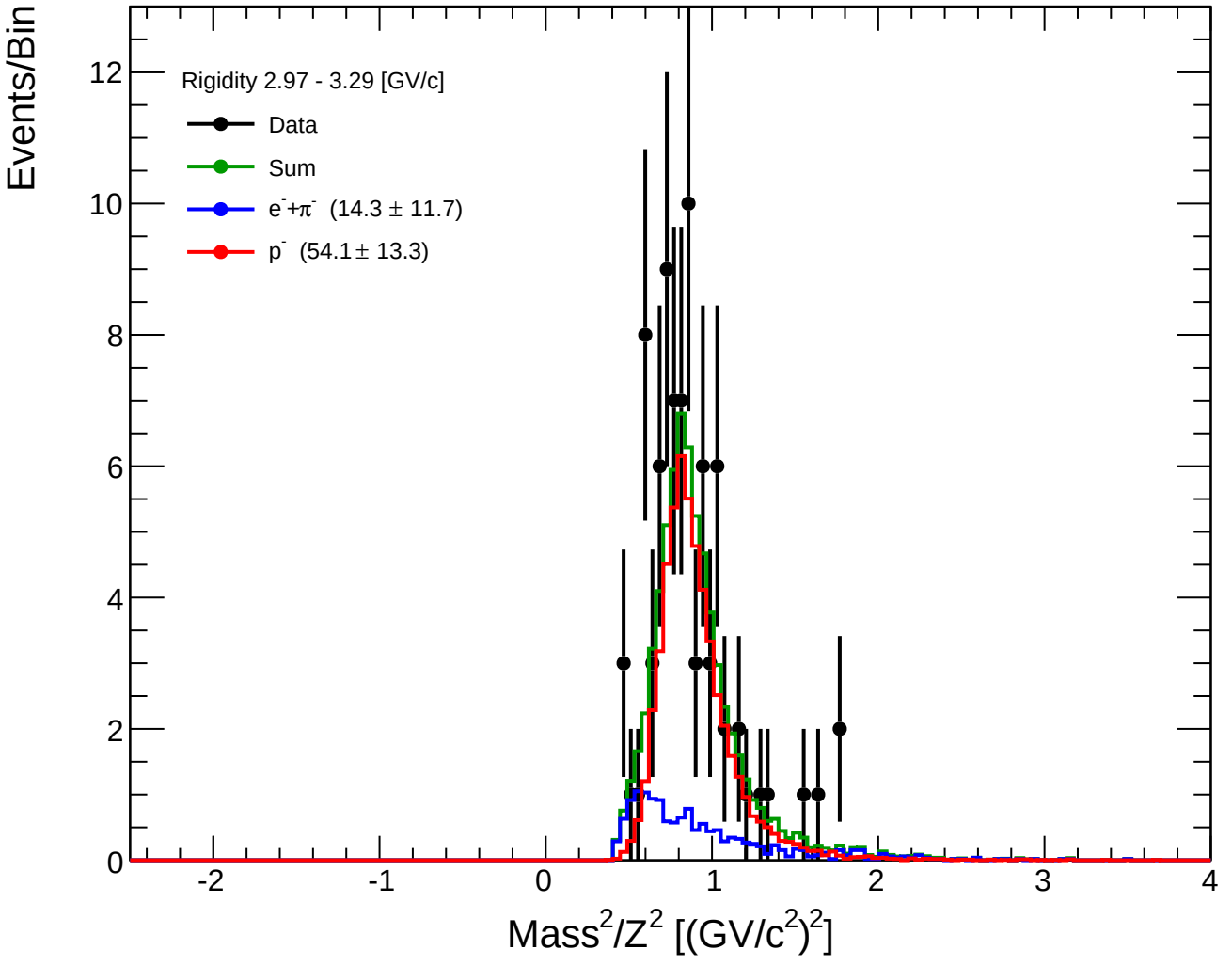
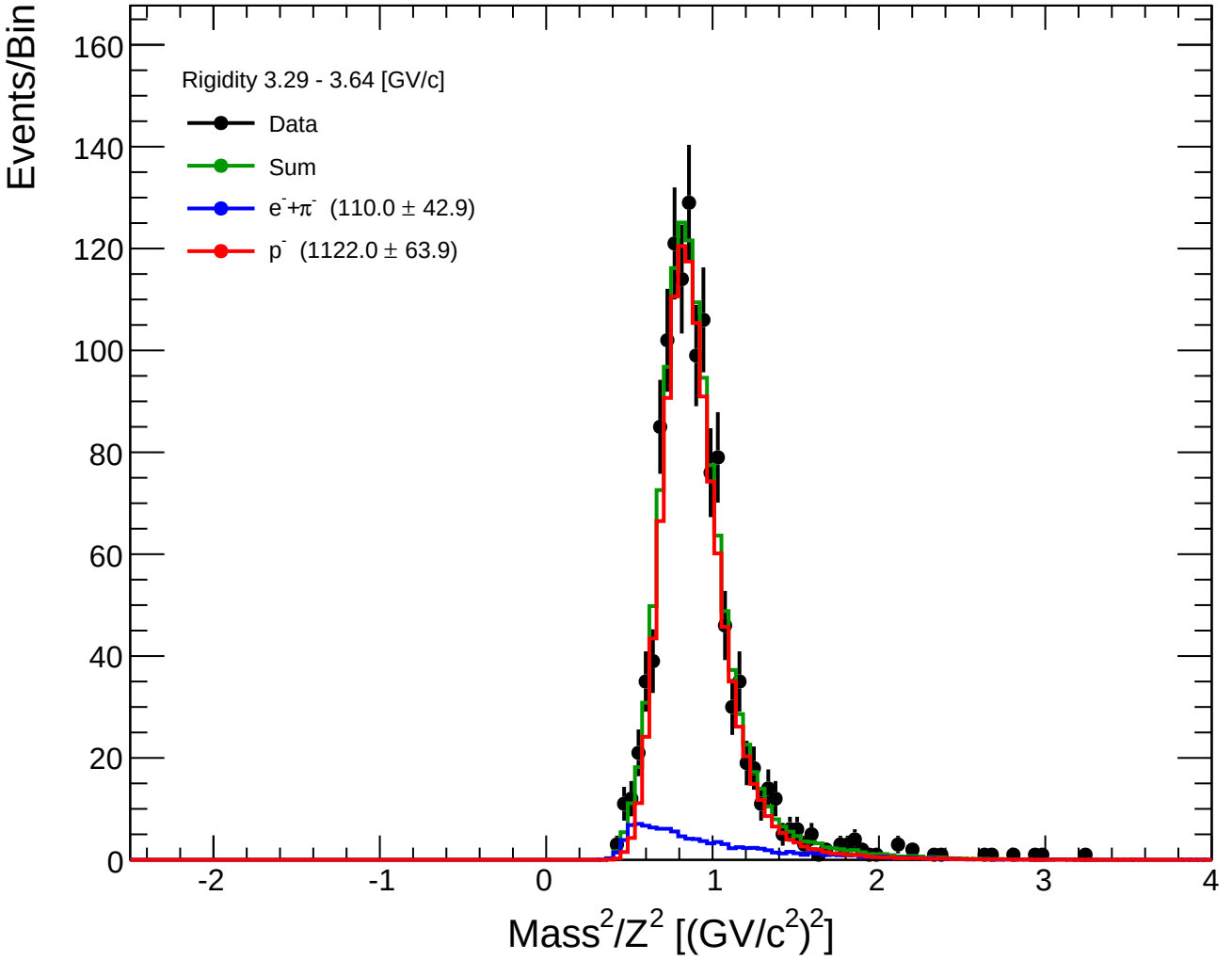
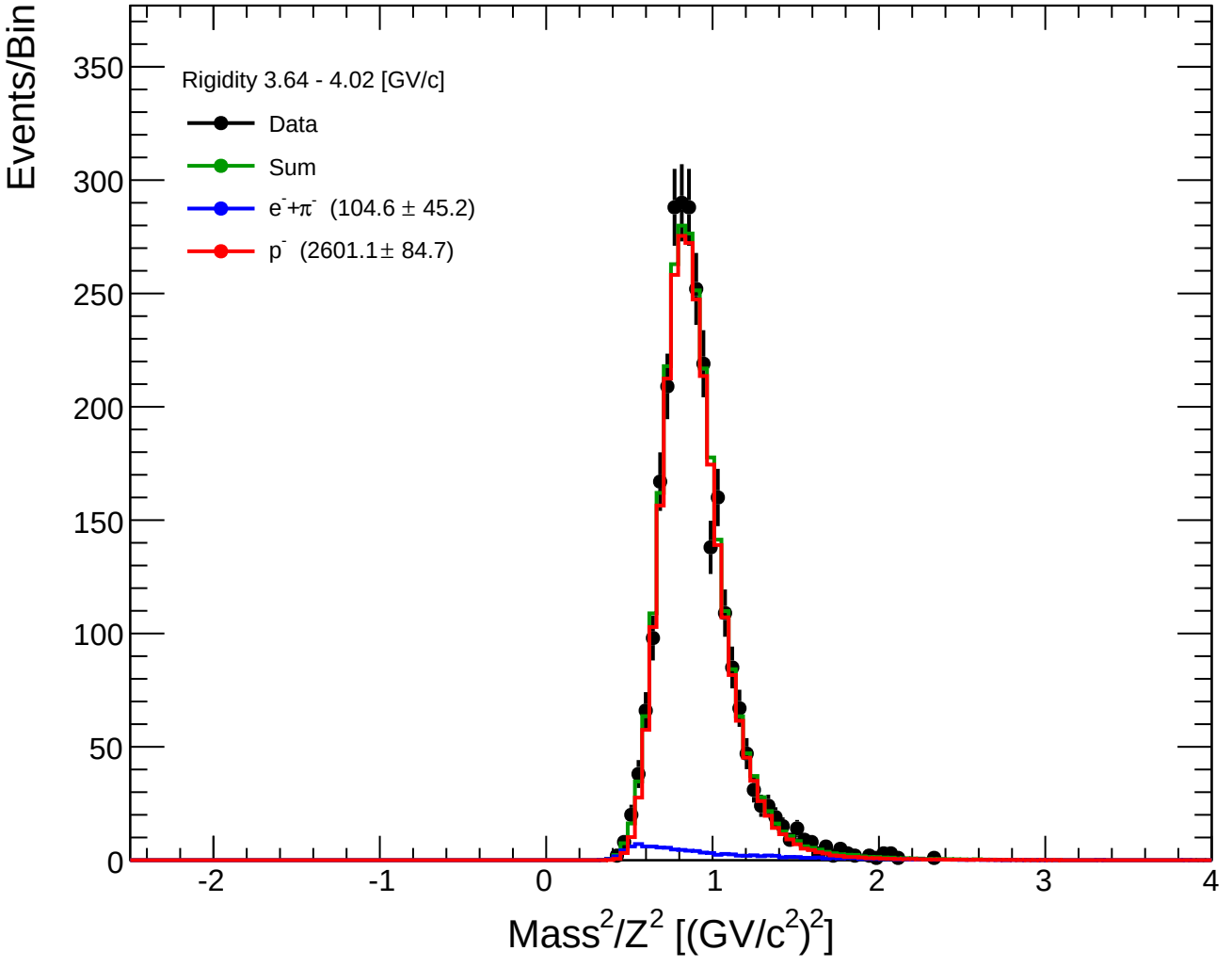
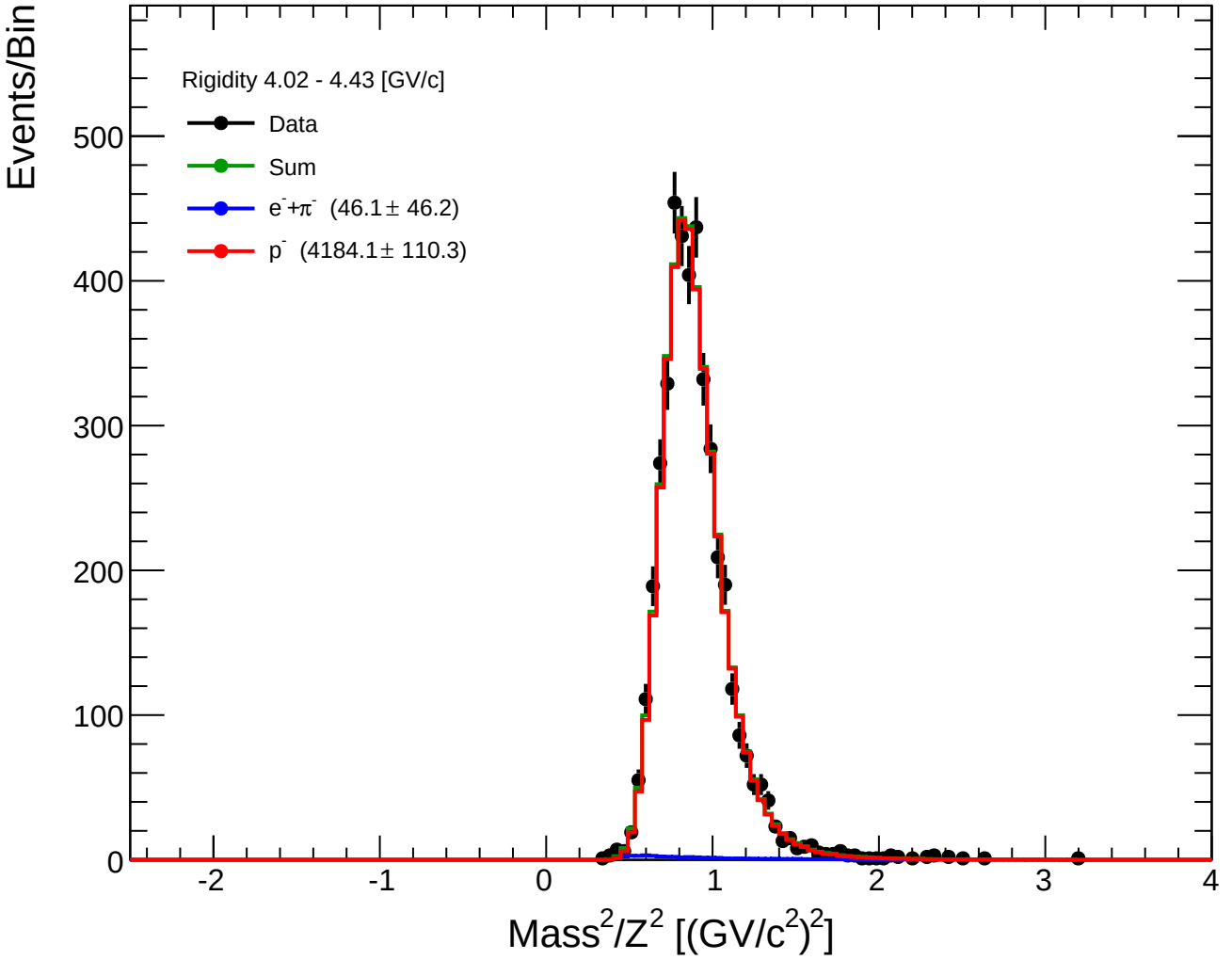
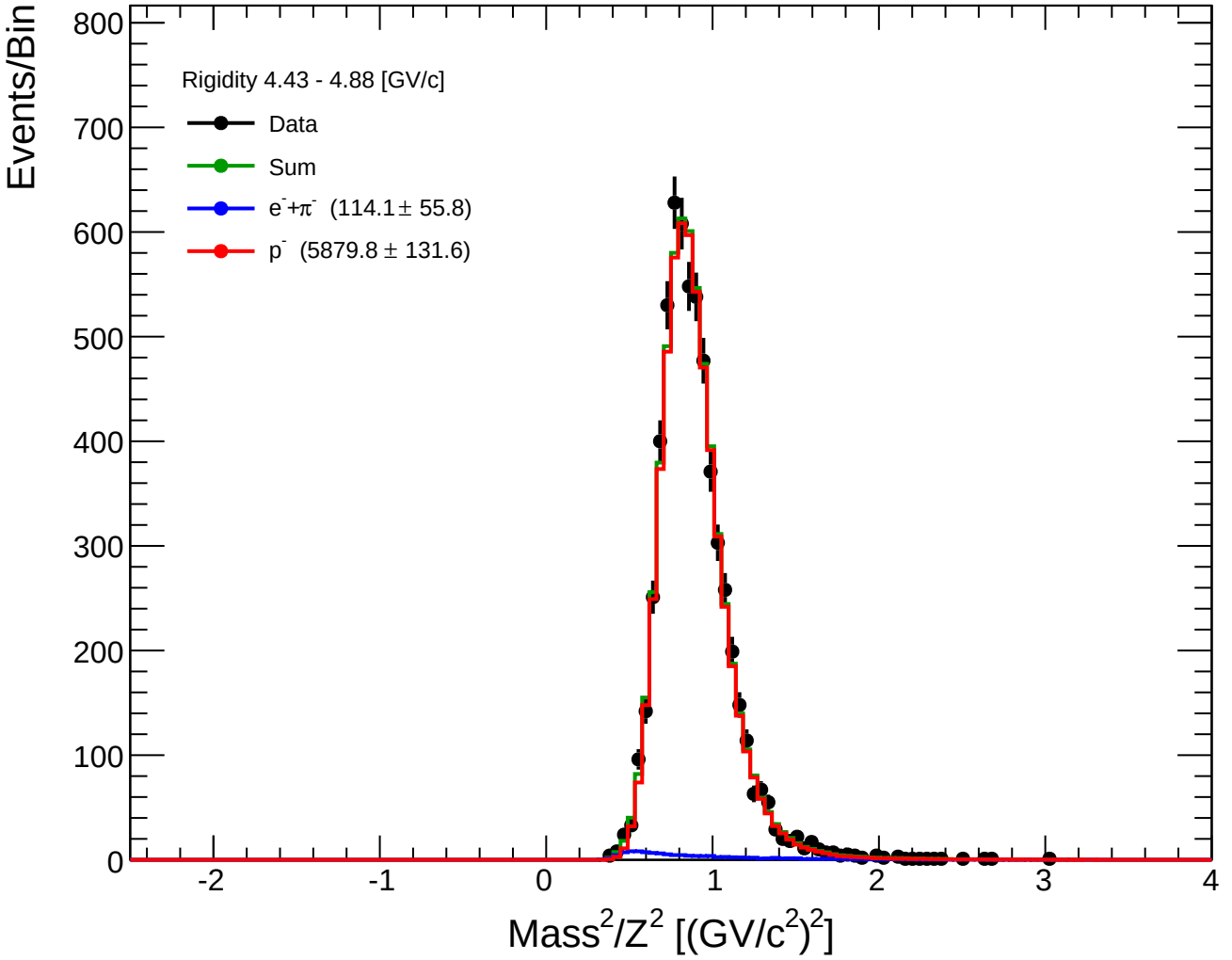
<< START >> antip_m

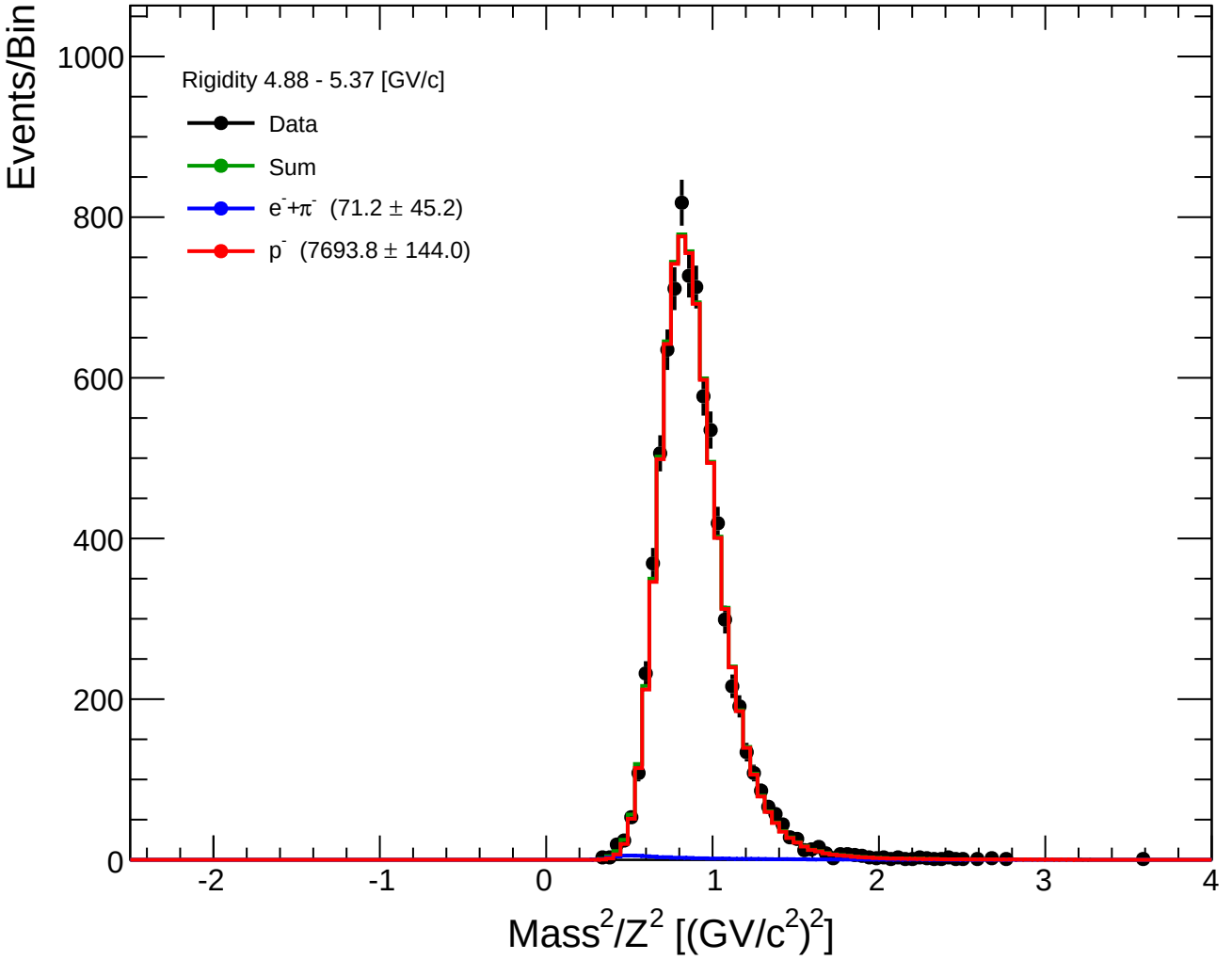

Events/Bin
Rigidity 2.97 - 3.29 [GV/c]
Data
Sum
e⁻+π⁻ (14.3 ± 11.7)
p⁻ (54.1 ± 13.3)
0
2
4
6
8
10
12
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

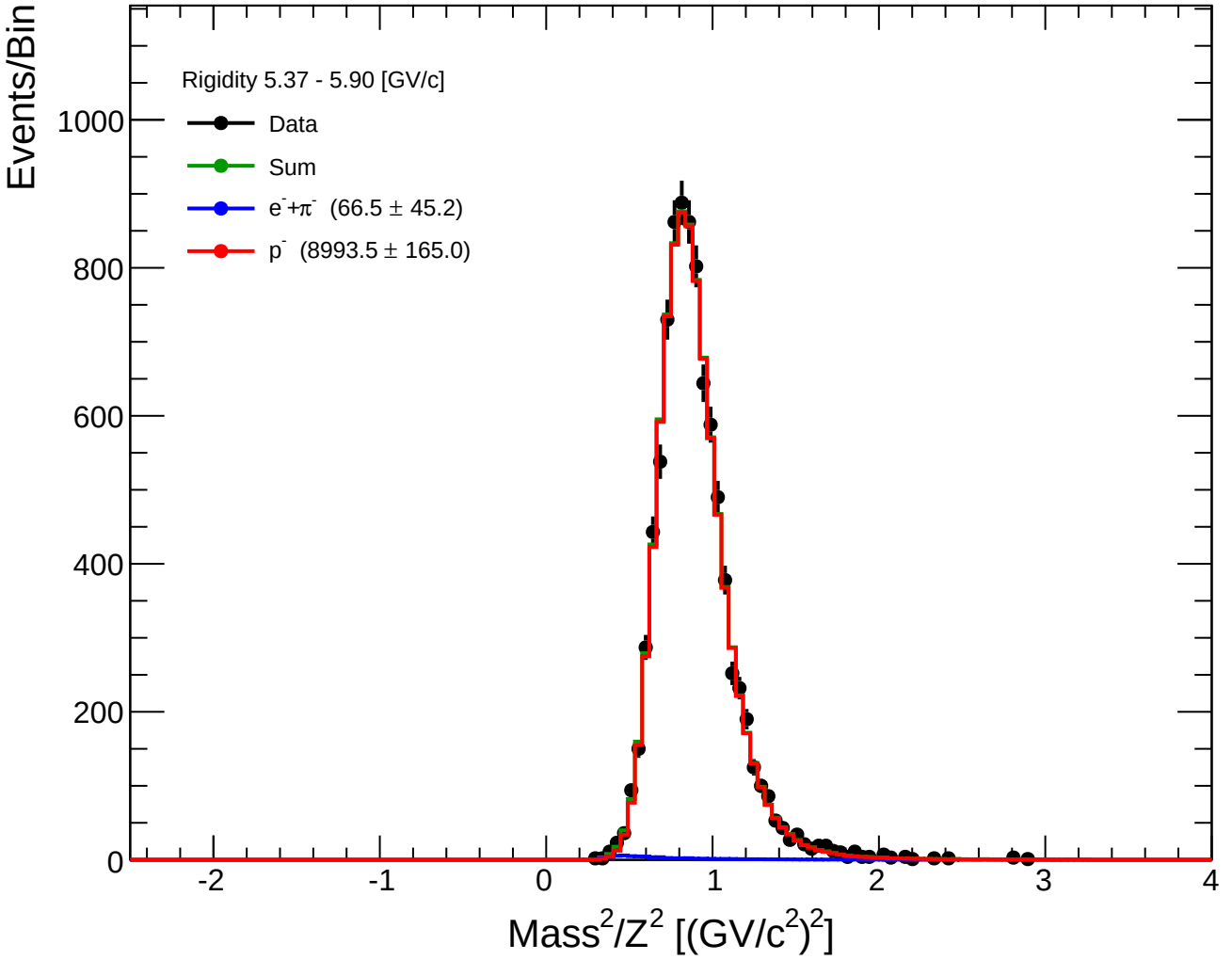

Events/Bin
160
140
120
100
80
60
40
20
0
Rigidity 3.29 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (110.0 ± 42.9)
p⁻ (1122.0 ± 63.9)
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

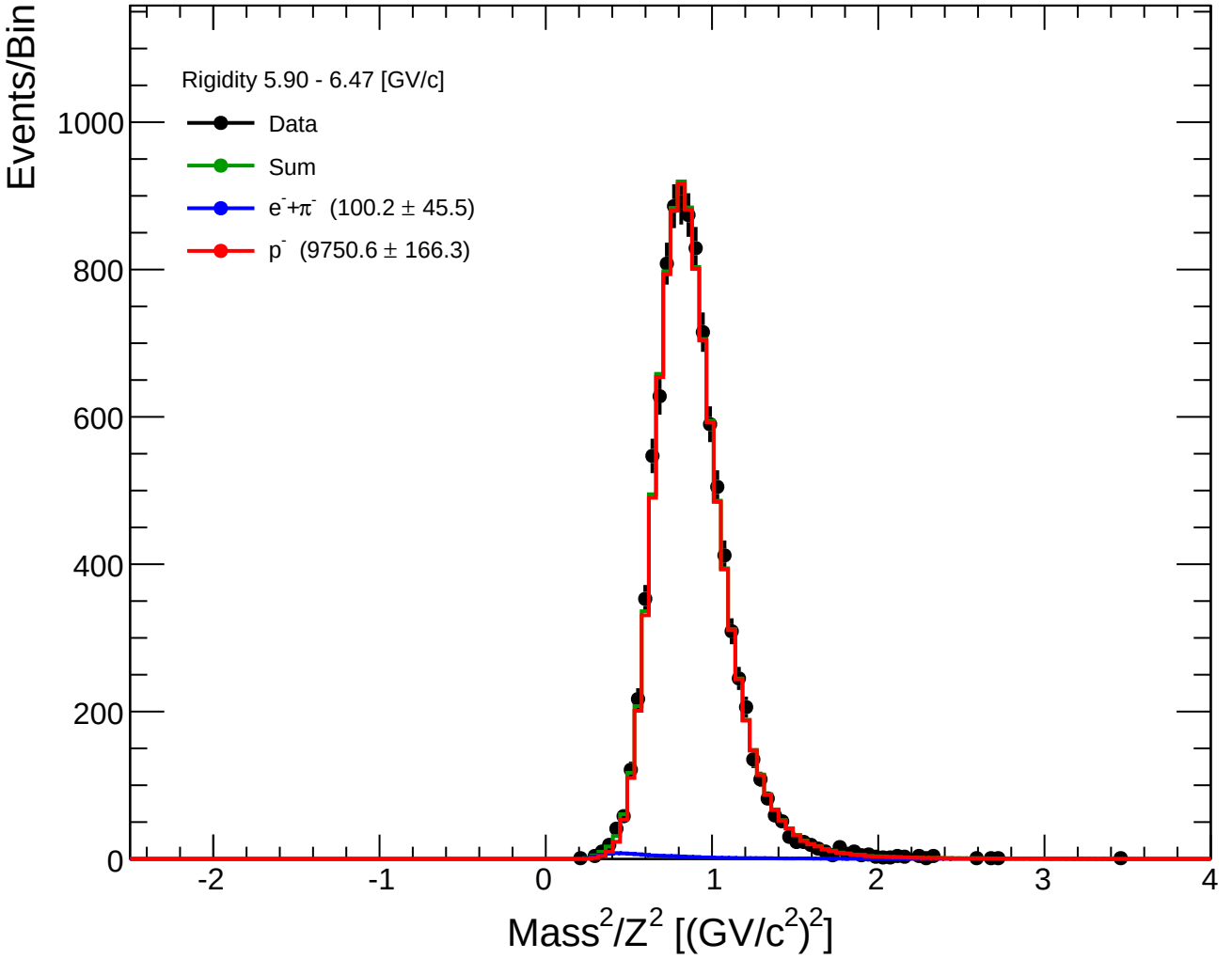

Rigidity 3.64 - 4.02 [GV/c]
Data
Sum
e⁻+π⁻ (104.6 ± 45.2)
p⁻ (2601.1± 84.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
-2
-1
0
1
2
3
4

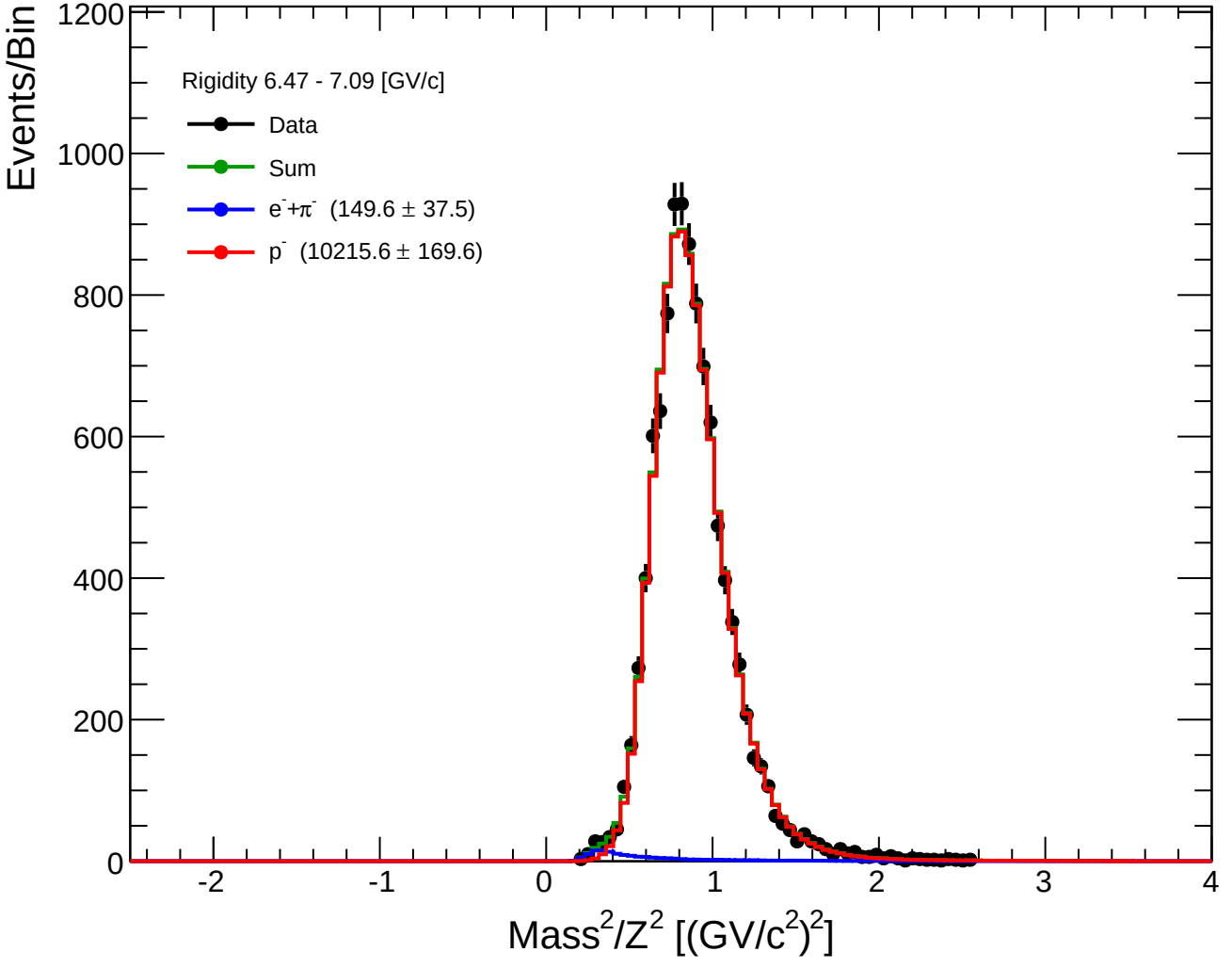

Rigidity 4.02 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (46.1± 46.2)
p⁻ (4184.1± 110.3)
Events/Bin
0
100
200
300
400
500
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

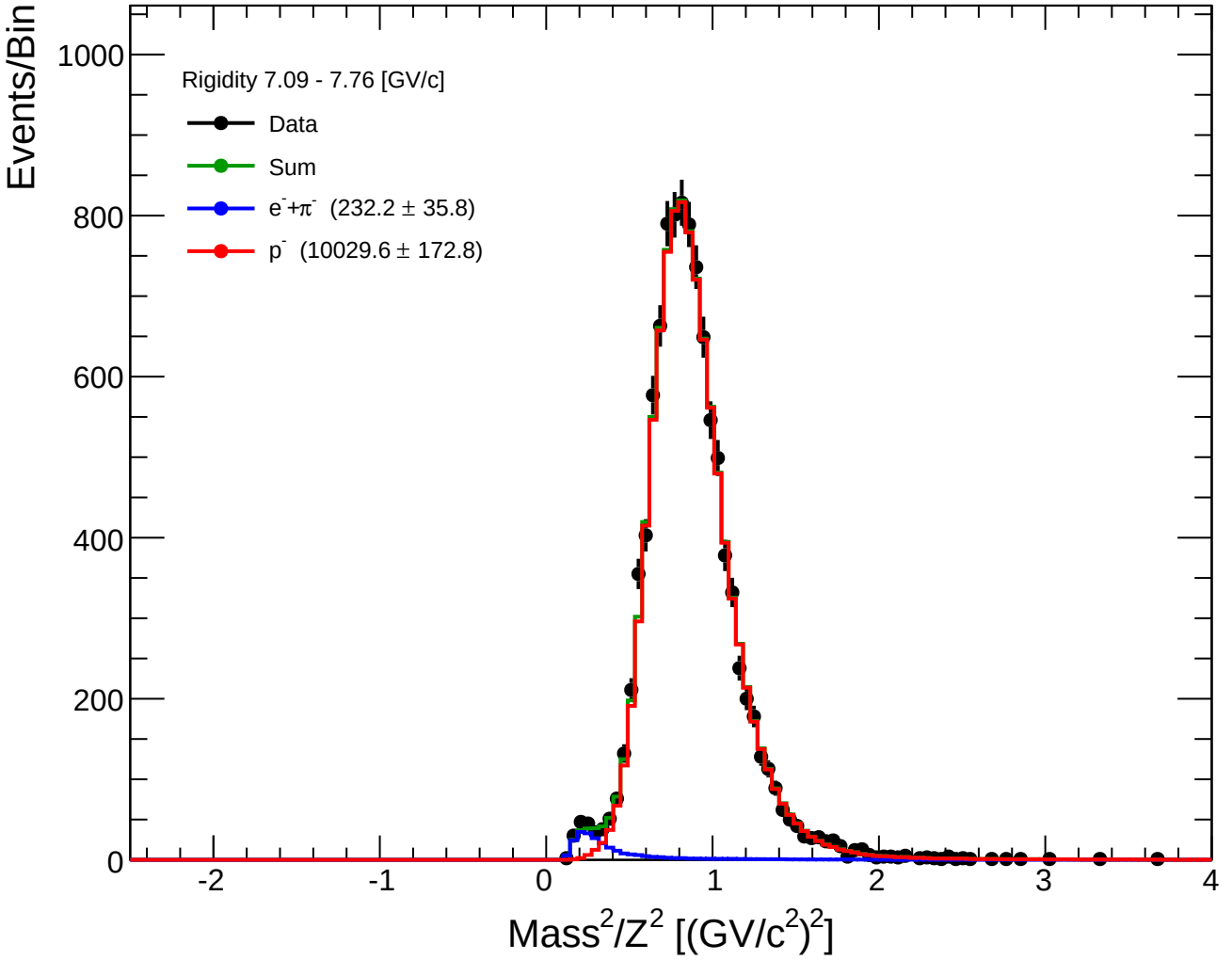

Events/Bin
800
700
600
500
400
300
200
100
0
Rigidity 4.43 - 4.88 [GV/c]
Data
Sum
e⁻+π⁻ (114.1± 55.8)
p⁻ (5879.8 ± 131.6)
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

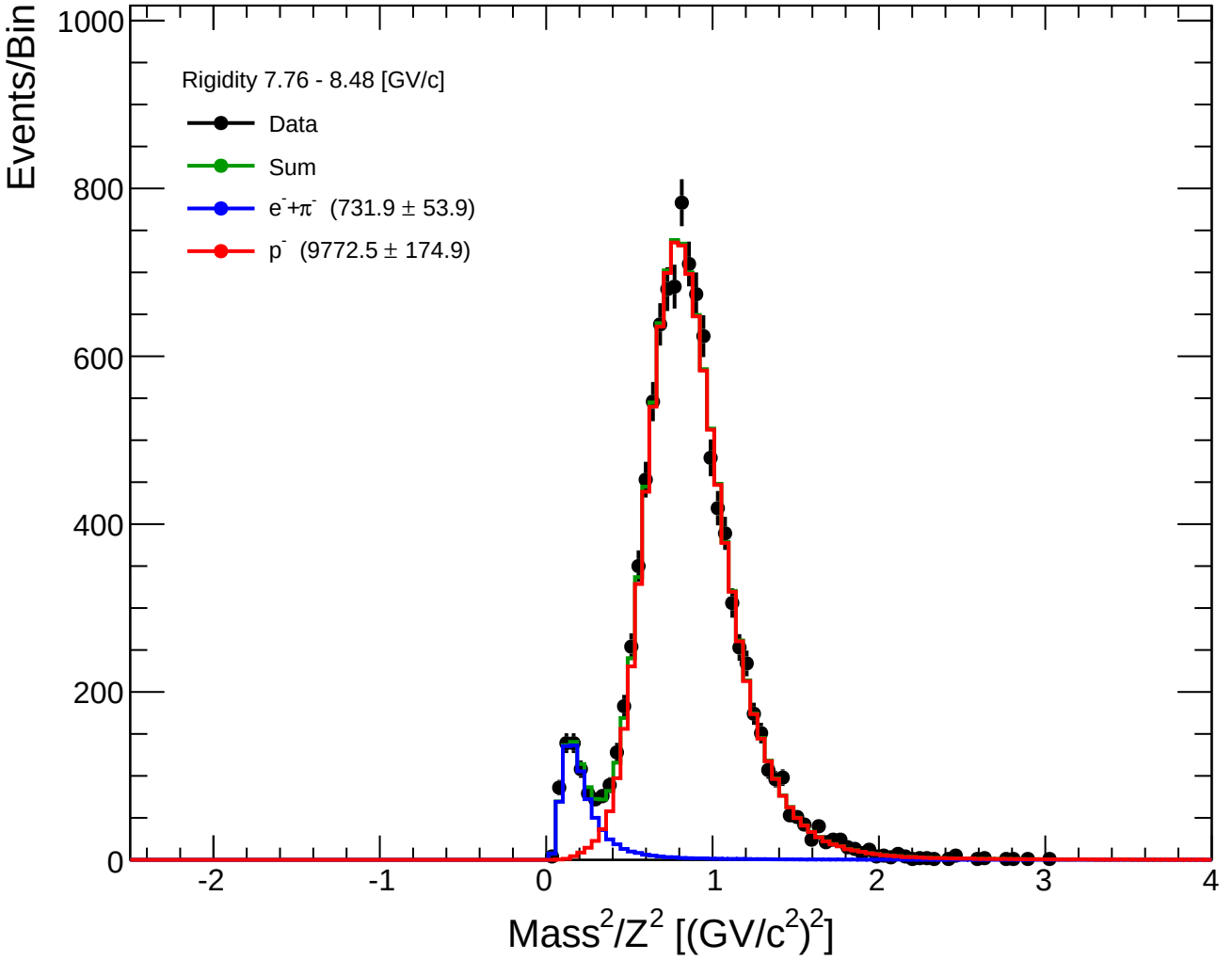

Events/Bin
1000
800
600
400
200
0
Rigidity 4.88 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (71.2 ± 45.2)
p⁻ (7693.8 ± 144.0)
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

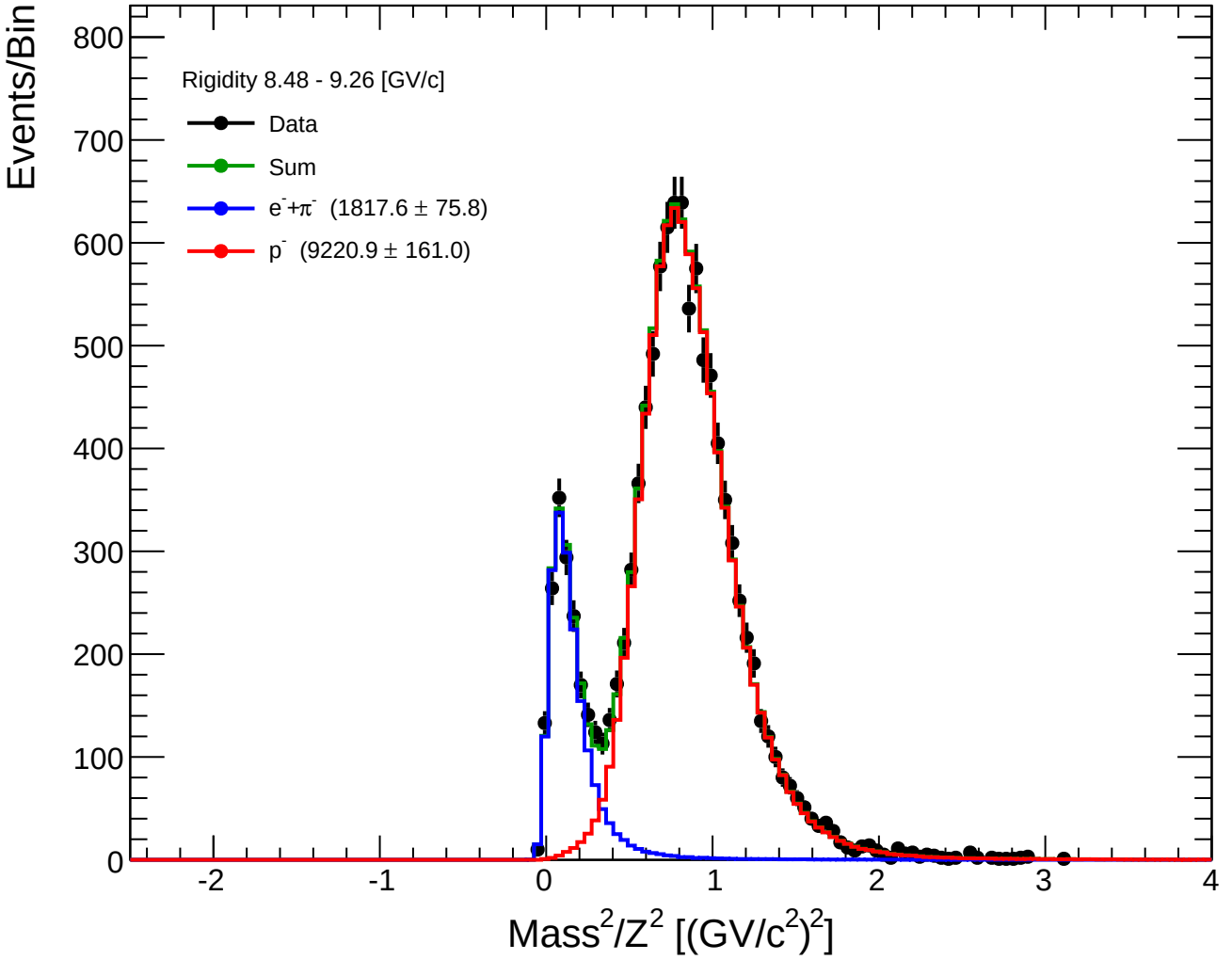

Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (66.5 ± 45.2)
p⁻ (8993.5 ± 165.0)
Events/Bin
1000
800
600
400
200
0
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

