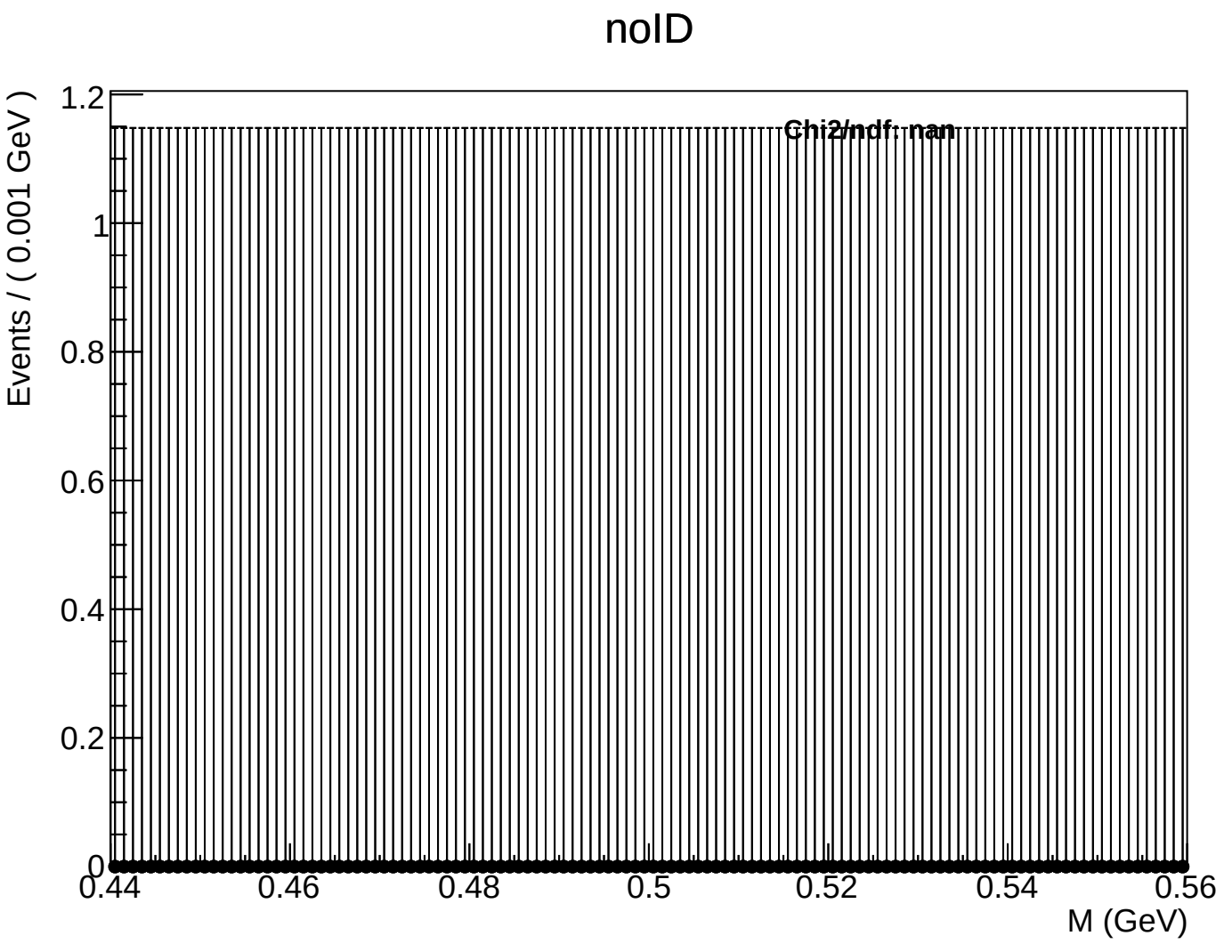

noID
Chi2/ndf: 1.43
Events / (0.001 GeV)
0
0.5
1
1.5
2
2.5
3
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

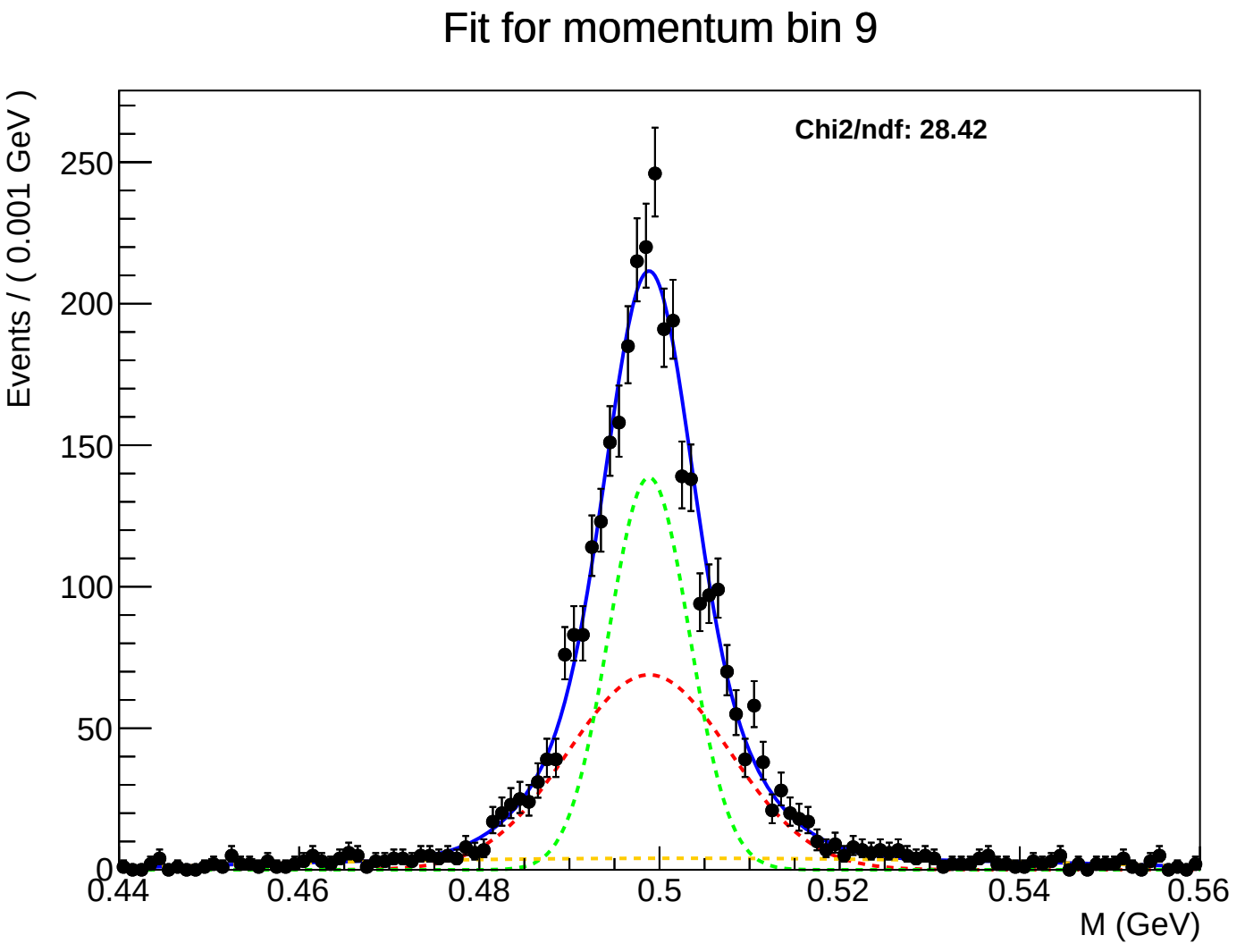

Fit for momentum bin 8
Chi2/ndf: 24.07
Events / (0.001 GeV)
M (GeV)
0
20
40
60
80
100
120
140
160
180
200
0.44
0.46
0.48
0.5
0.52
0.54
0.56

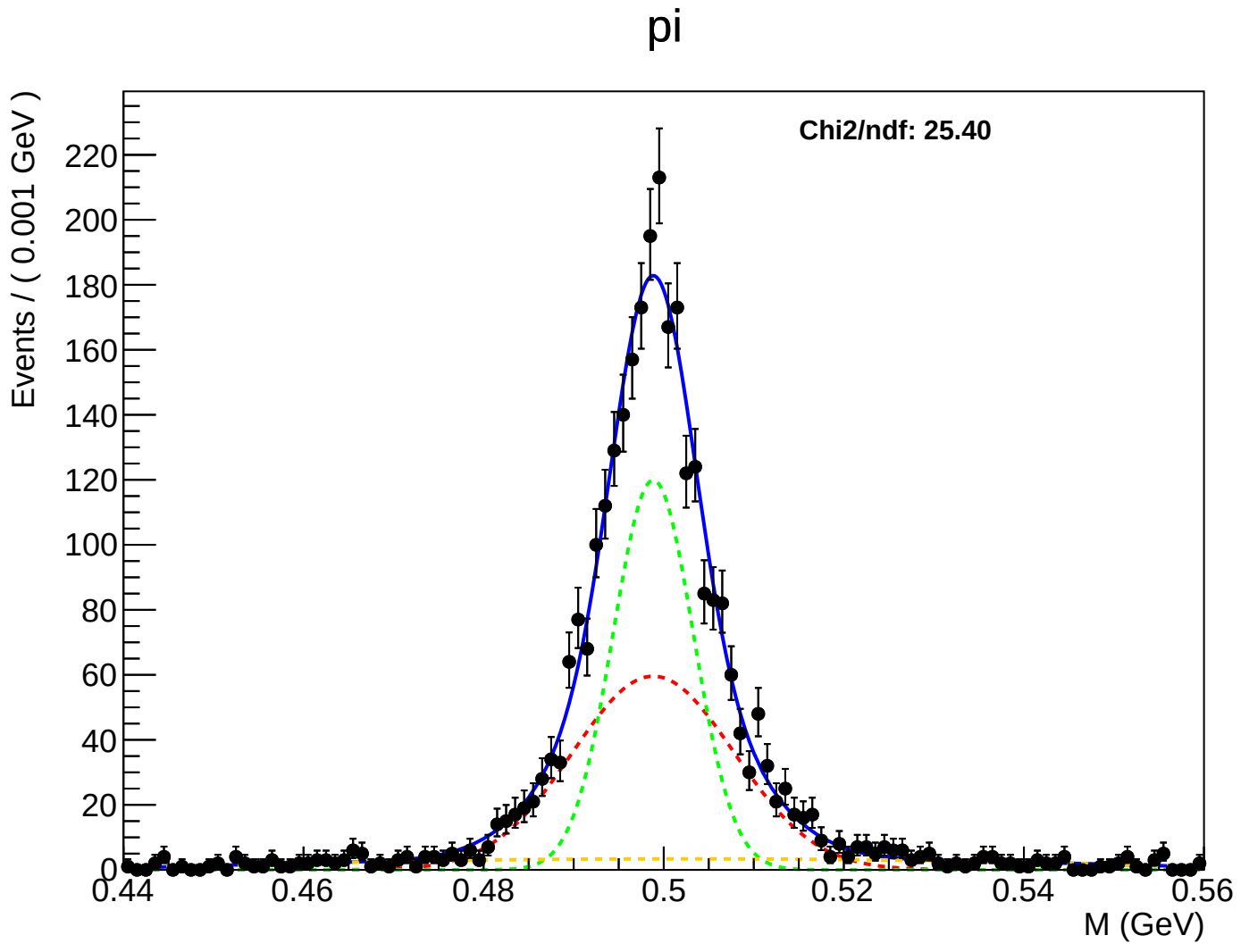

pi
Chi2/ndf: 24.26
Events / (0.001 GeV)
M (GeV)
0
20
40
60
80
100
120
140
160
180
200
0.44
0.46
0.48
0.5
0.52
0.54
0.56