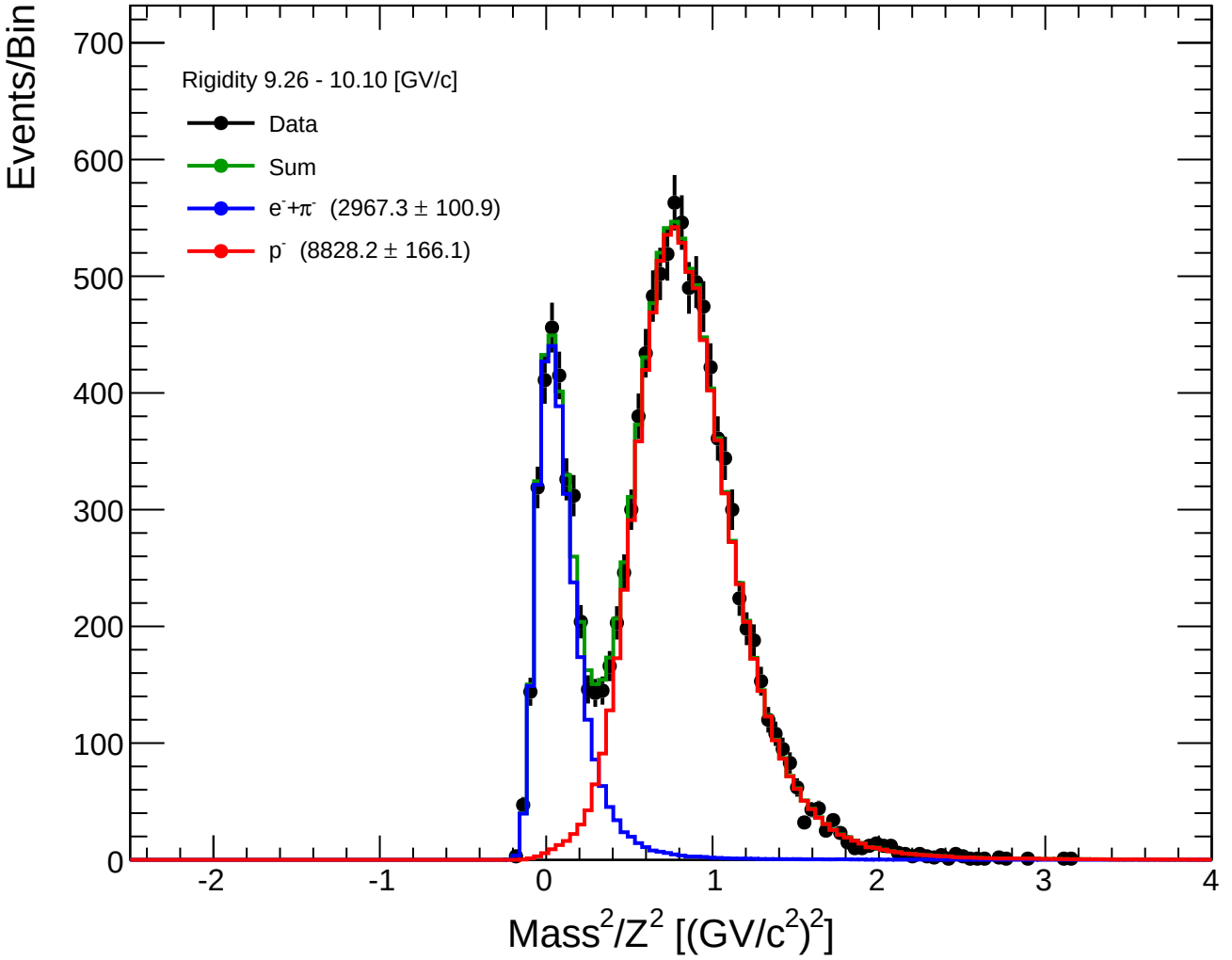

Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (100.2 ± 45.5)
p⁻ (9750.6 ± 166.3)
Events/Bin
1000
800
600
400
200
0
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

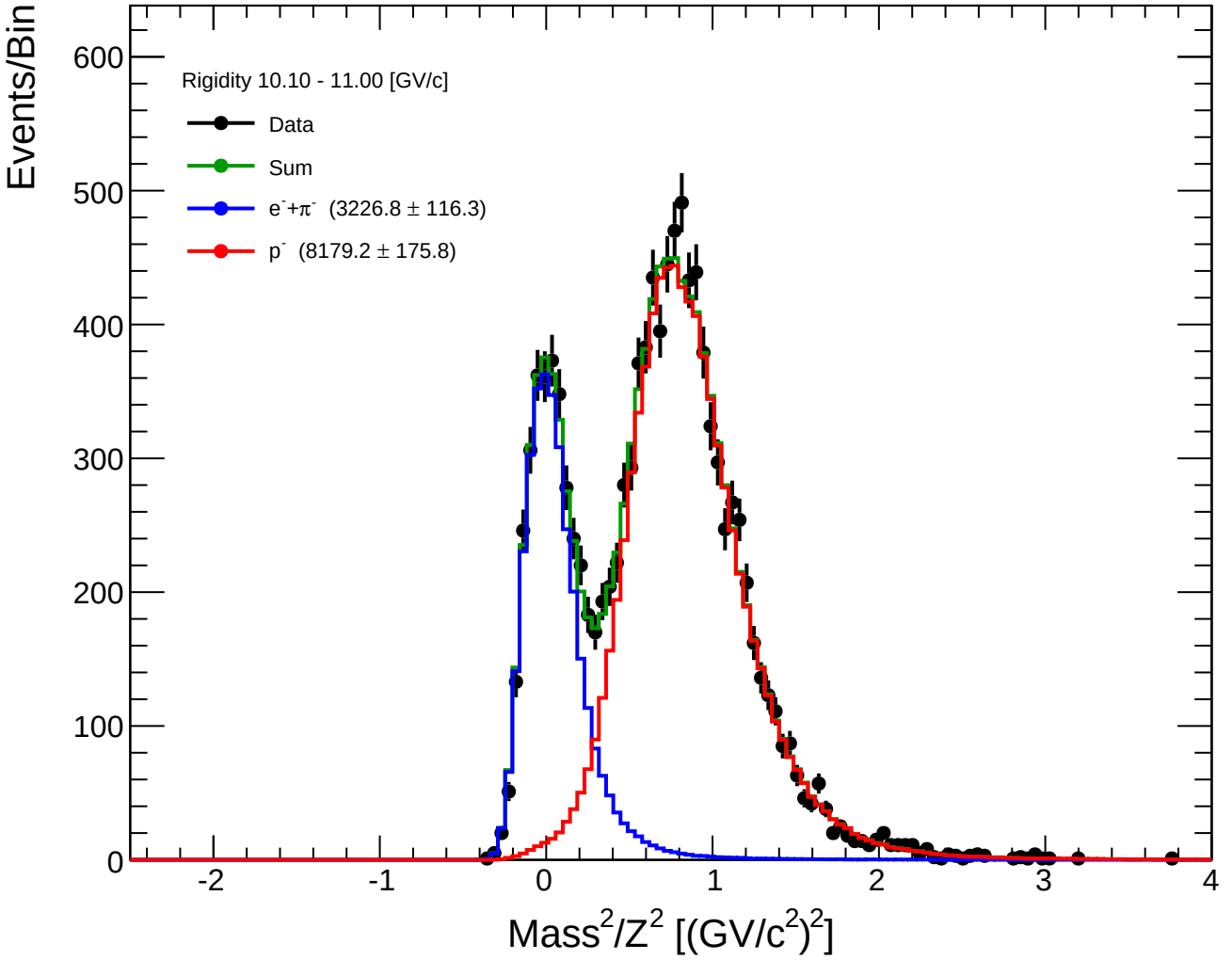

Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (149.6 ± 37.5)
p⁻ (10215.6 ± 169.6)
Events/Bin
1200
1000
800
600
400
200
0
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

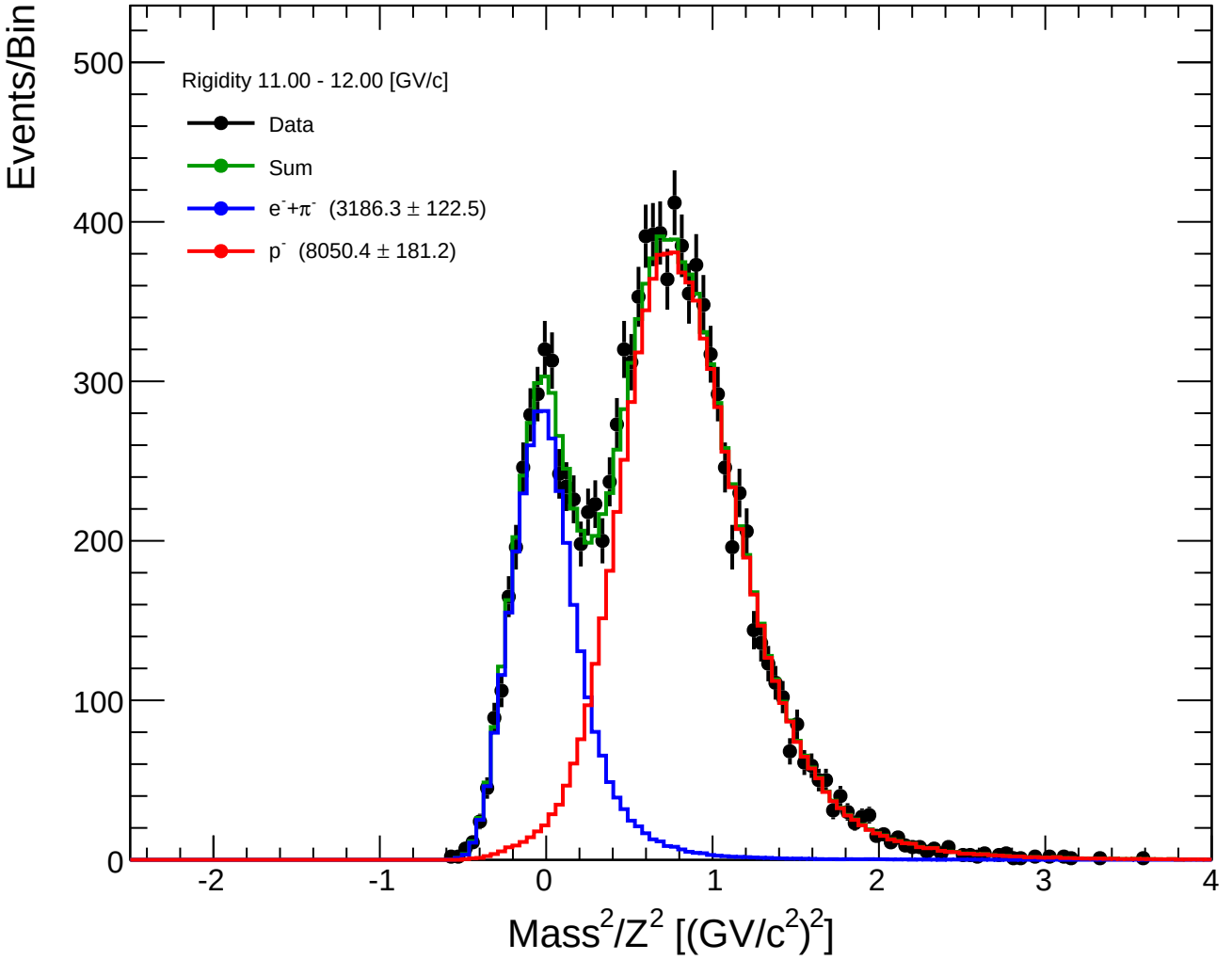

Events/Bin
1000
800
600
400
200
0
Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (232.2 ± 35.8)
p⁻ (10029.6 ± 172.8)
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

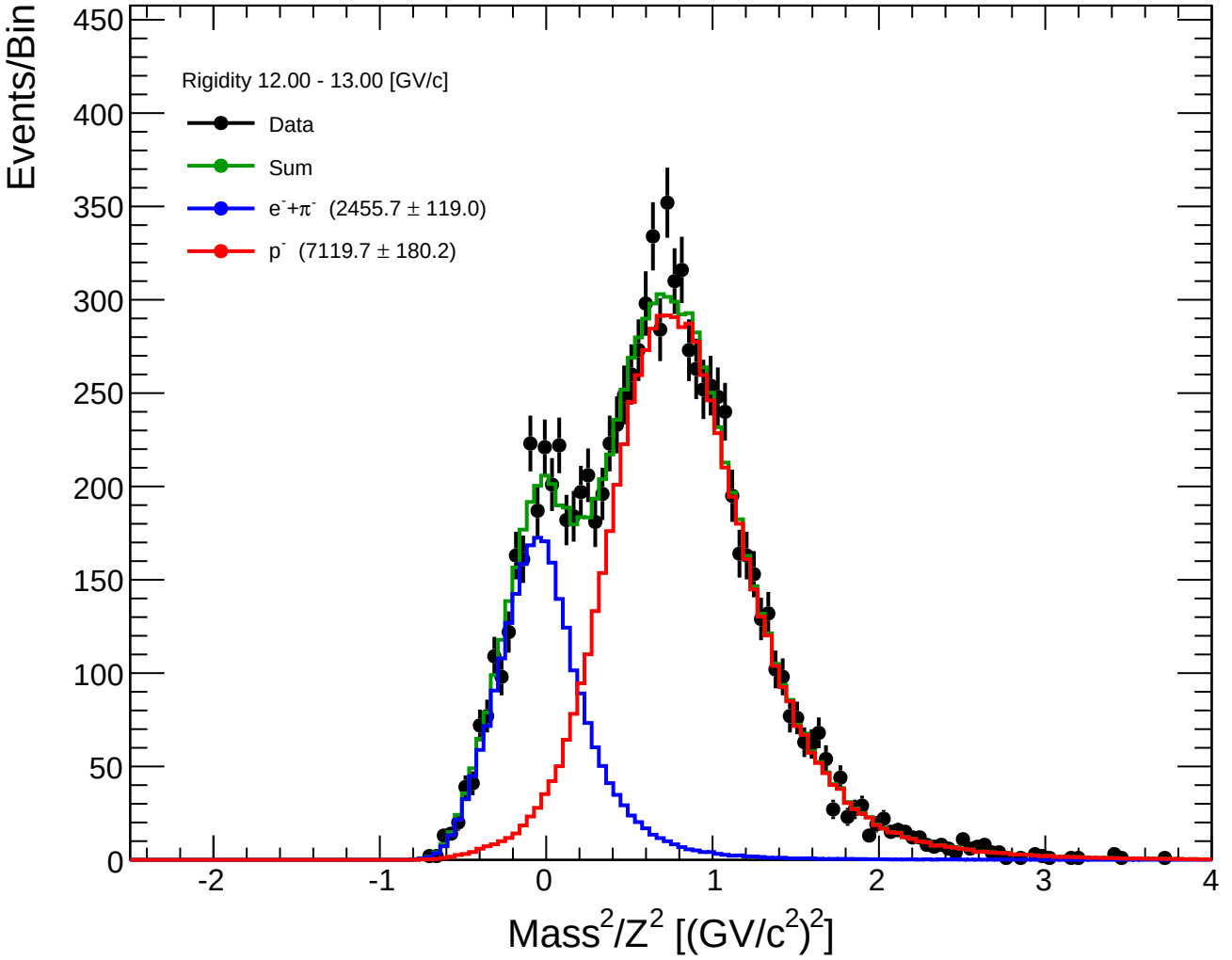

Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (731.9 ± 53.9)
p⁻ (9772.5 ± 174.9)
Events/Bin
1000
800
600
400
200
0
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

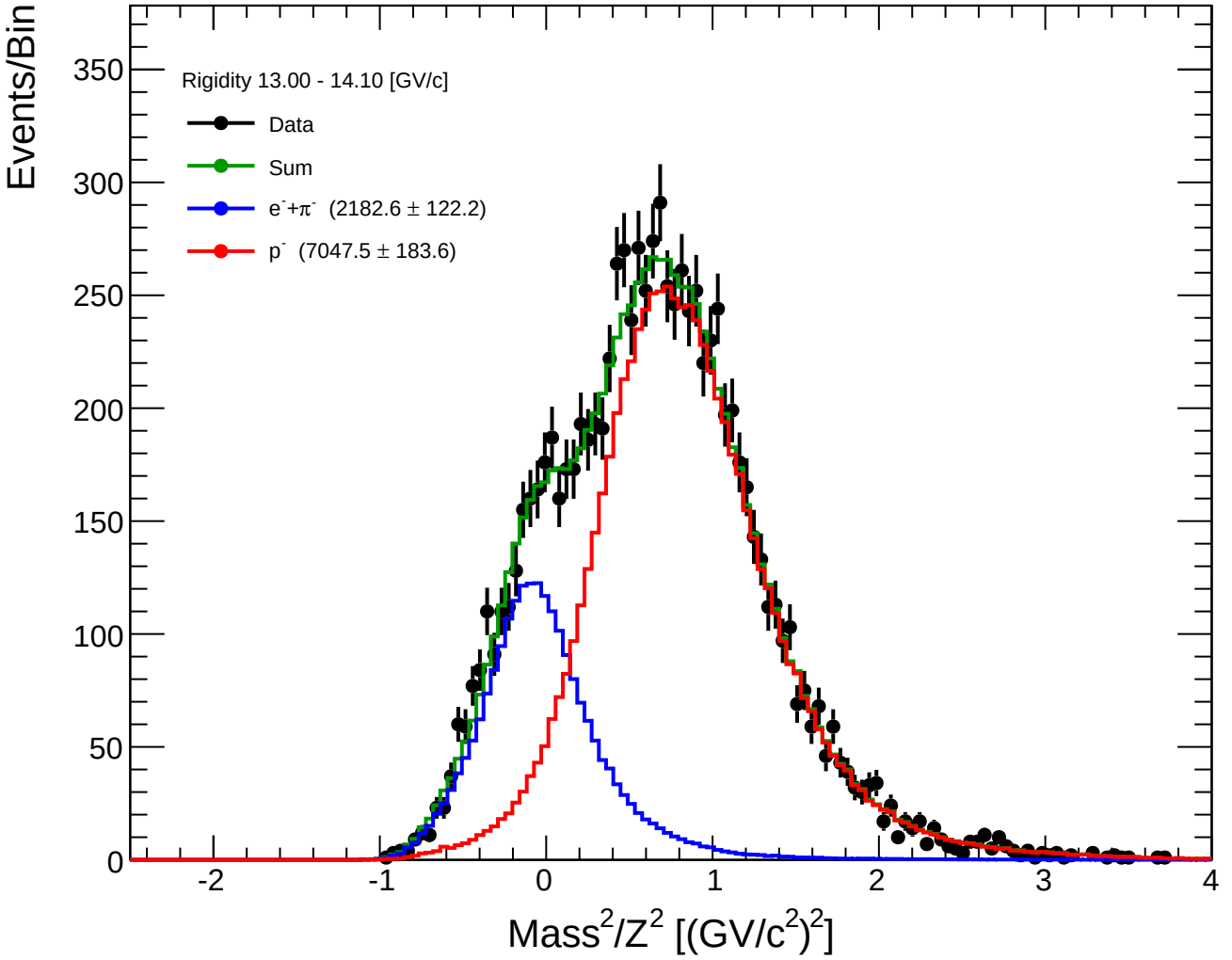

Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1817.6 ± 75.8)
p⁻ (9220.9 ± 161.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
-2
-1
0
1
2
3
4

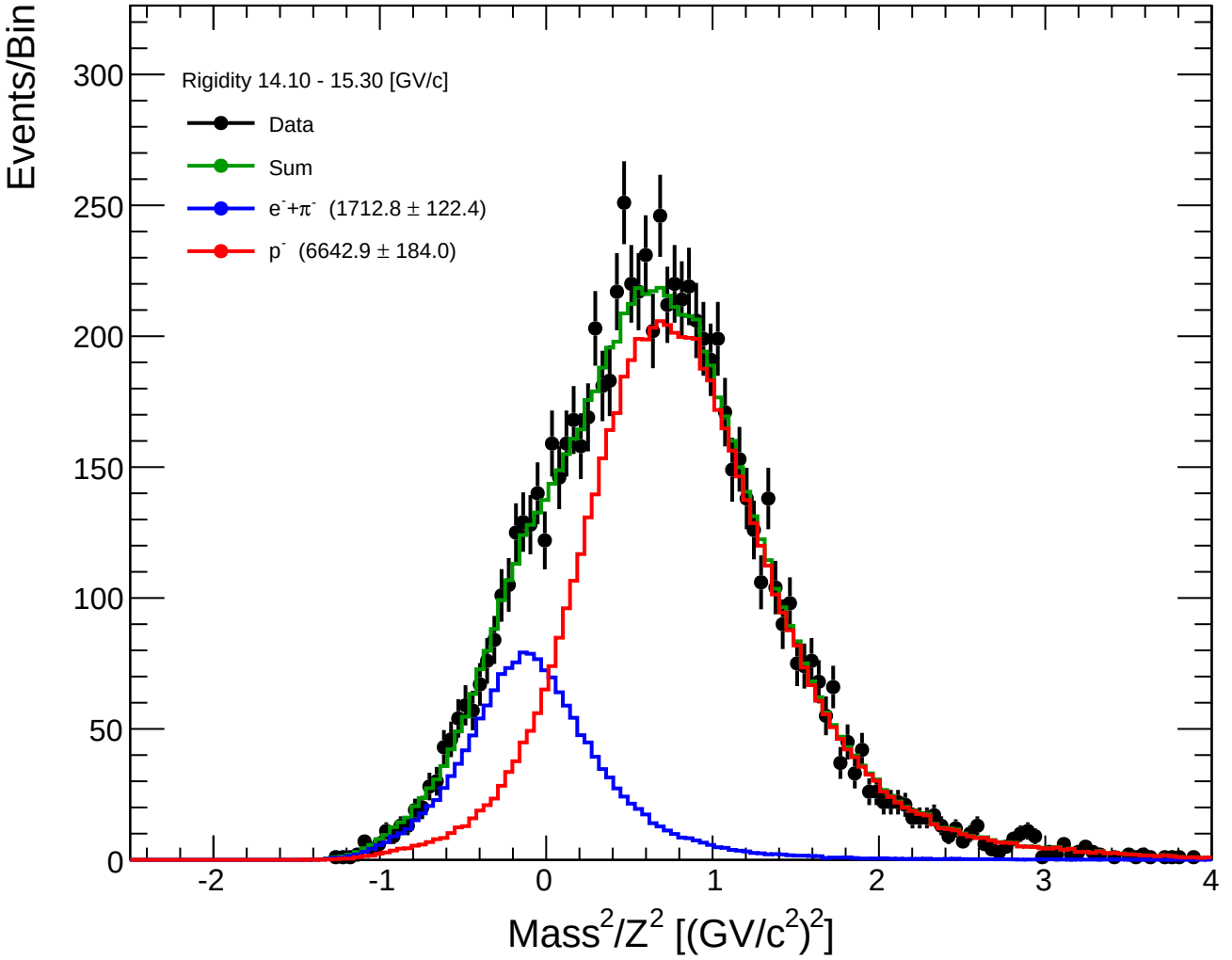

Rigidity 9.26 - 10.10 [GV/c]
Data
Sum
e⁻+π⁻ (2967.3 ± 100.9)
p⁻ (8828.2 ± 166.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
-2
-1
0
1
2
3
4

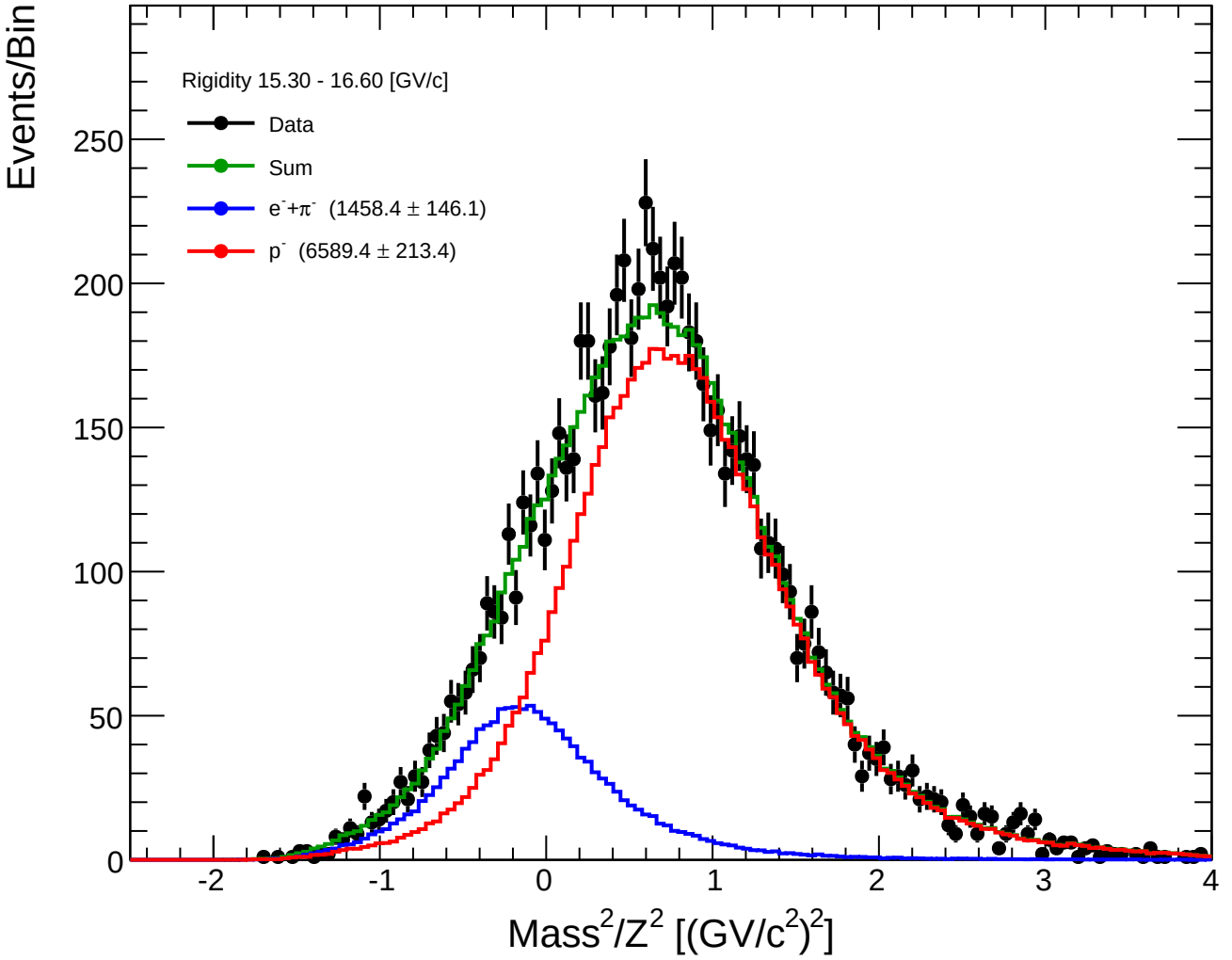

Rigidity 10.10 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (3226.8 ± 116.3)
p⁻ (8179.2 ± 175.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
-2
-1
0
1
2
3
4

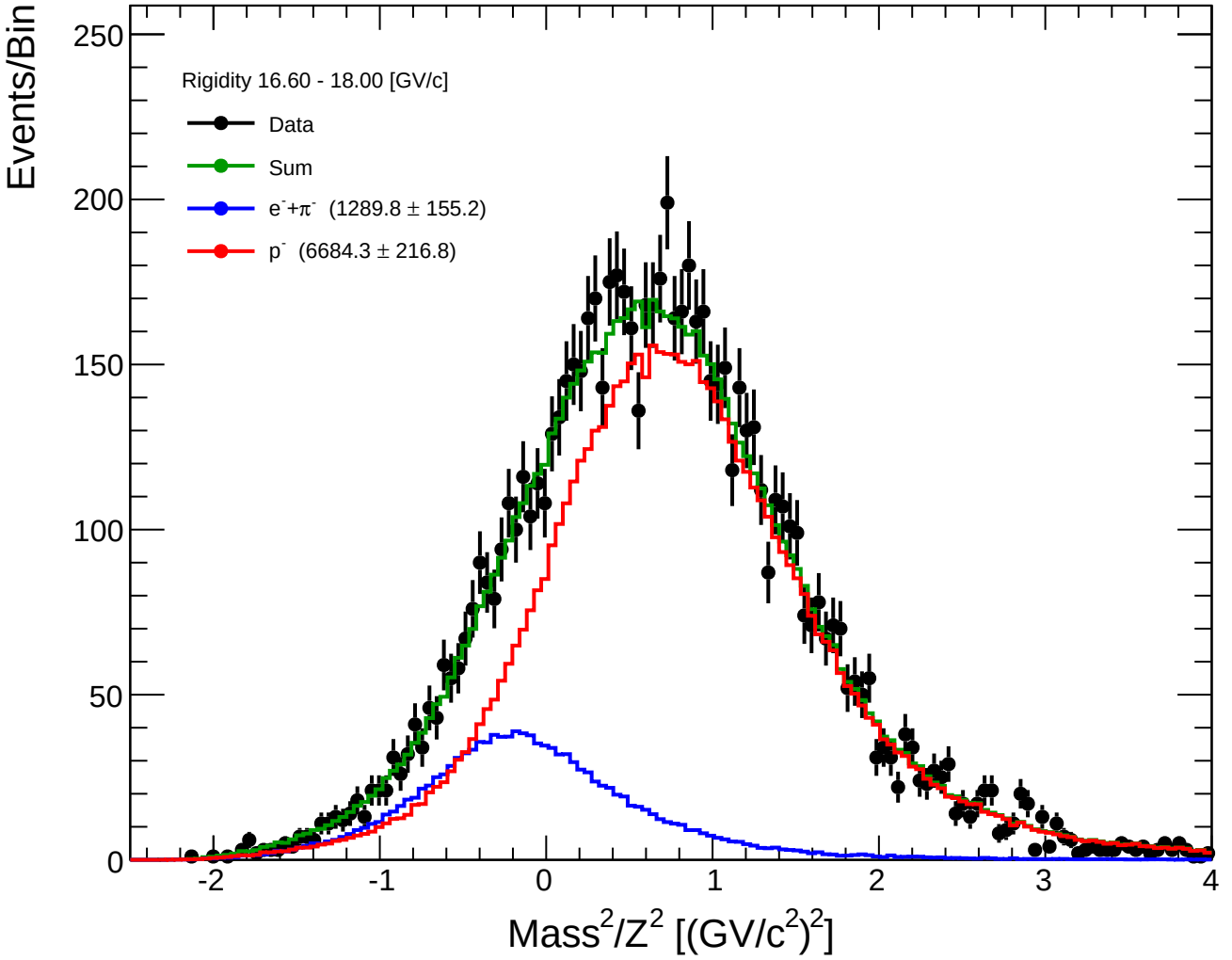

Rigidity 11.00 - 12.00 [GV/c]
Data
Sum
e⁻+π⁻ (3186.3 ± 122.5)
p⁻ (8050.4 ± 181.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
-2
-1
0
1
2
3
4

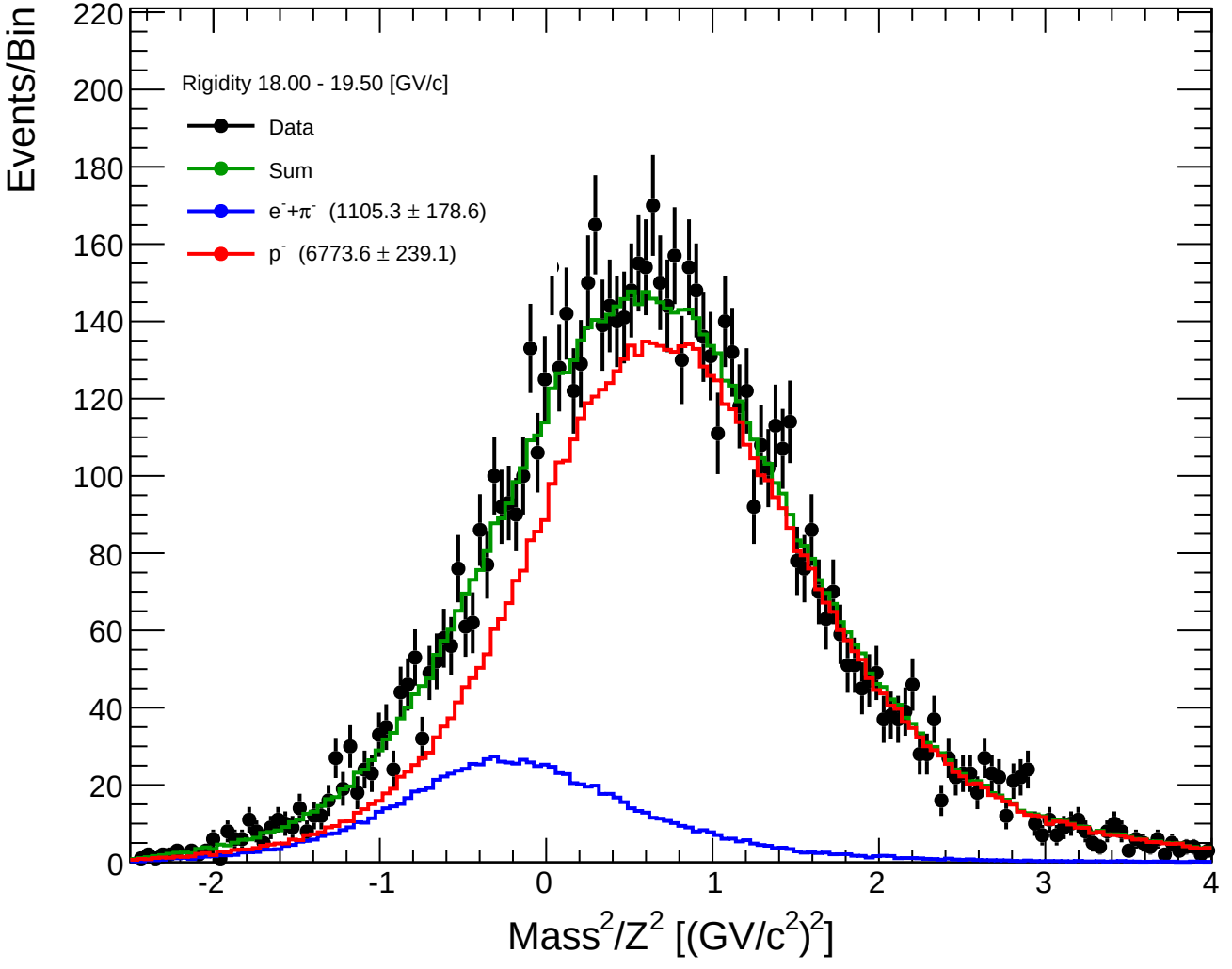

Rigidity 12.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2455.7 ± 119.0)
p⁻ (7119.7 ± 180.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
450
400
350
300
250
200
150
100
50
0
-2
-1
0
1
2
3
4

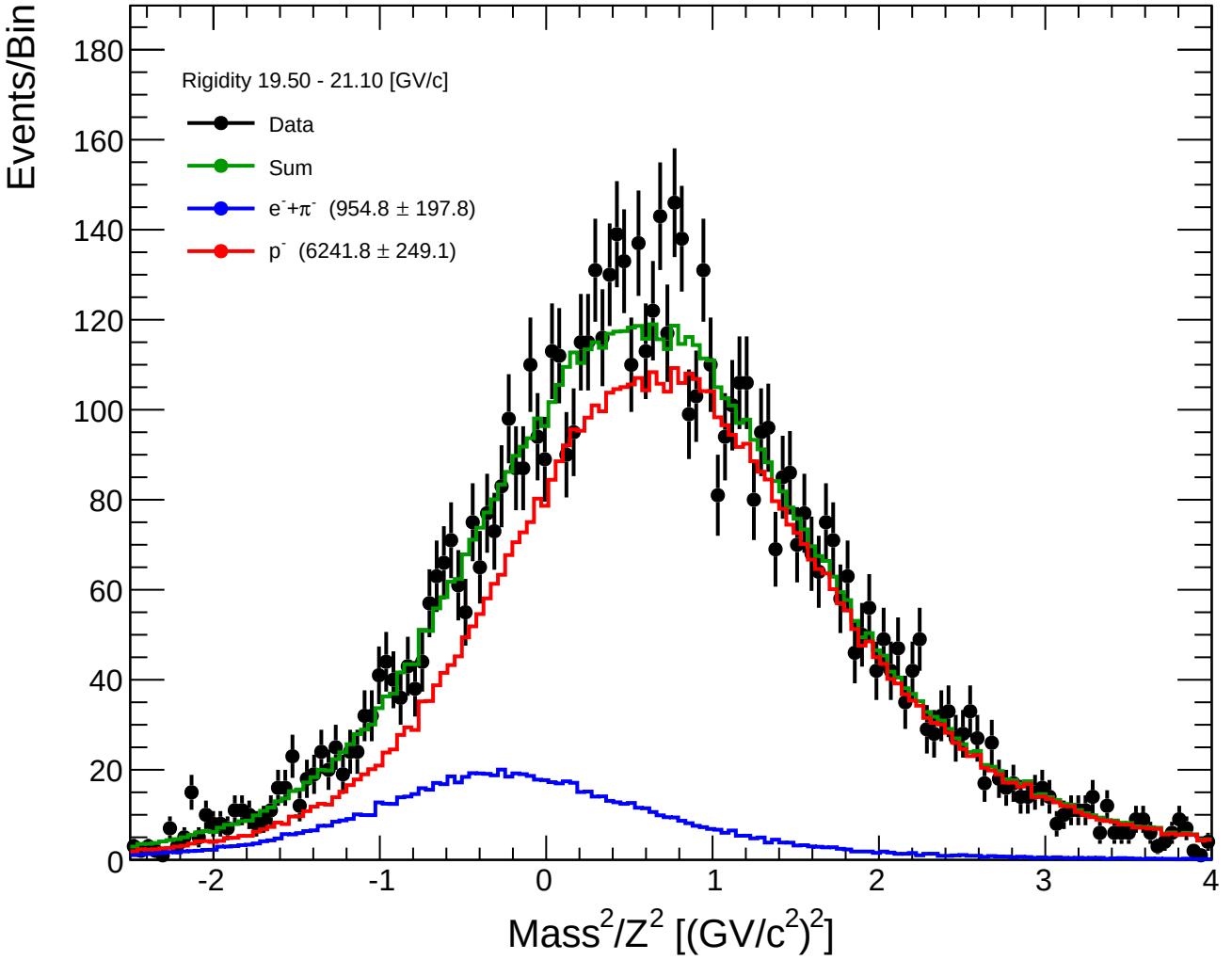

Rigidity 13.00 - 14.10 [GV/c]
Data
Sum
e⁻+π⁻ (2182.6 ± 122.2)
p⁻ (7047.5 ± 183.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
-2
-1
0
1
2
3
4

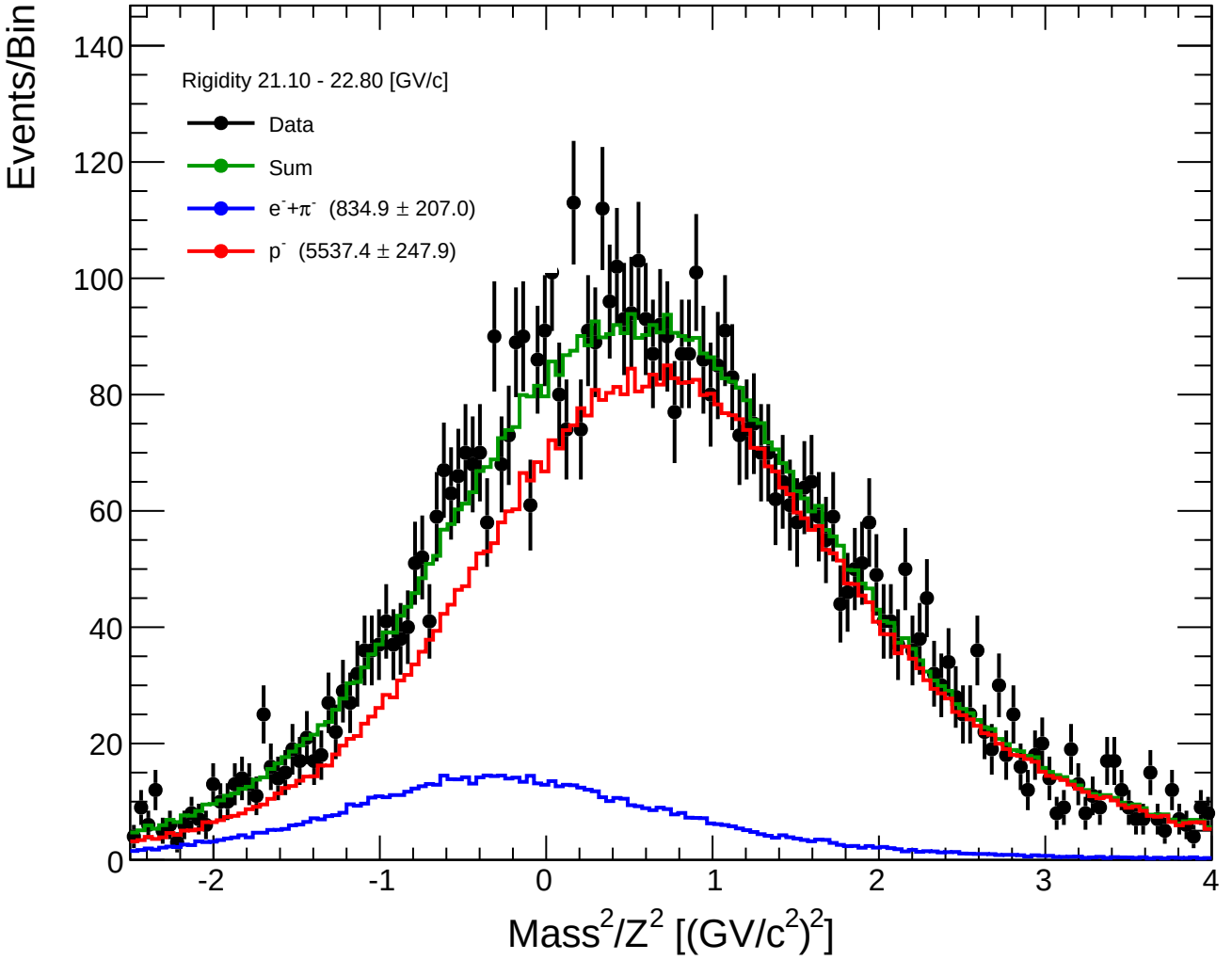

Events/Bin
Rigidity 14.10 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (1712.8 ± 122.4)
p⁻ (6642.9 ± 184.0)
300
250
200
150
100
50
0
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

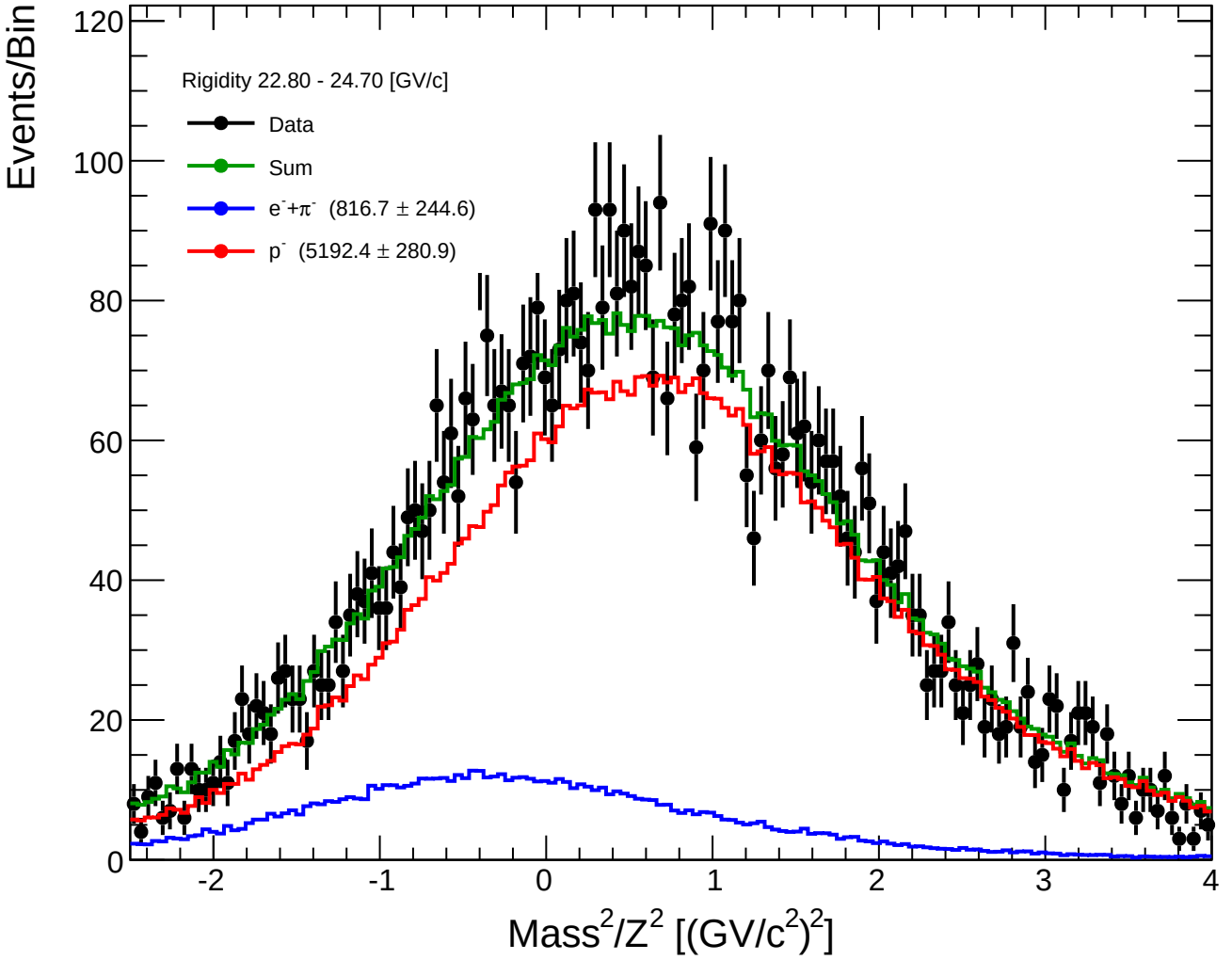

Rigidity 15.30 - 16.60 [GV/c]
Data
Sum
e⁻+π⁻ (1458.4 ± 146.1)
p⁻ (6589.4 ± 213.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
-2
-1
0
1
2
3
4

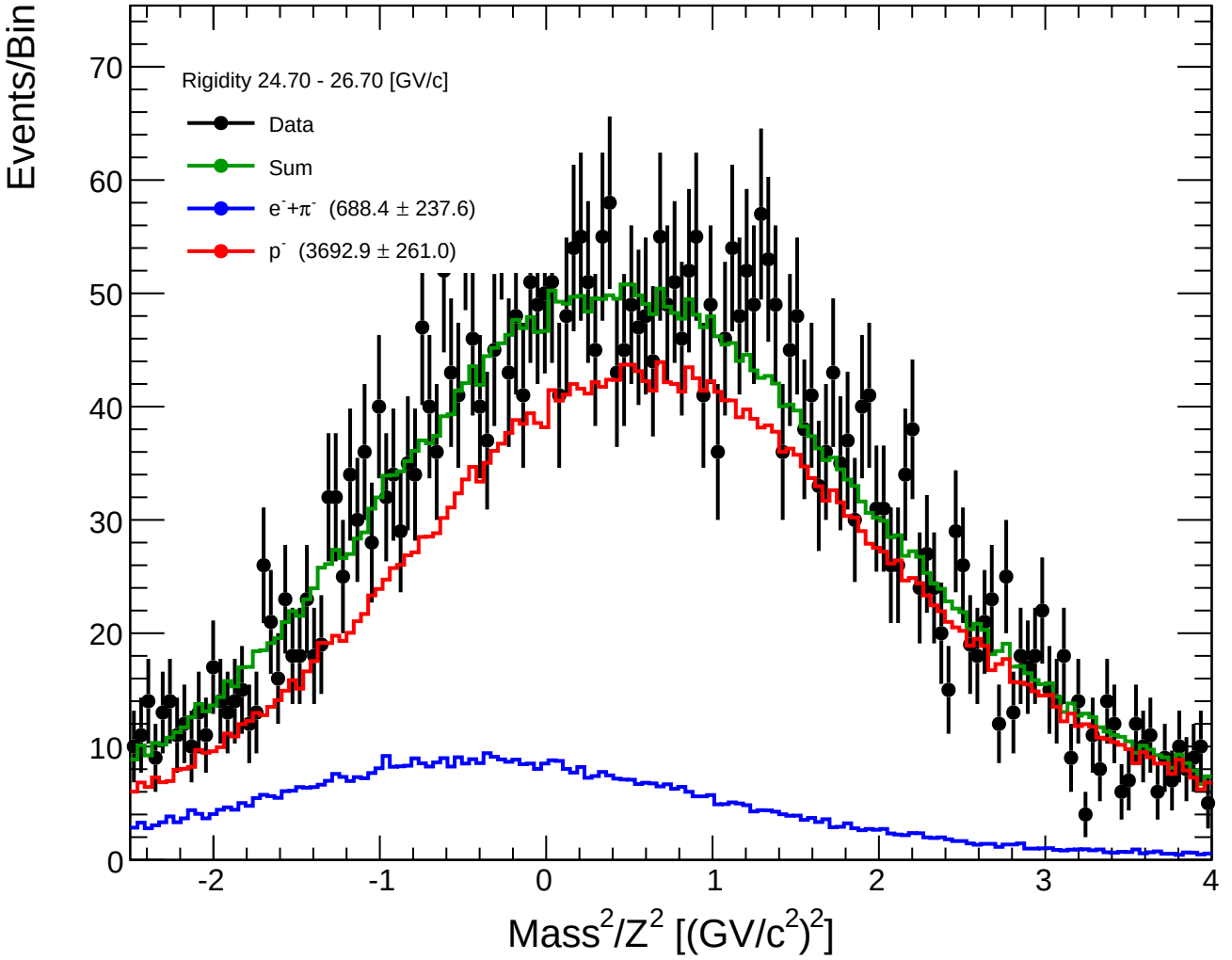

Rigidity 16.60 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1289.8 ± 155.2)
p⁻ (6684.3 ± 216.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
-2
-1
0
1
2
3
4

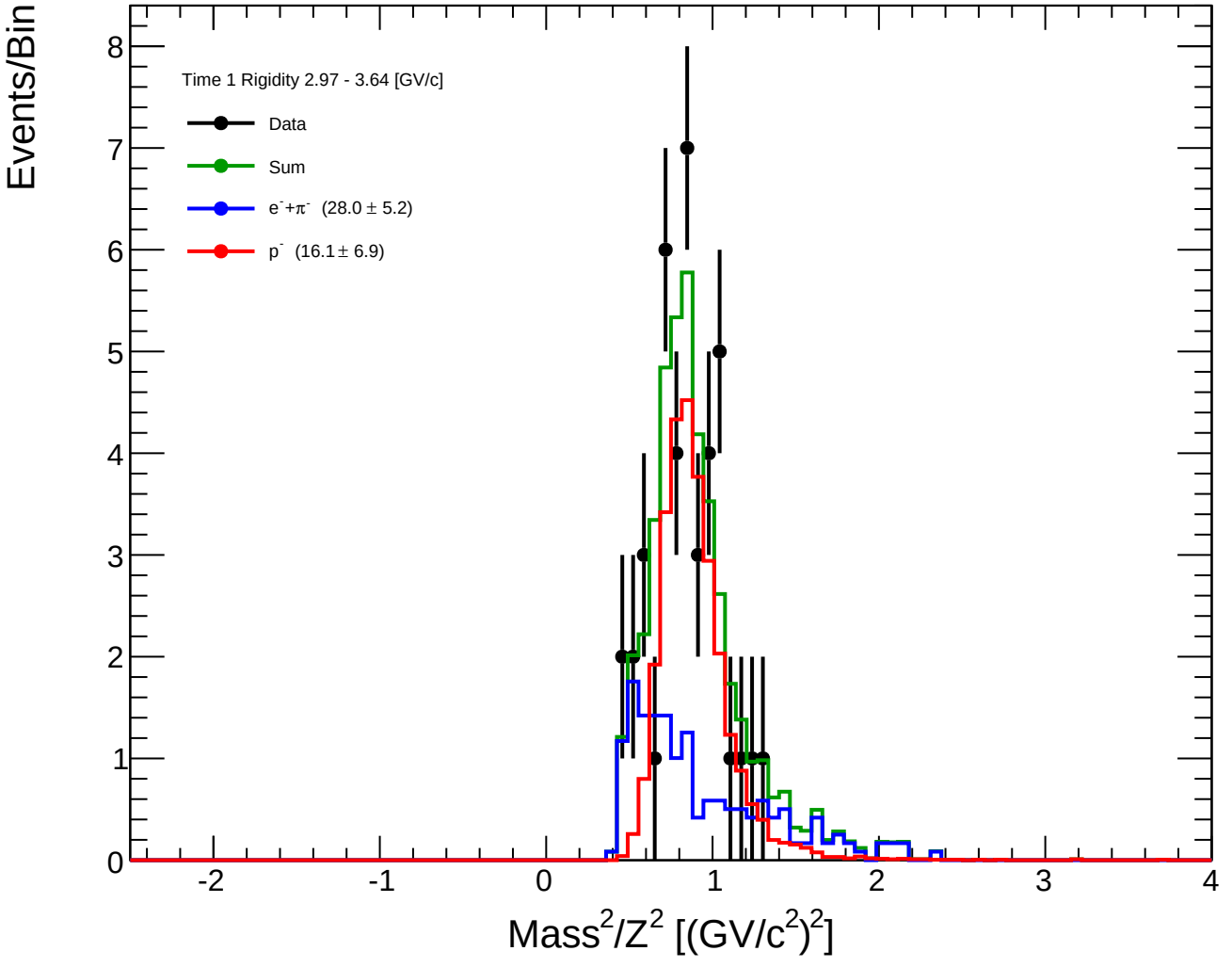

Events/Bin
Rigidity 18.00 - 19.50 [GV/c]
Data
Sum
e⁻+π⁻ (1105.3 ± 178.6)
p⁻ (6773.6 ± 239.1)
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
-2
-1
0
1
2
3
4

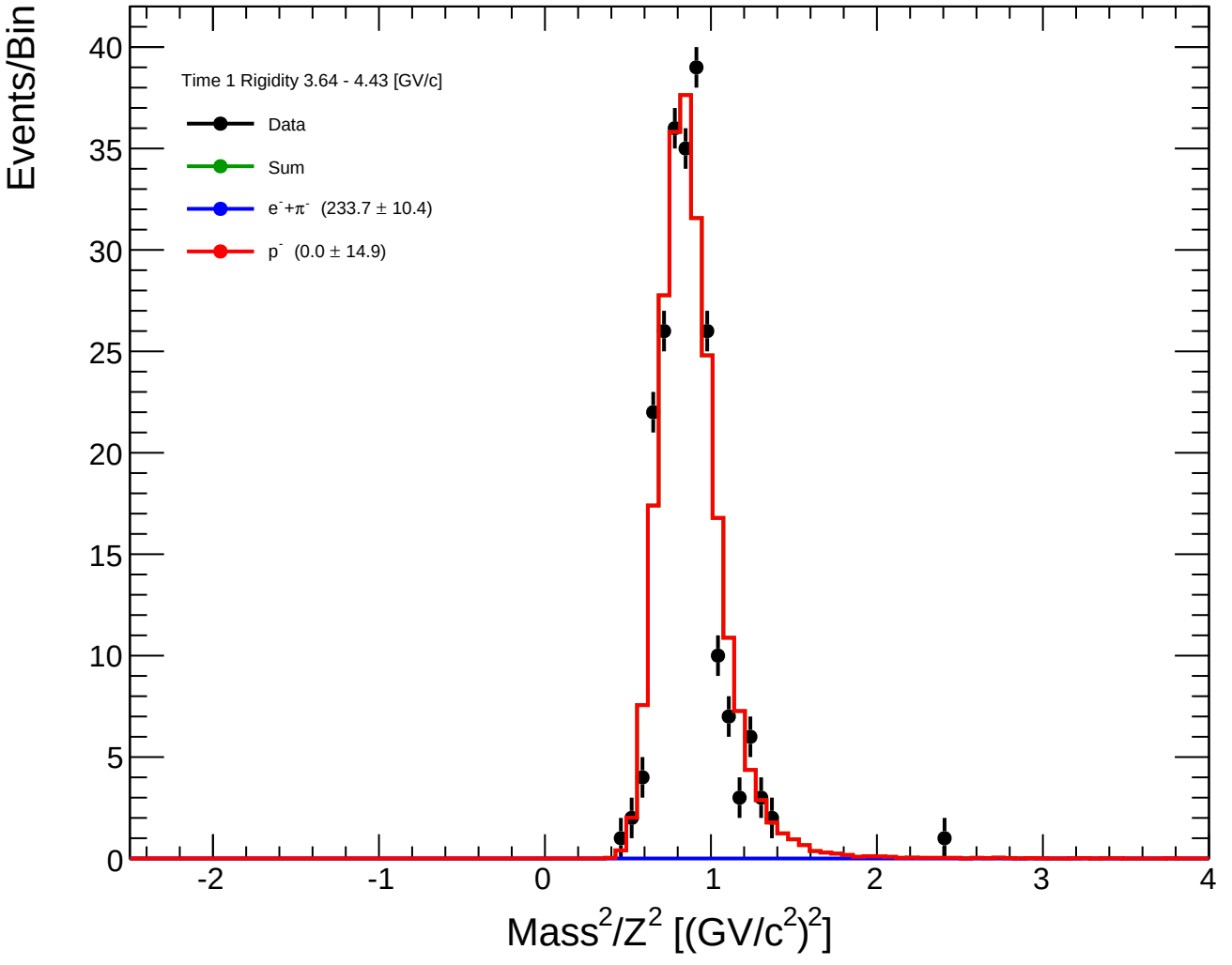

Events/Bin
Rigidity 19.50 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (954.8 ± 197.8)
p⁻ (6241.8 ± 249.1)
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
-2
-1
0
1
2
3
4

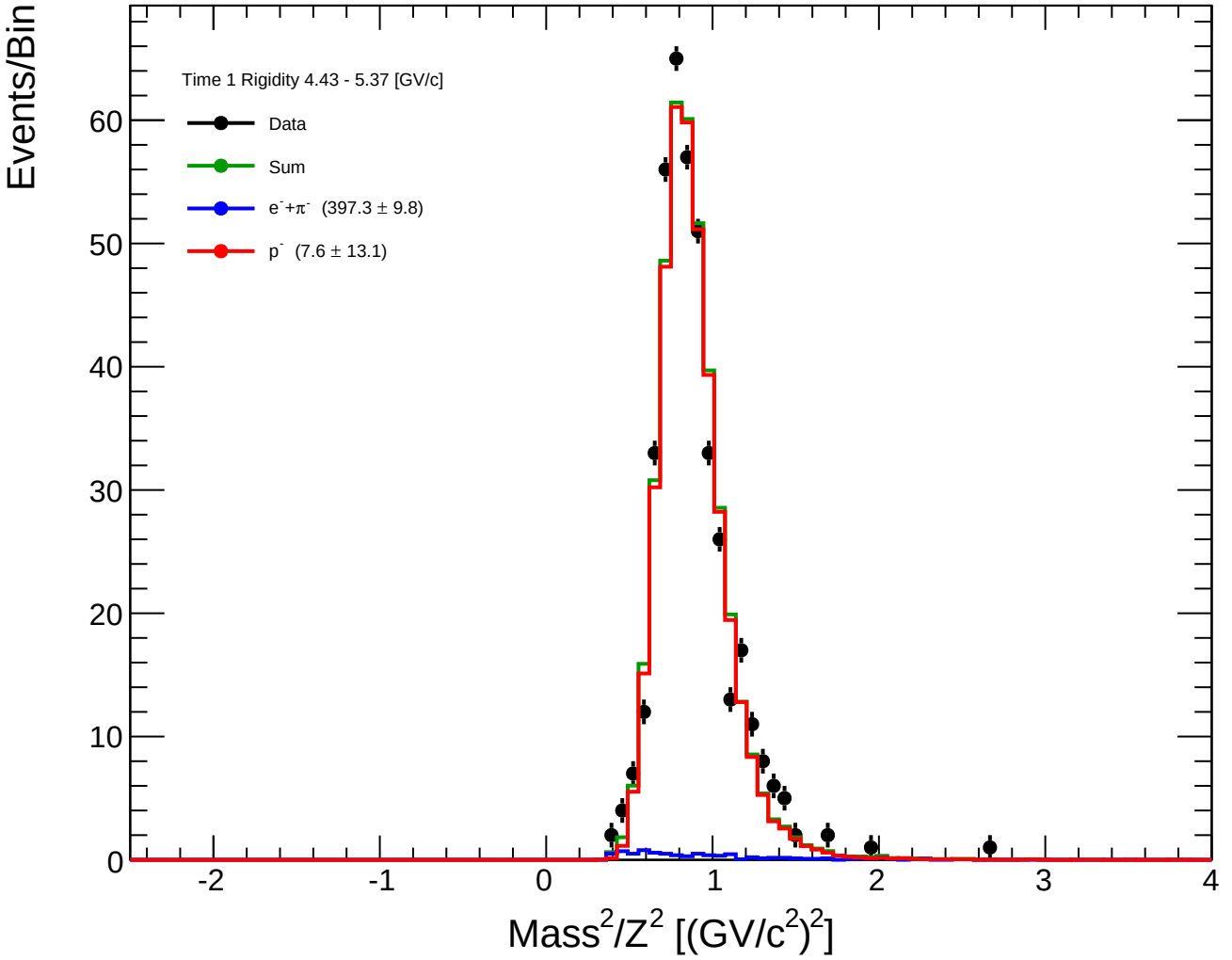

Events/Bin
Rigidity 21.10 - 22.80 [GV/c]
Data
Sum
e⁻+π⁻ (834.9 ± 207.0)
p⁻ (5537.4 ± 247.9)
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
-2
-1
0
1
2
3
4

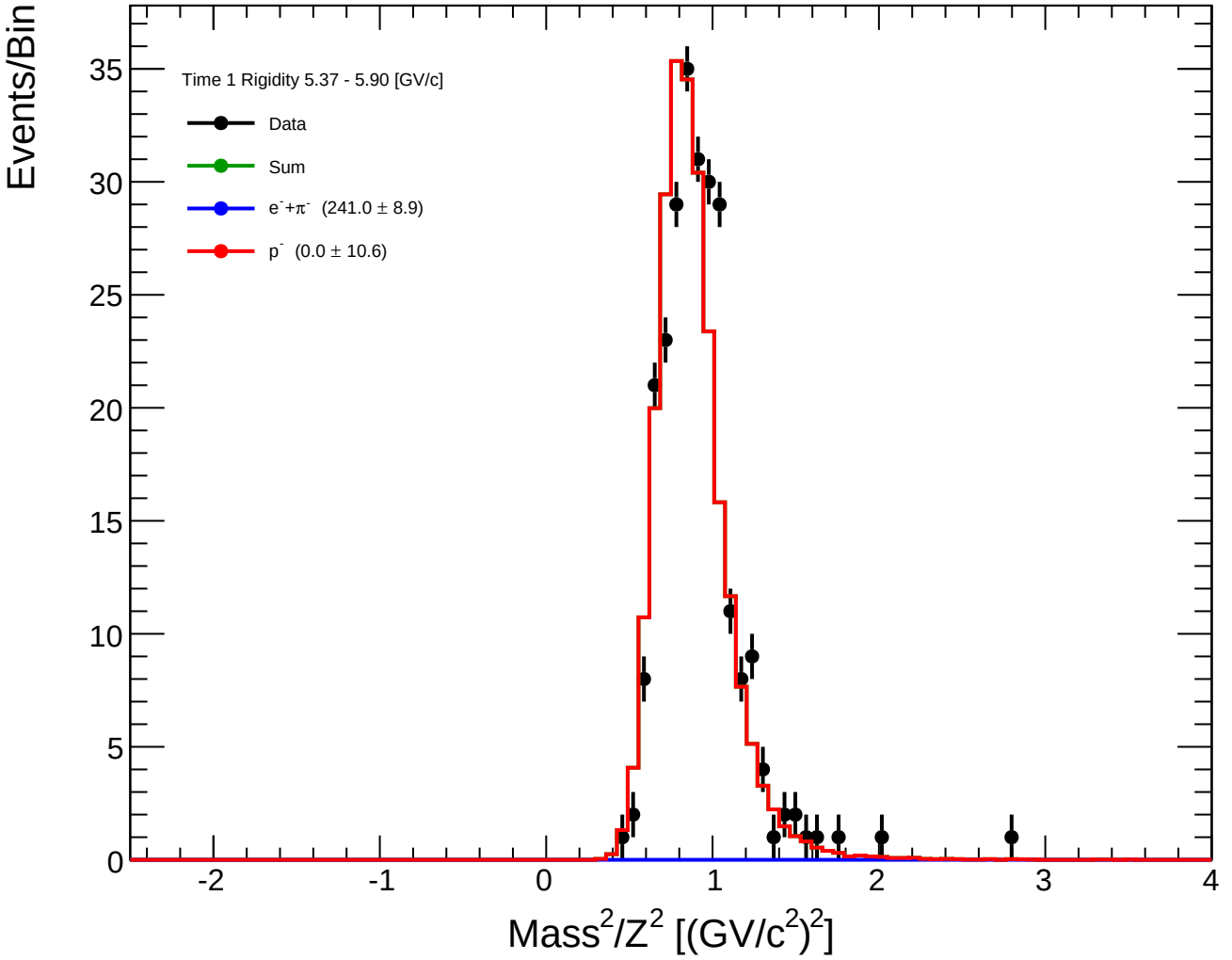

Events/Bin
120
100
80
60
40
20
0
Rigidity 22.80 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (816.7 ± 244.6)
p⁻ (5192.4 ± 280.9)
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

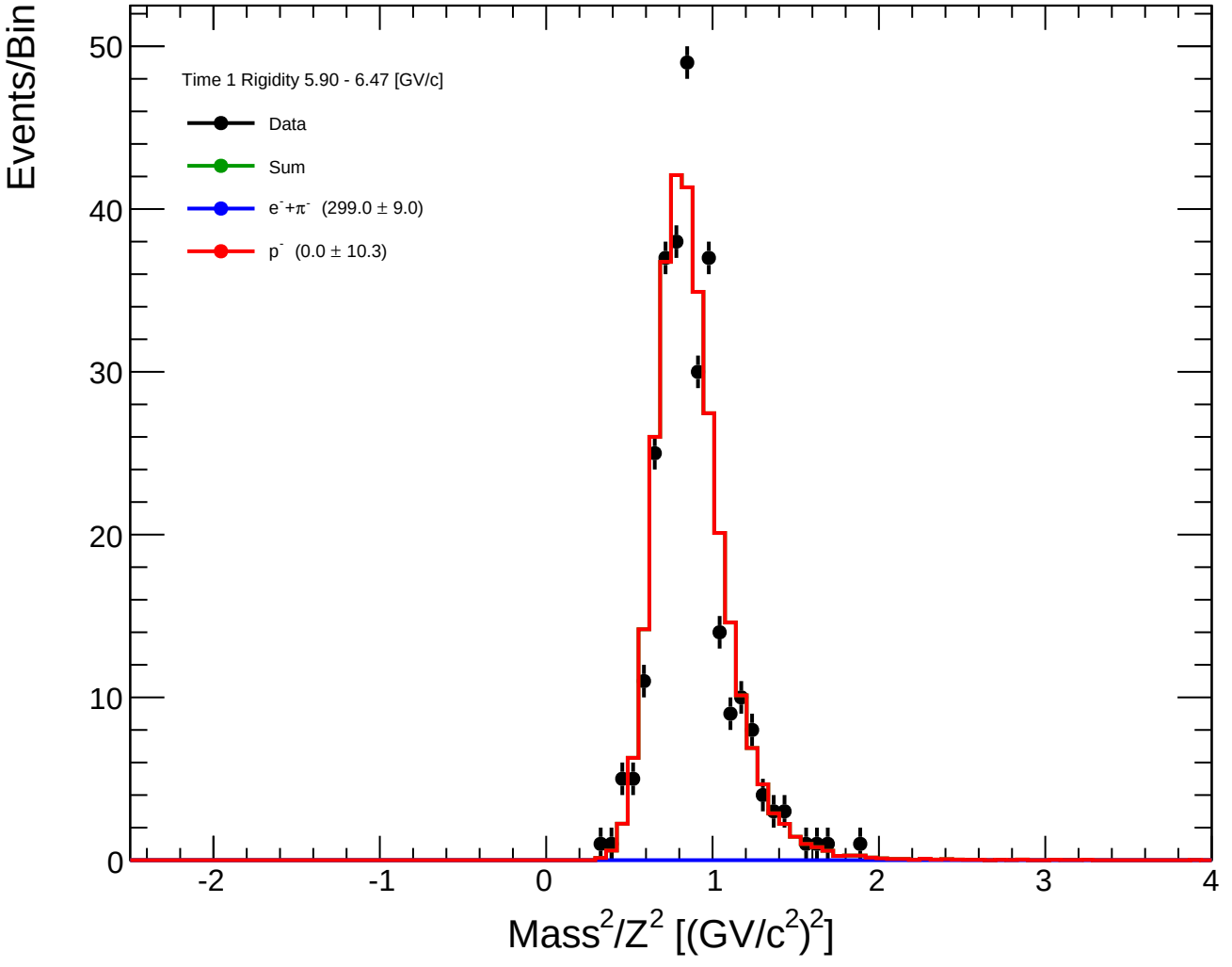

Rigidity 24.70 - 26.70 [GV/c]
Data
Sum
e⁻+π⁻ (688.4 ± 237.6)
p⁻ (3692.9 ± 261.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

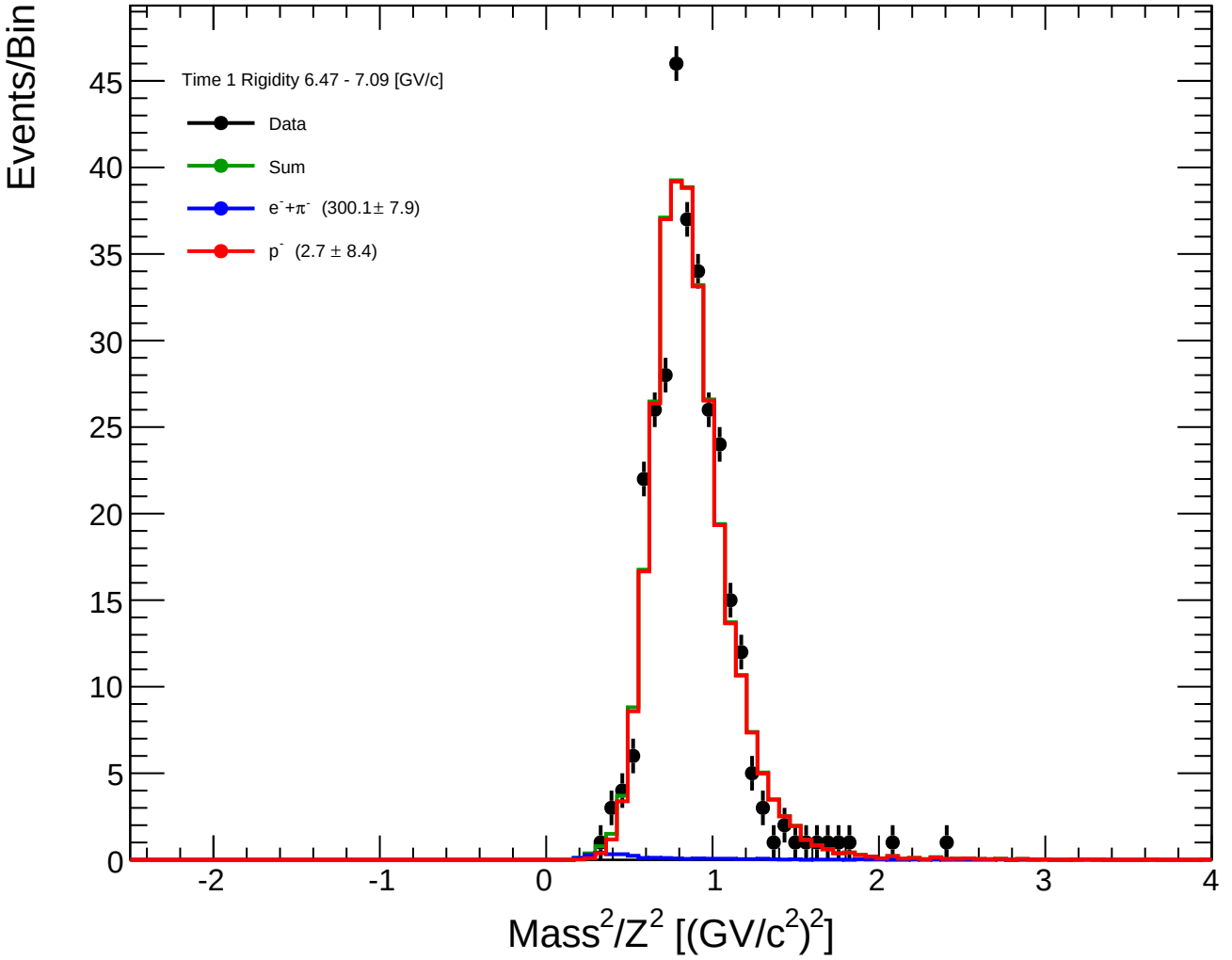

Events/Bin
Time 1 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (28.0 ± 5.2)
p⁻ (16.1± 6.9)
0
1
2
3
4
5
6
7
8
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

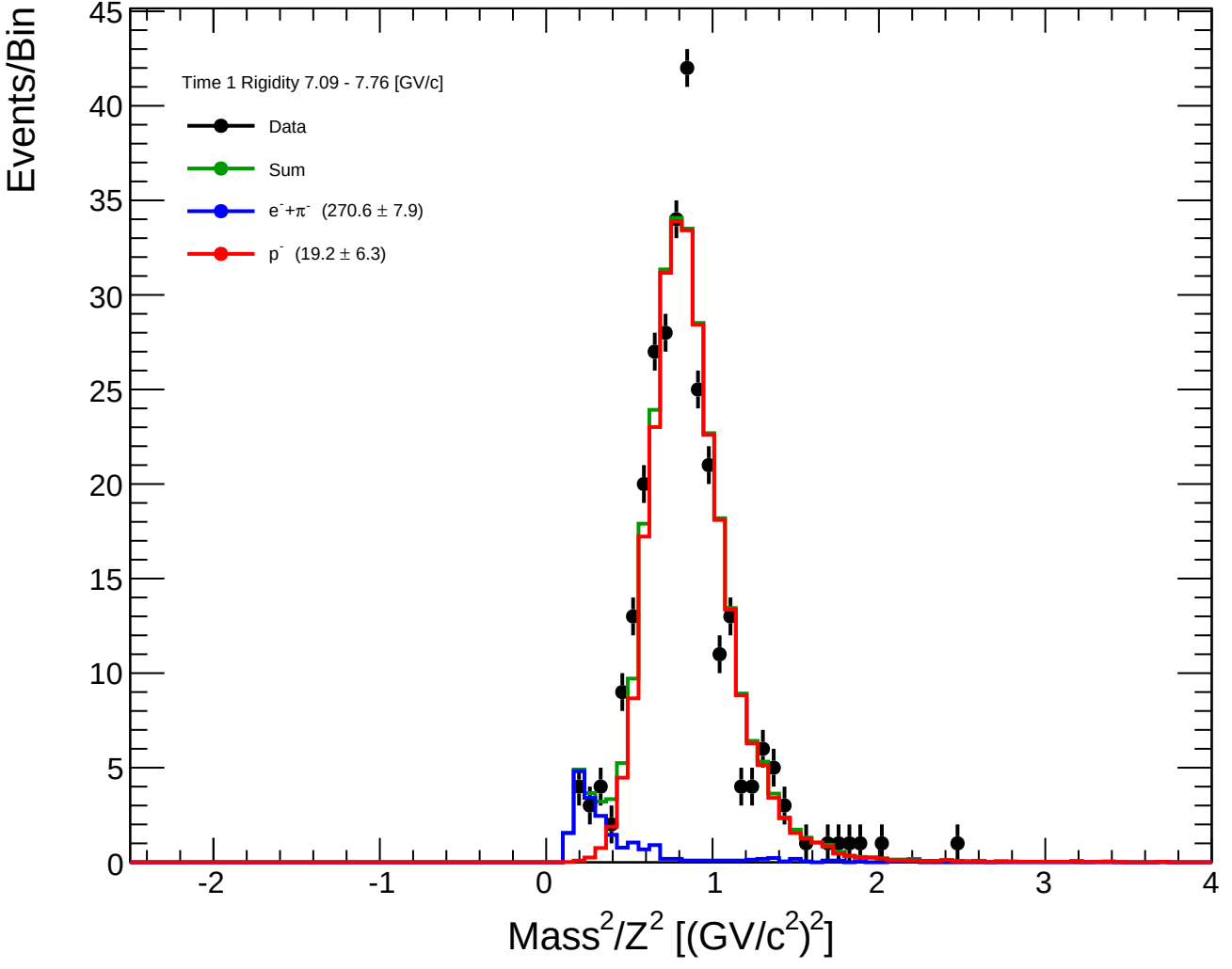

Time 1 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (233.7 ± 10.4)
p⁻ (0.0 ± 14.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

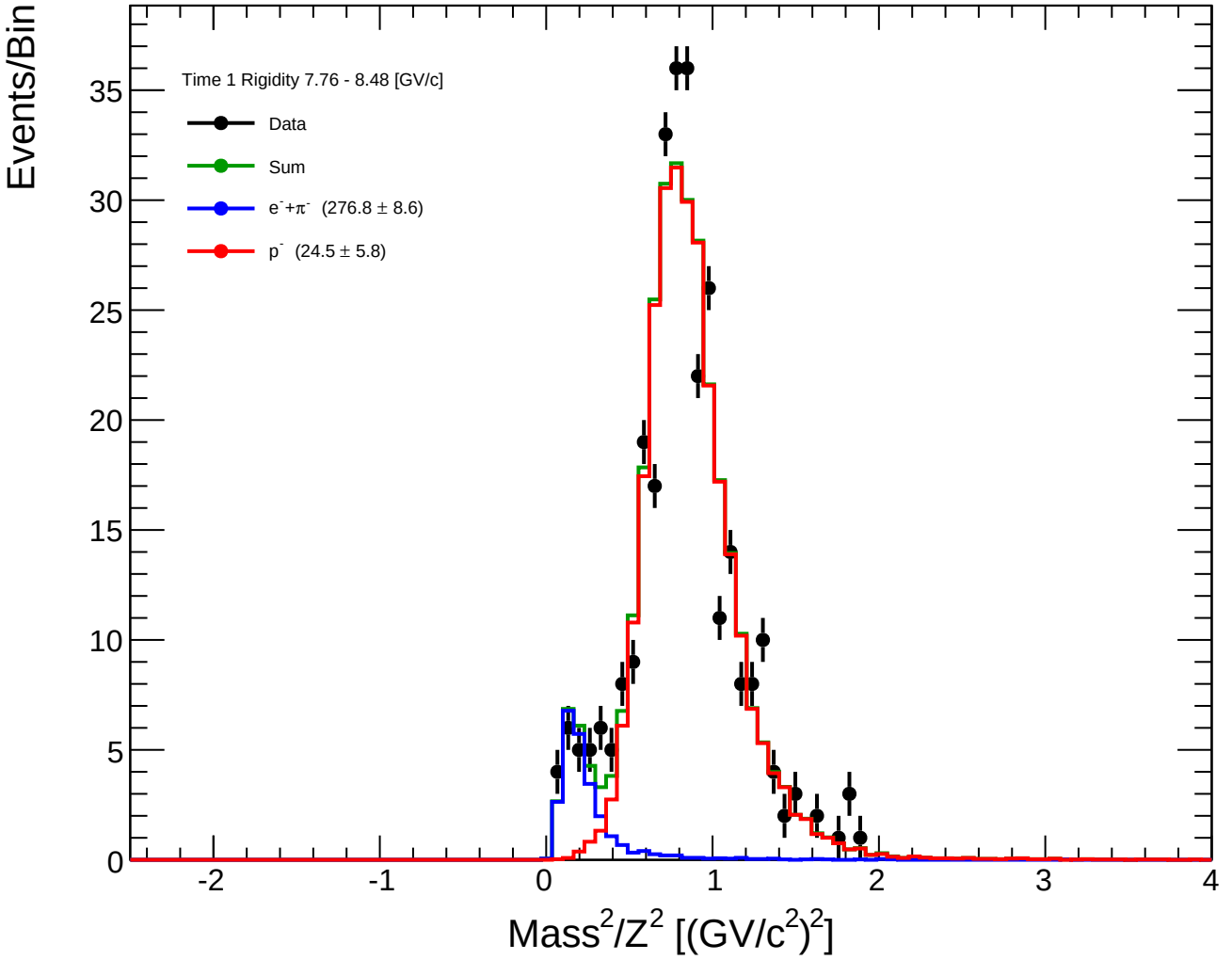

Time 1 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (397.3 ± 9.8)
p⁻ (7.6 ± 13.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

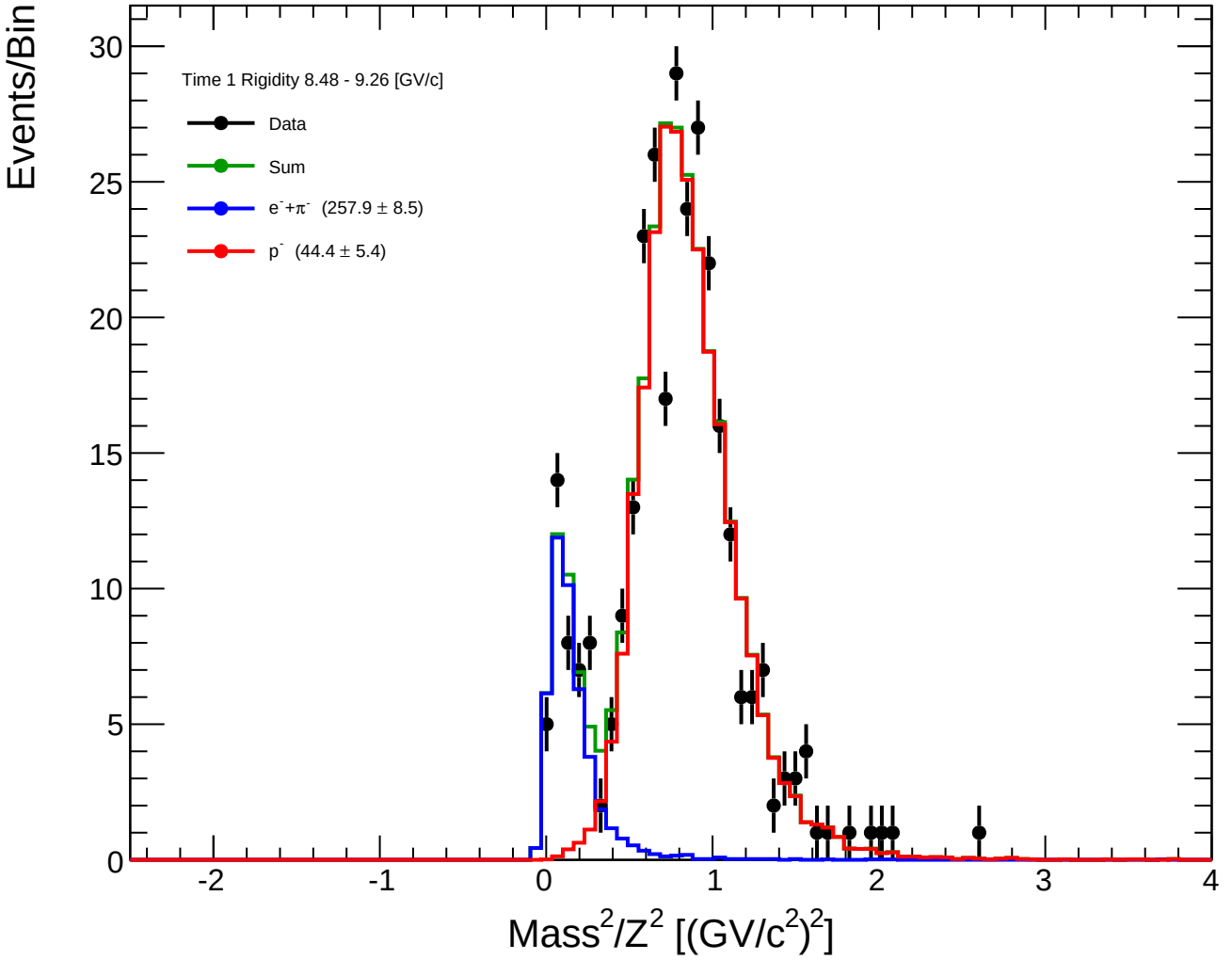

Time 1 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (241.0 ± 8.9)
p⁻ (0.0 ± 10.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