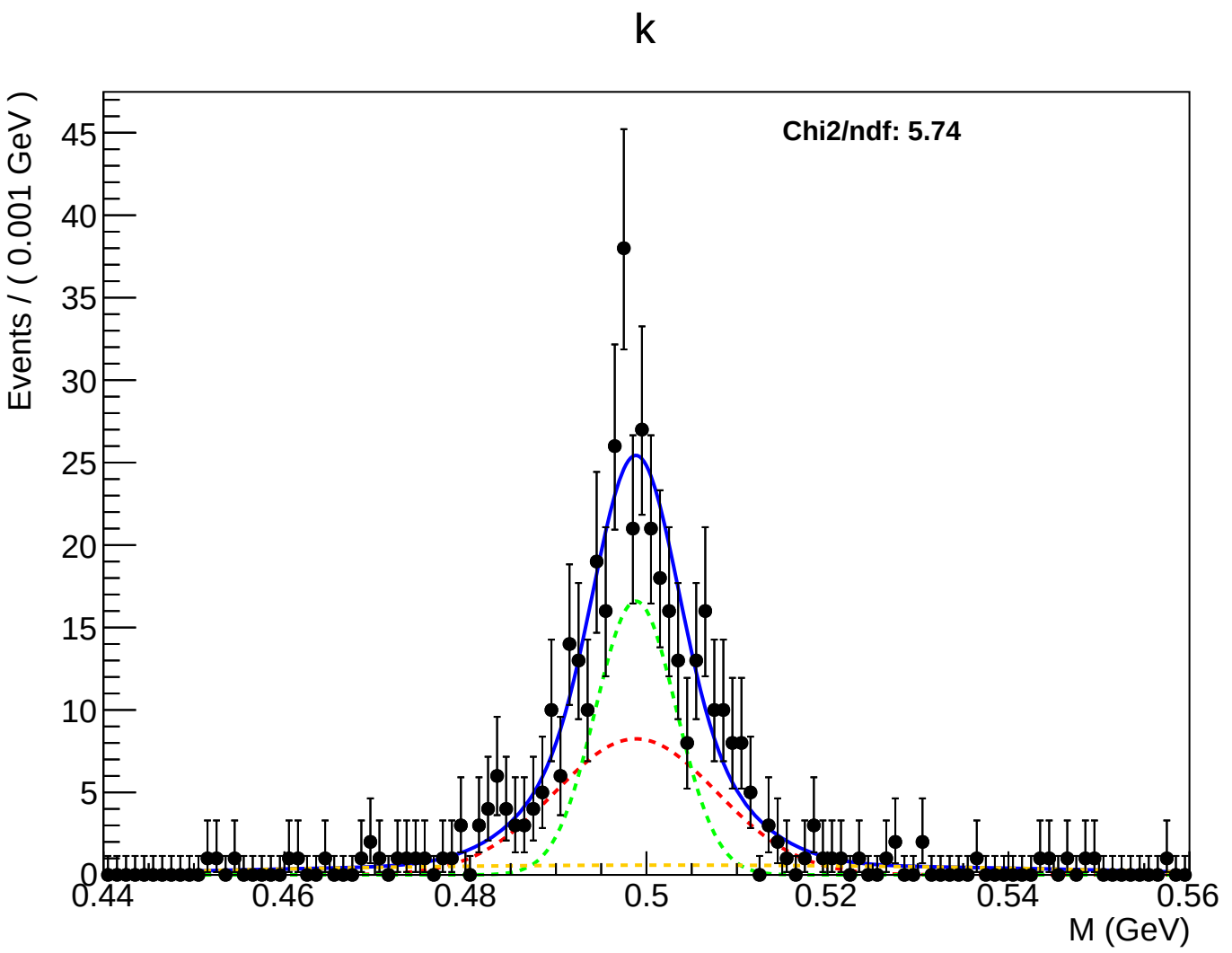

k
Chi2/ndf: 3.66
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
12
14
16
18
0.44
0.46
0.48
0.5
0.52
0.54
0.56

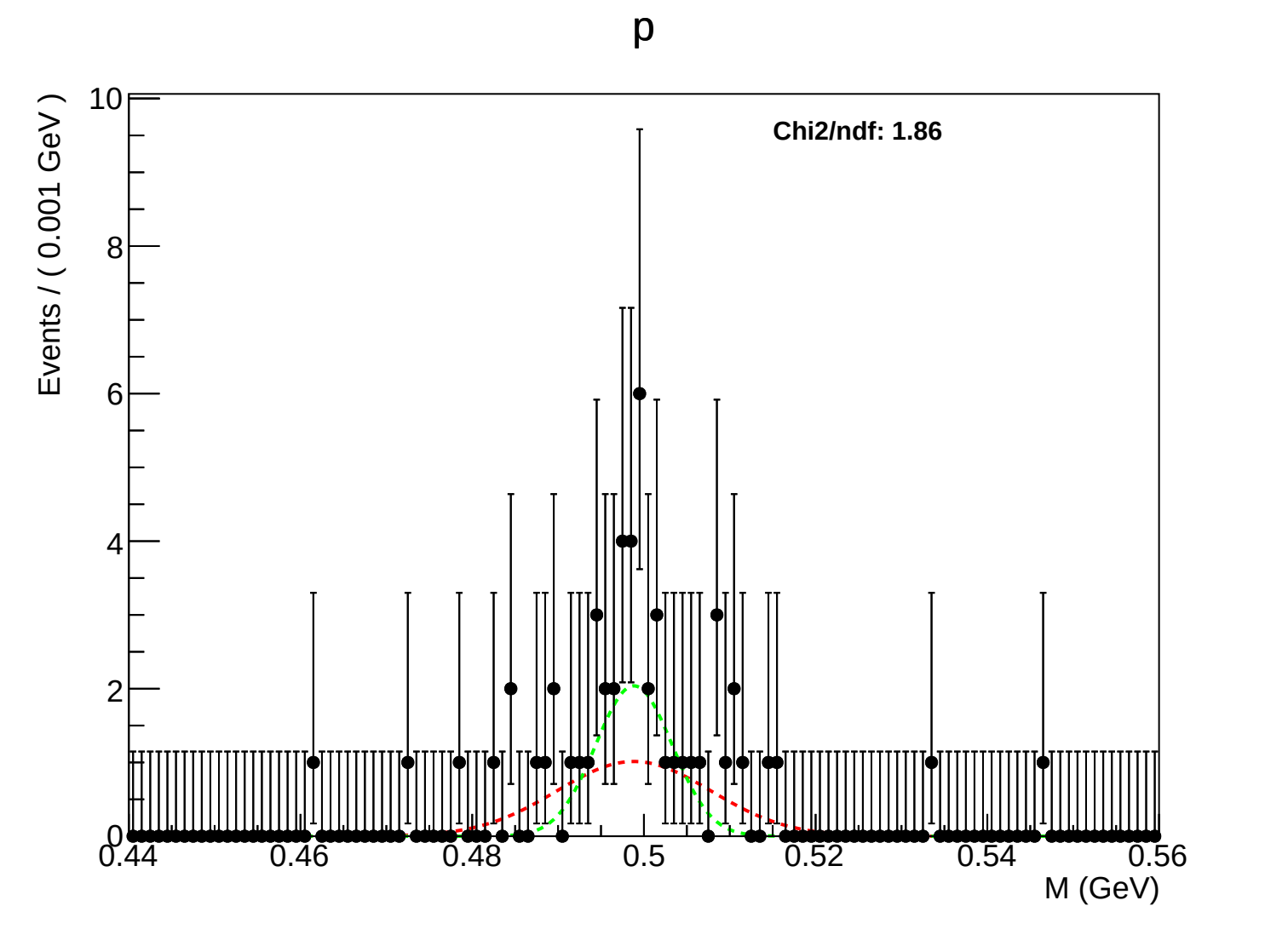

p
Chi2/ndf: 1.75
Events / (0.001 GeV)
M (GeV)
0
1
2
3
4
5
6
0.44
0.46
0.48
0.5
0.52
0.54
0.56