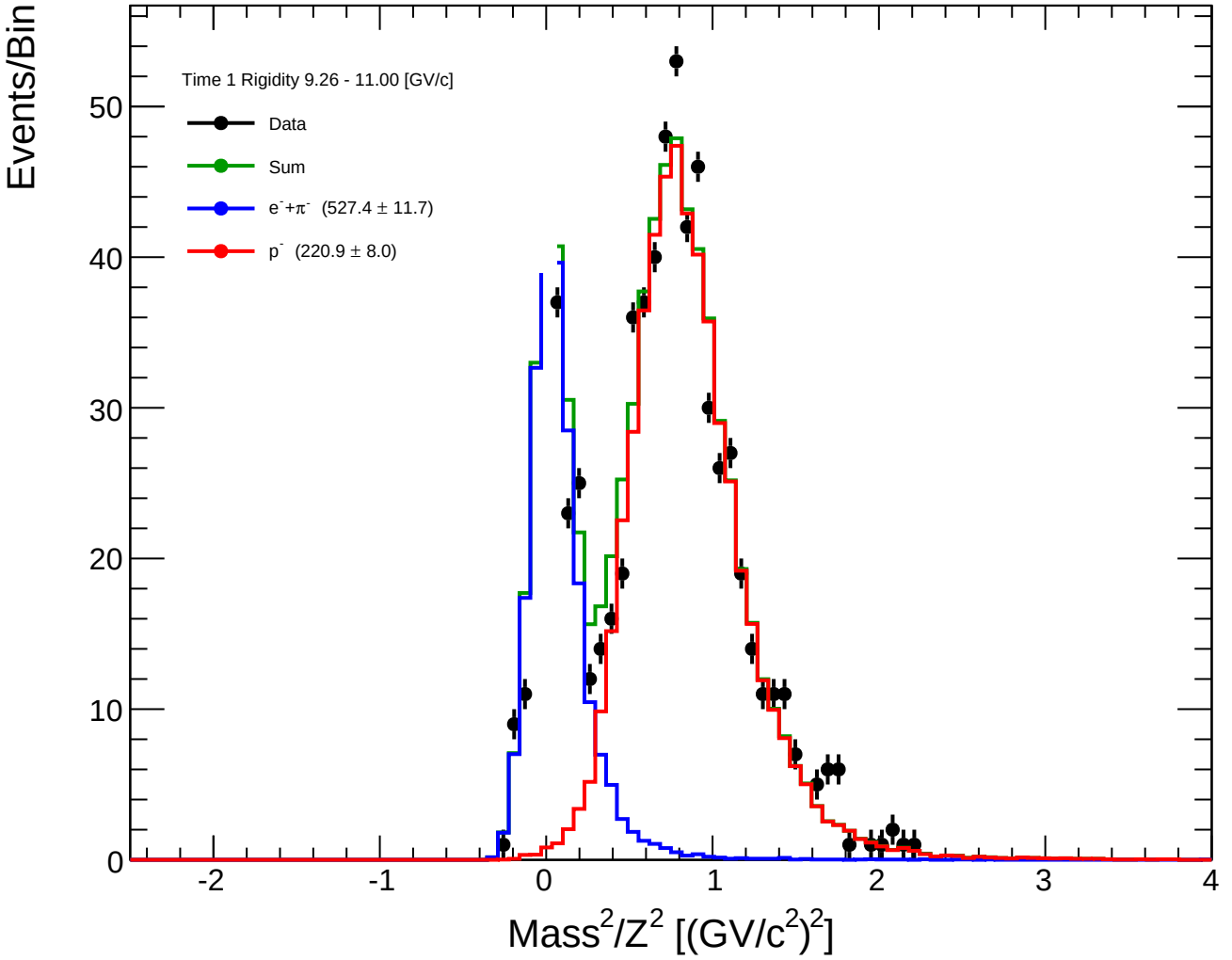

Time 1 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (299.0 ± 9.0)
p⁻ (0.0 ± 10.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

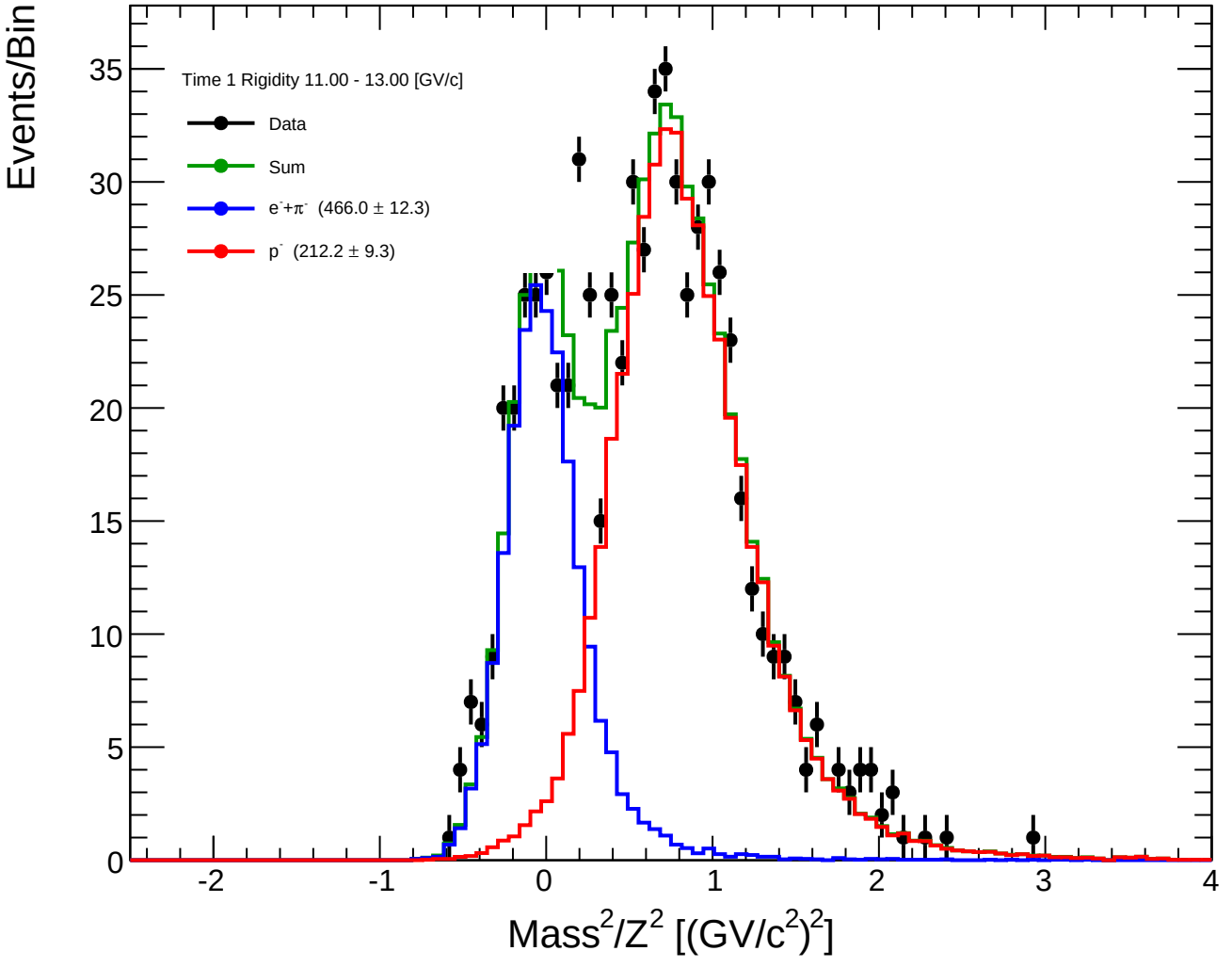

Time 1 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (300.1± 7.9)
p⁻ (2.7 ± 8.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

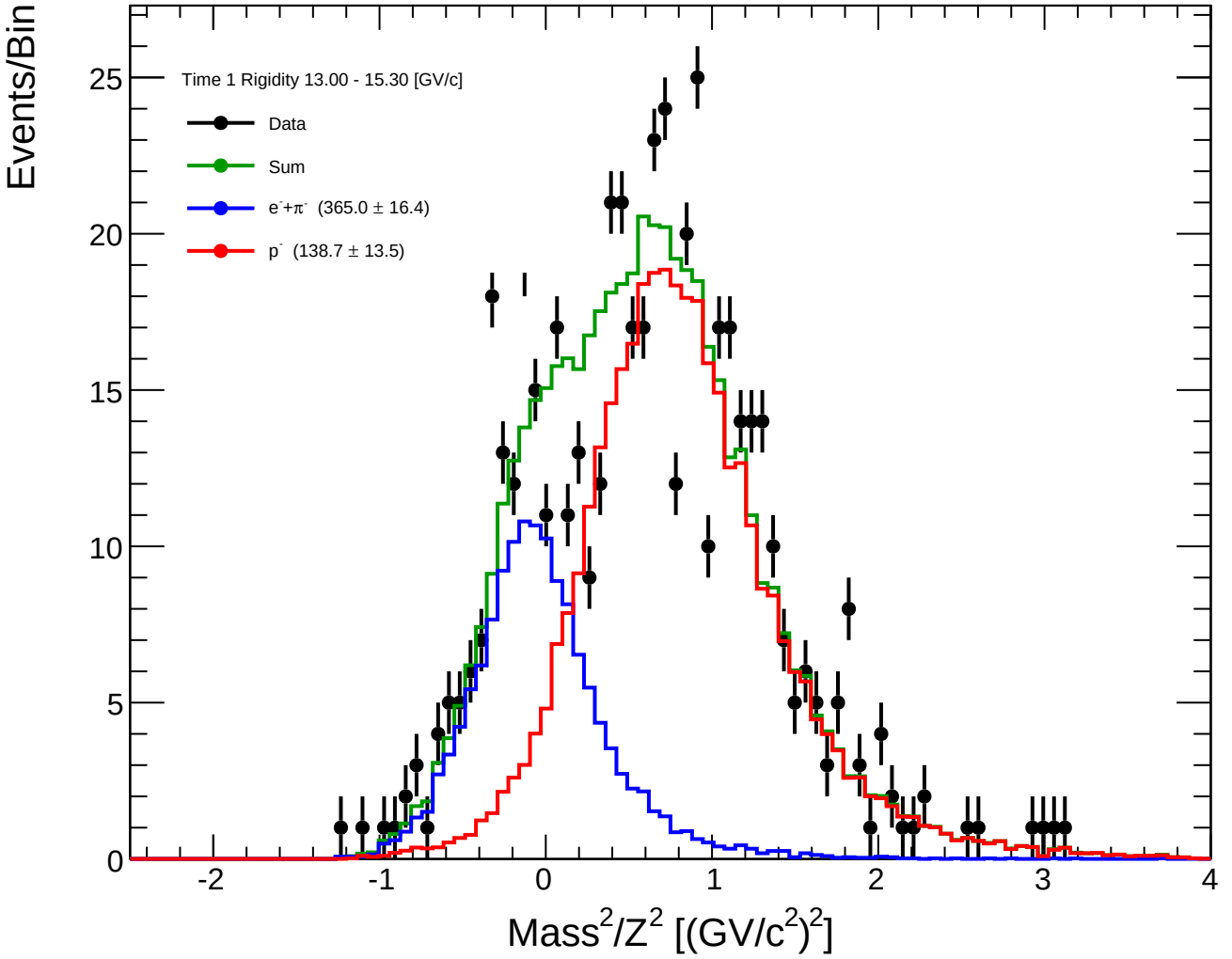

Time 1 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (270.6 ± 7.9)
p⁻ (19.2 ± 6.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

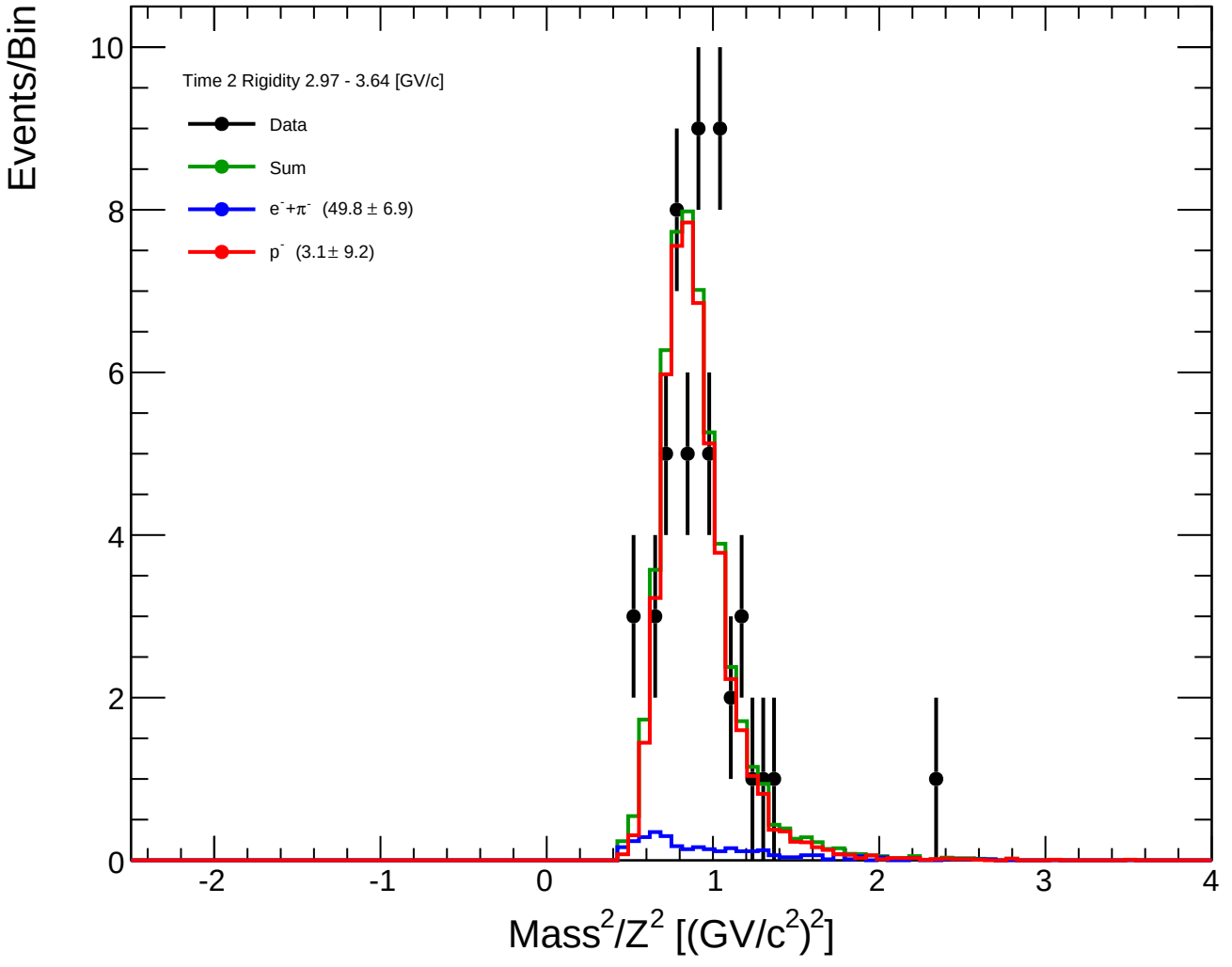

Time 1 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (276.8 ± 8.6)
p⁻ (24.5 ± 5.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

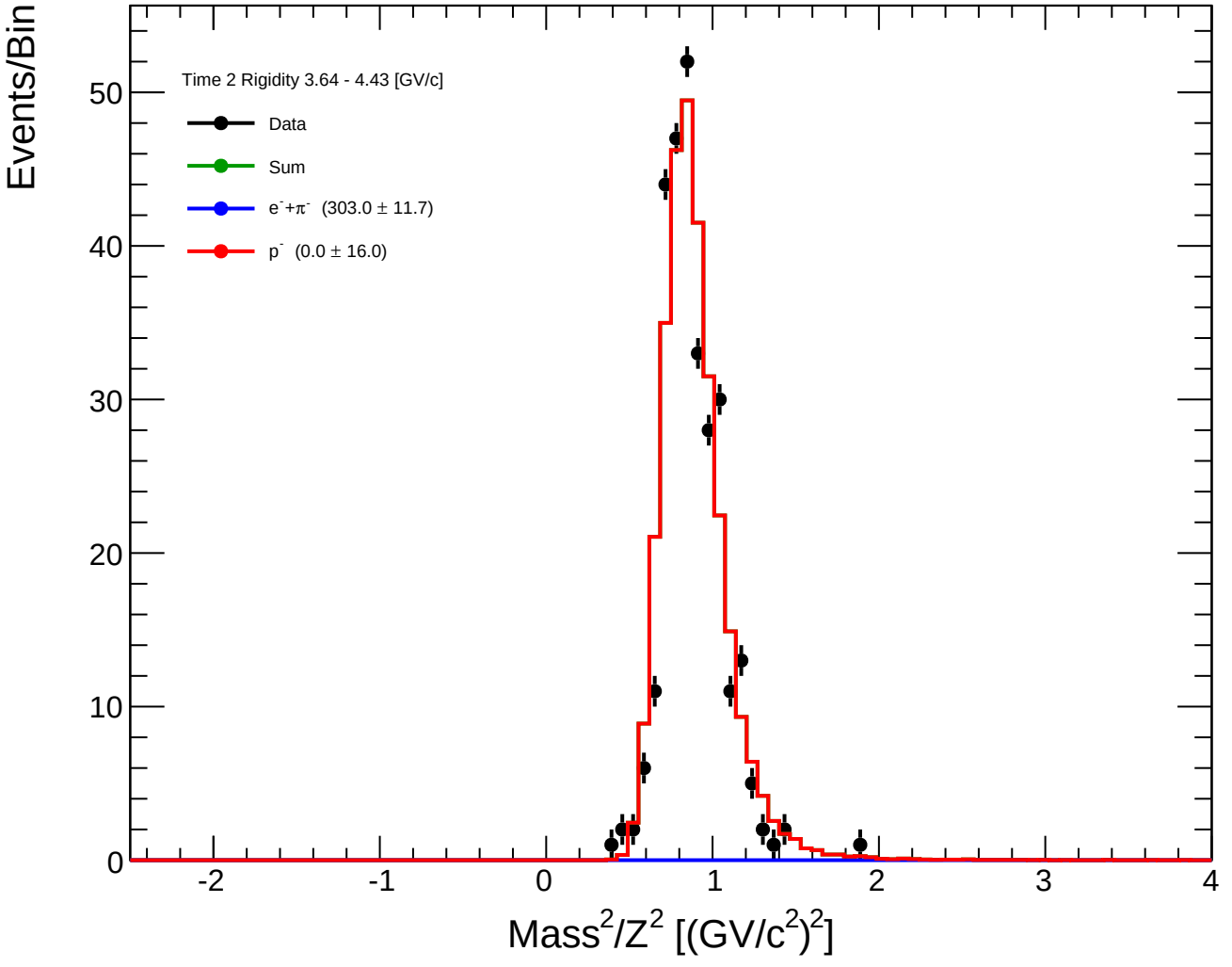

Time 1 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (257.9 ± 8.5)
p⁻ (44.4 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

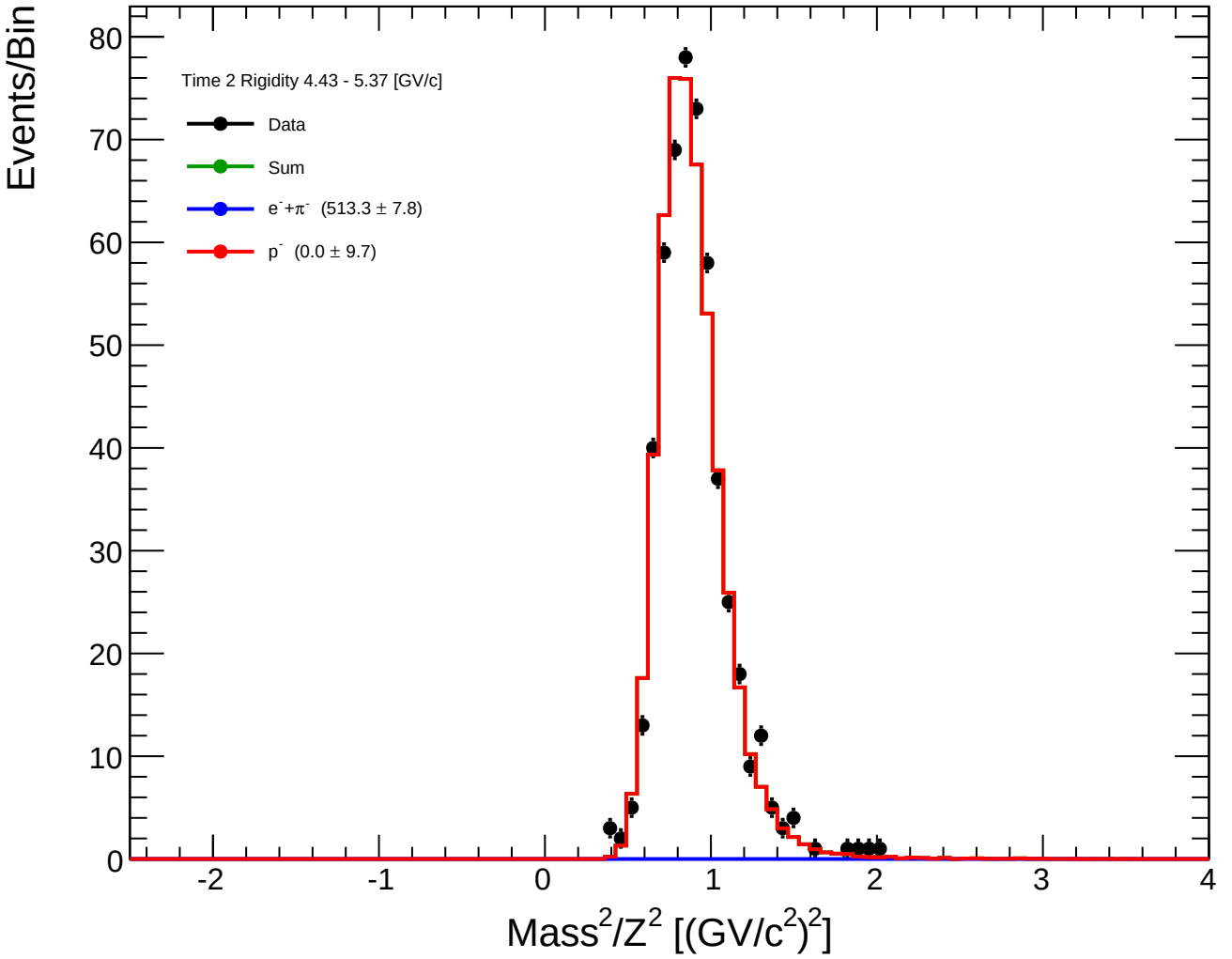

Time 1 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (527.4 ± 11.7)
p⁻ (220.9 ± 8.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

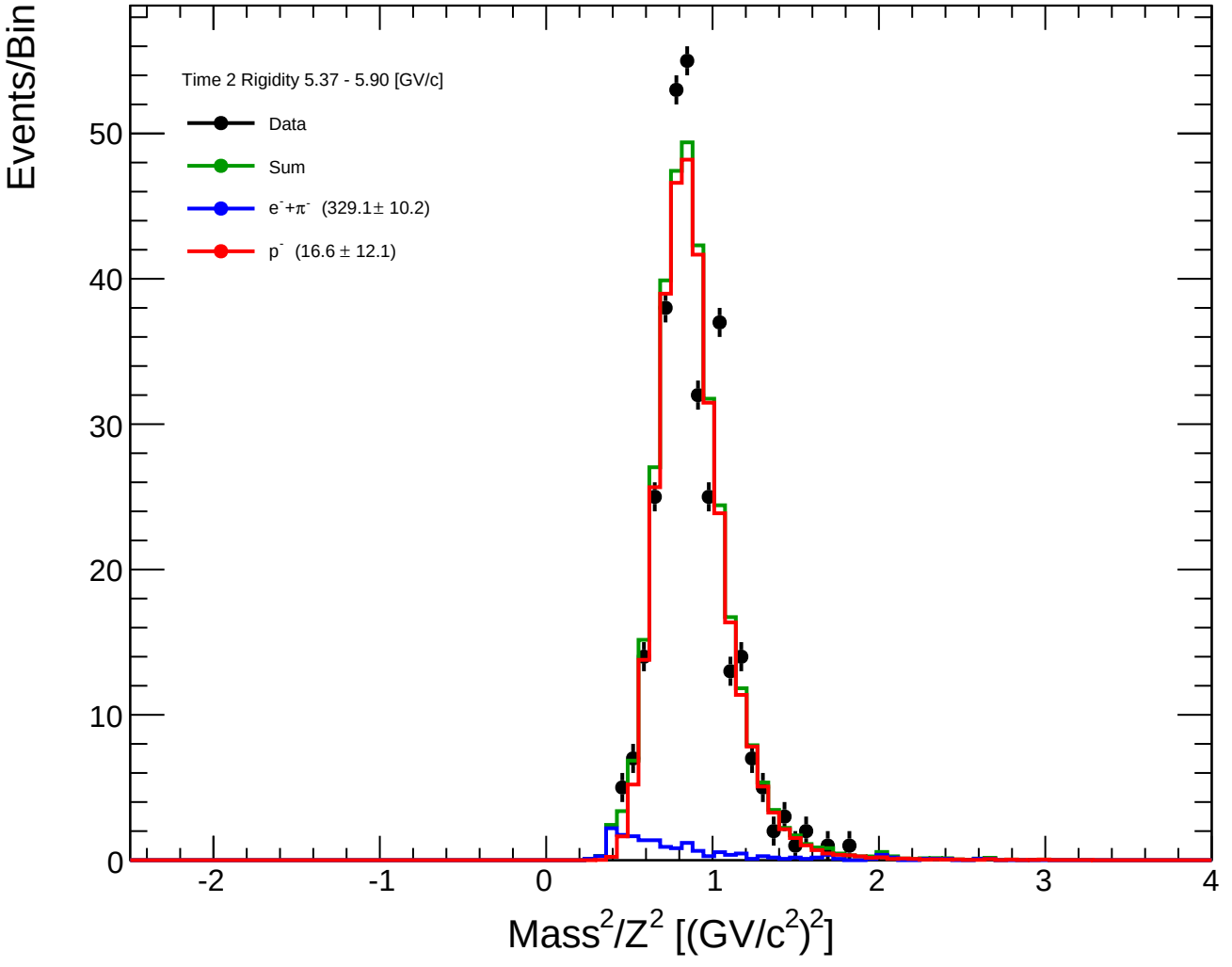

Time 1 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (466.0 ± 12.3)
p⁻ (212.2 ± 9.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

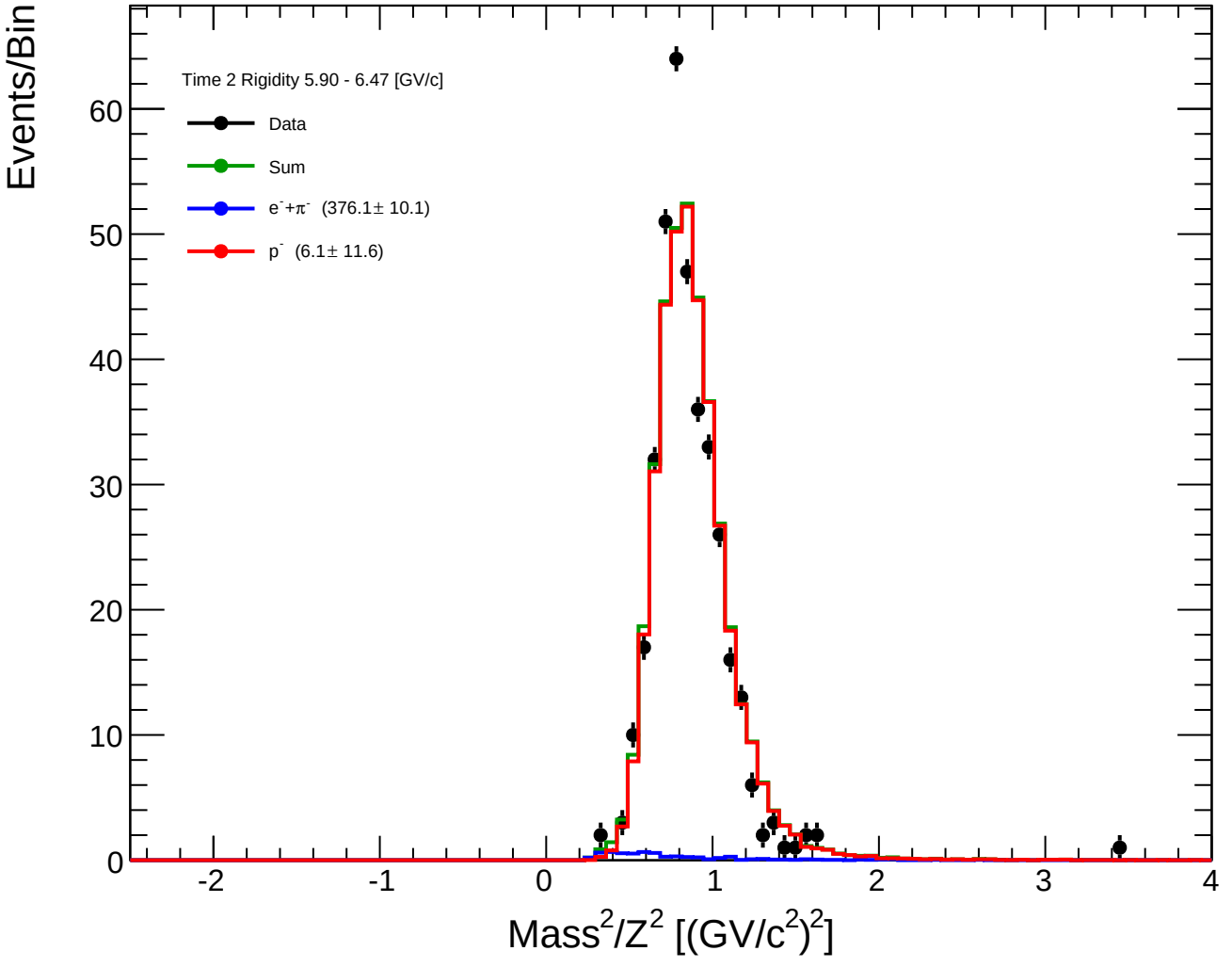

Time 1 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (365.0 ± 16.4)
p⁻ (138.7 ± 13.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

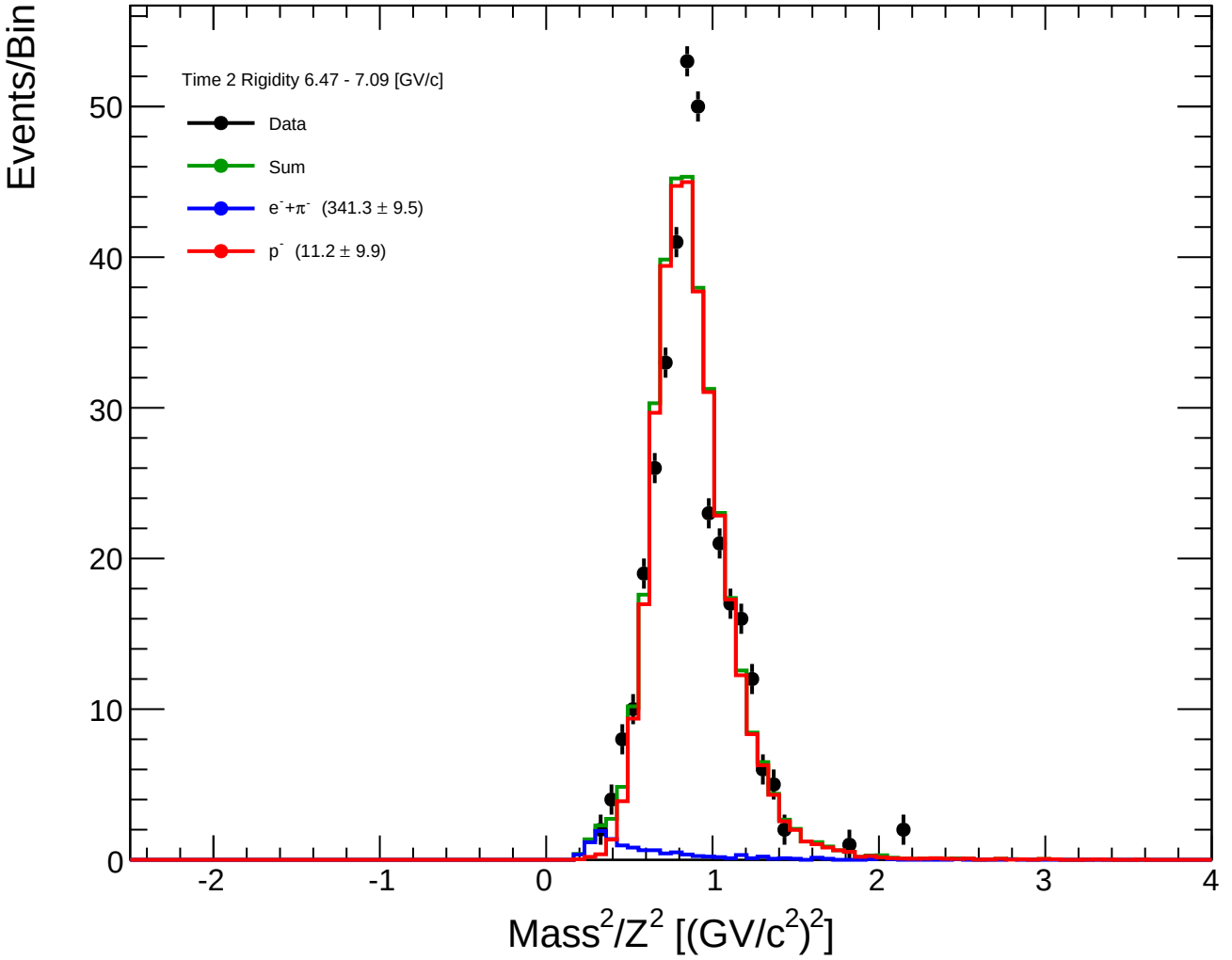

Events/Bin
Time 2 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (49.8 ± 6.9)
p⁻ (3.1± 9.2)
10
8
6
4
2
0
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

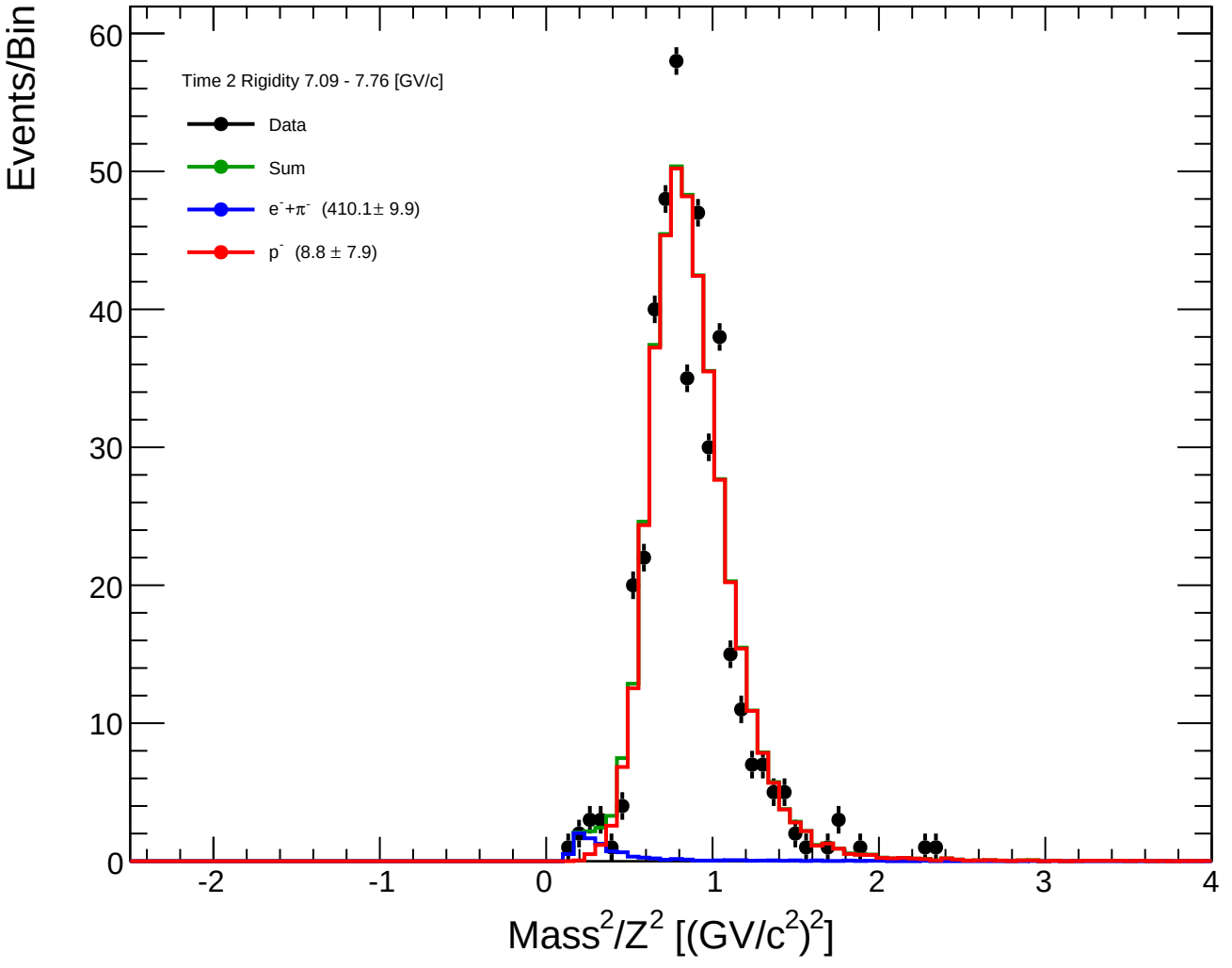

Time 2 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (303.0 ± 11.7)
p⁻ (0.0 ± 16.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

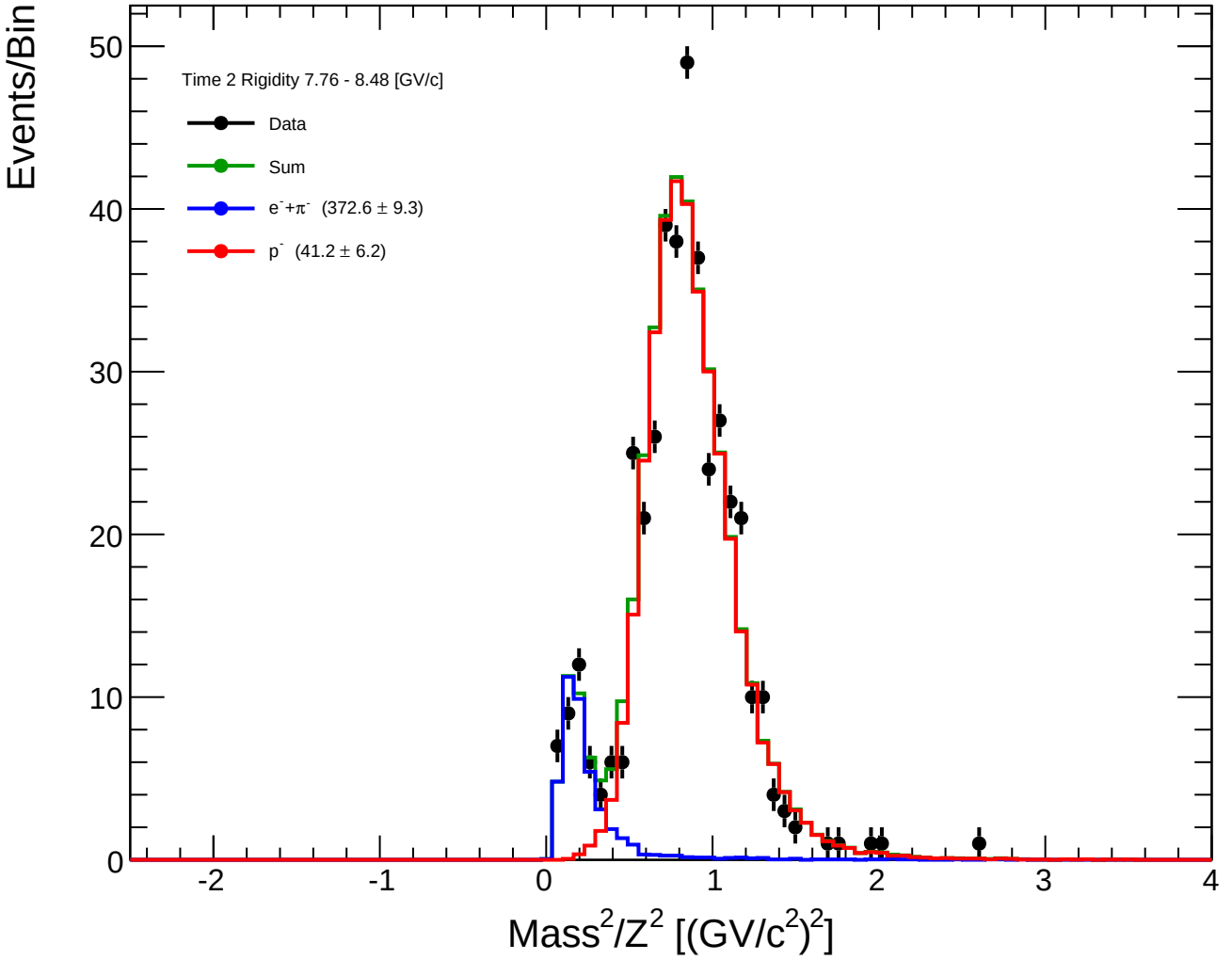

Time 2 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (513.3 ± 7.8)
p⁻ (0.0 ± 9.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
-2
-1
0
1
2
3
4

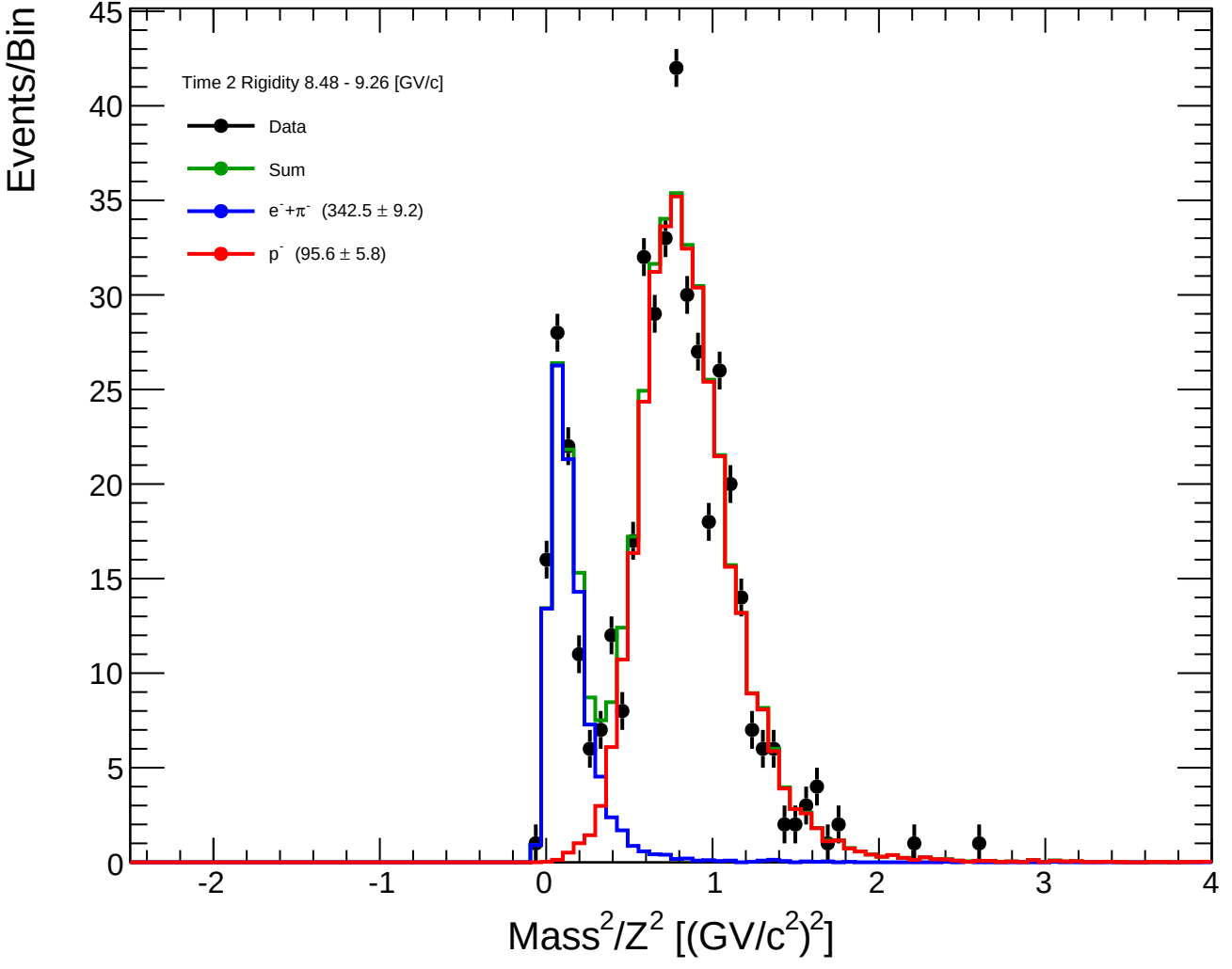

Time 2 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (329.1± 10.2)
p⁻ (16.6 ± 12.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

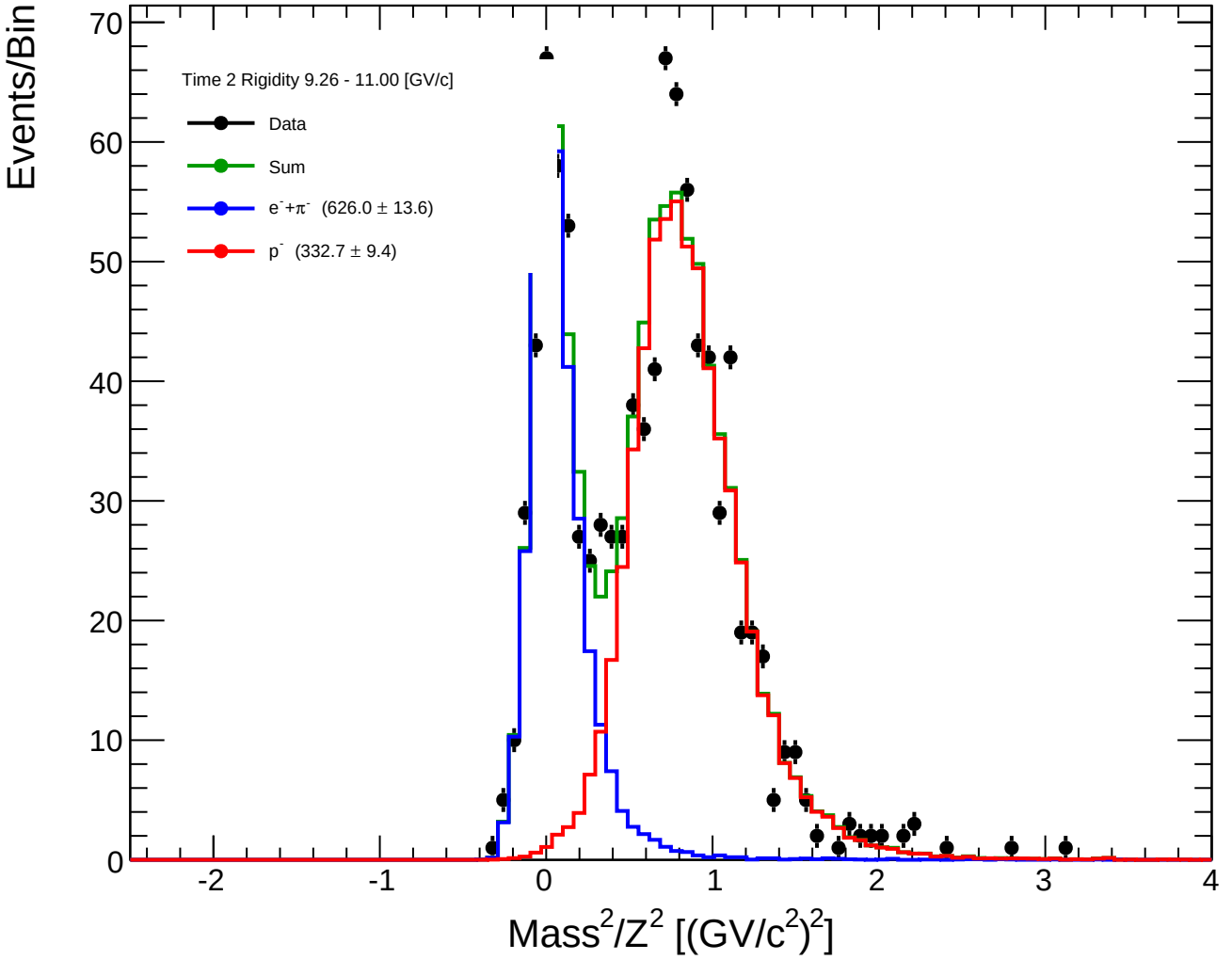

Time 2 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (376.1± 10.1)
p⁻ (6.1± 11.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

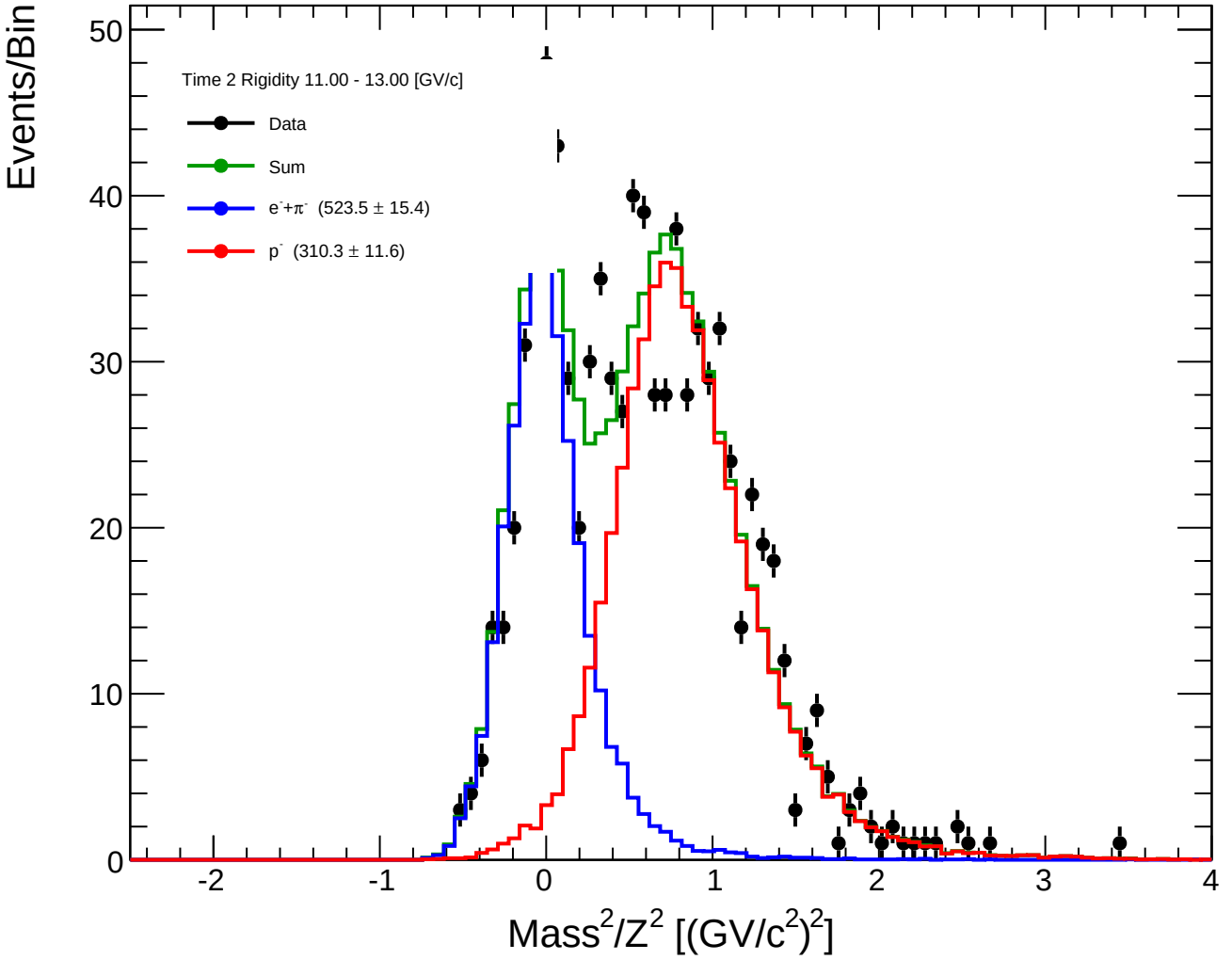

Time 2 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (341.3 ± 9.5)
p⁻ (11.2 ± 9.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

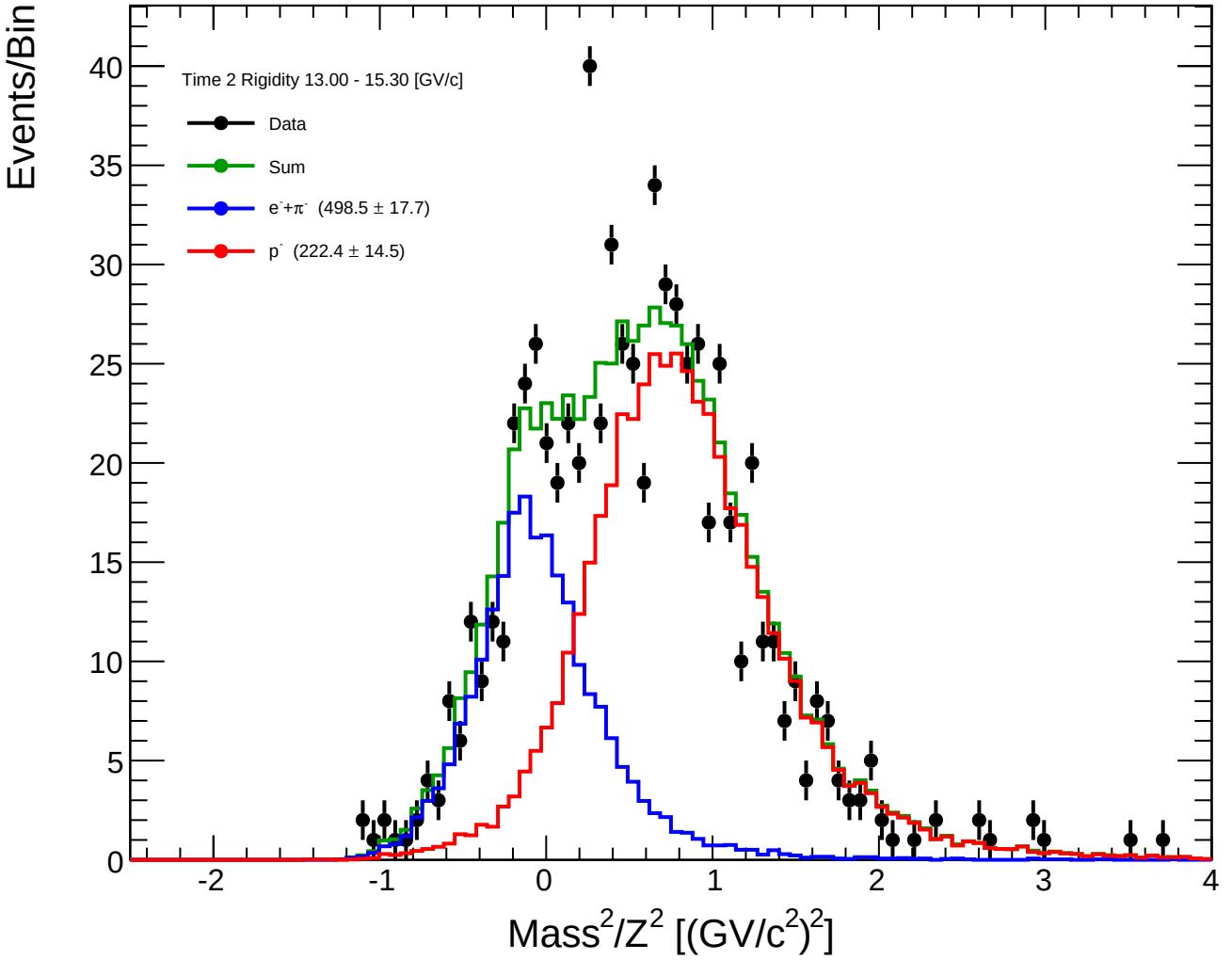

Time 2 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (410.1± 9.9)
p⁻ (8.8 ± 7.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

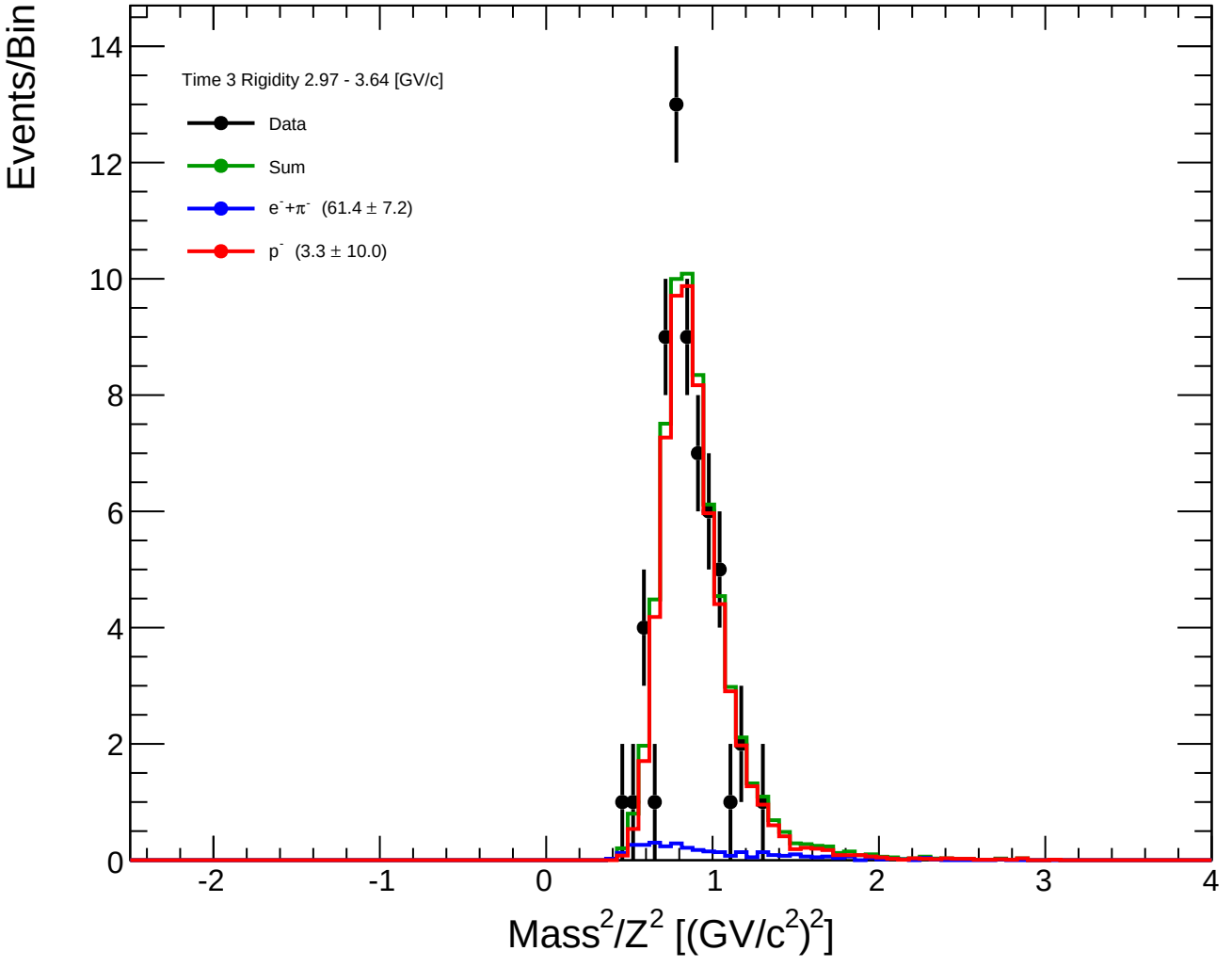

Time 2 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (372.6 ± 9.3)
p⁻ (41.2 ± 6.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

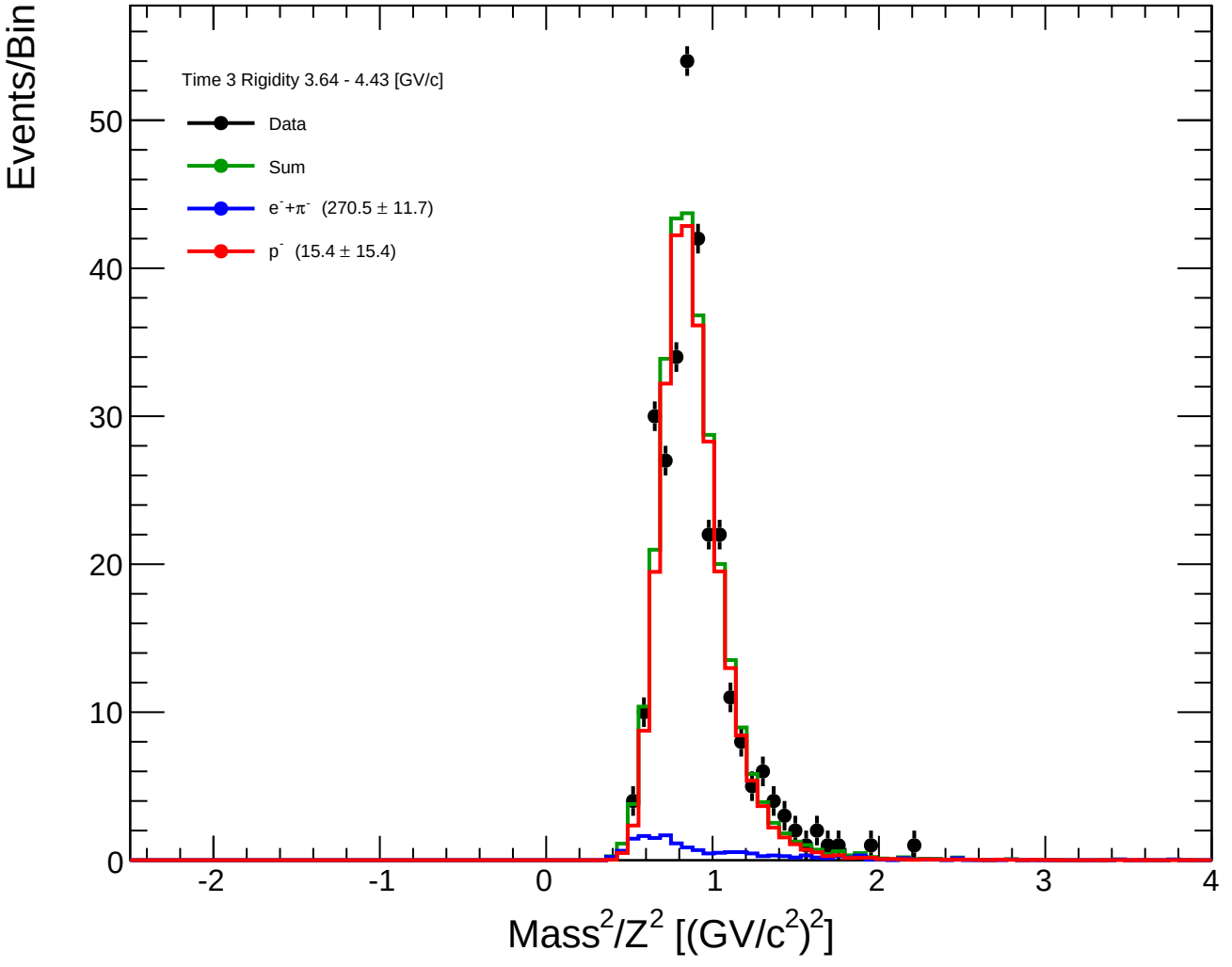

Time 2 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (342.5 ± 9.2)
p⁻ (95.6 ± 5.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

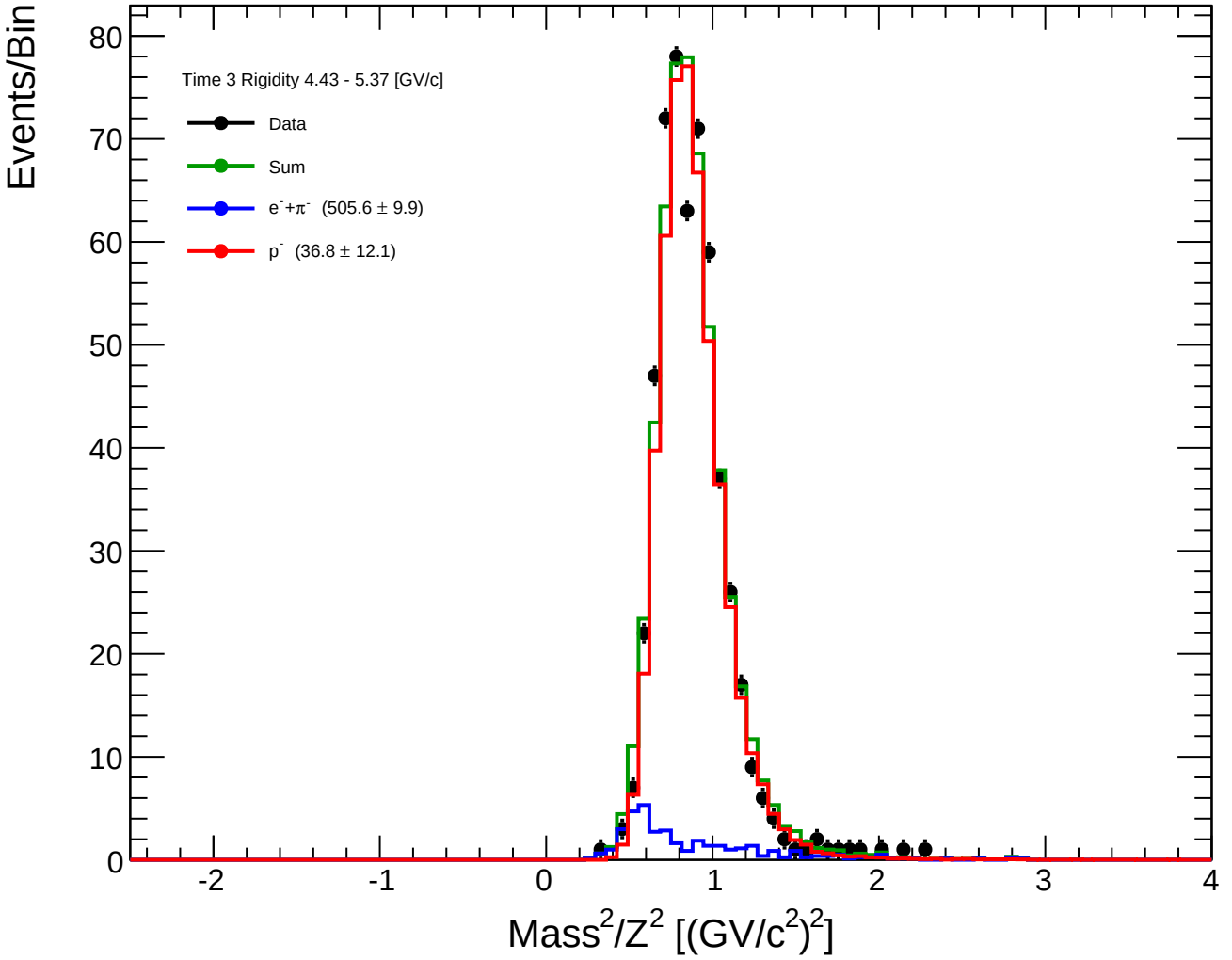

Time 2 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (626.0 ± 13.6)
p⁻ (332.7 ± 9.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

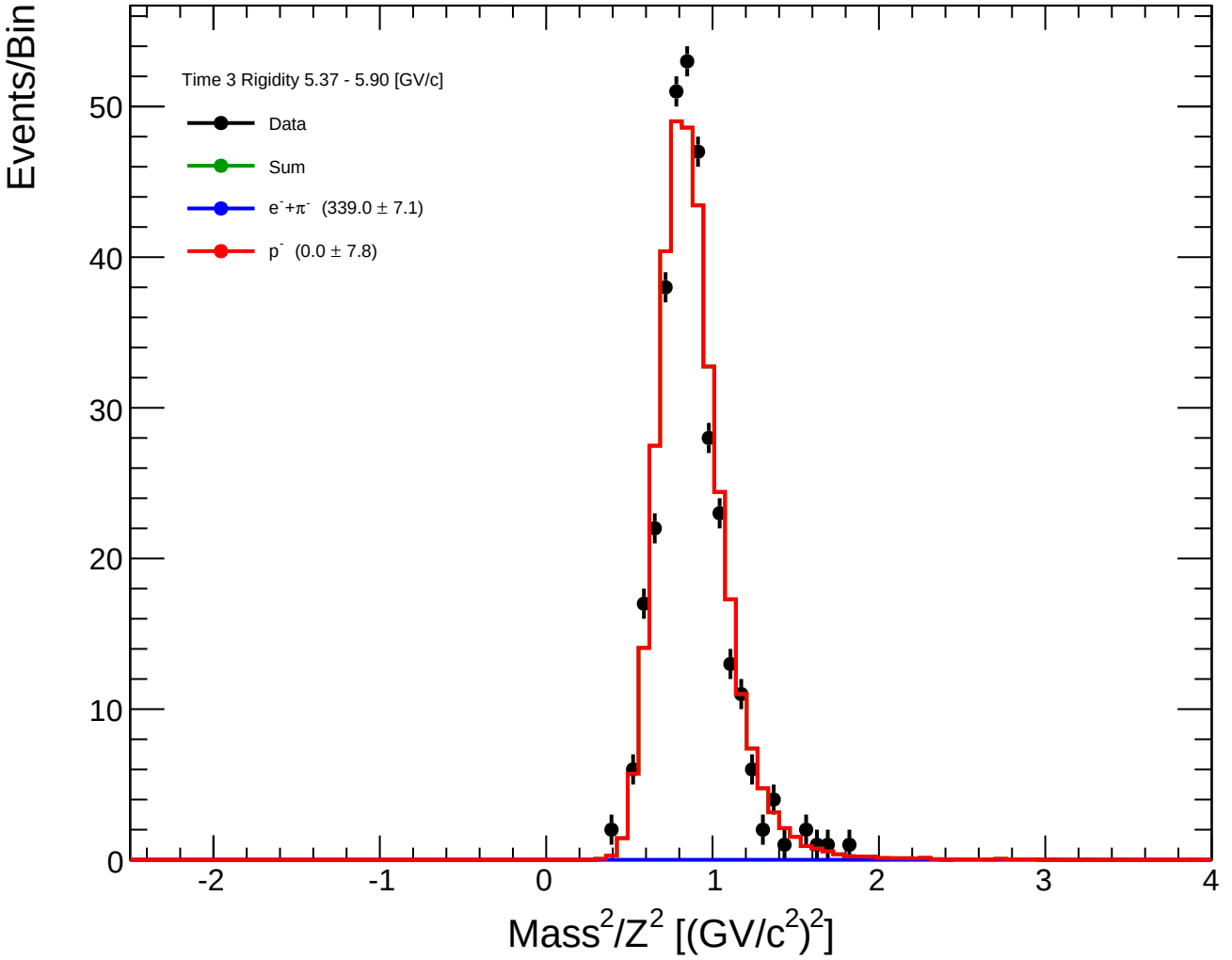

Time 2 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (523.5 ± 15.4)
p⁻ (310.3 ± 11.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

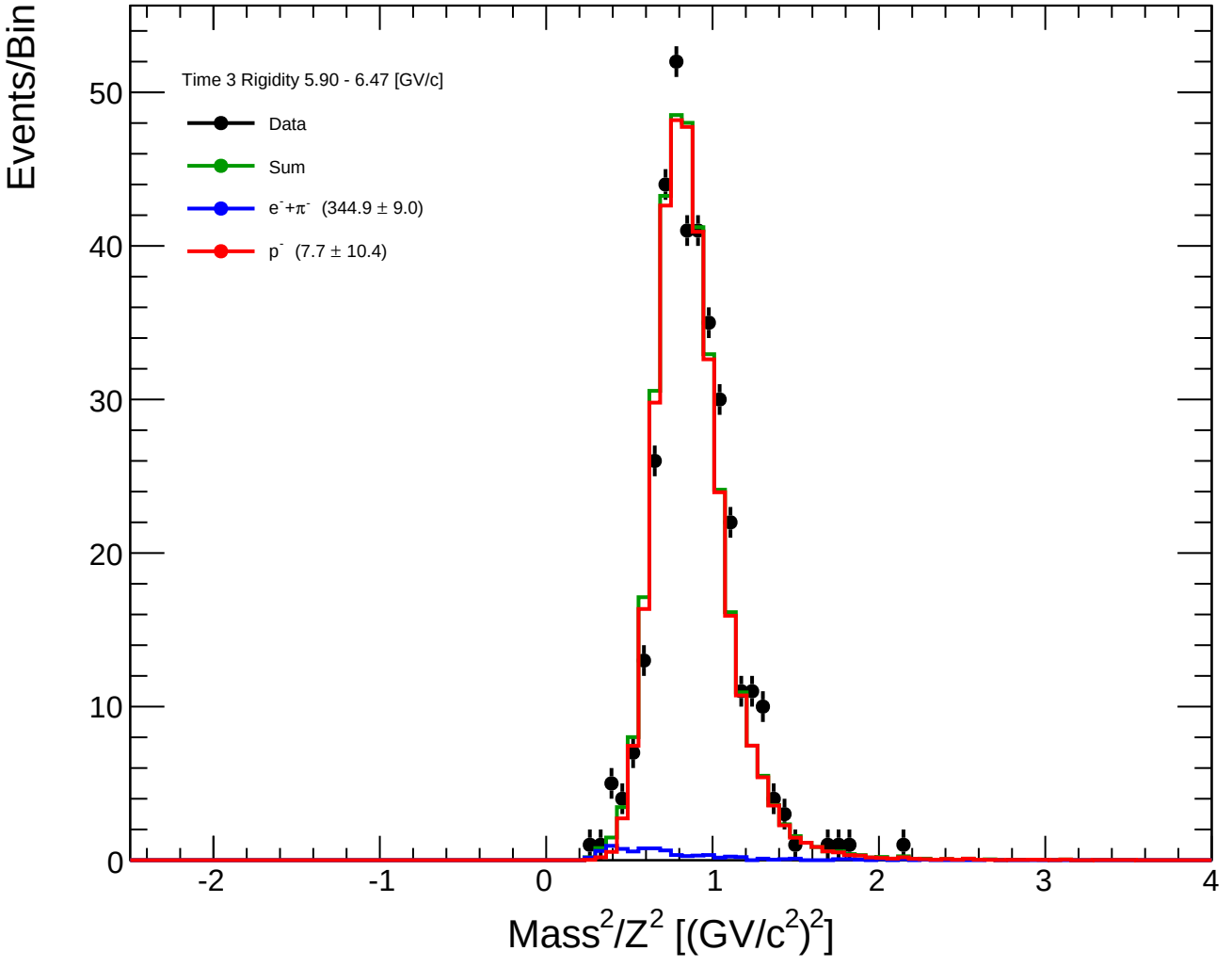

Time 2 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (498.5 ± 17.7)
p⁻ (222.4 ± 14.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

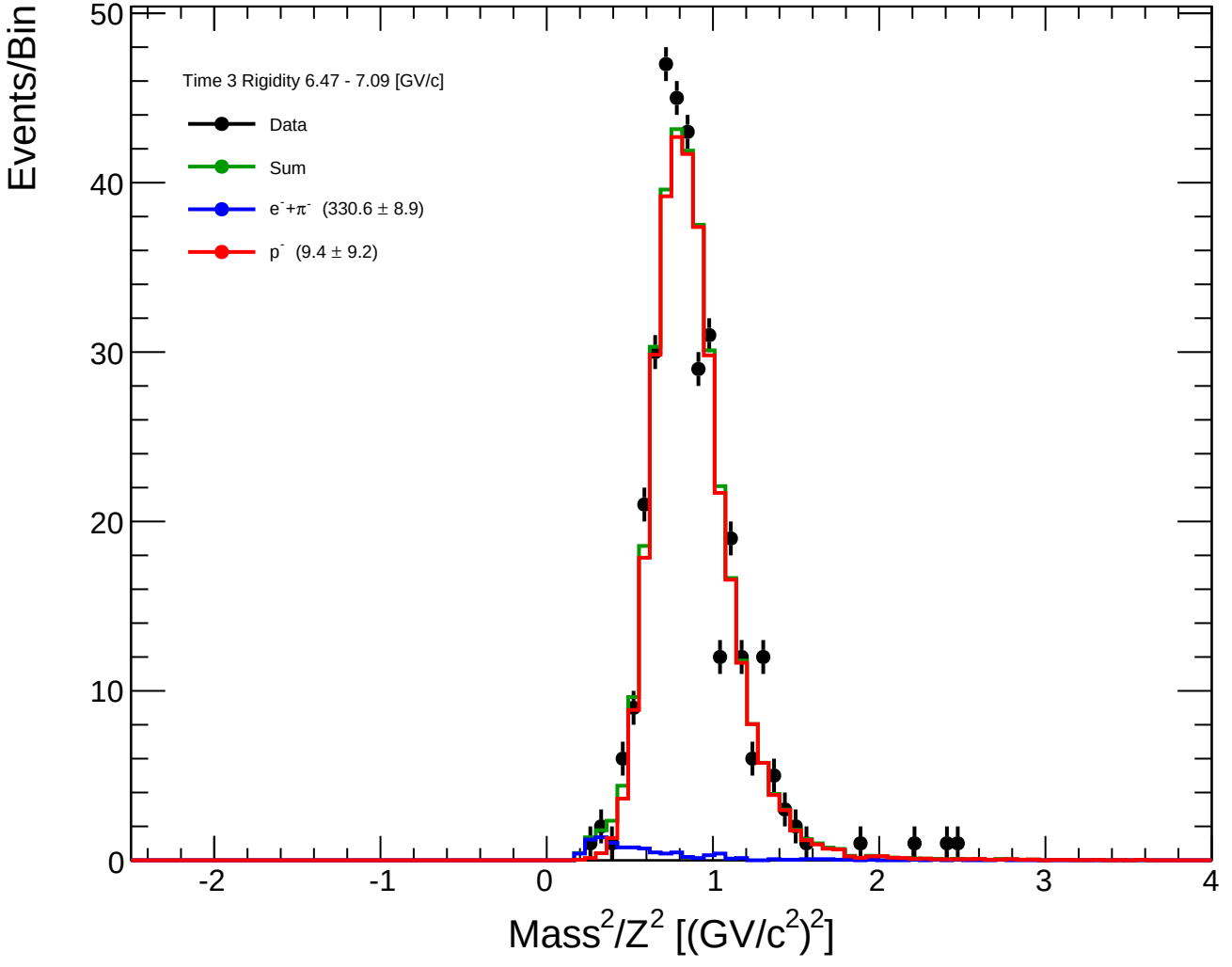

Time 3 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (61.4 ± 7.2)
p⁻ (3.3 ± 10.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
-2
-1
0
1
2
3
4

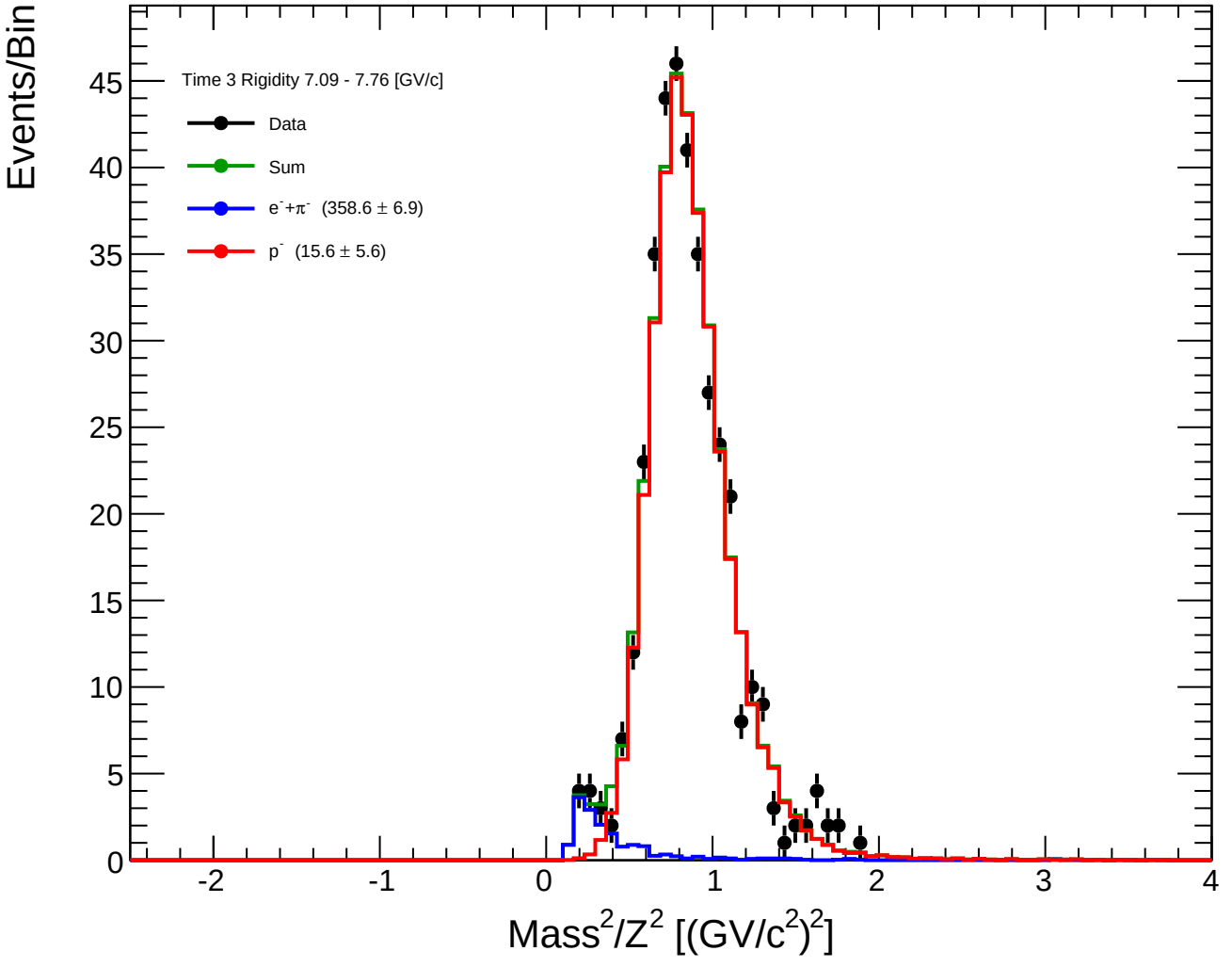

Time 3 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (270.5 ± 11.7)
p⁻ (15.4 ± 15.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

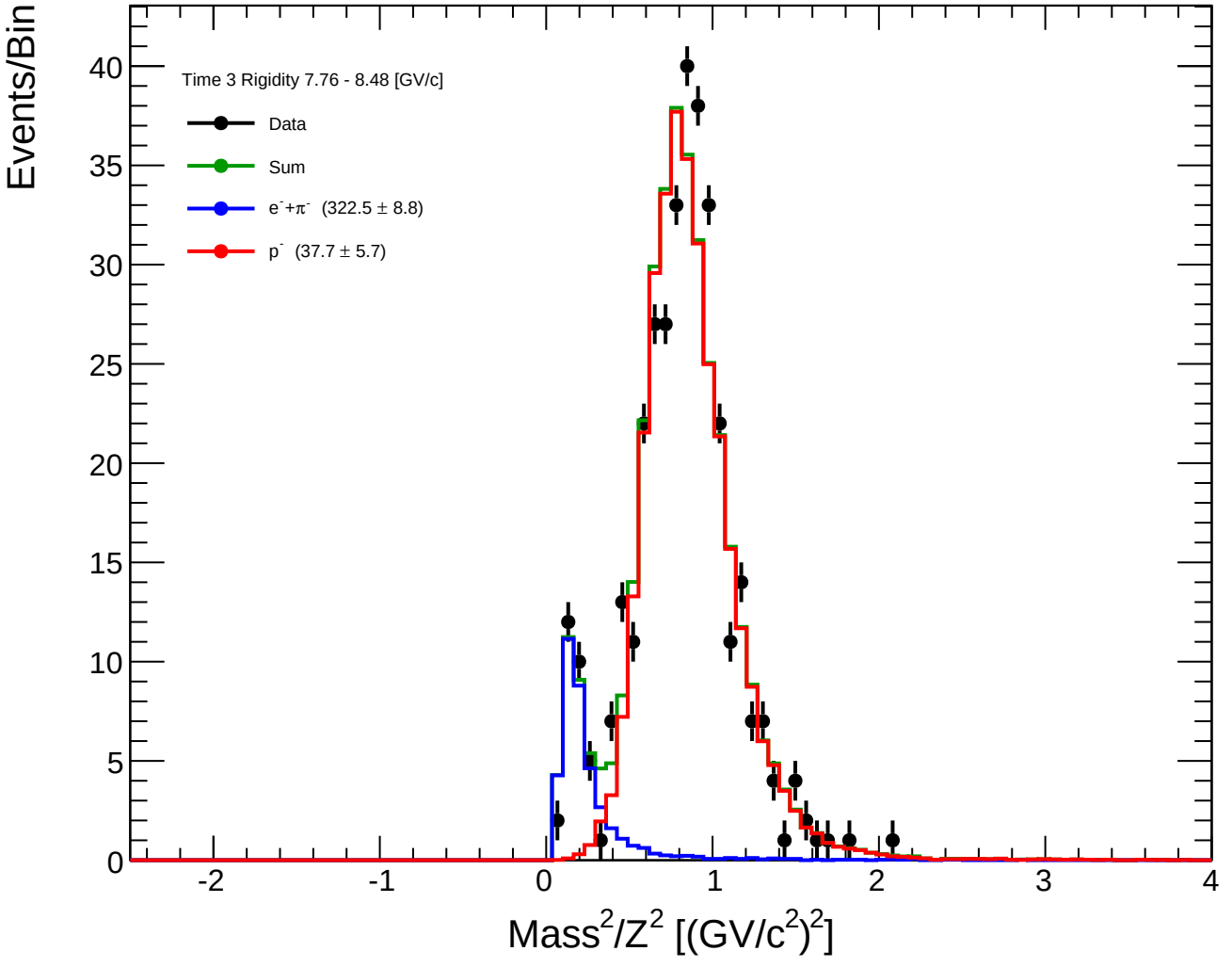

Time 3 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (505.6 ± 9.9)
p⁻ (36.8 ± 12.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
-2
-1
0
1
2
3
4