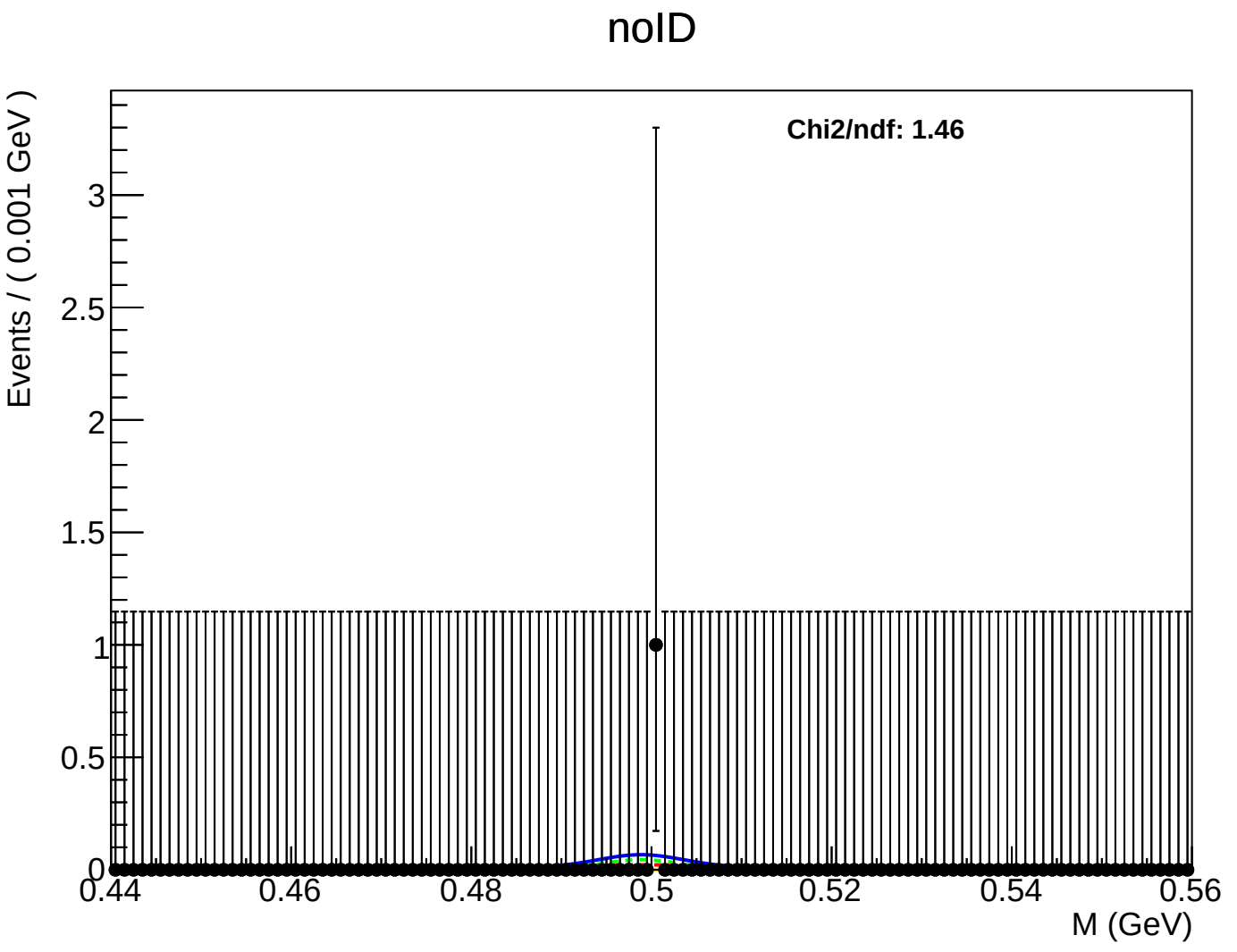

noID
Chi2/ndf: nan
Events / (0.001 GeV)
1.2
1
0.8
0.6
0.4
0.2
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

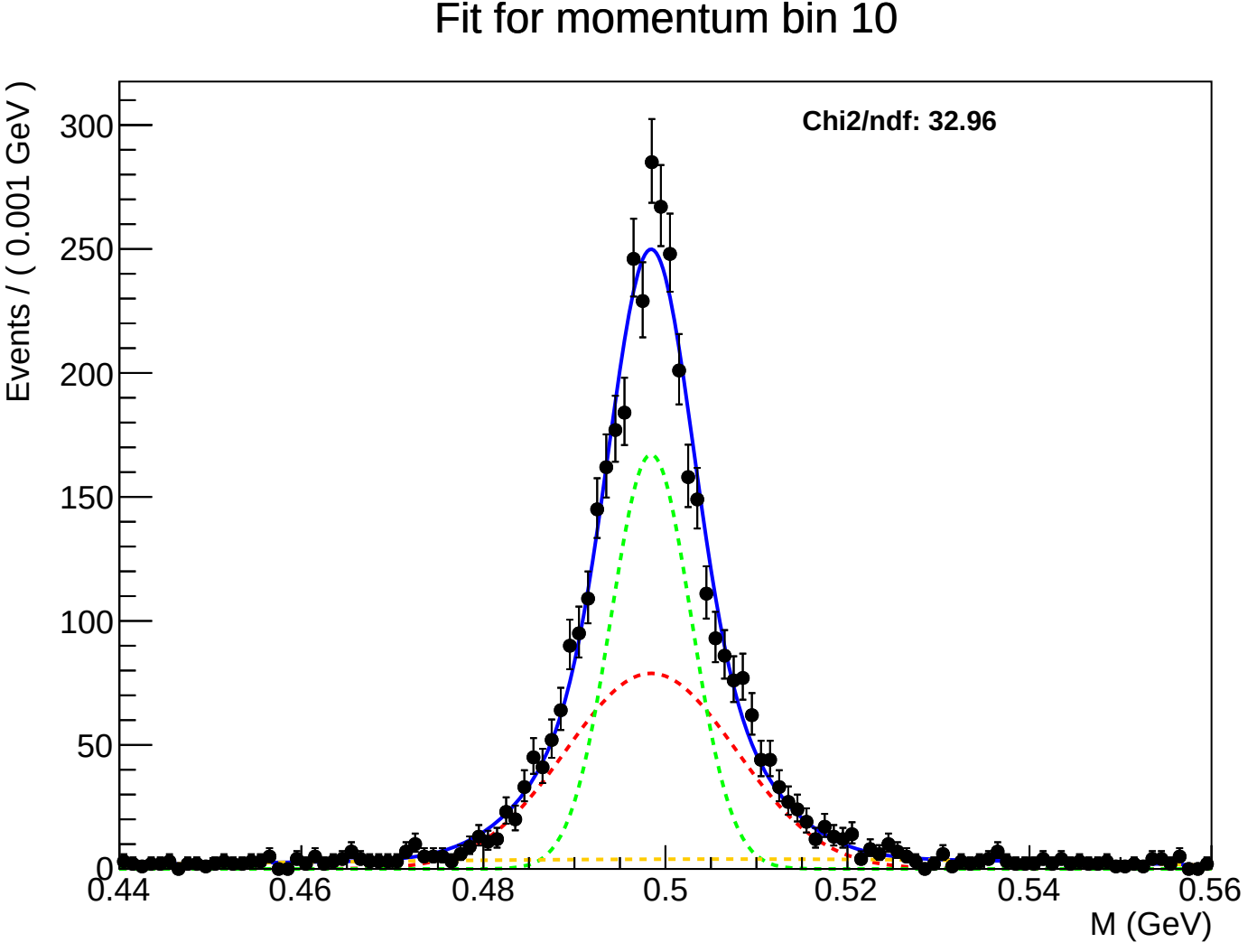

Fit for momentum bin 9
Chi2/ndf: 28.42
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
0.44
0.46
0.48
0.5
0.52
0.54
0.56

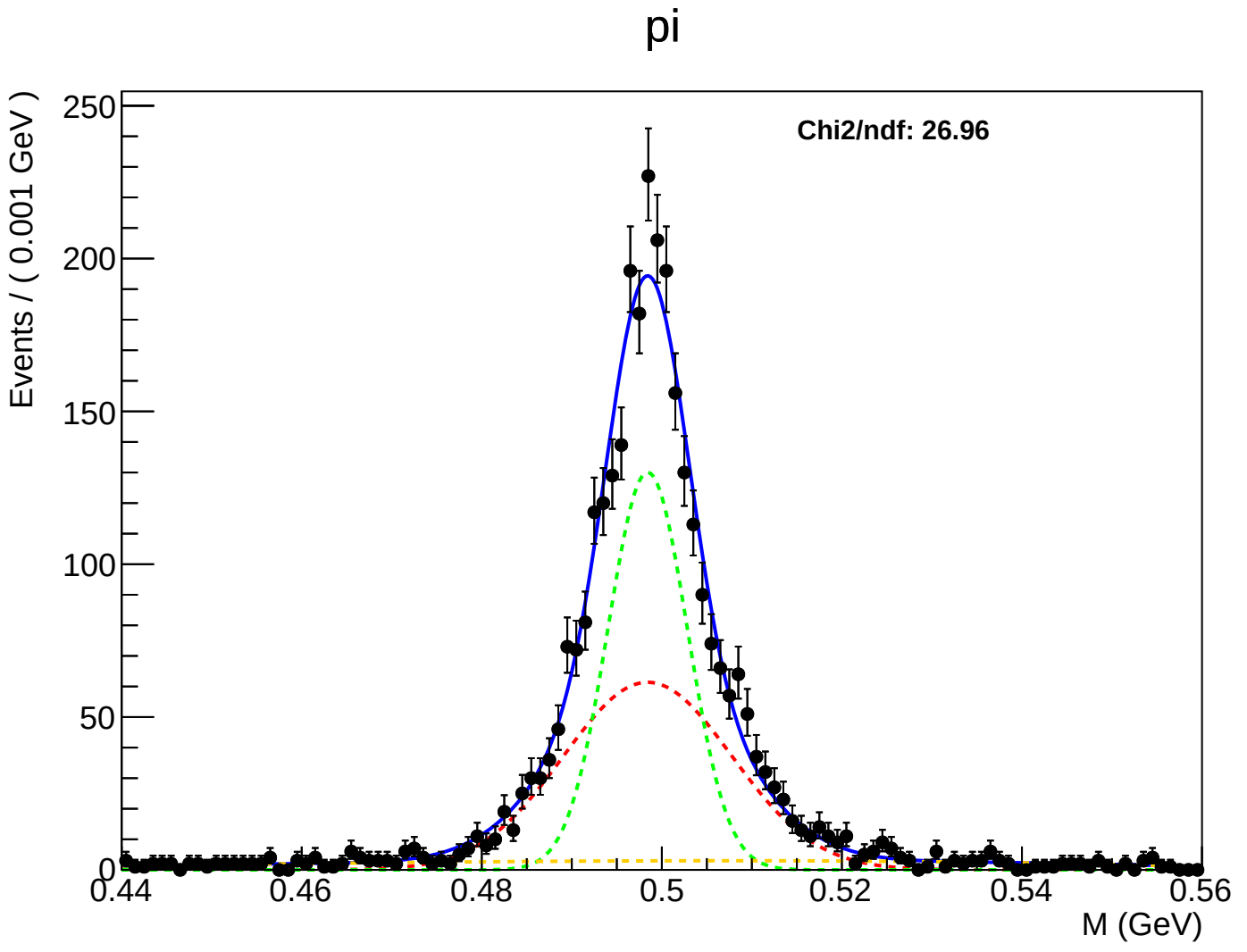

pi
Chi2/ndf: 25.40
Events / (0.001 GeV)
M (GeV)
0
20
40
60
80
100
120
140
160
180
200
220
0.44
0.46
0.48
0.5
0.52
0.54
0.56