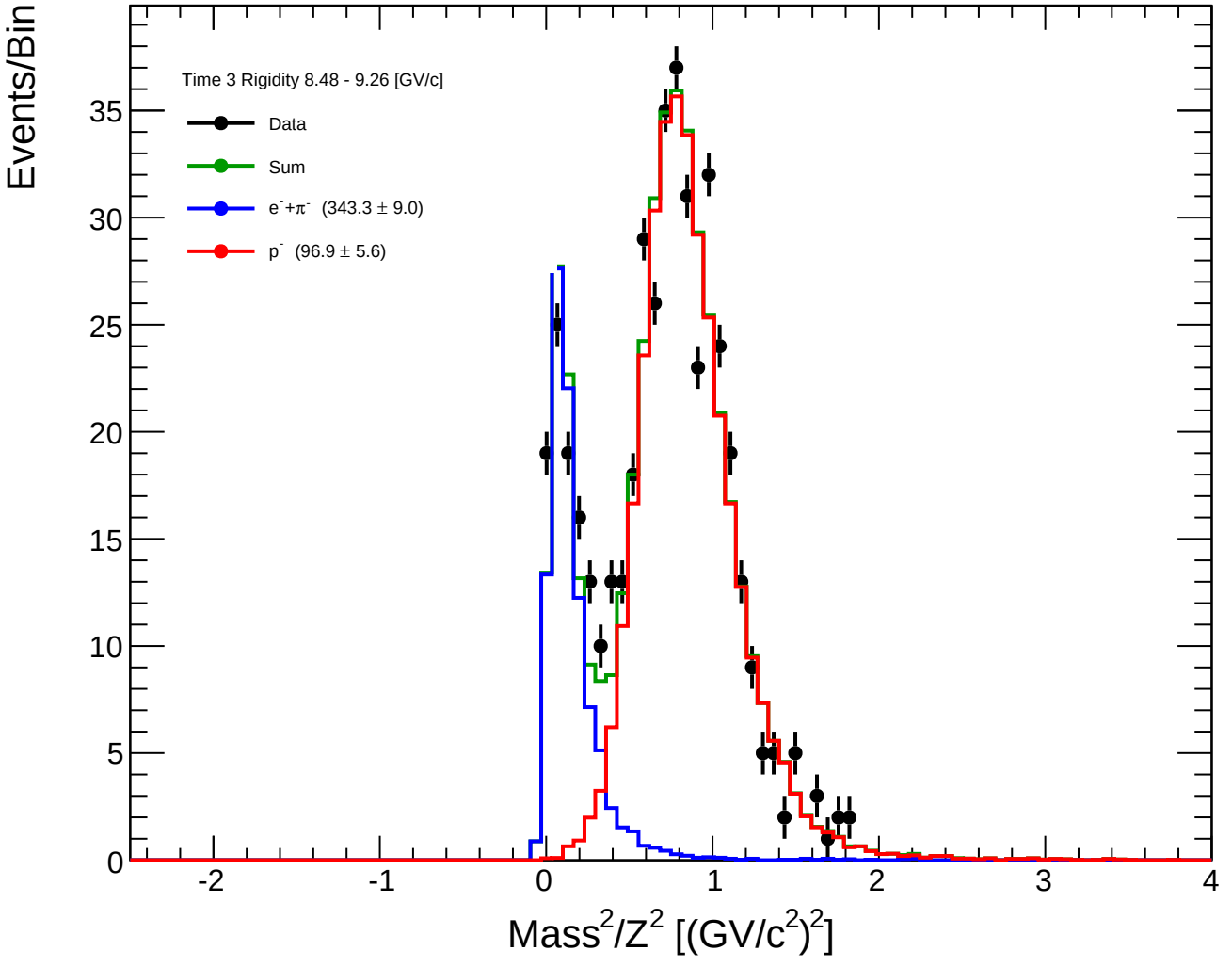

Time 3 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (339.0 ± 7.1)
p⁻ (0.0 ± 7.8)
Events/Bin
0
10
20
30
40
50
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

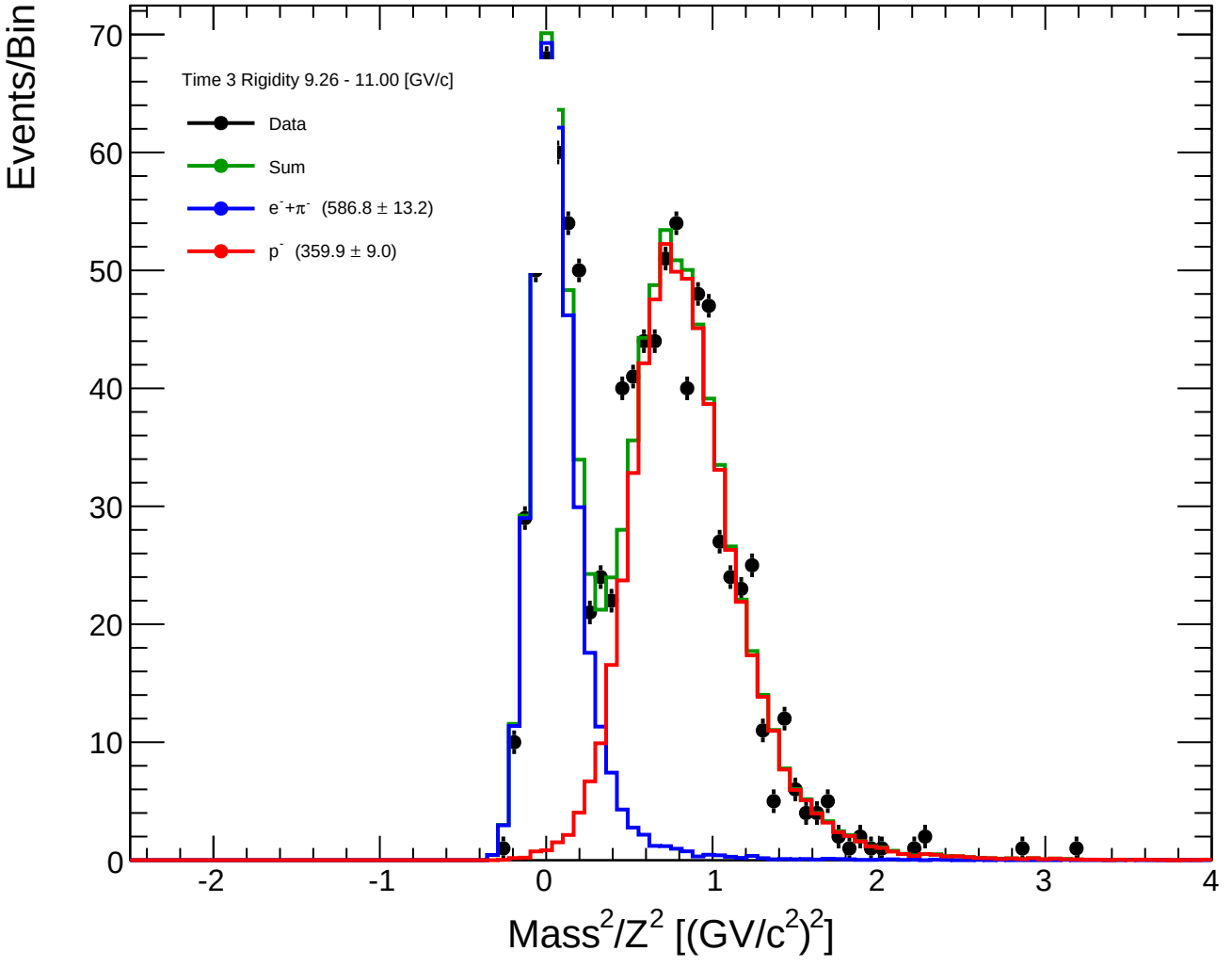

Time 3 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (344.9 ± 9.0)
p⁻ (7.7 ± 10.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

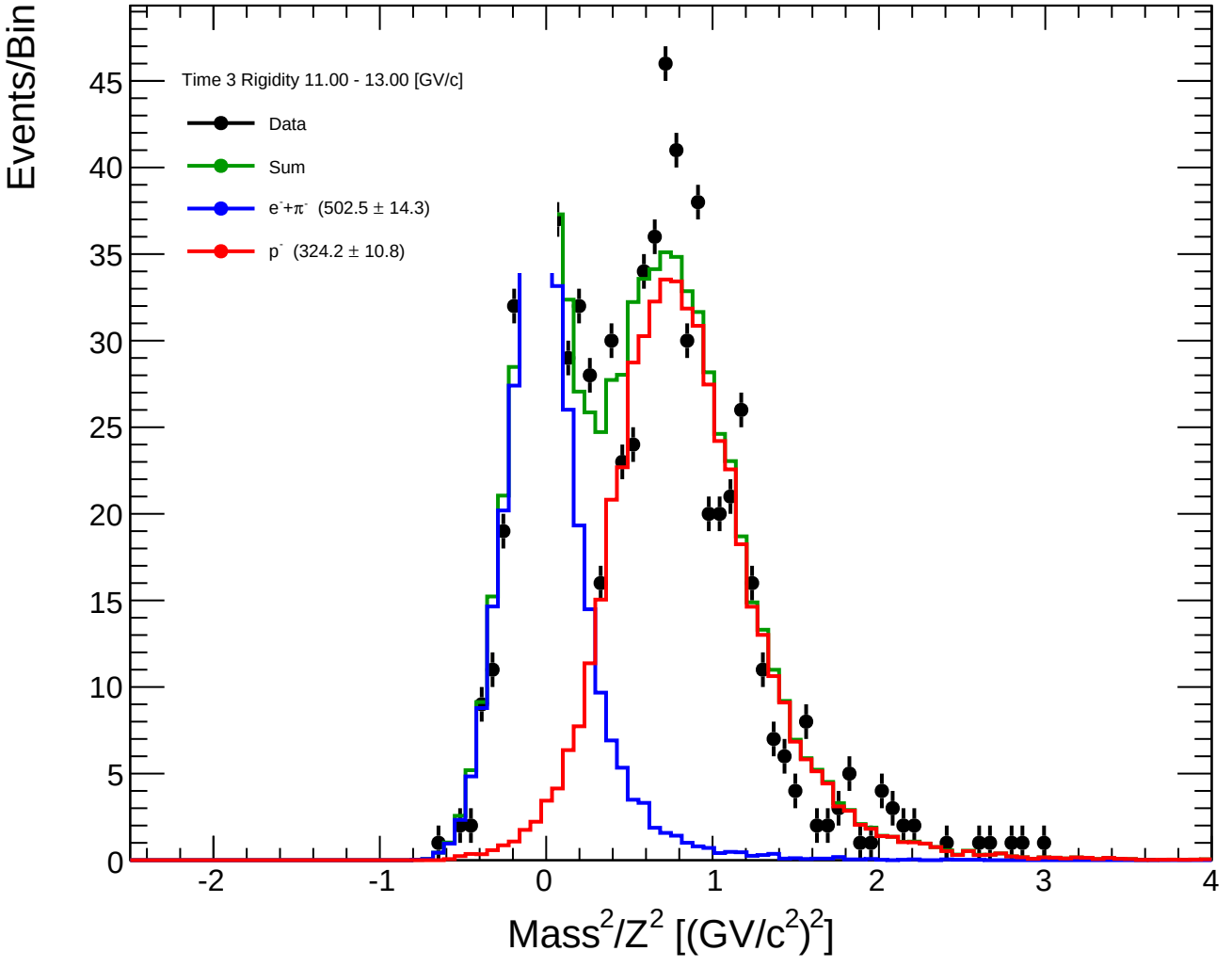

Time 3 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (330.6 ± 8.9)
p⁻ (9.4 ± 9.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

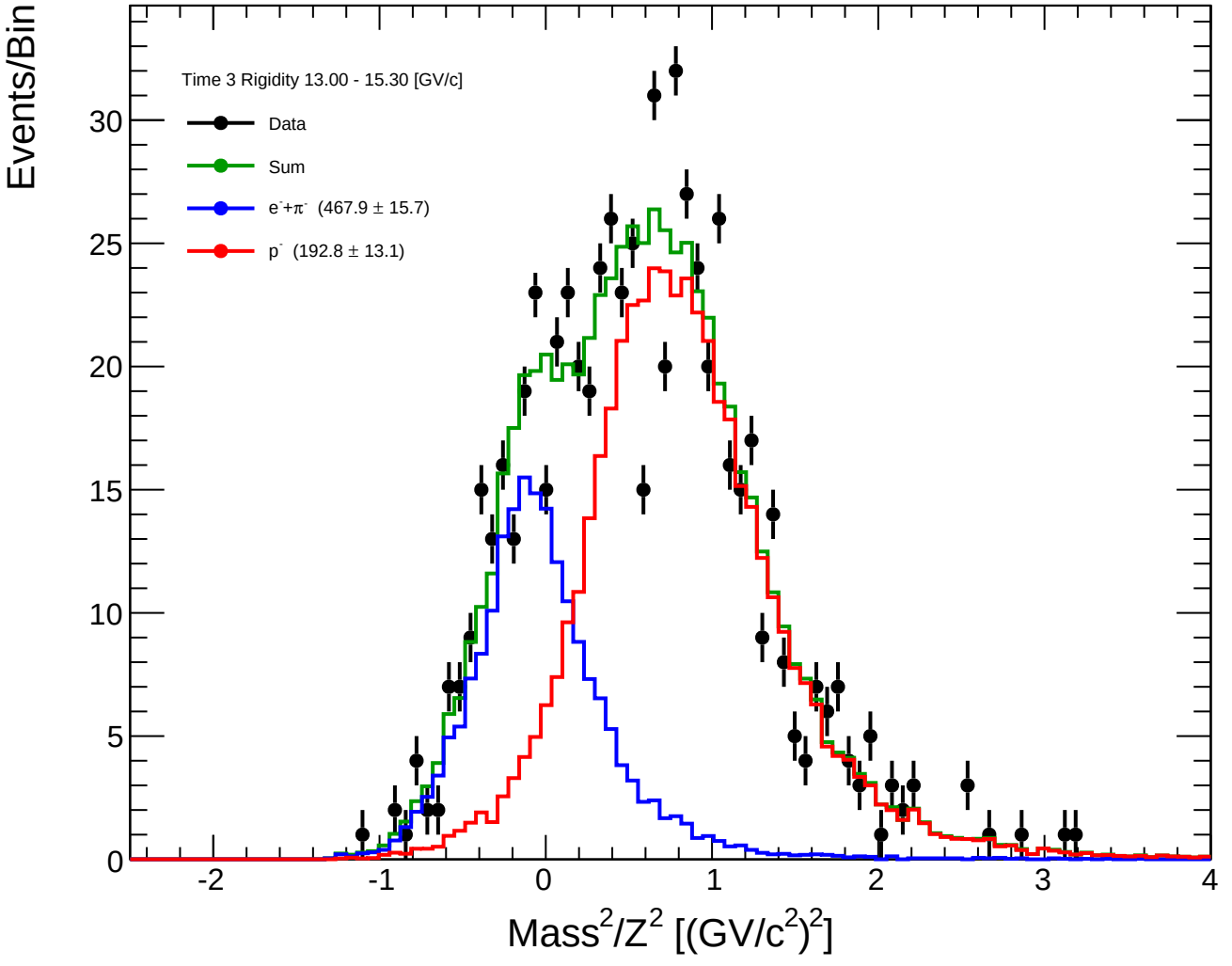

Time 3 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (358.6 ± 6.9)
p⁻ (15.6 ± 5.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

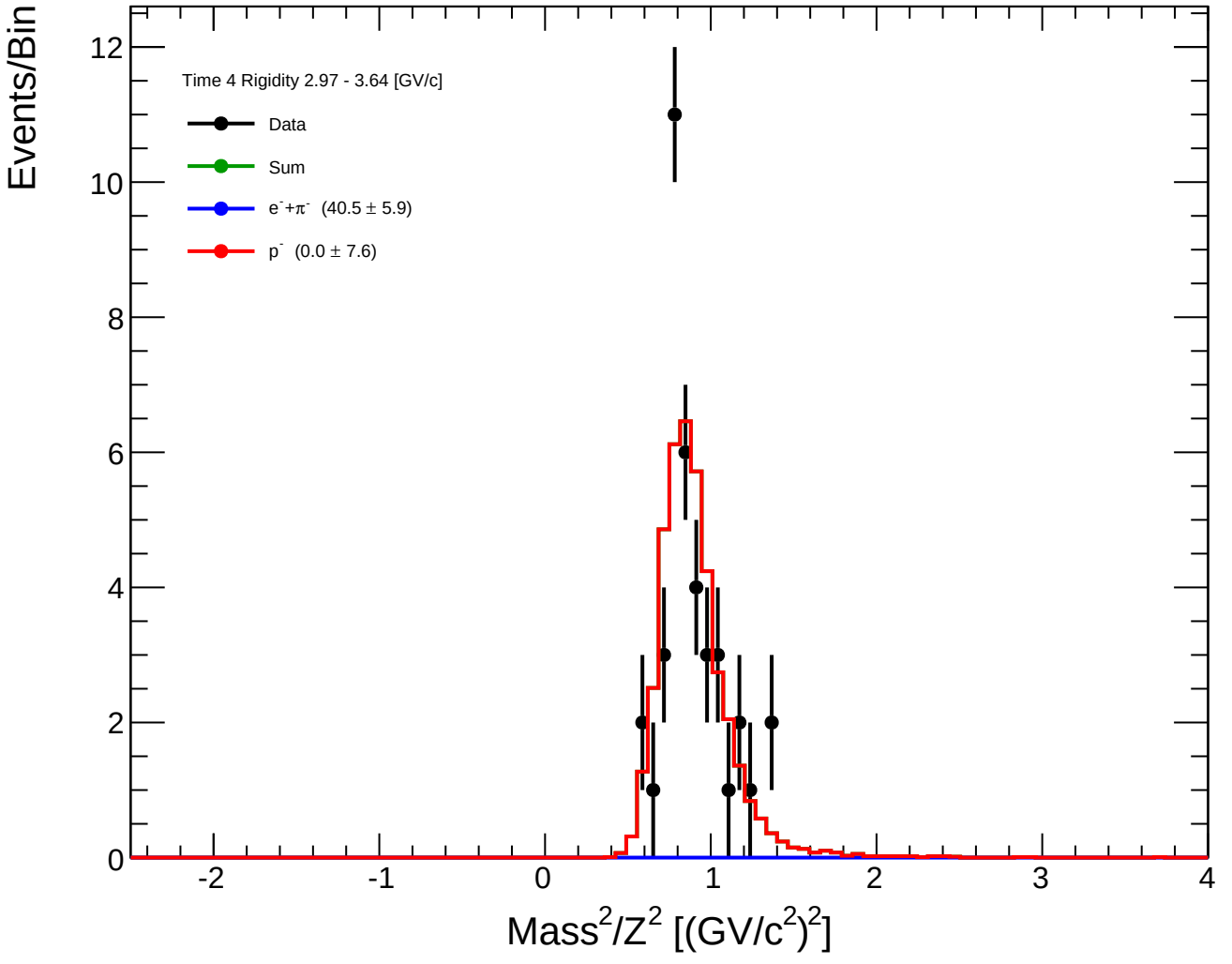

Time 3 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (322.5 ± 8.8)
p⁻ (37.7 ± 5.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

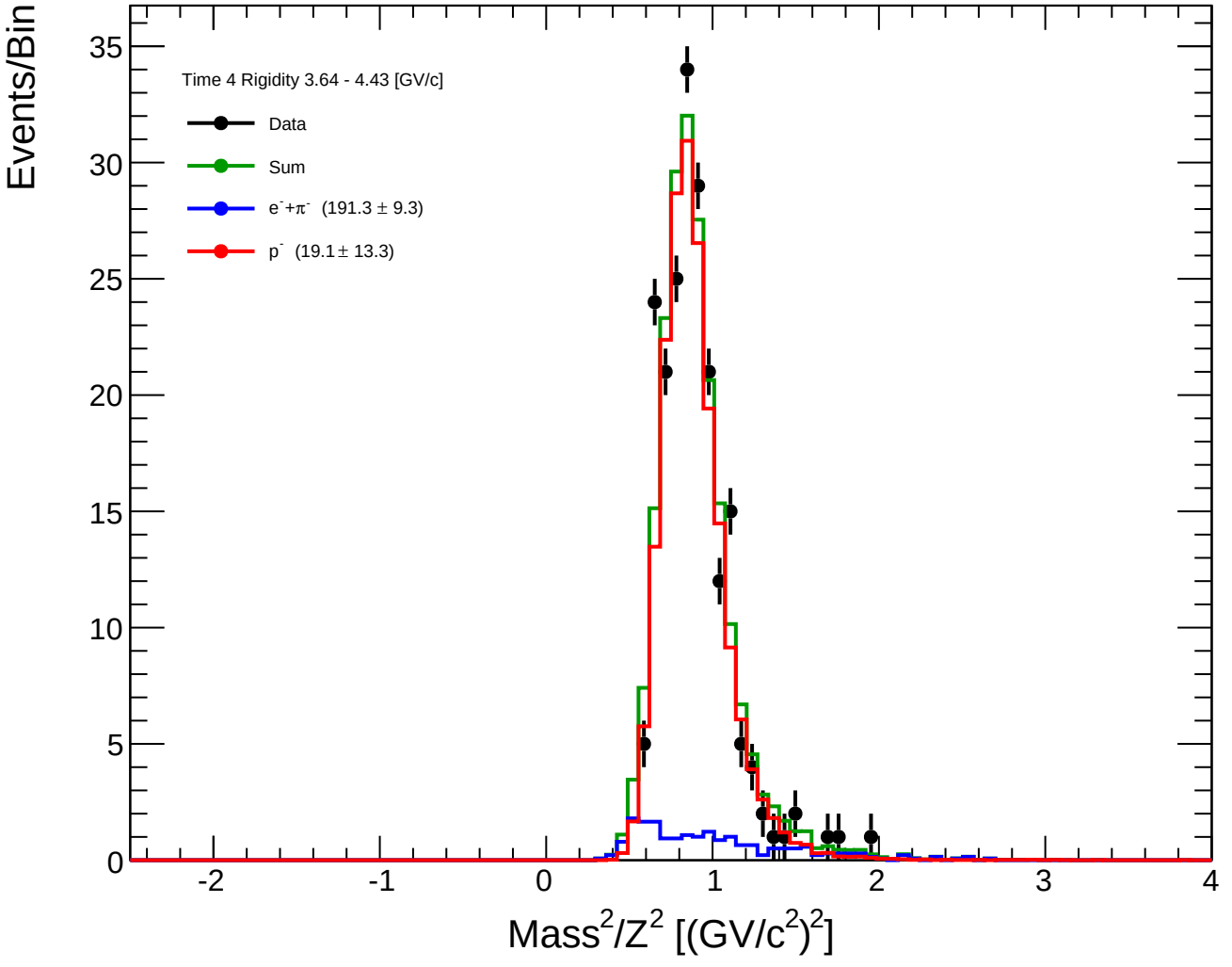

Time 3 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (343.3 ± 9.0)
p⁻ (96.9 ± 5.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

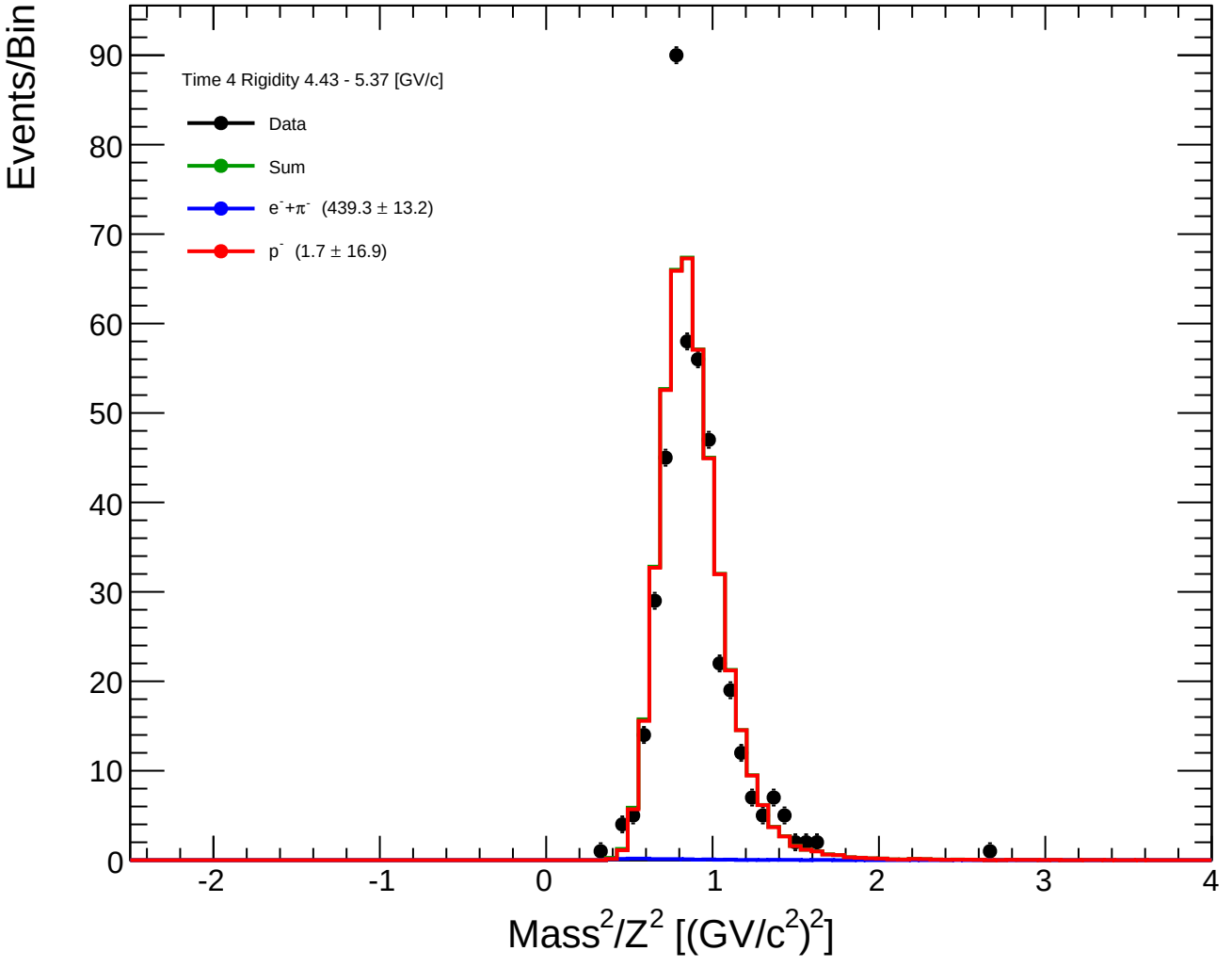

Time 3 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (586.8 ± 13.2)
p⁻ (359.9 ± 9.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

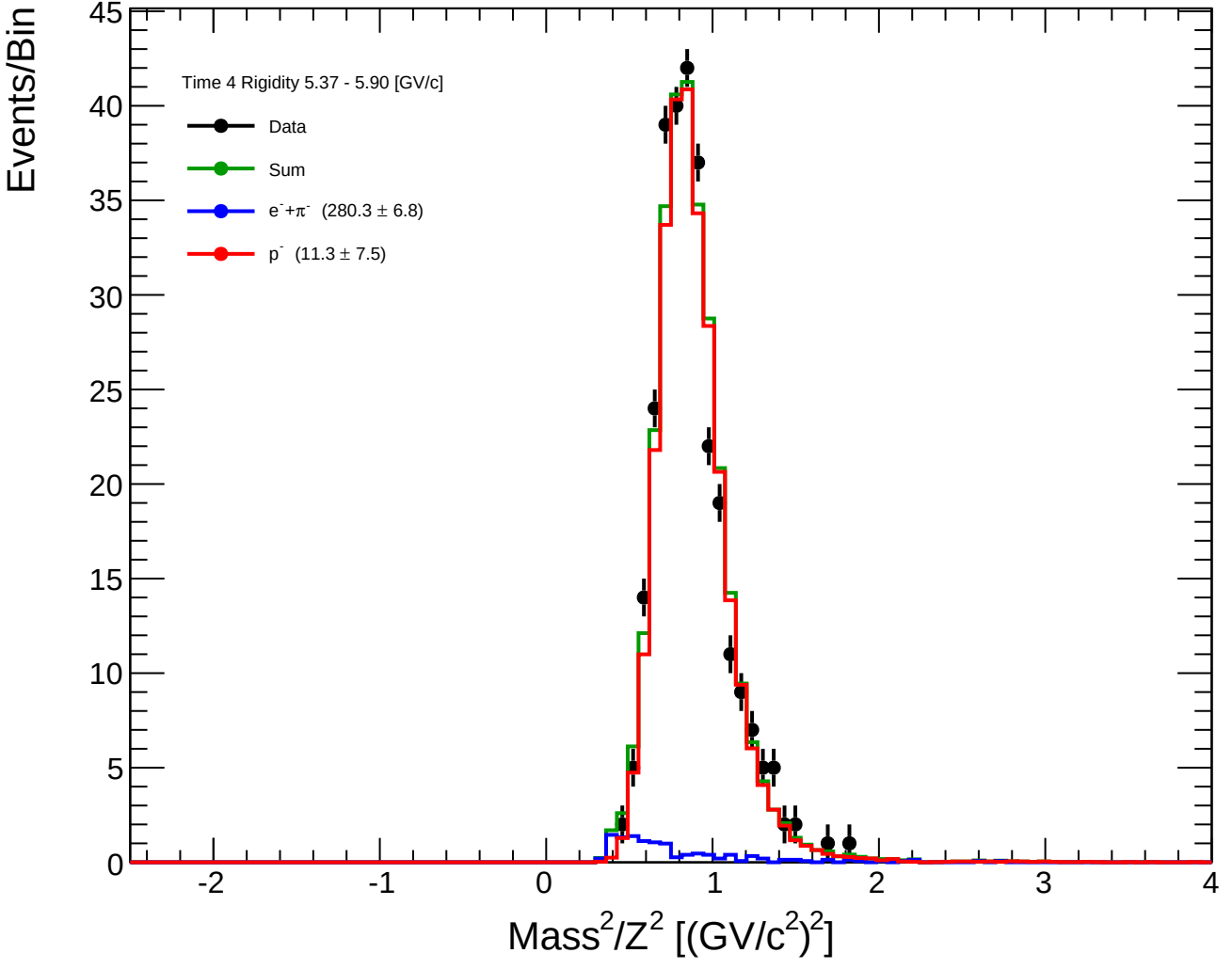

Time 3 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (502.5 ± 14.3)
p⁻ (324.2 ± 10.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

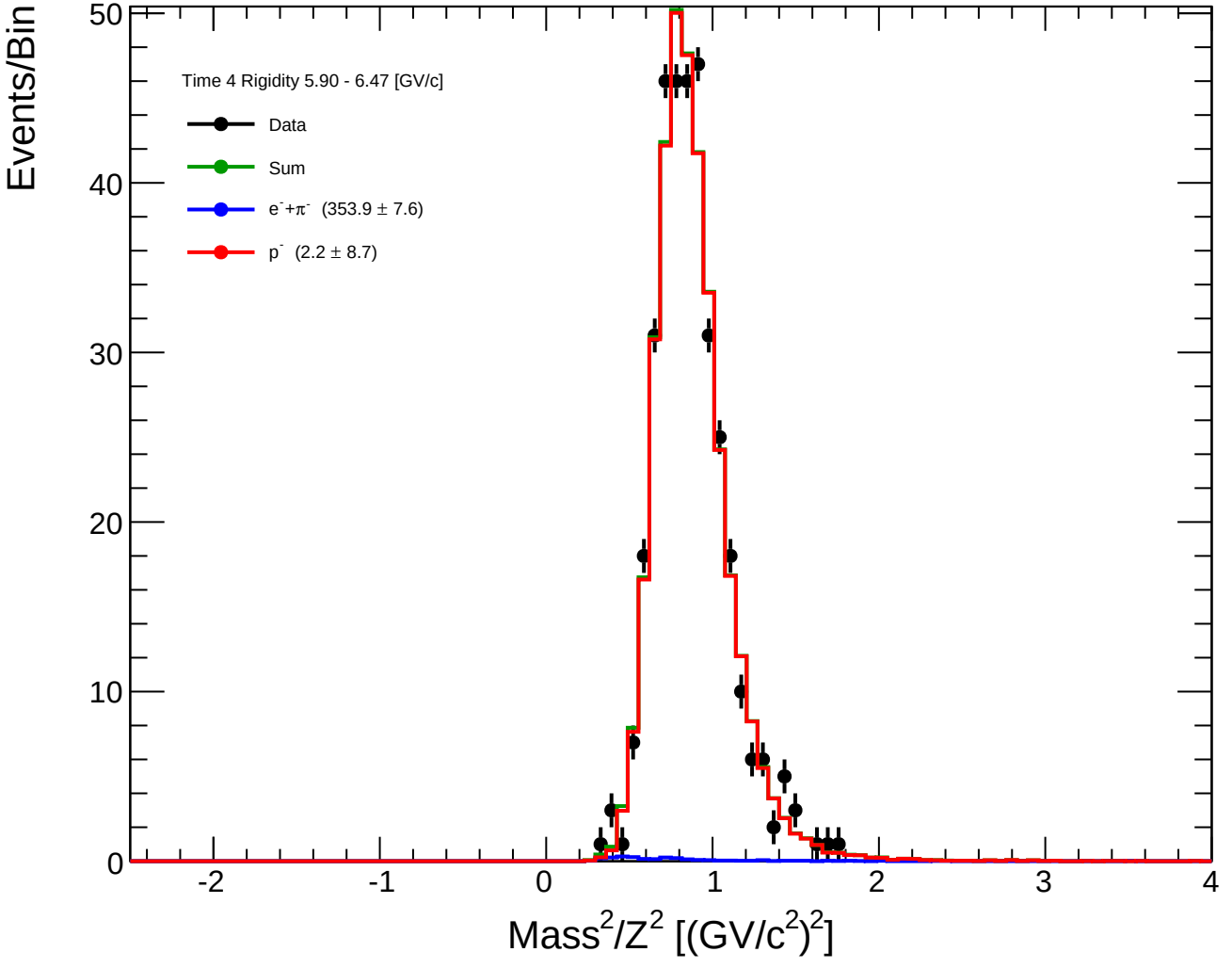

Time 3 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (467.9 ± 15.7)
p⁻ (192.8 ± 13.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

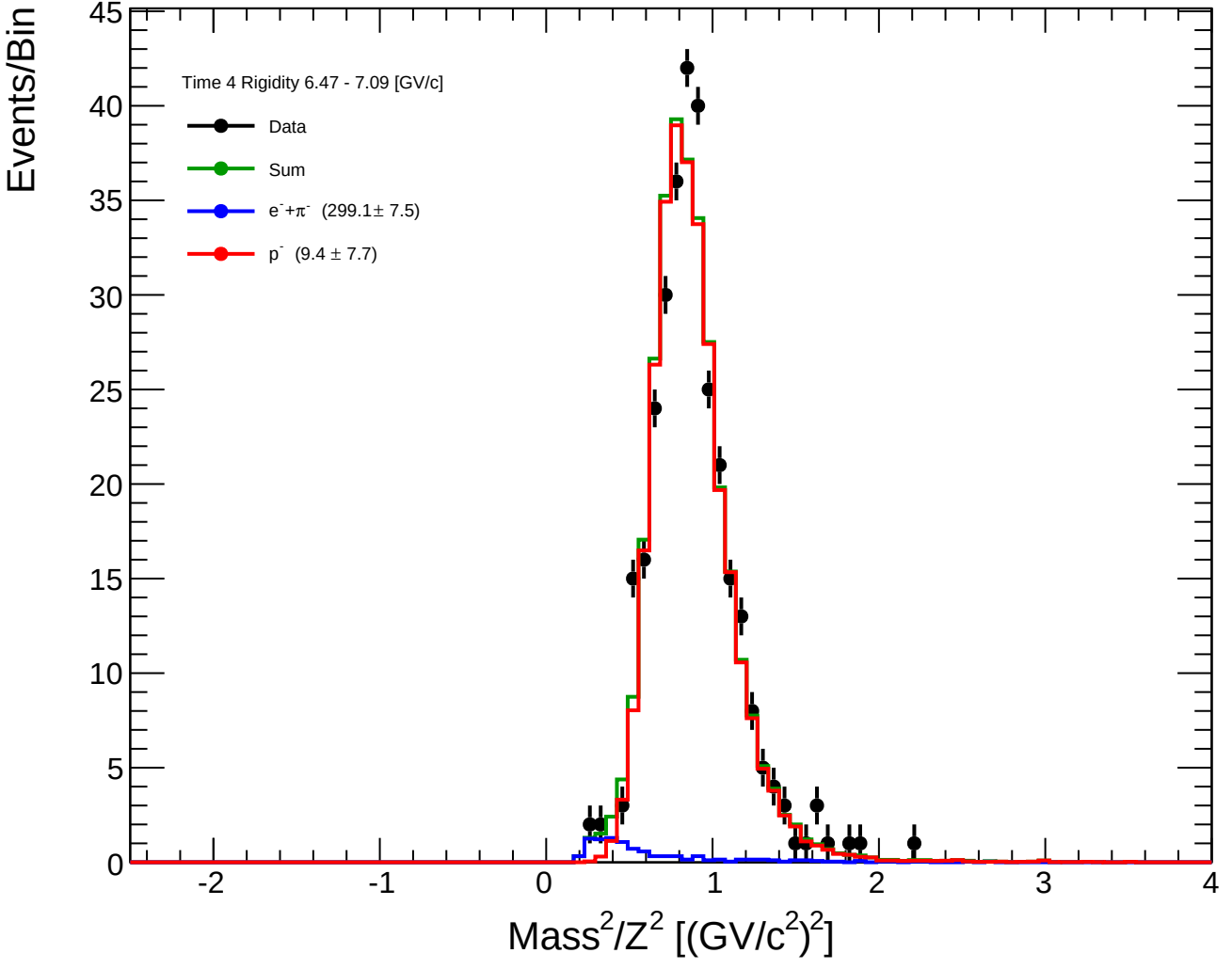

Time 4 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (40.5 ± 5.9)
p⁻ (0.0 ± 7.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
-2
-1
0
1
2
3
4

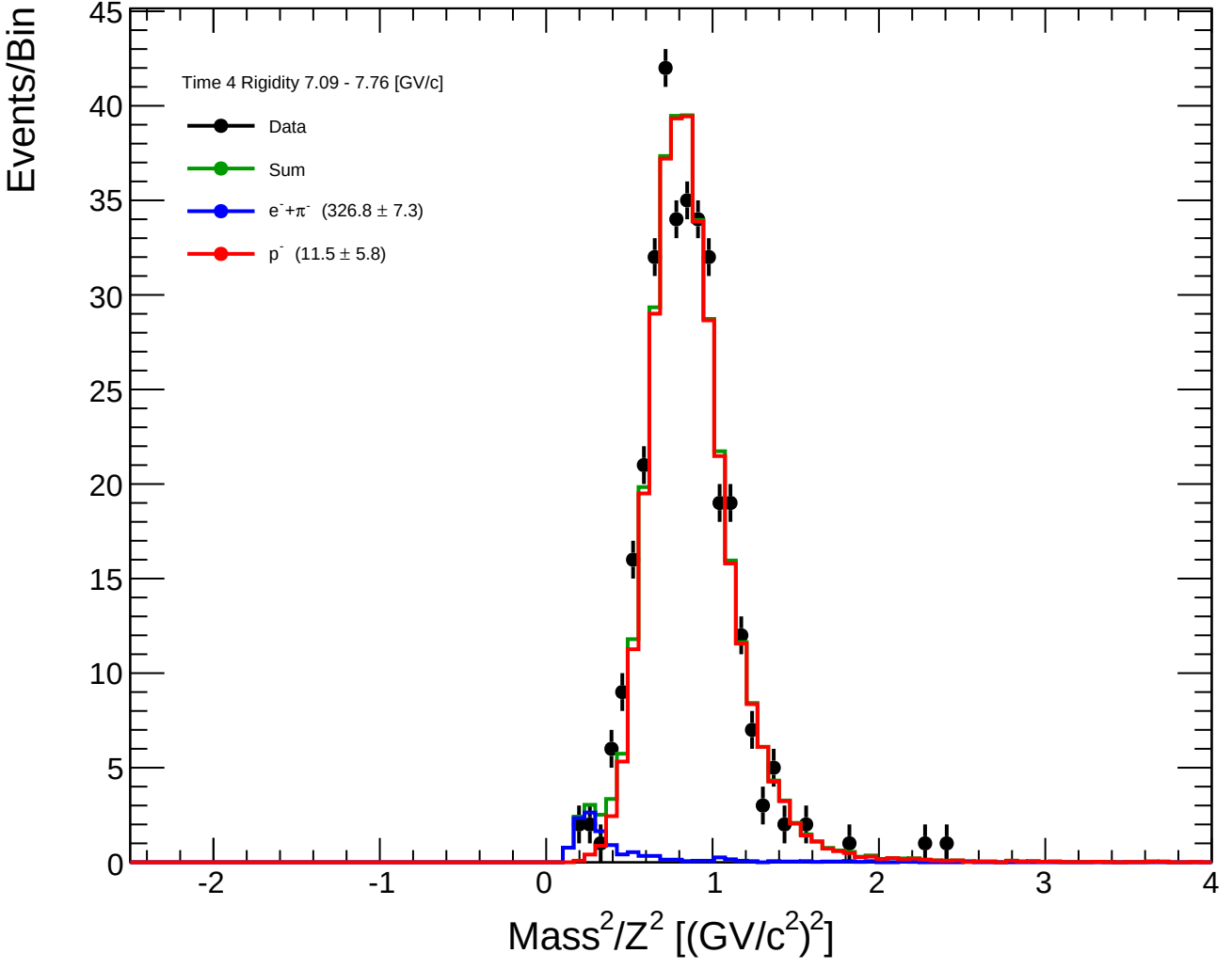

Time 4 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (191.3 ± 9.3)
p⁻ (19.1± 13.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

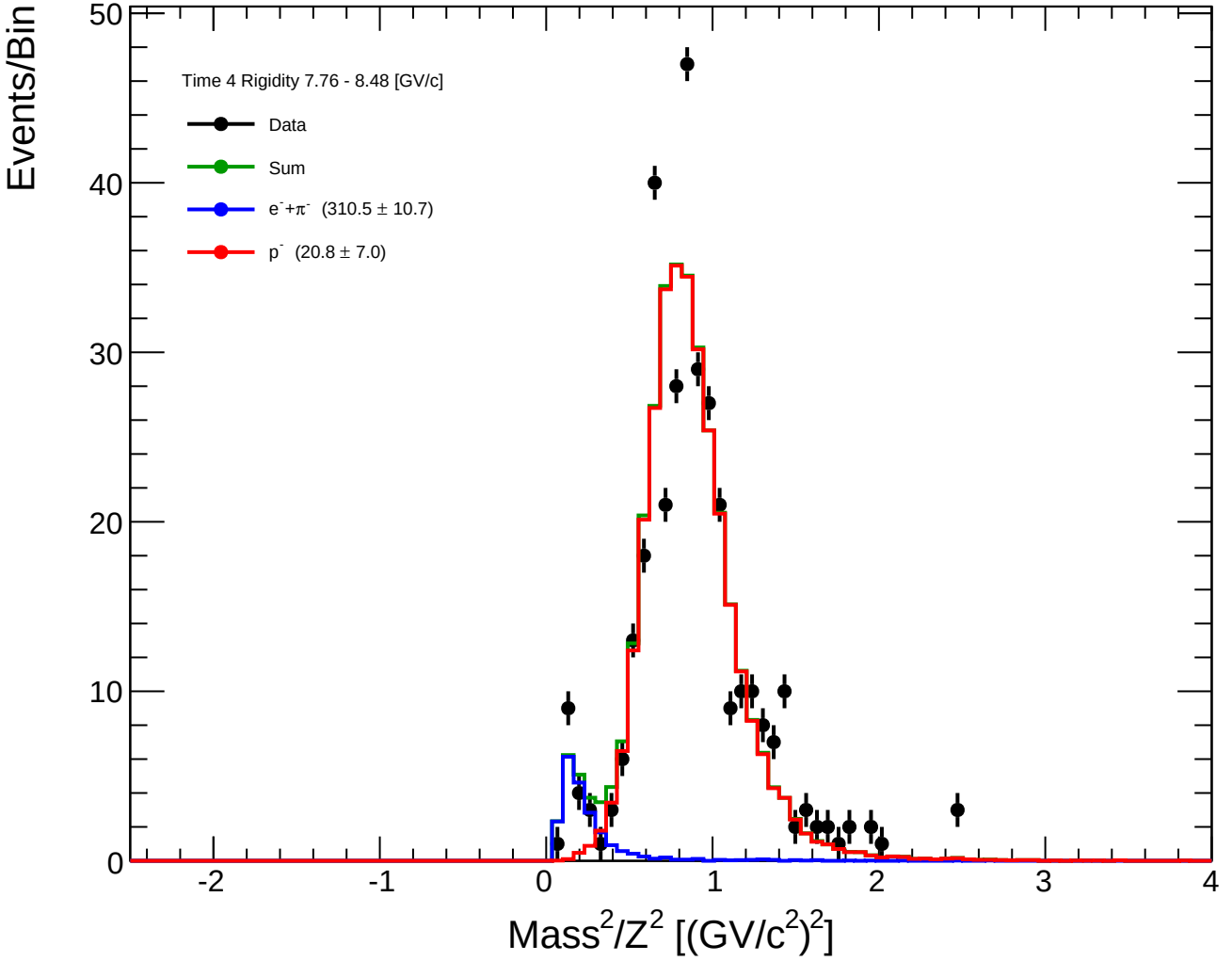

Time 4 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (439.3 ± 13.2)
p⁻ (1.7 ± 16.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
90
-2
-1
0
1
2
3
4