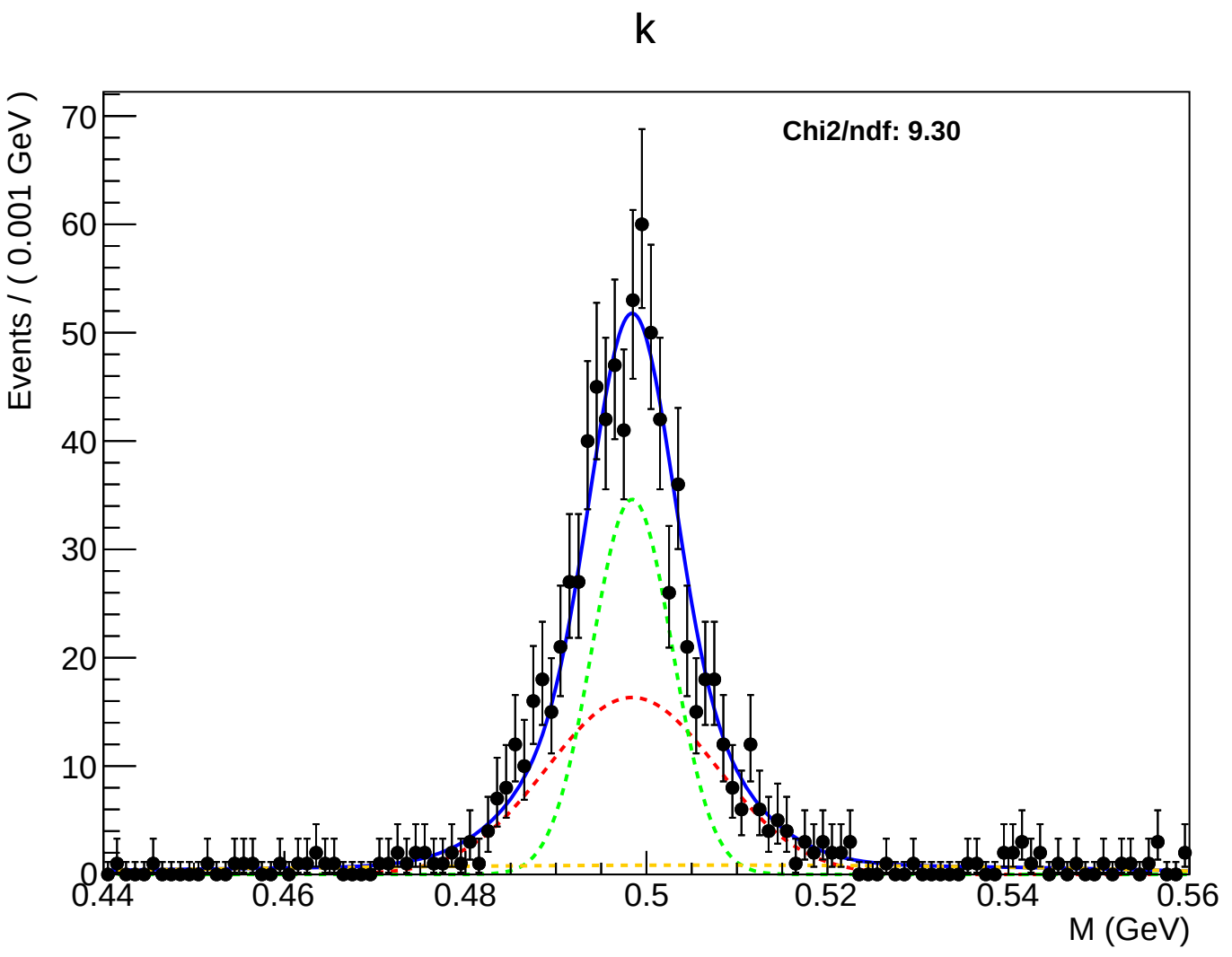

k
Chi2/ndf: 5.74
Events / (0.001 GeV)
M (GeV)
0
5
10
15
20
25
30
35
40
45
0.44
0.46
0.48
0.5
0.52
0.54
0.56

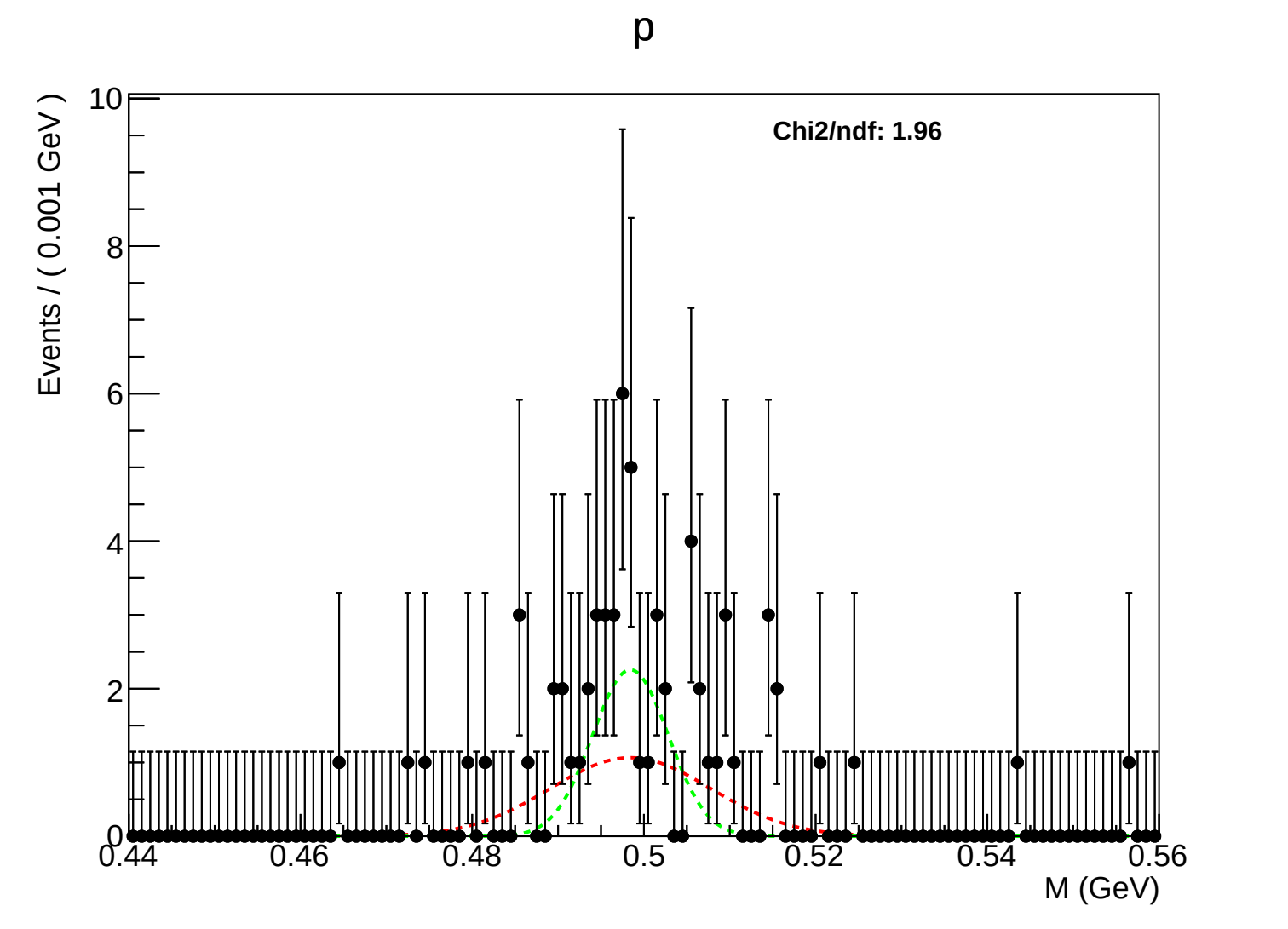

p
Chi2/ndf: 1.86
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
0.44
0.46
0.48
0.5
0.52
0.54
0.56

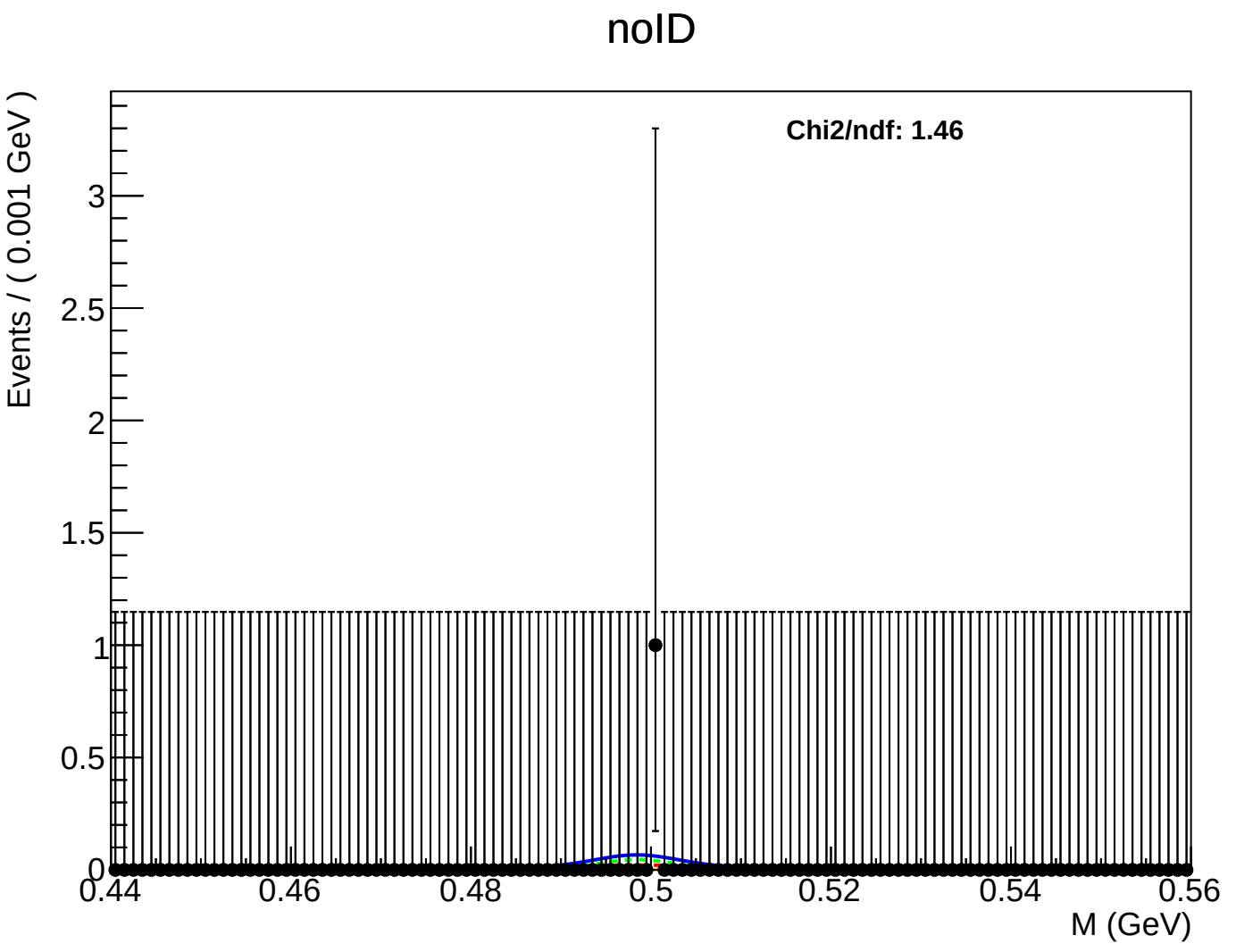

noID
Chi2/ndf: 1.46
Events / (0.001 GeV)
0
0.5
1
1.5
2
2.5
3
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

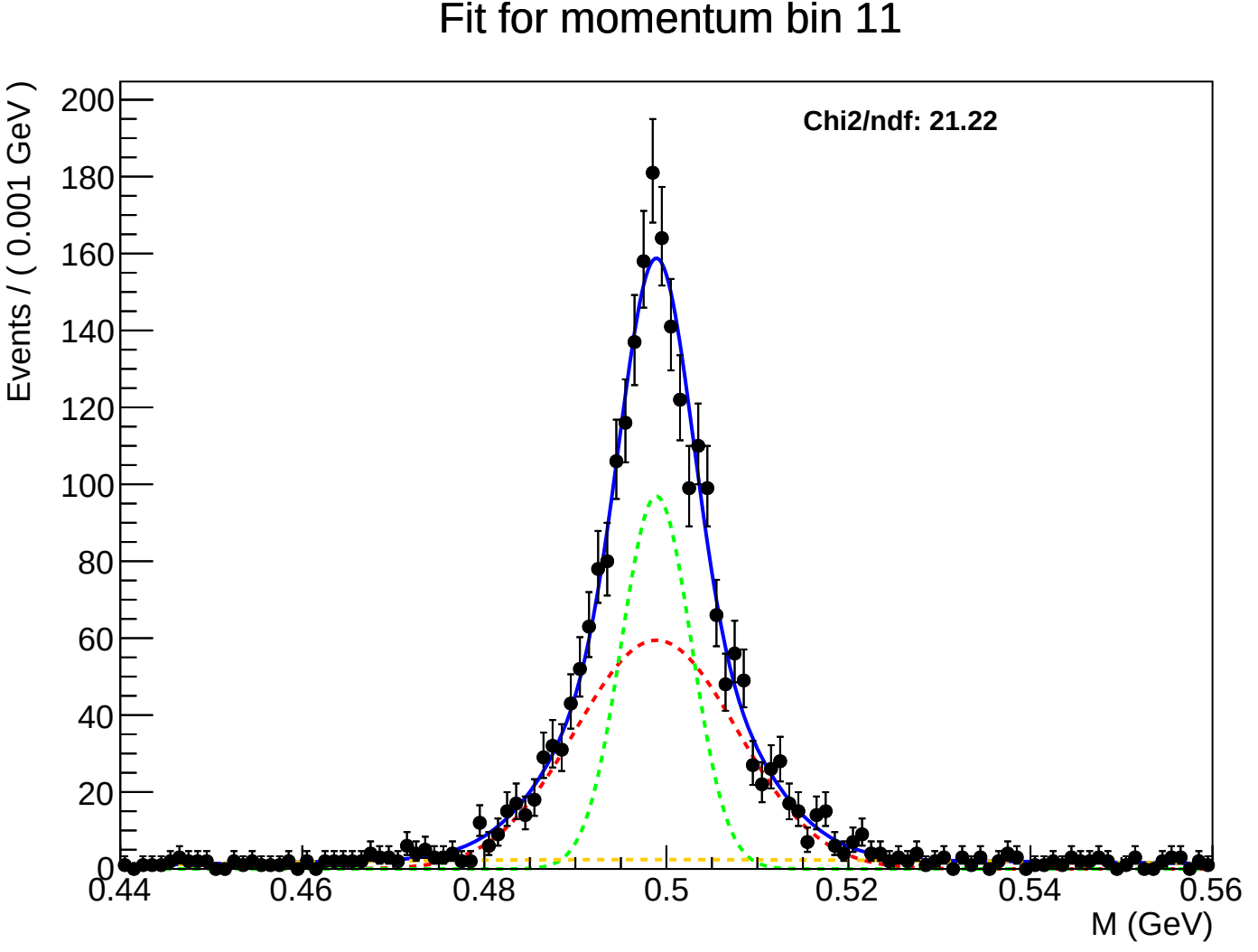

Fit for momentum bin 10
Chi2/ndf: 32.96
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
300
0.44
0.46
0.48
0.5
0.52
0.54
0.56

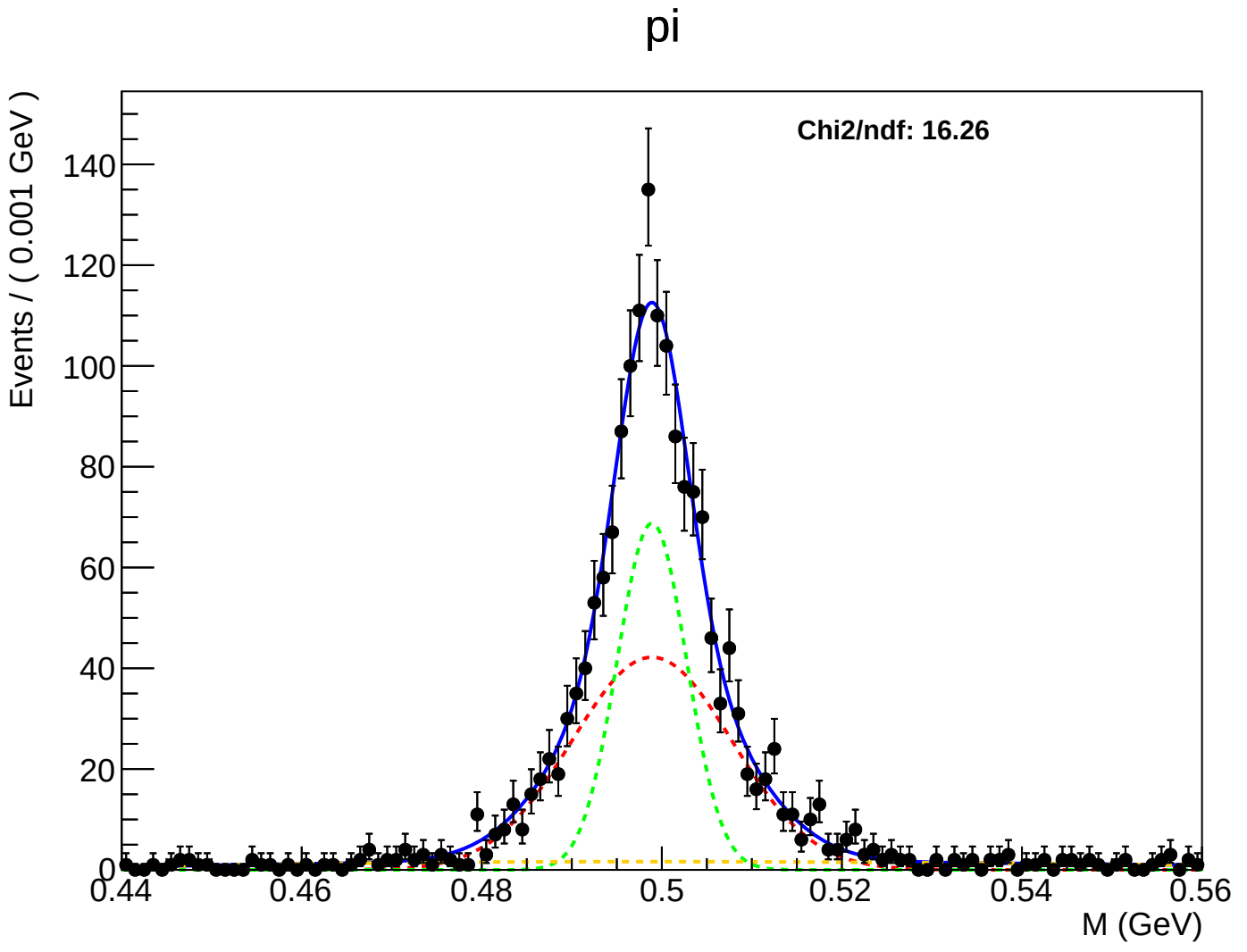

pi
Chi2/ndf: 26.96
Events / (0.001 GeV)
250
200
150
100
50
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