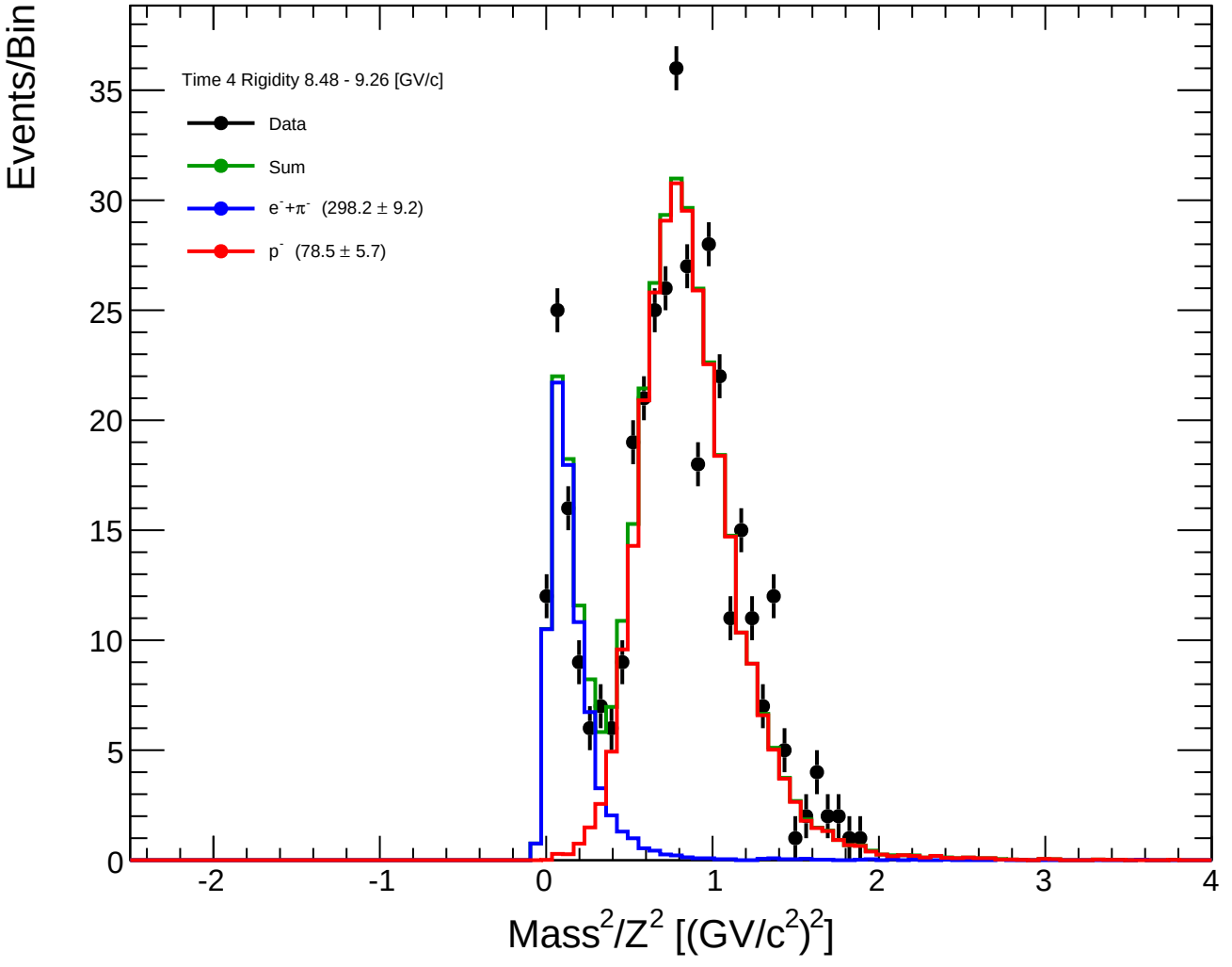

Time 4 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (280.3 ± 6.8)
p⁻ (11.3 ± 7.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

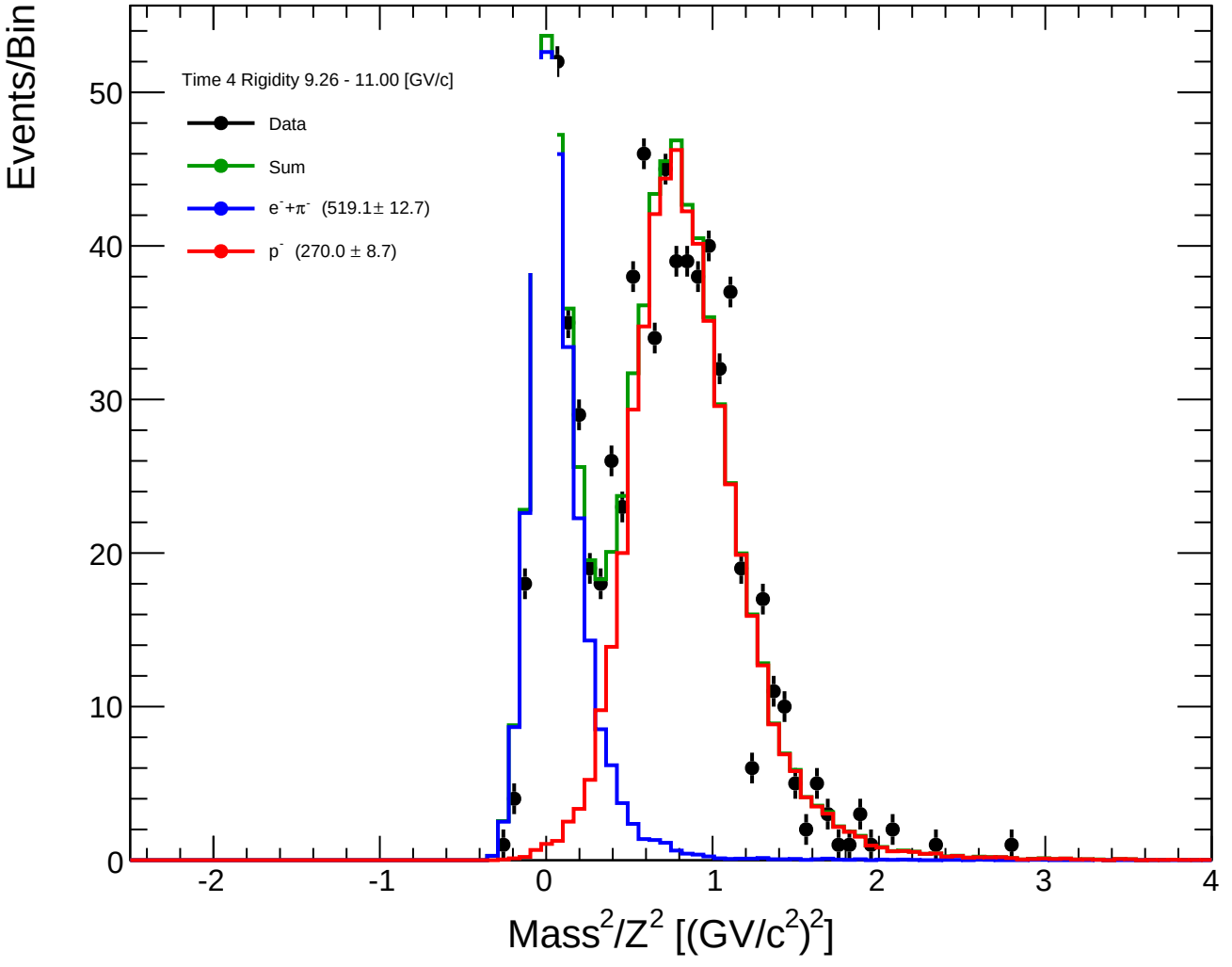

Time 4 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (353.9 ± 7.6)
p⁻ (2.2 ± 8.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

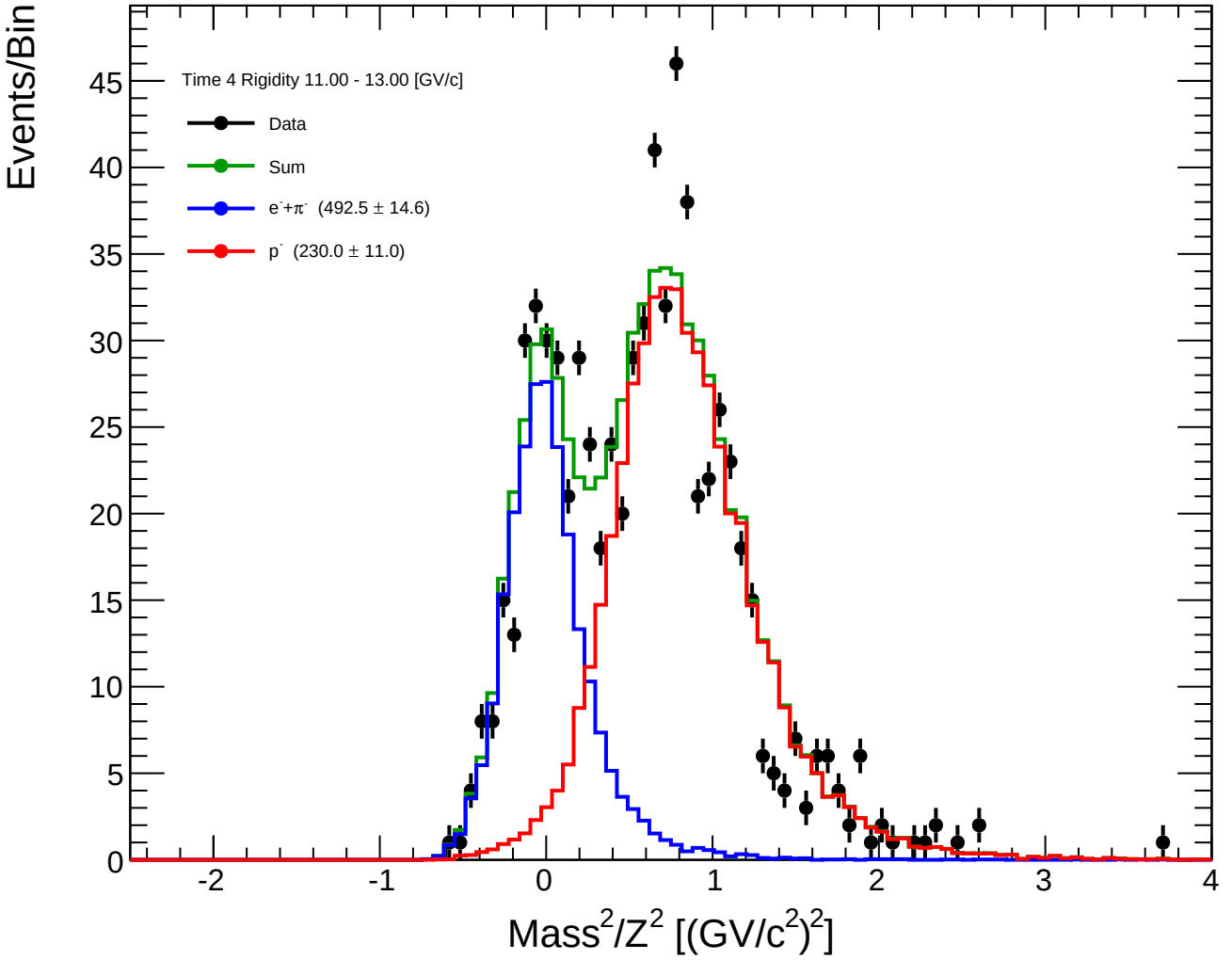

Time 4 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (299.1± 7.5)
p⁻ (9.4 ± 7.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

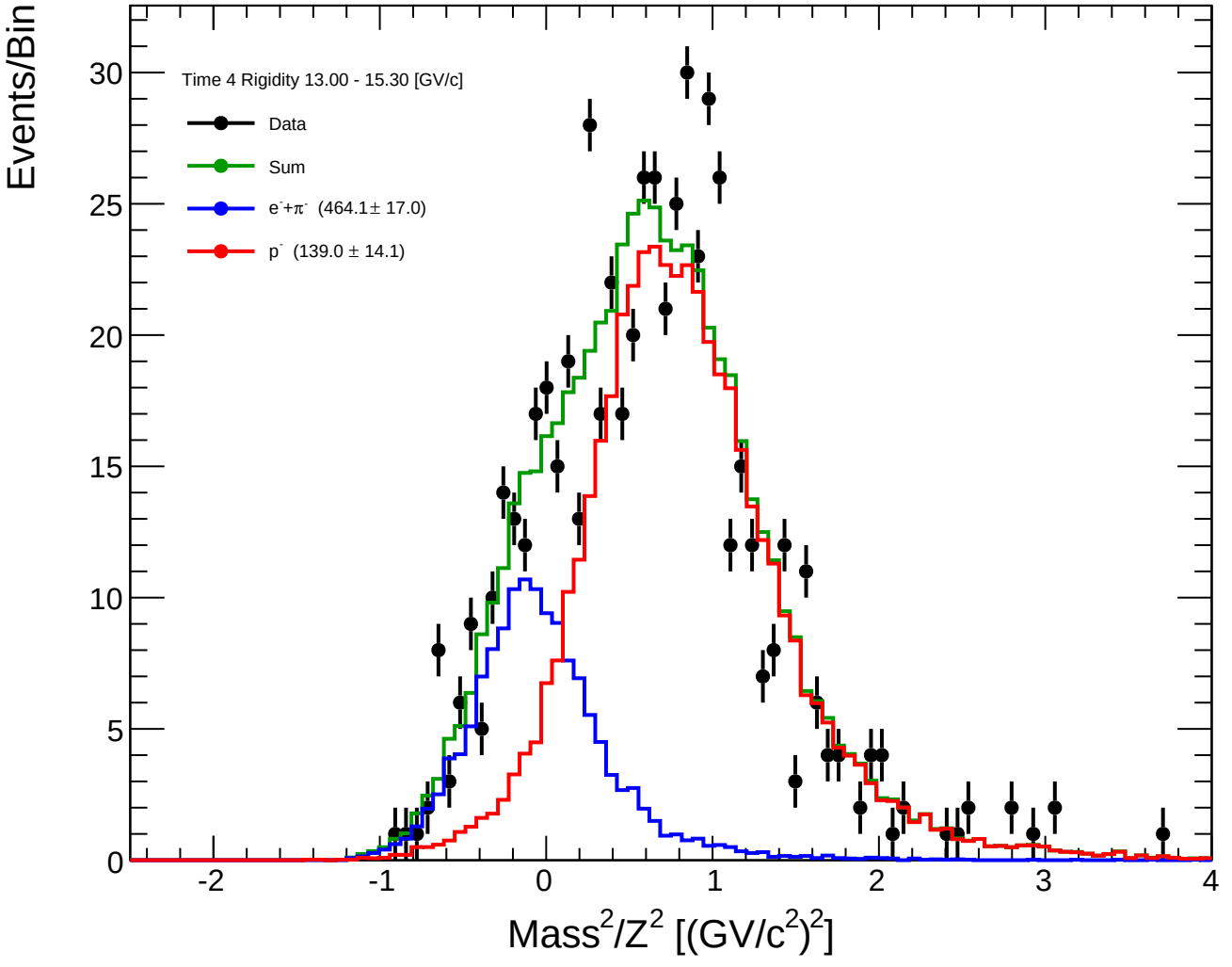

Time 4 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (326.8 ± 7.3)
p⁻ (11.5 ± 5.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

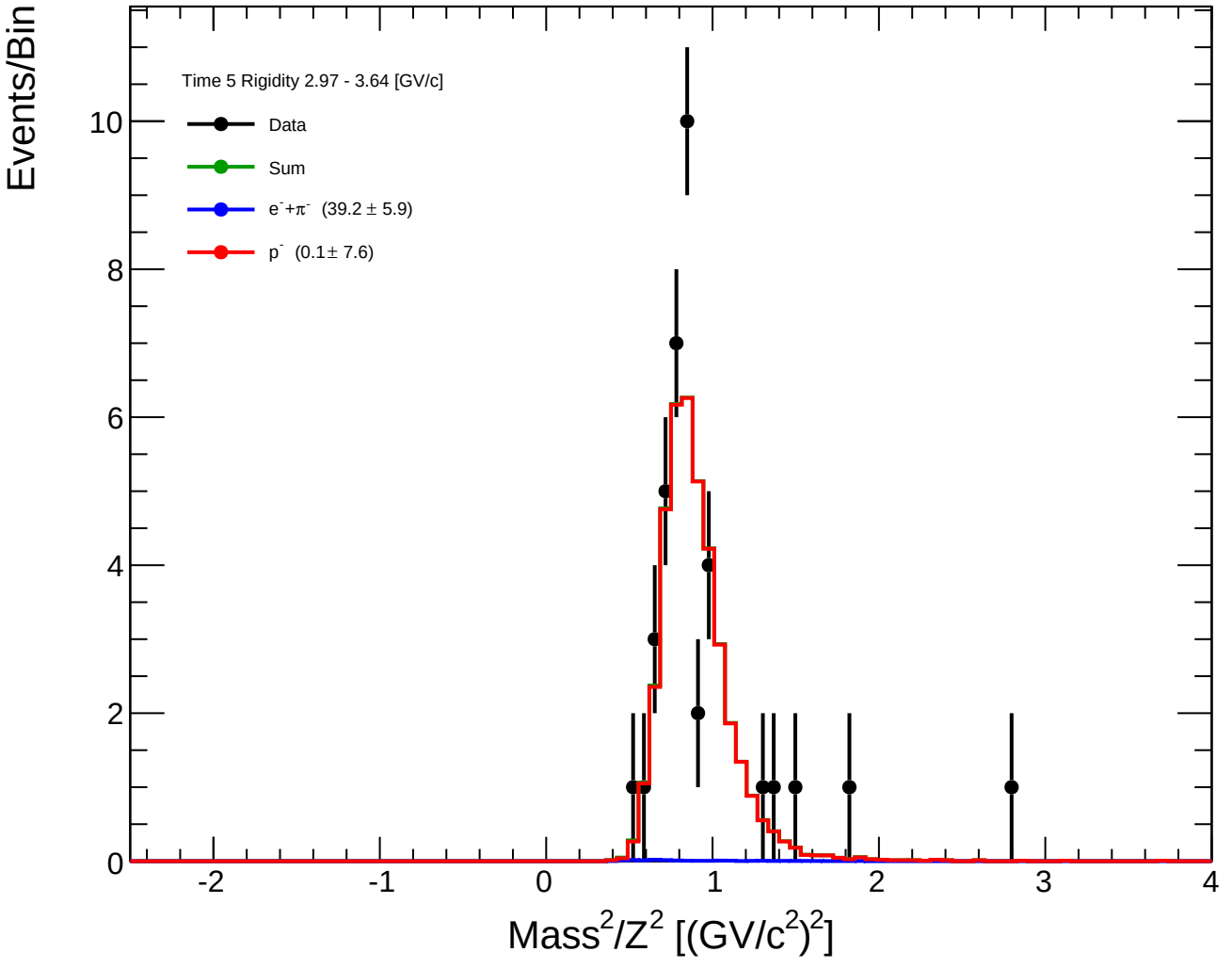

Time 4 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (310.5 ± 10.7)
p⁻ (20.8 ± 7.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

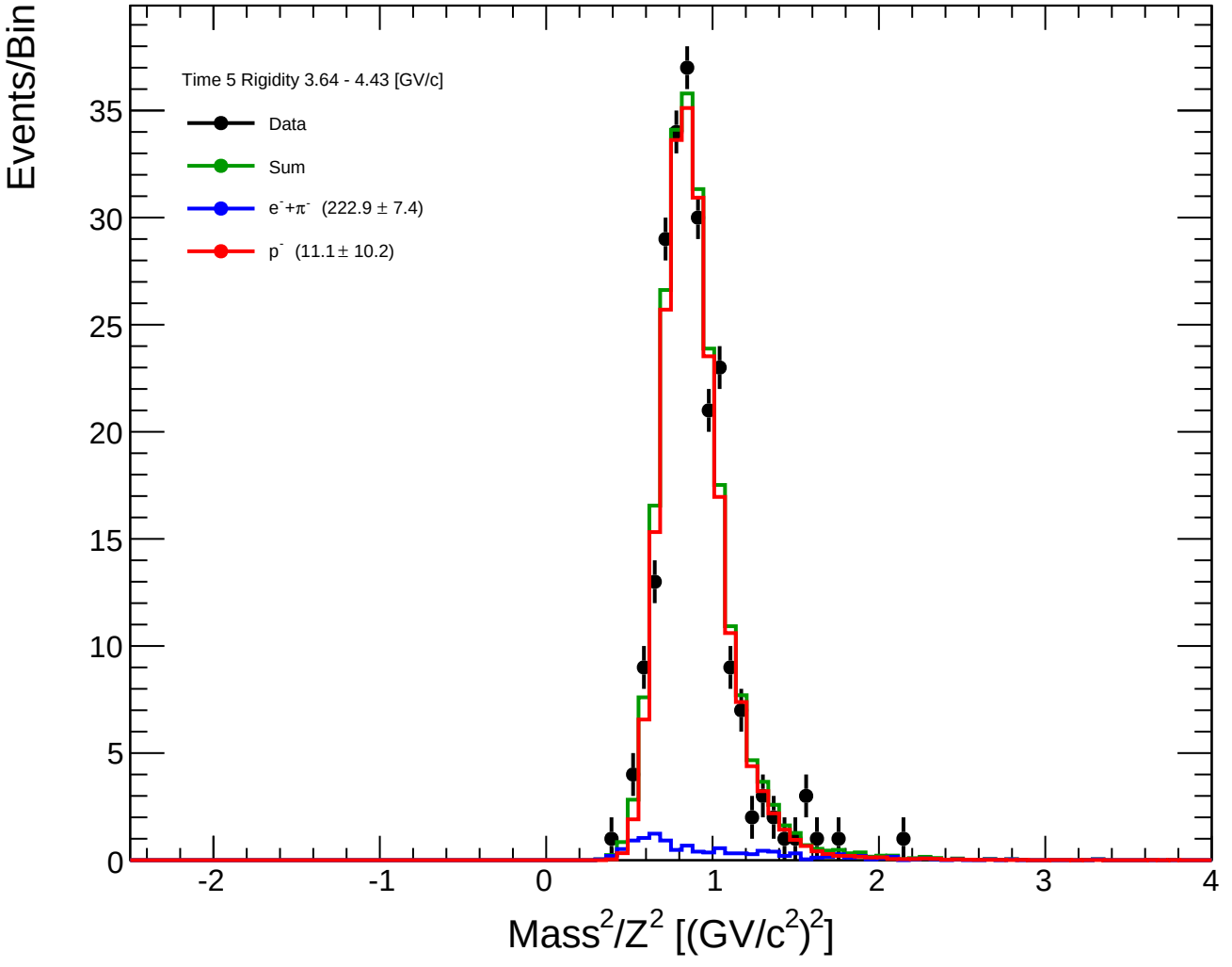

Time 4 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (298.2 ± 9.2)
p⁻ (78.5 ± 5.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

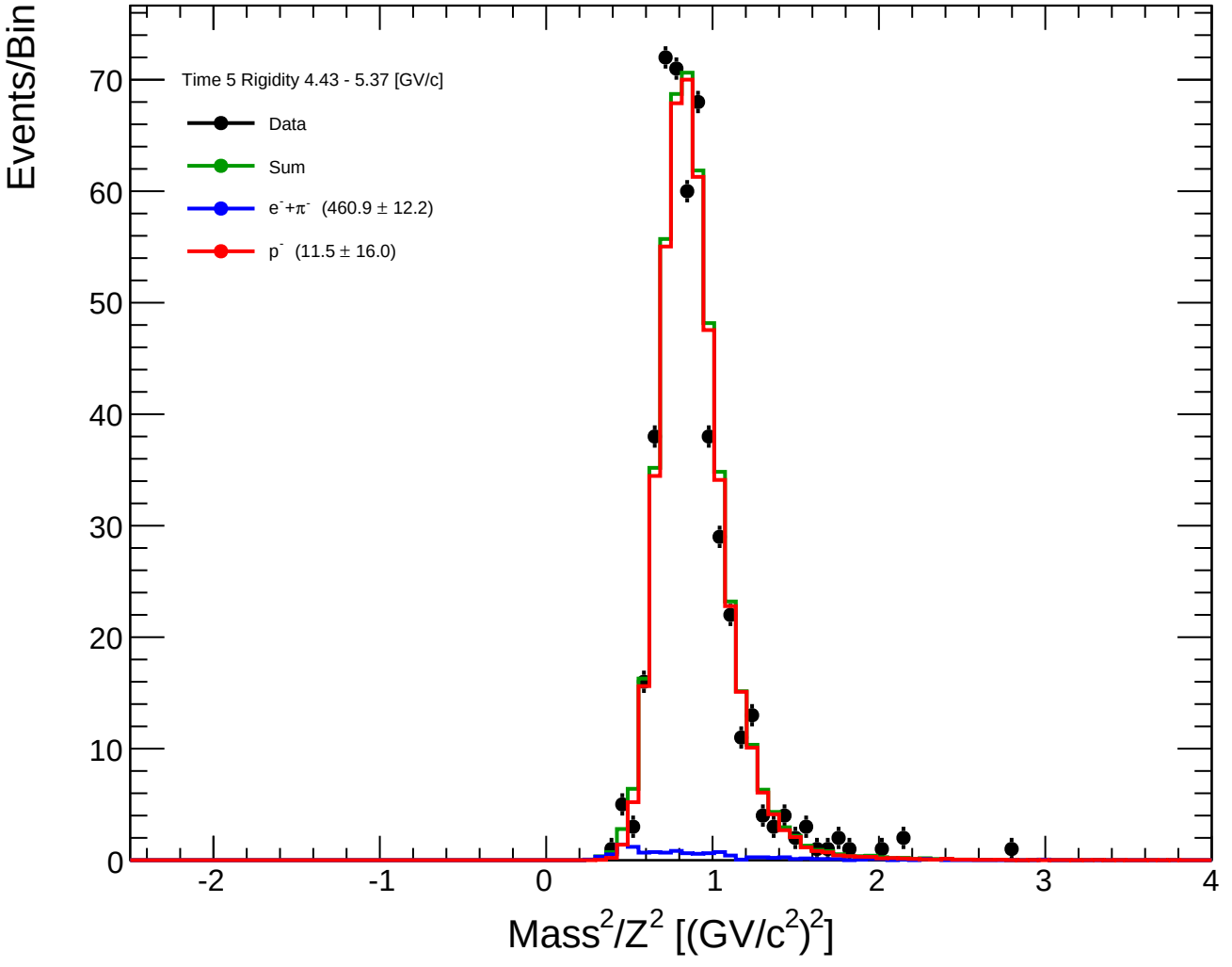

Time 4 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (519.1± 12.7)
p⁻ (270.0 ± 8.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

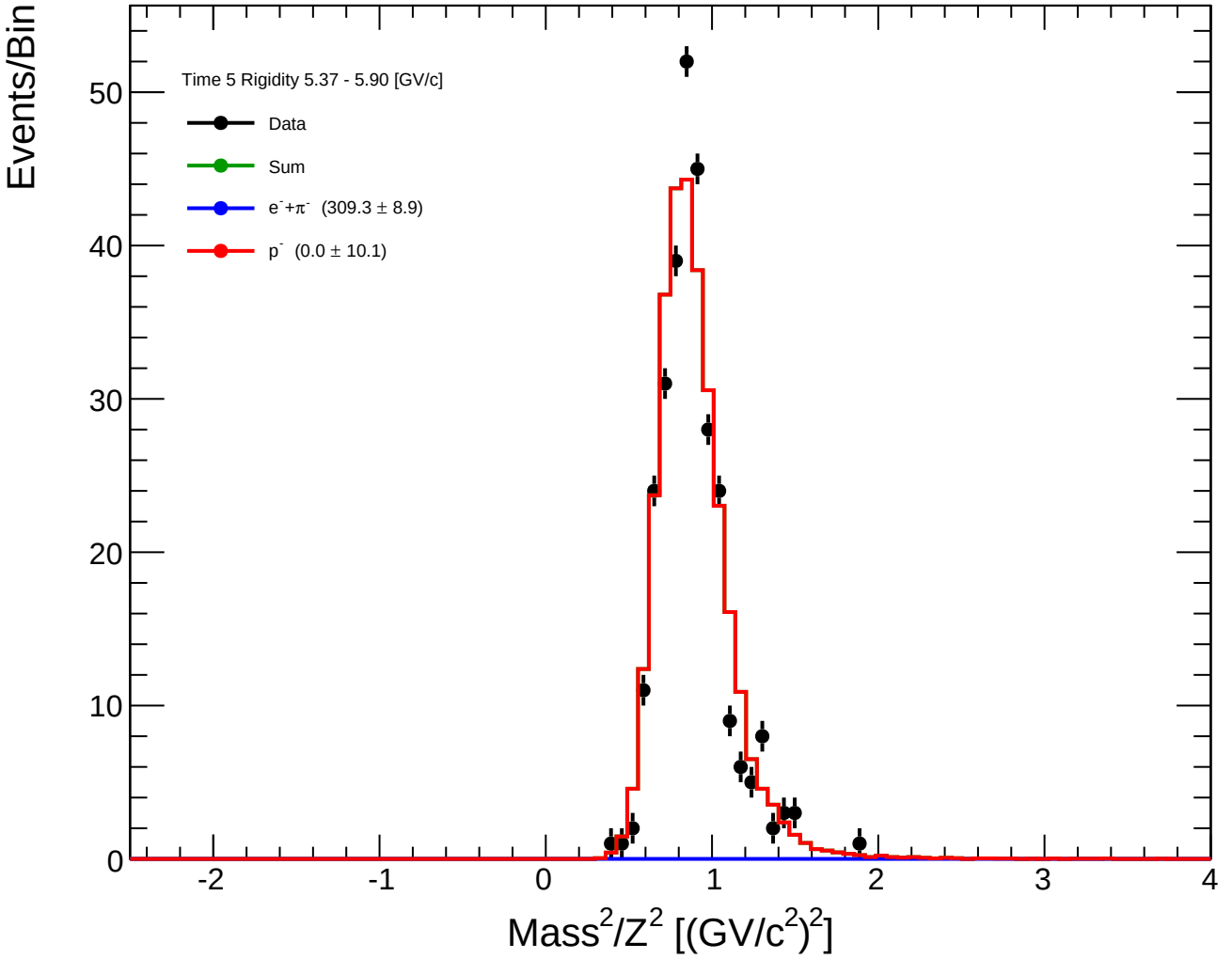

Time 4 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (492.5 ± 14.6)
p⁻ (230.0 ± 11.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

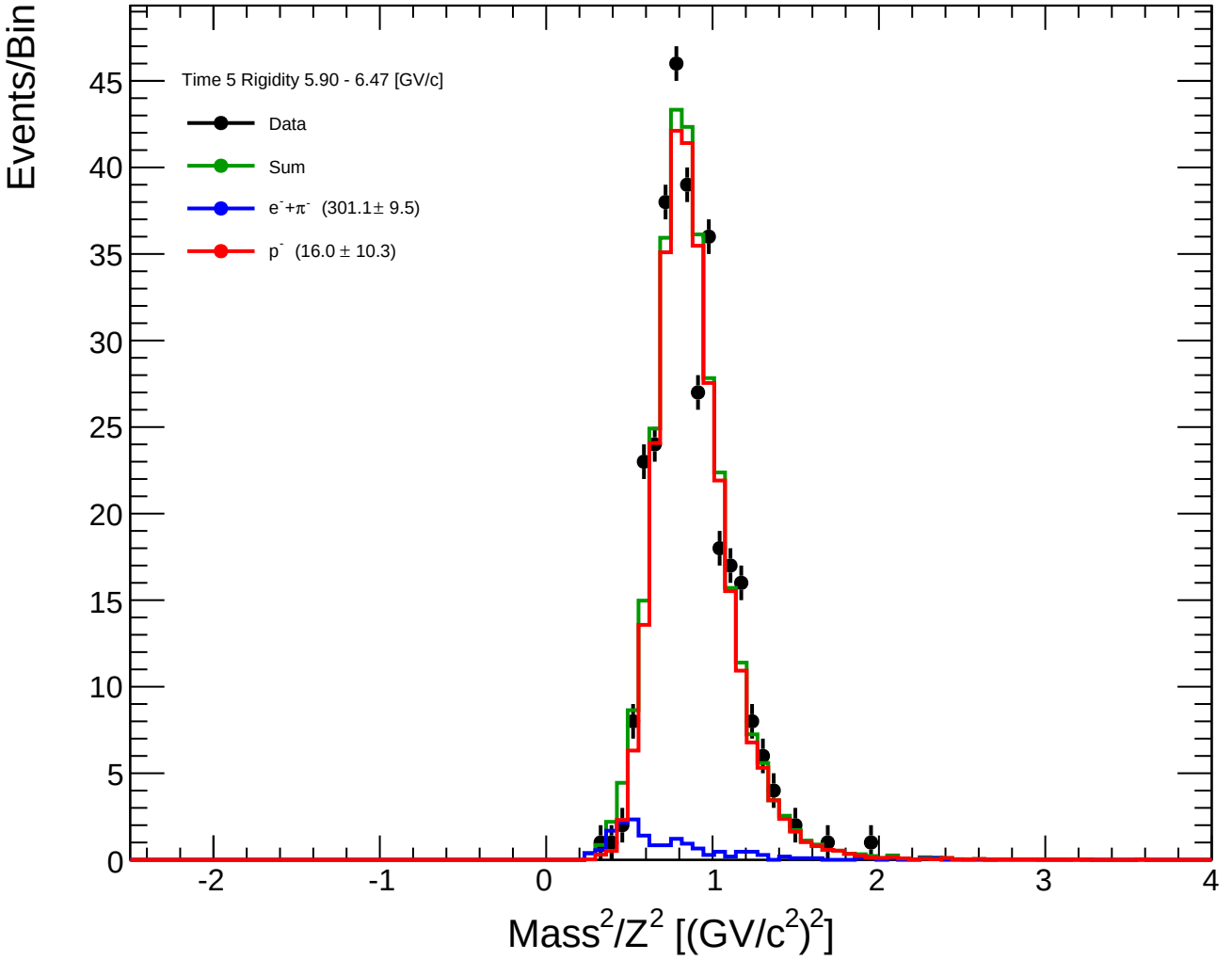

Time 4 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (464.1± 17.0)
p⁻ (139.0 ± 14.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

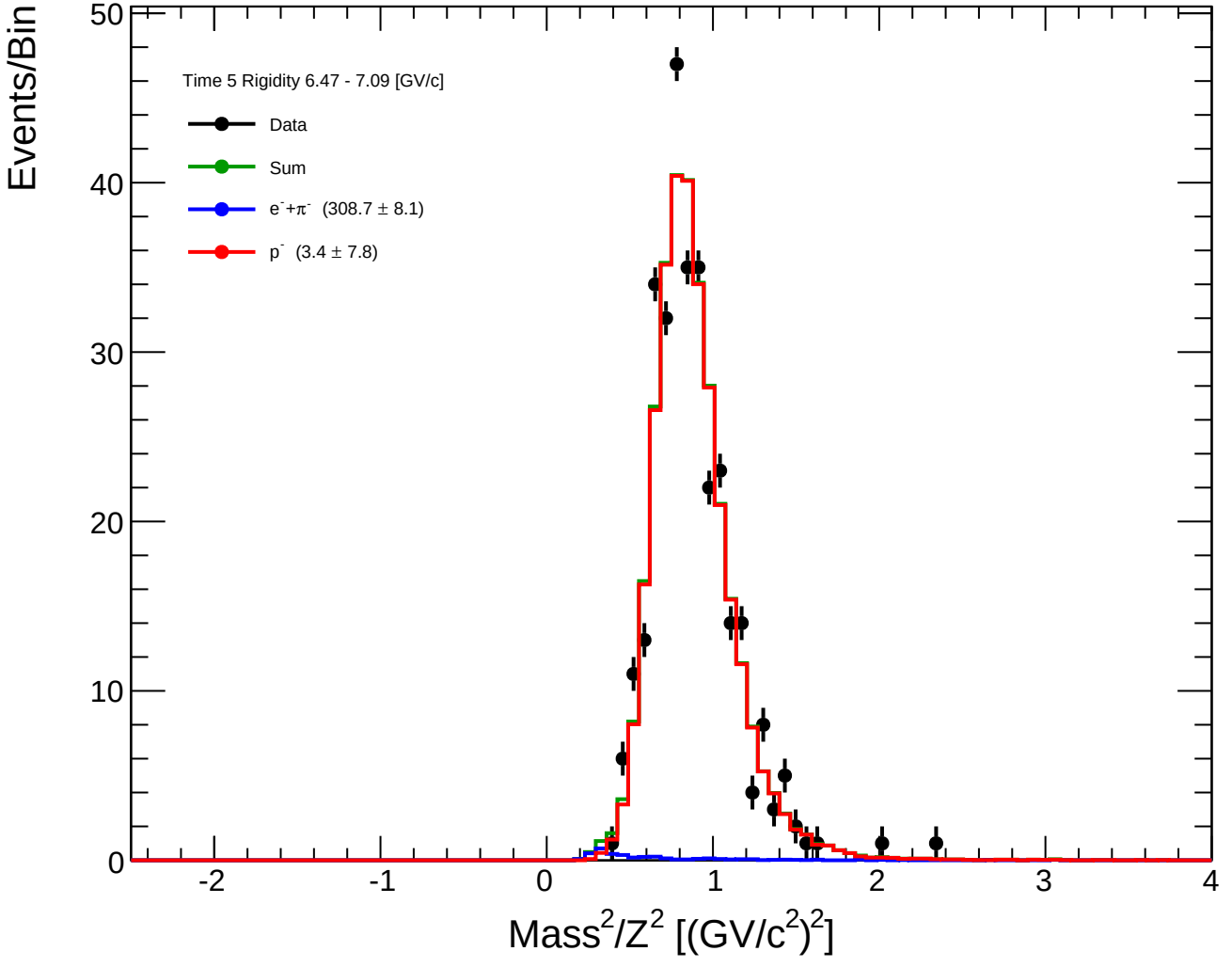

Time 5 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (39.2 ± 5.9)
p⁻ (0.1± 7.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
-2
-1
0
1
2
3
4

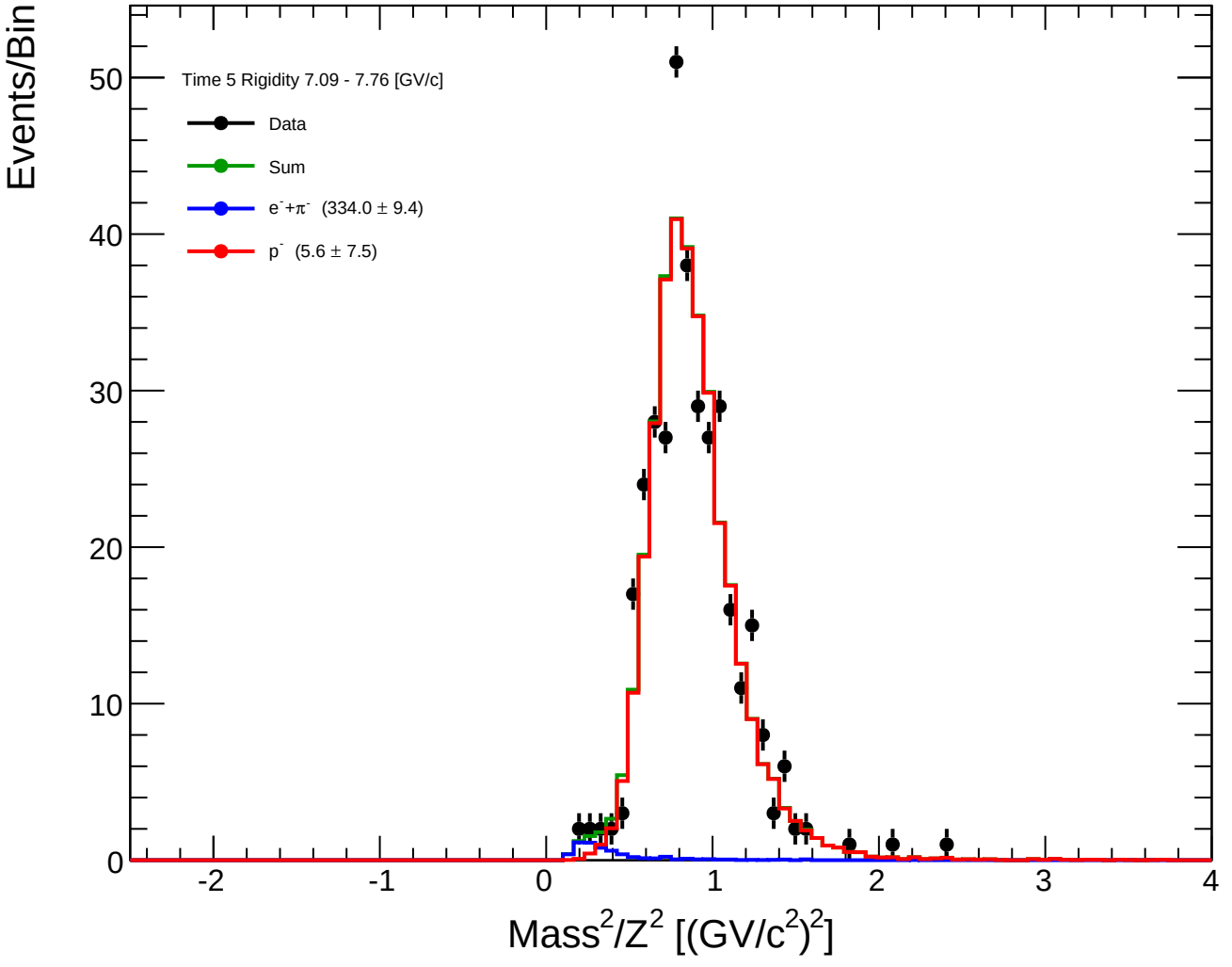

Time 5 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (222.9 ± 7.4)
p⁻ (11.1± 10.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