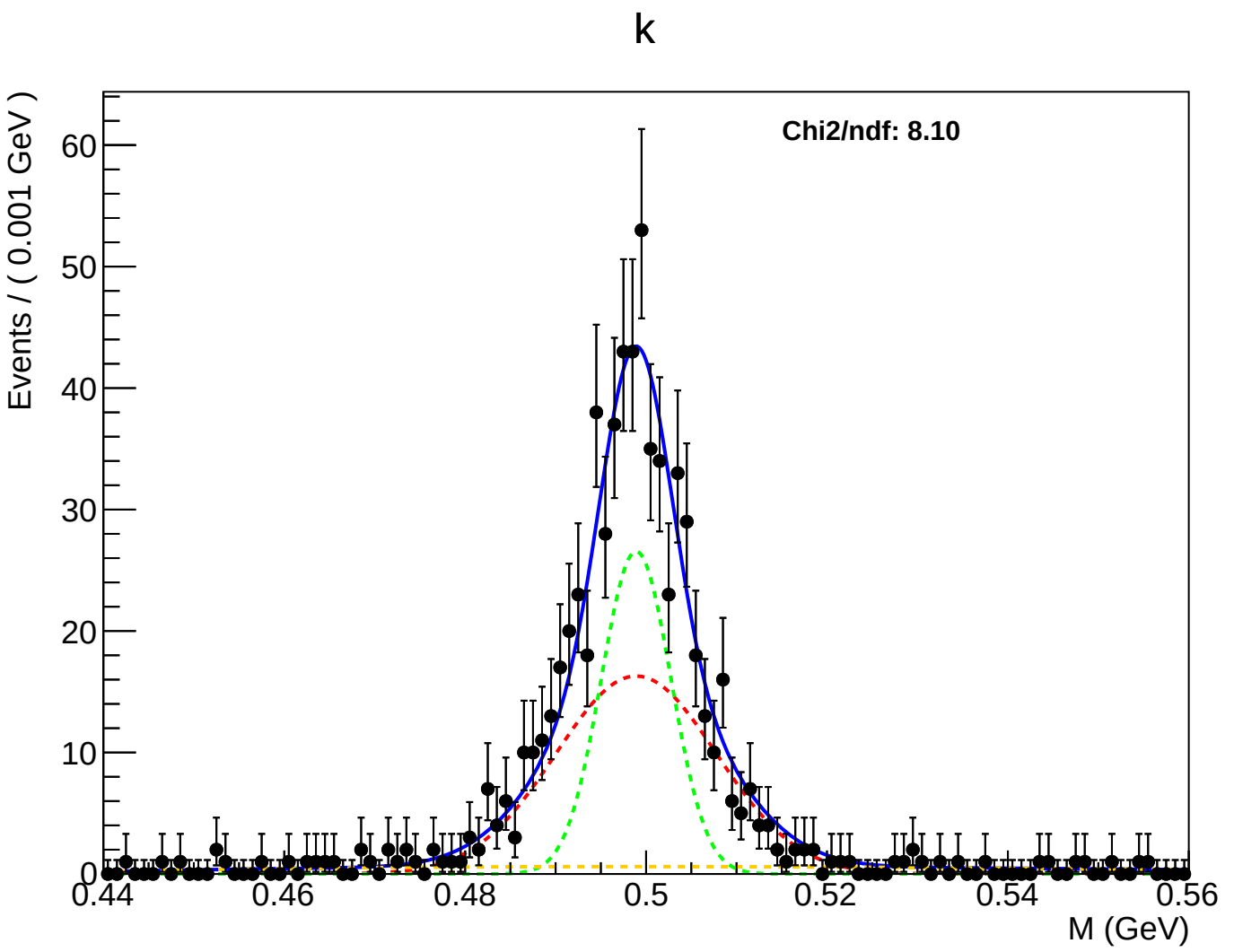

k
Chi2/ndf: 9.30
Events / (0.001 GeV)
M (GeV)
0
10
20
30
40
50
60
70
0.44
0.46
0.48
0.5
0.52
0.54
0.56

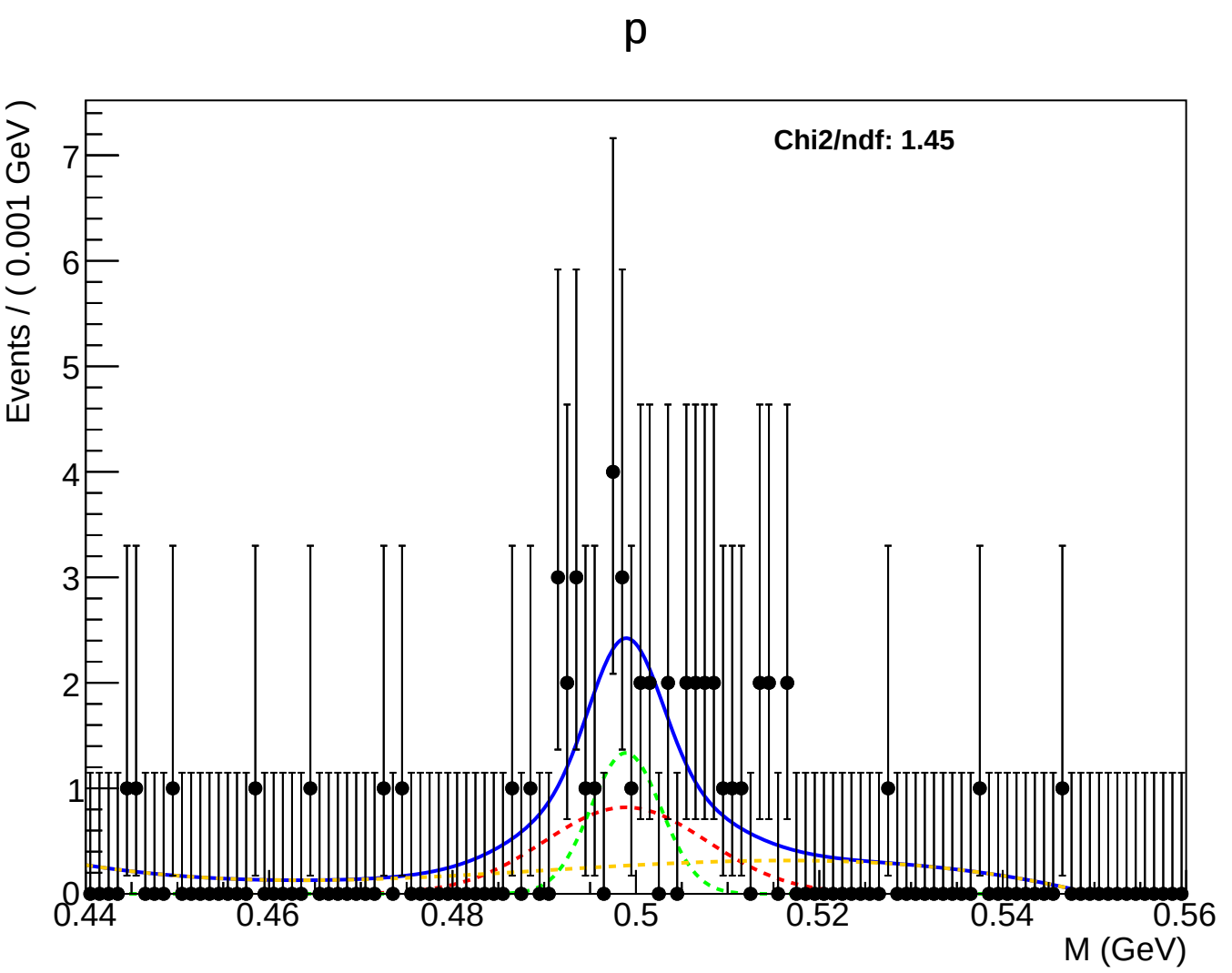

p
Chi2/ndf: 1.96
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
0.44
0.46
0.48
0.5
0.52
0.54
0.56

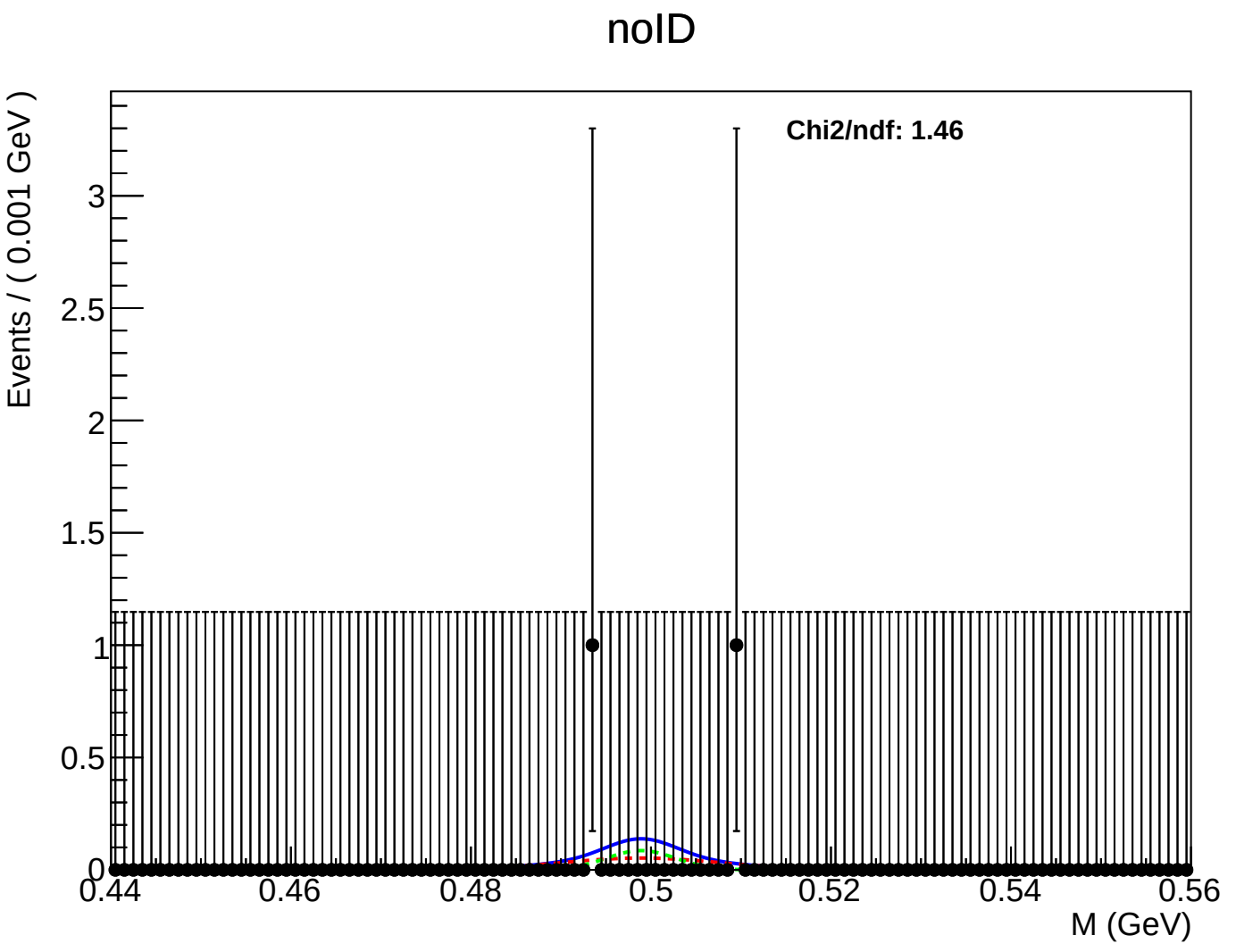

noID
Chi2/ndf: 1.46
Events / (0.001 GeV)
0
0.5
1
1.5
2
2.5
3
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)

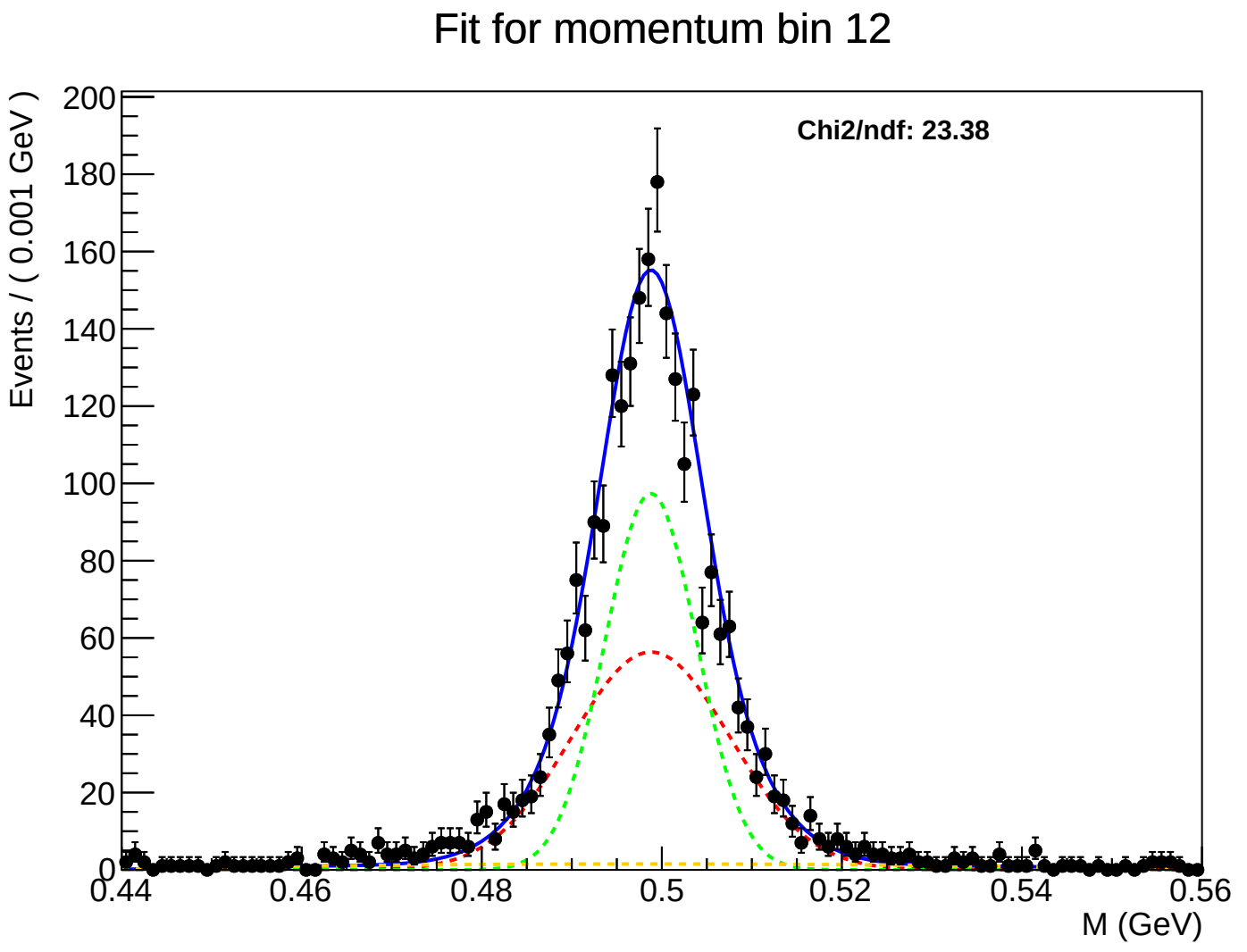

Fit for momentum bin 11
Chi2/ndf: 21.22
Events / (0.001 GeV)
M (GeV)
0
20
40
60
80
100
120
140
160
180
200
0.44
0.46
0.48
0.5
0.52
0.54
0.56

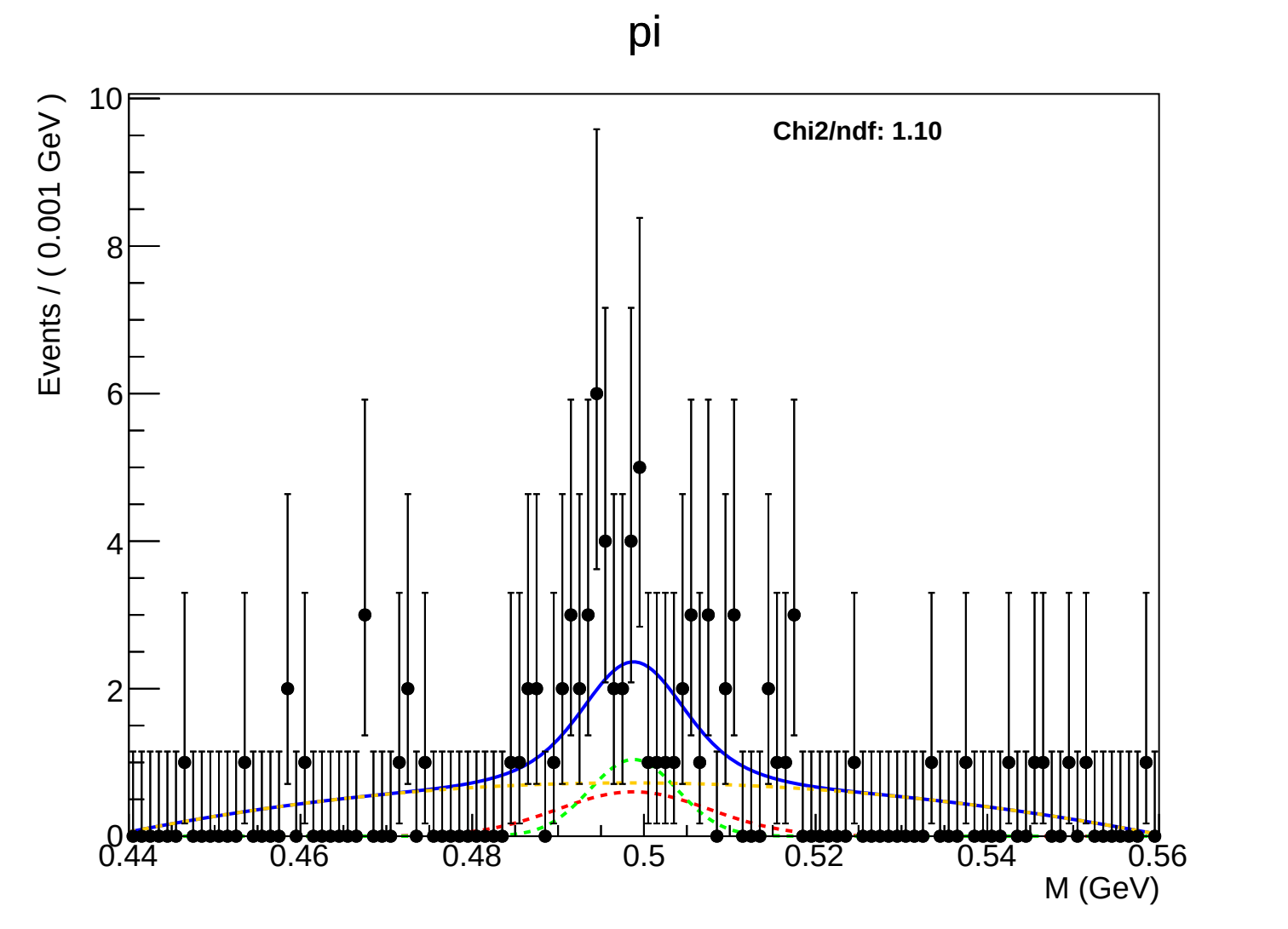

pi
Chi2/ndf: 16.26
Events / (0.001 GeV)
M (GeV)
0
20
40
60
80
100
120
140
0.44
0.46
0.48
0.5
0.52
0.54
0.56

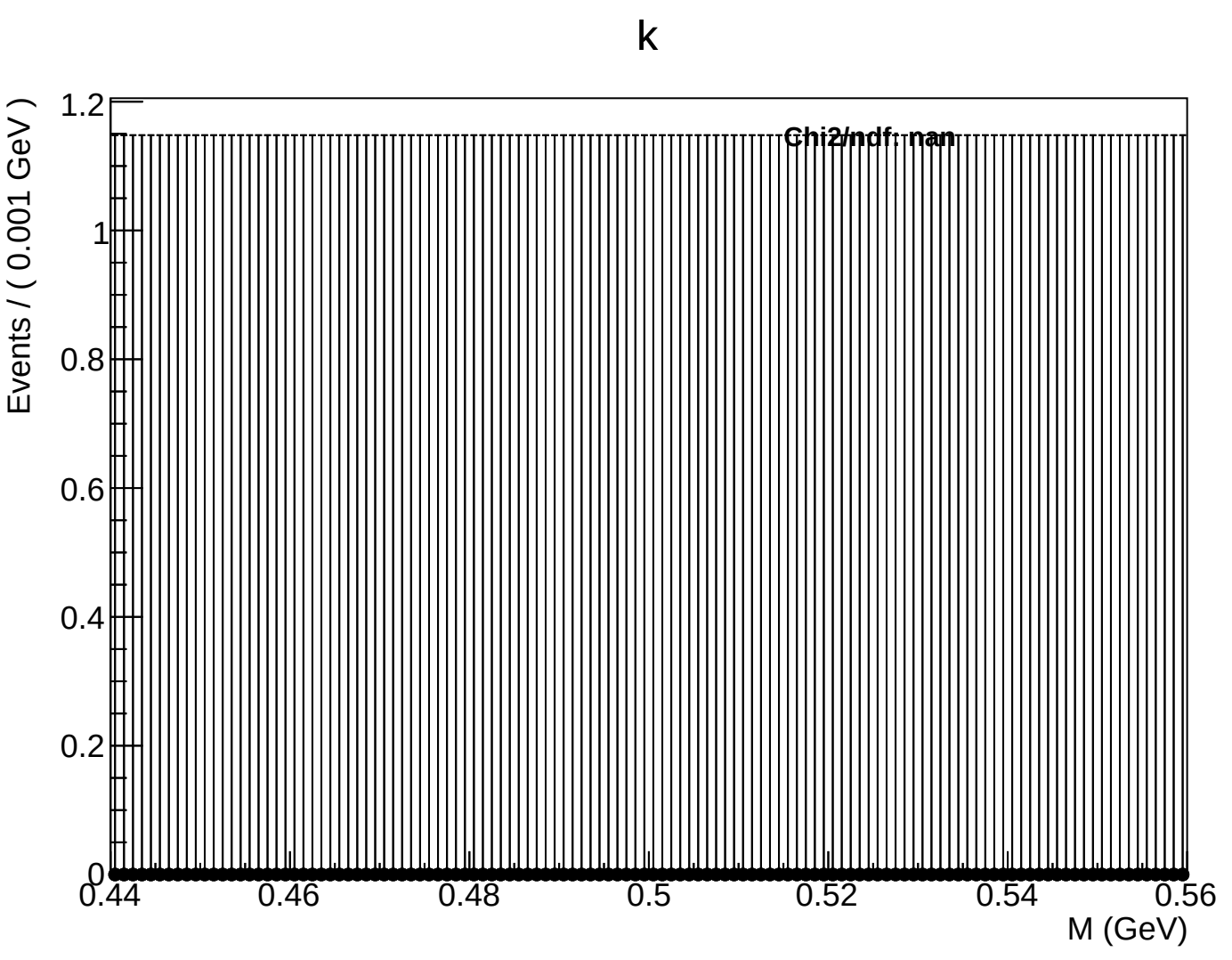

k
Chi2/ndf: 8.10
Events / (0.001 GeV)
M (GeV)
0
10
20
30
40
50
60
0.44
0.46
0.48
0.5
0.52
0.54
0.56

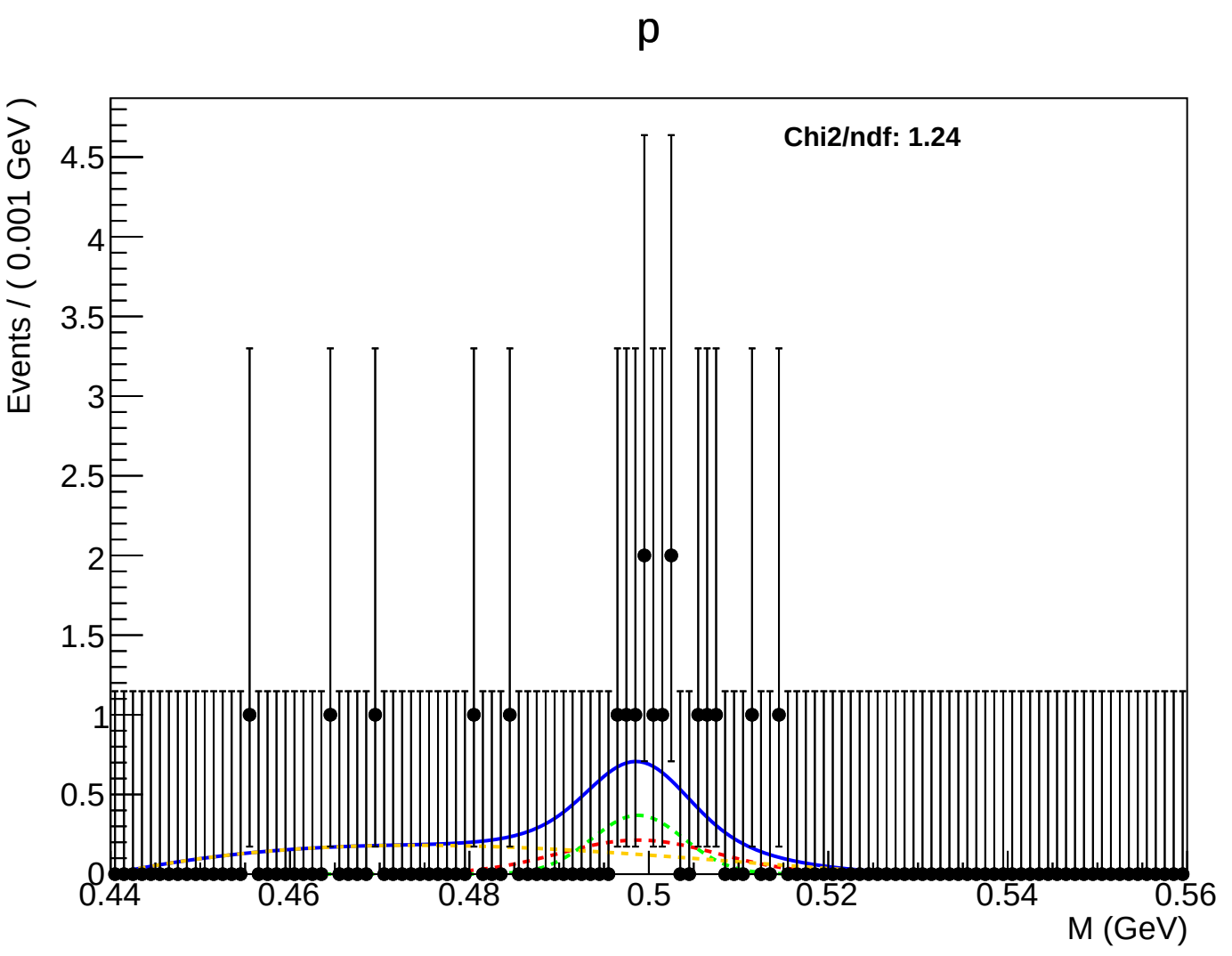

p
Chi2/ndf: 1.45
Events / (0.001 GeV)
M (GeV)
0
1
2
3
4
5
6
7
0.44
0.46
0.48
0.5
0.52
0.54
0.56

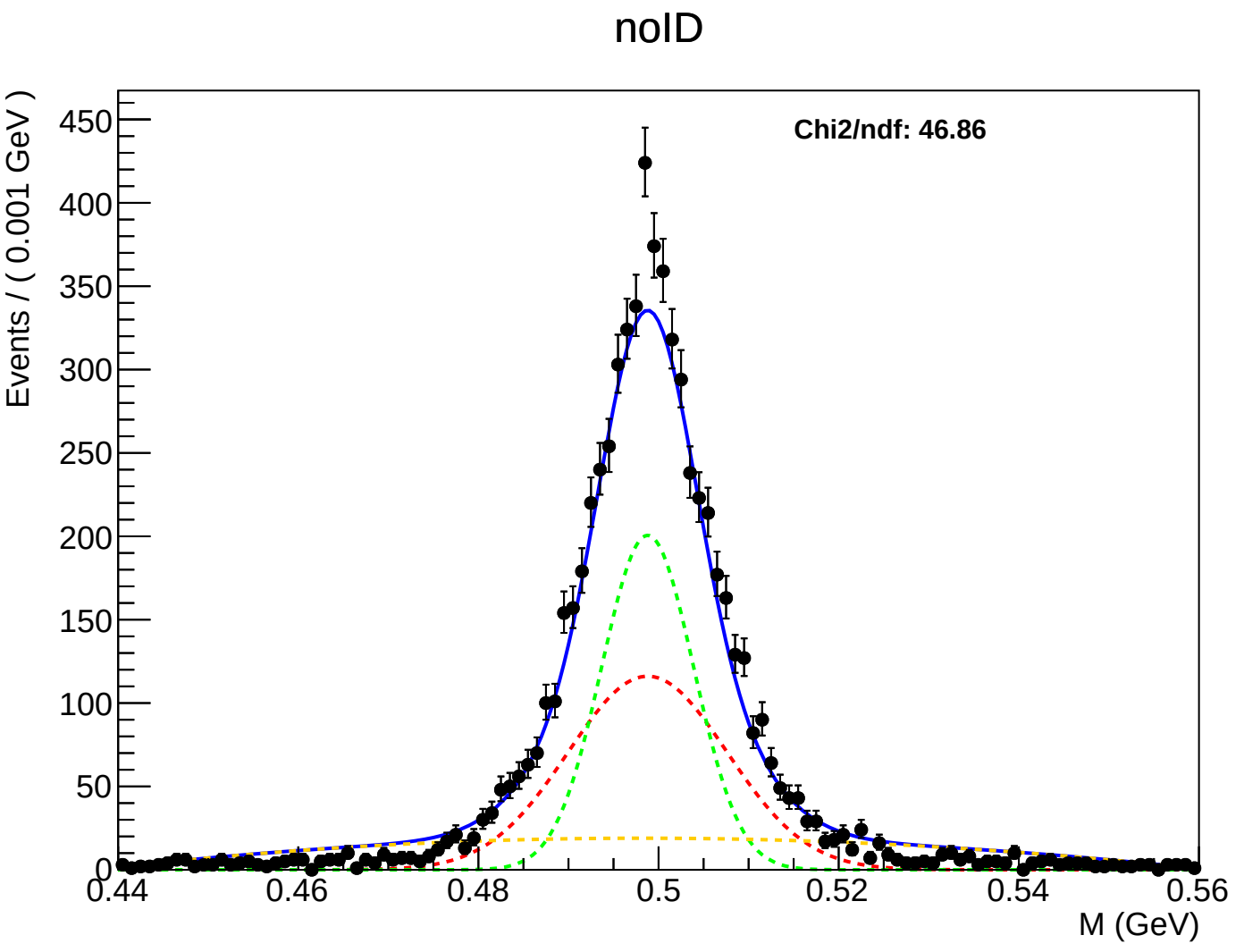

noID
Chi2/ndf: 1.46
Events / (0.001 GeV)
M (GeV)
0
0.5
1
1.5
2
2.5
3
0.44
0.46
0.48
0.5
0.52
0.54
0.56


Fit for momentum bin 12
Chi2/ndf: 23.38
Events / (0.001 GeV)
M (GeV)
0
20
40
60
80
100
120
140
160
180
200
0.44
0.46
0.48
0.5
0.52
0.54
0.56


pi
Chi2/ndf: 1.10
Events / (0.001 GeV)
M (GeV)
0
2
4
6
8
10
0.44
0.46
0.48
0.5
0.52
0.54
0.56


k
Chi2/ndf: nan
Events / (0.001 GeV)
1.2
1
0.8
0.6
0.4
0.2
0
0.44
0.46
0.48
0.5
0.52
0.54
0.56
M (GeV)


p
Chi2/ndf: 1.24
Events / (0.001 GeV)
M (GeV)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0.44
0.46
0.48
0.5
0.52
0.54
0.56


noID
Chi2/ndf: 46.86
Events / (0.001 GeV)
M (GeV)
0
50
100
150
200
250
300
350
400
450
0.44
0.46
0.48
0.5
0.52
0.54
0.56