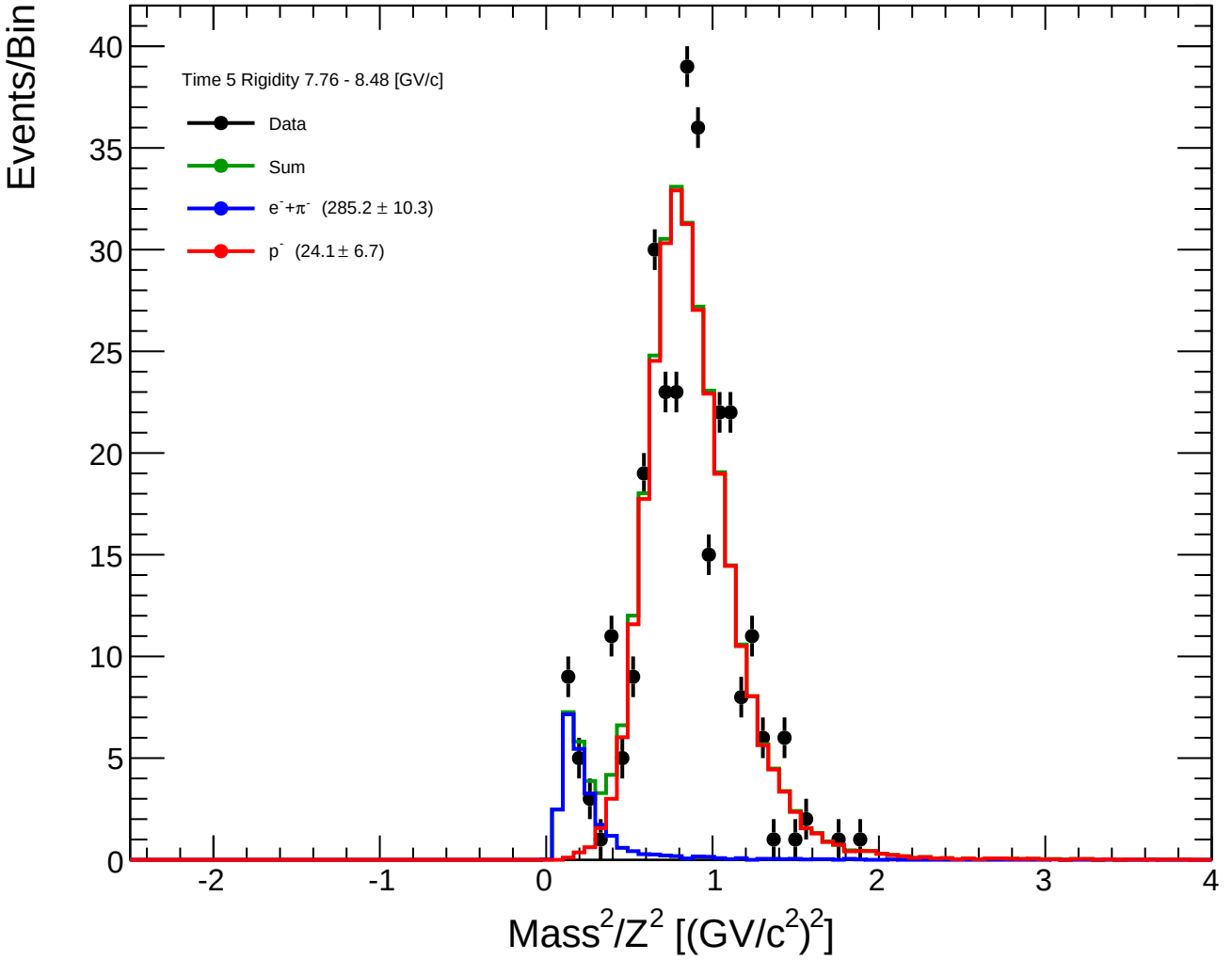

Time 5 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (460.9 ± 12.2)
p⁻ (11.5 ± 16.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

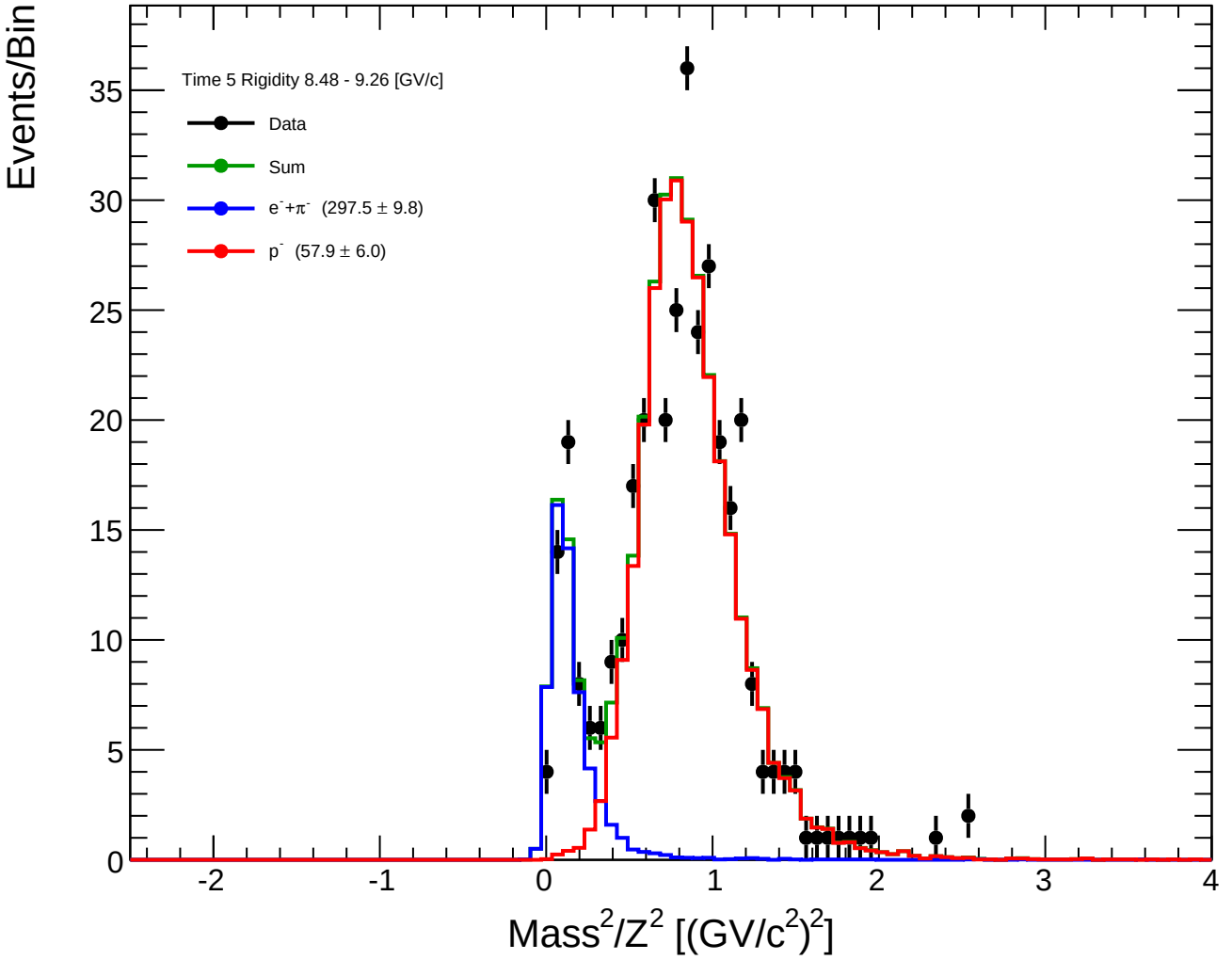

Time 5 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (309.3 ± 8.9)
p⁻ (0.0 ± 10.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

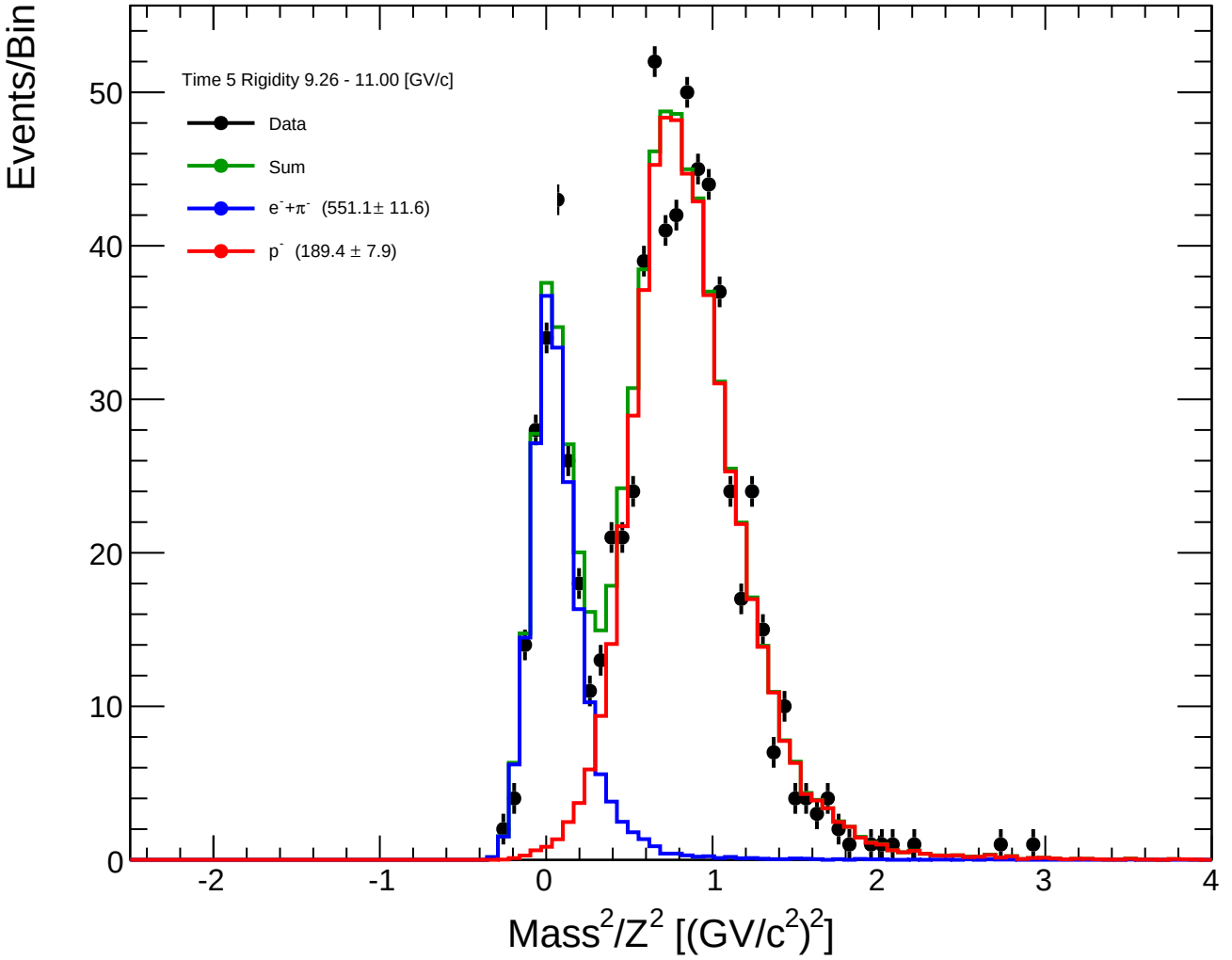

Time 5 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (301.1± 9.5)
p⁻ (16.0 ± 10.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

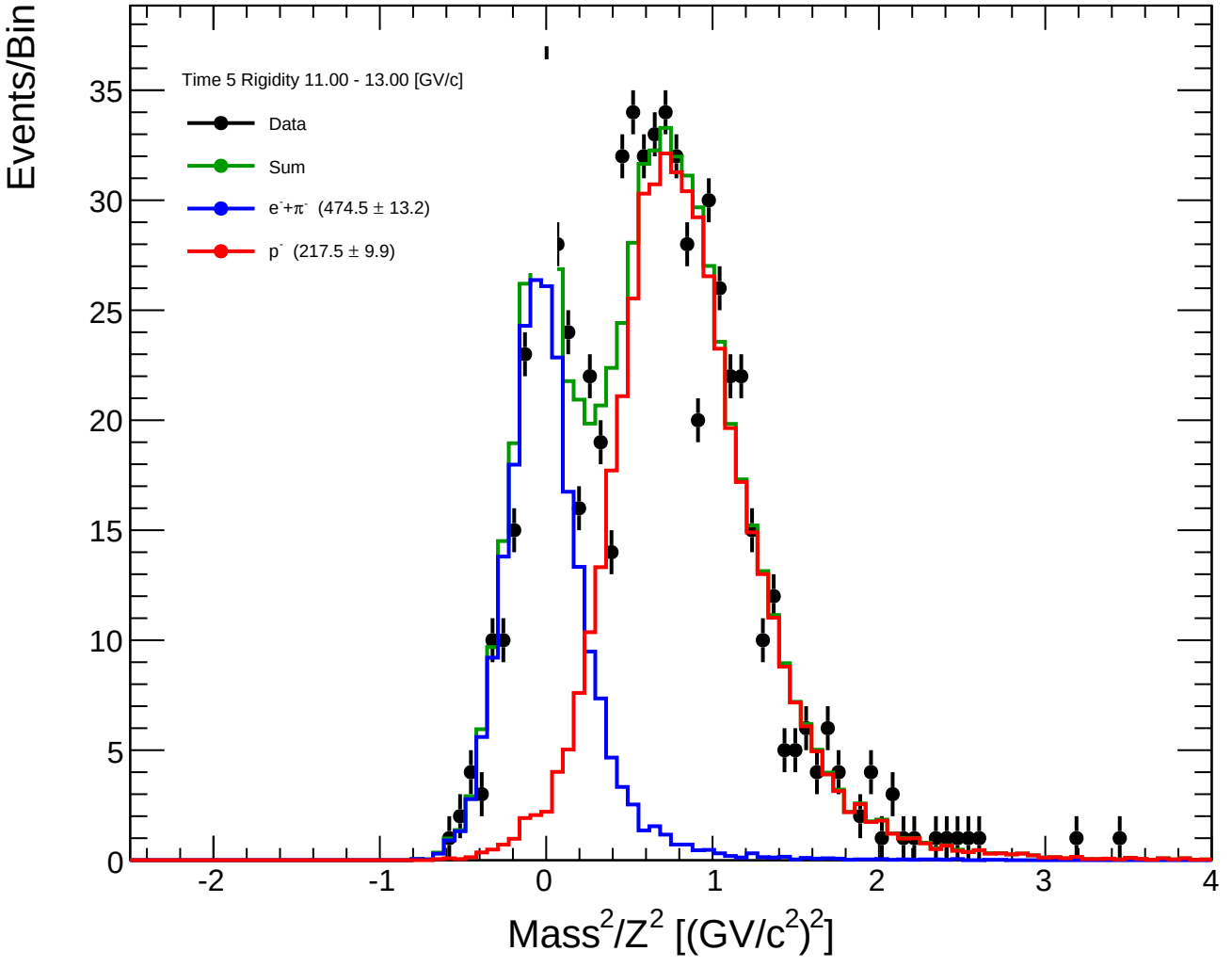

Time 5 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (308.7 ± 8.1)
p⁻ (3.4 ± 7.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

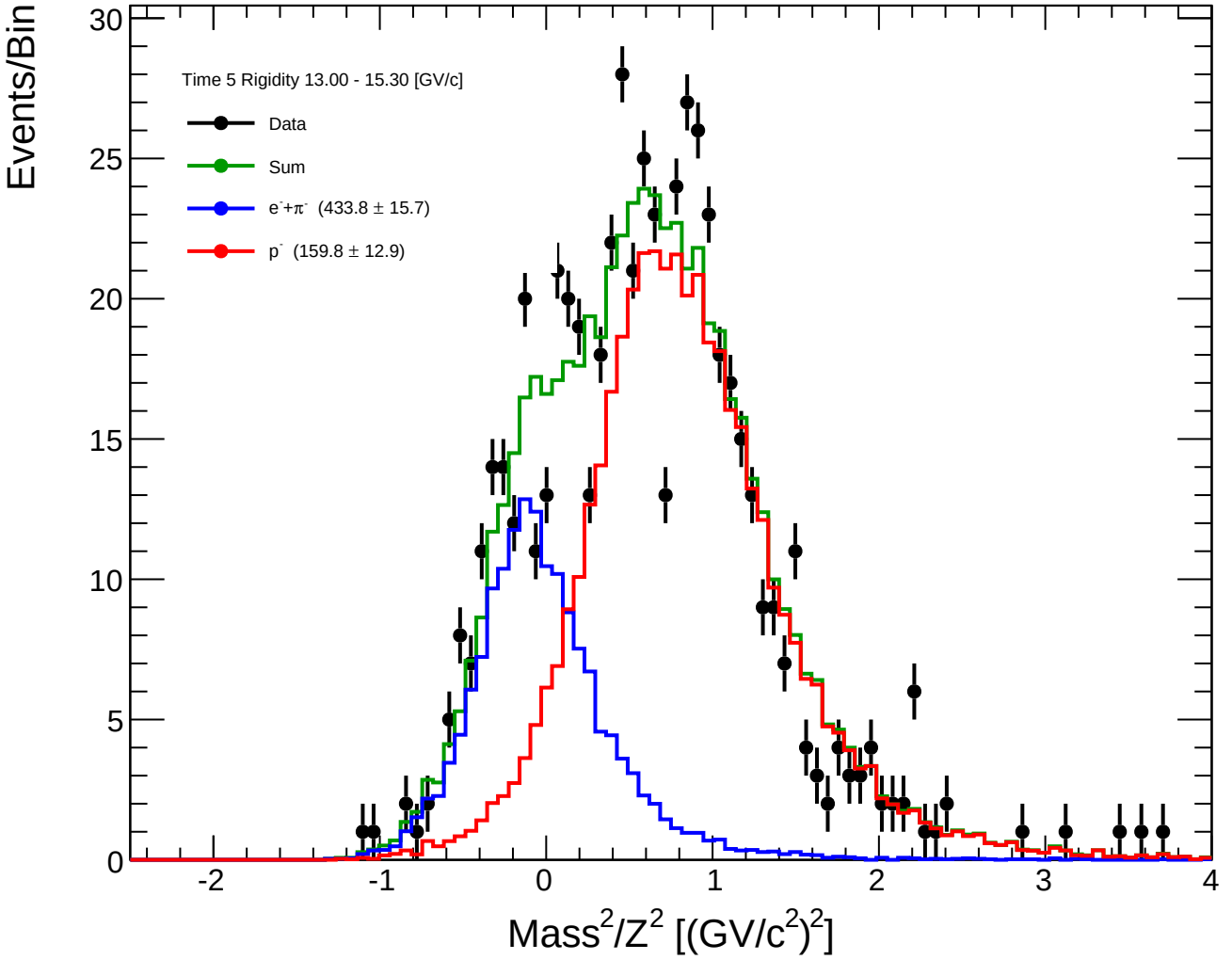

Time 5 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (334.0 ± 9.4)
p⁻ (5.6 ± 7.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

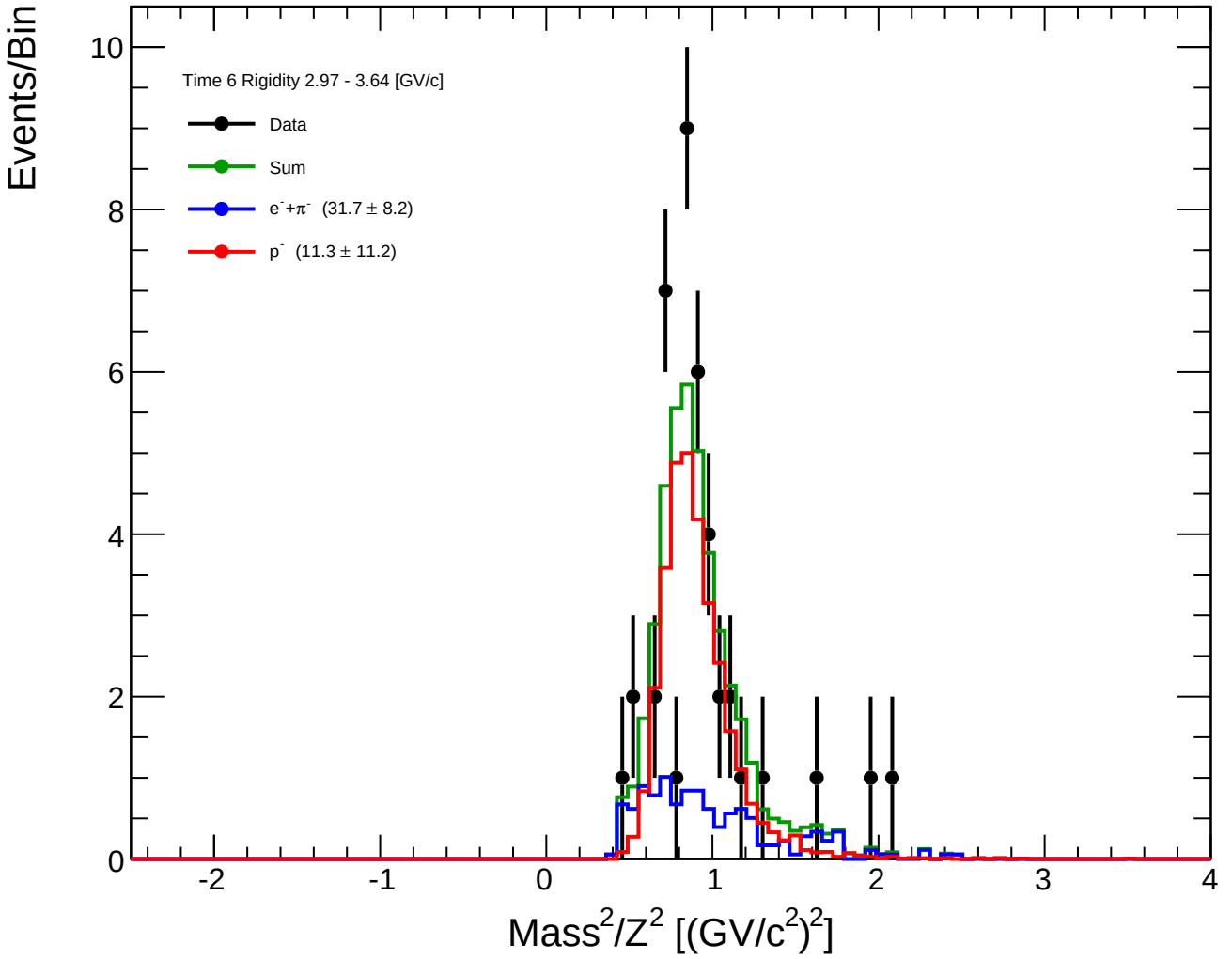

Time 5 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (285.2 ± 10.3)
p⁻ (24.1± 6.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

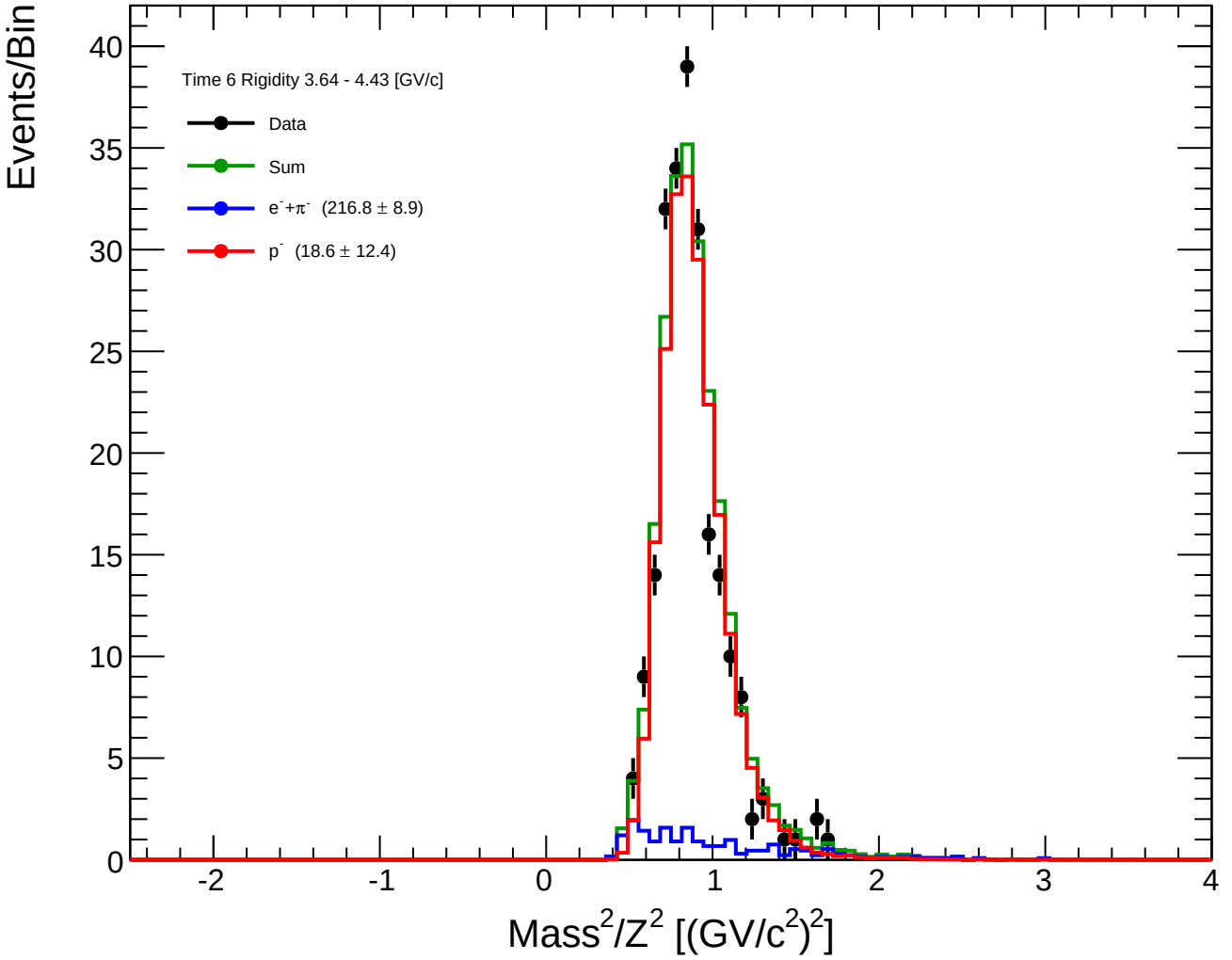

Time 5 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (297.5 ± 9.8)
p⁻ (57.9 ± 6.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

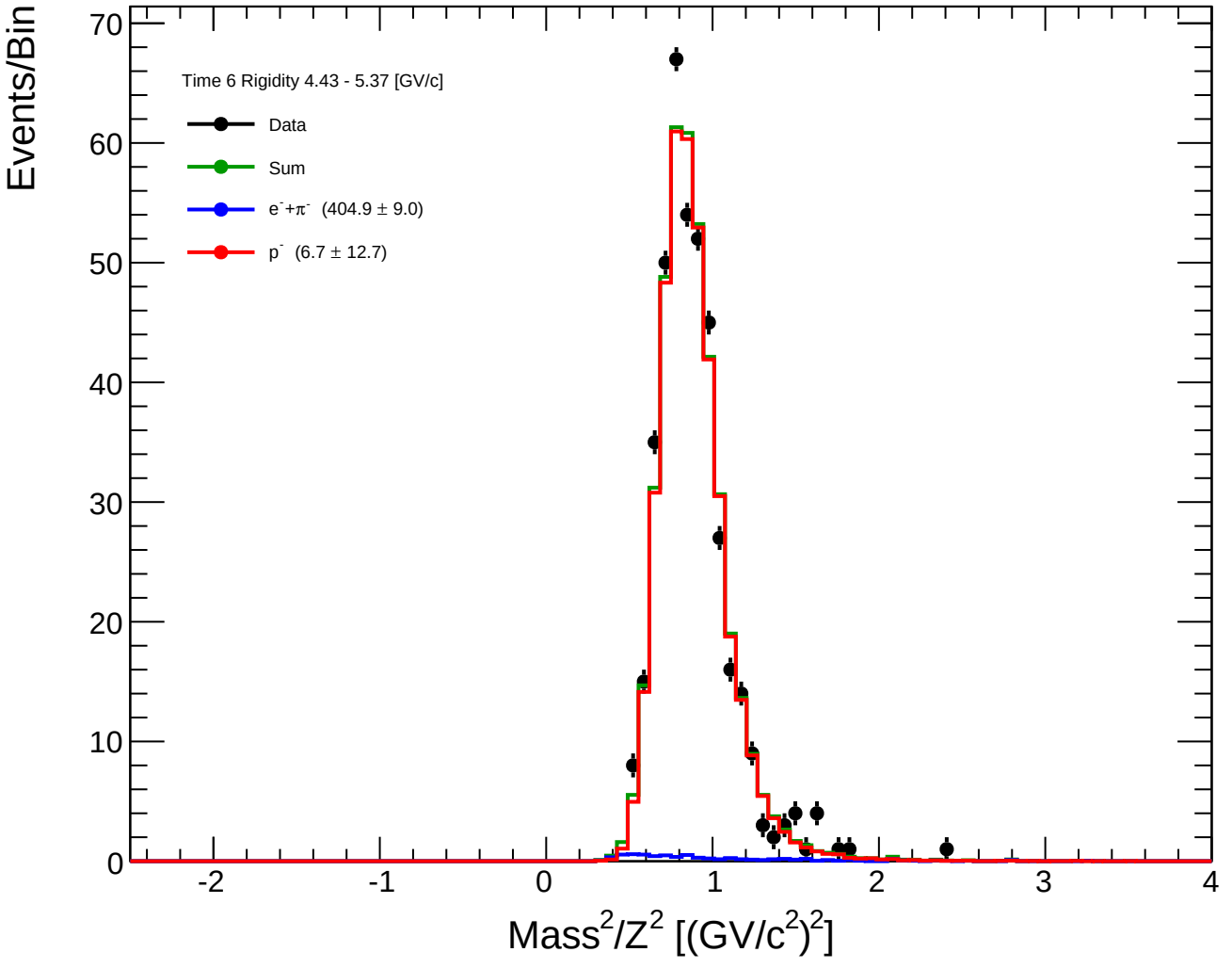

Time 5 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (551.1± 11.6)
p⁻ (189.4 ± 7.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

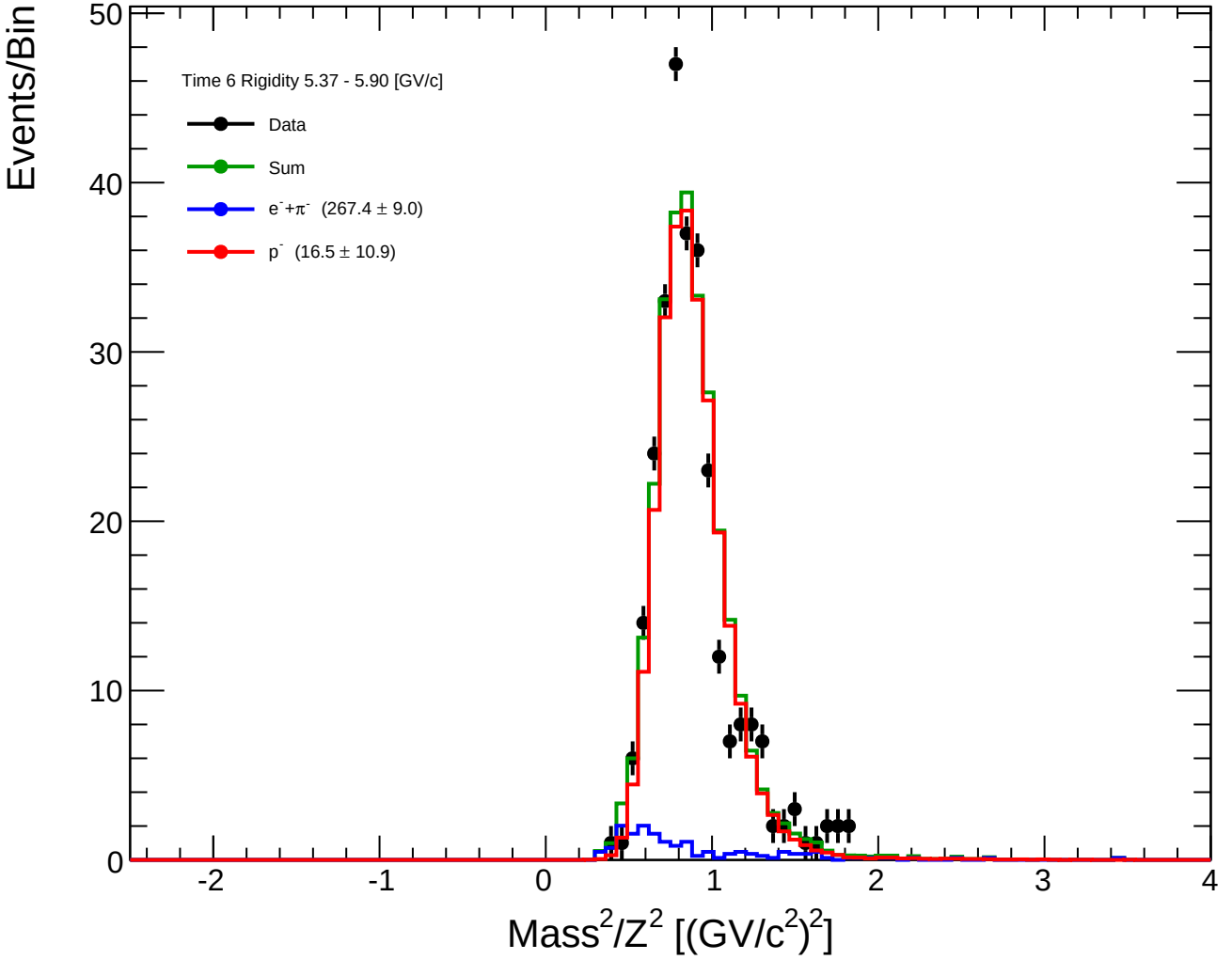

Time 5 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (474.5 ± 13.2)
p⁻ (217.5 ± 9.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

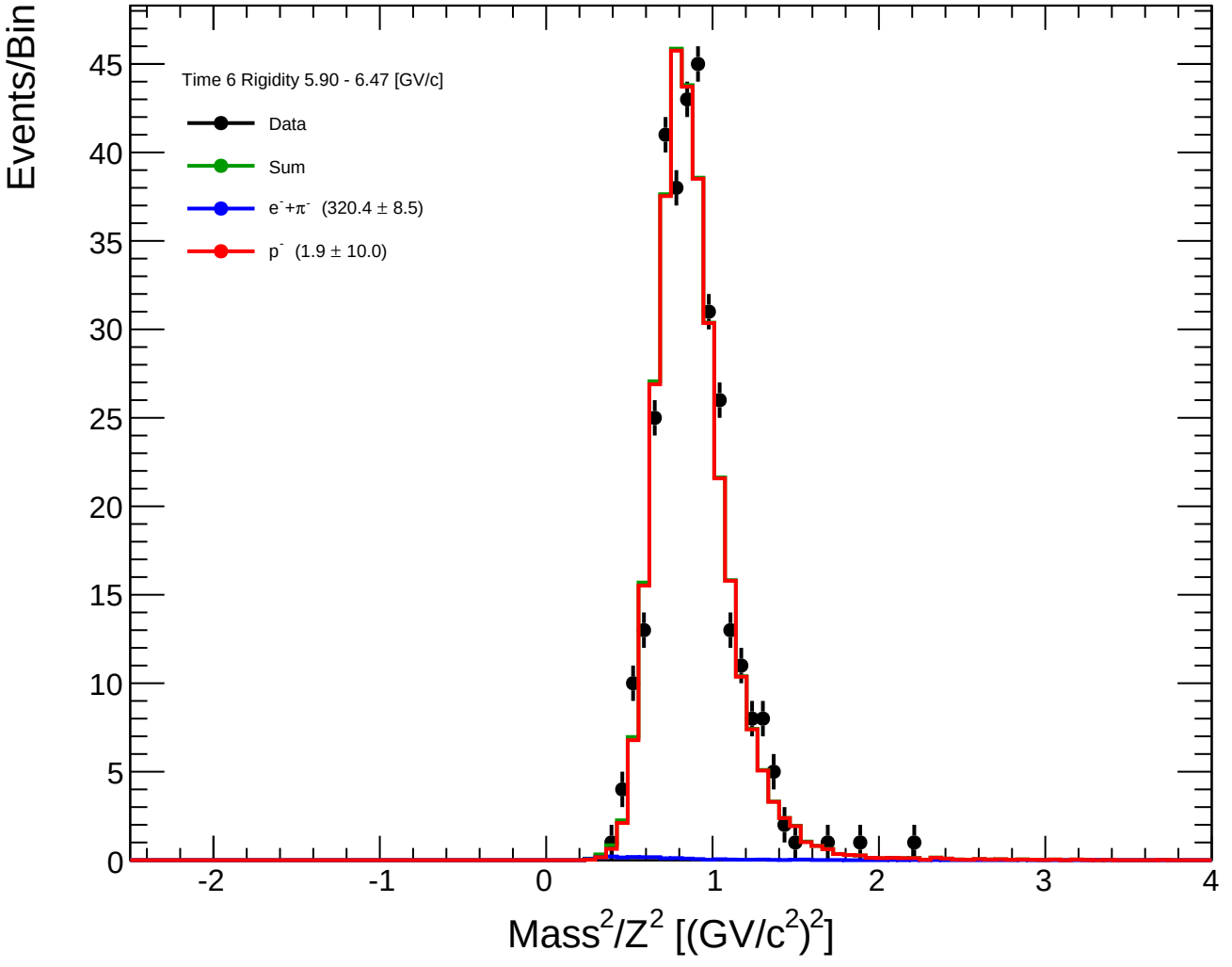

Time 5 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (433.8 ± 15.7)
p⁻ (159.8 ± 12.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

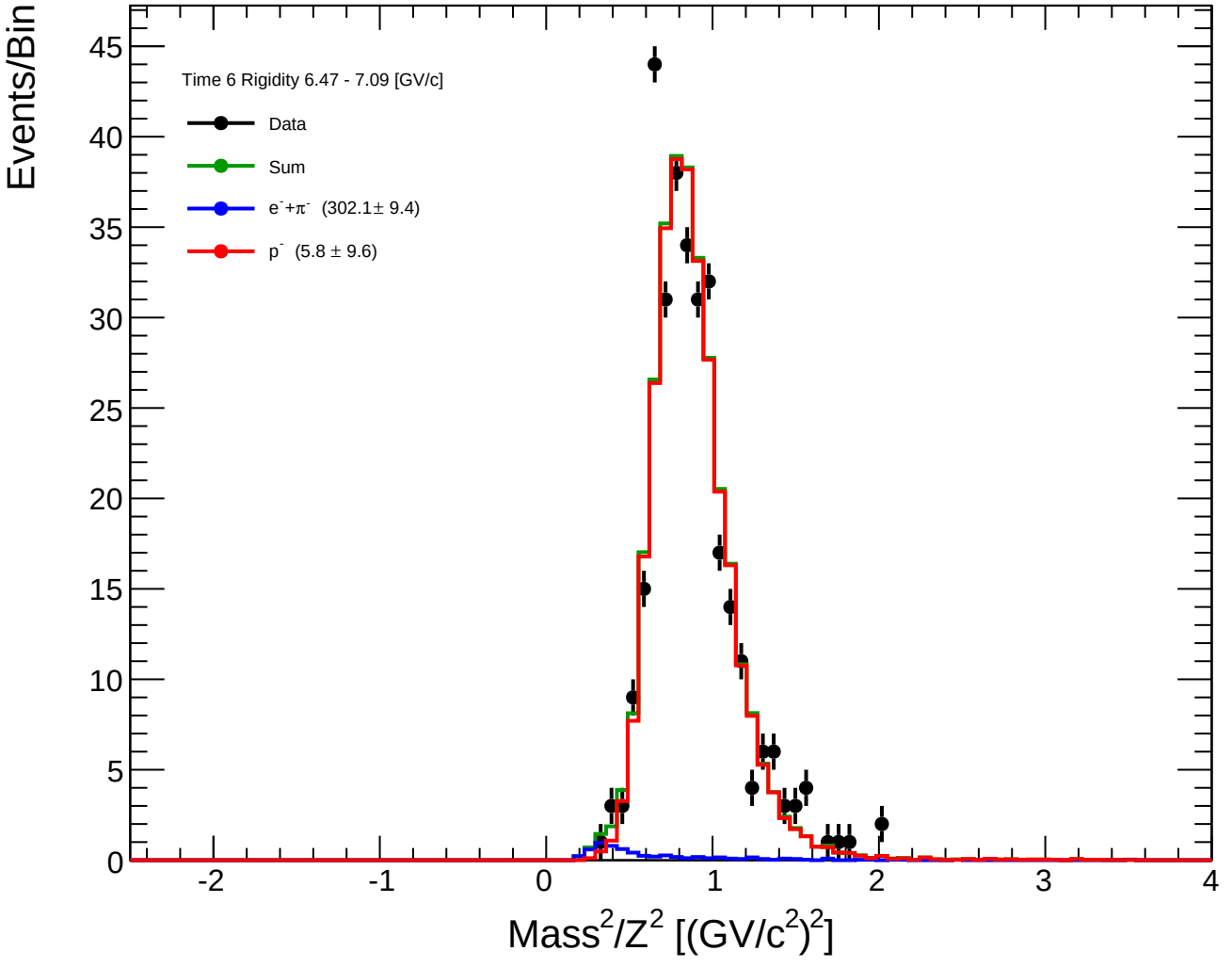

Events/Bin
Time 6 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (31.7 ± 8.2)
p⁻ (11.3 ± 11.2)
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
-2
-1
0
1
2
3
4

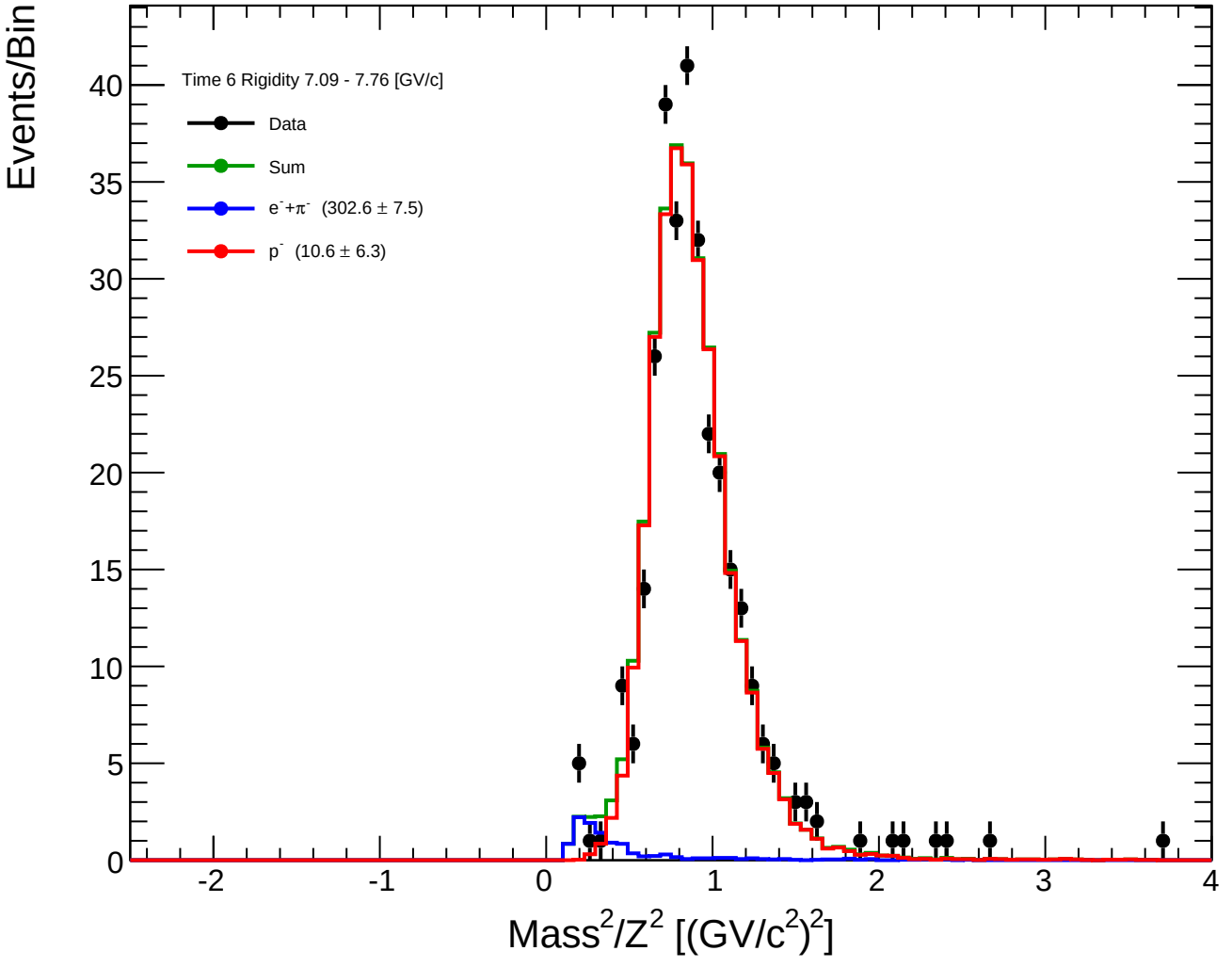

Time 6 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (216.8 ± 8.9)
p⁻ (18.6 ± 12.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

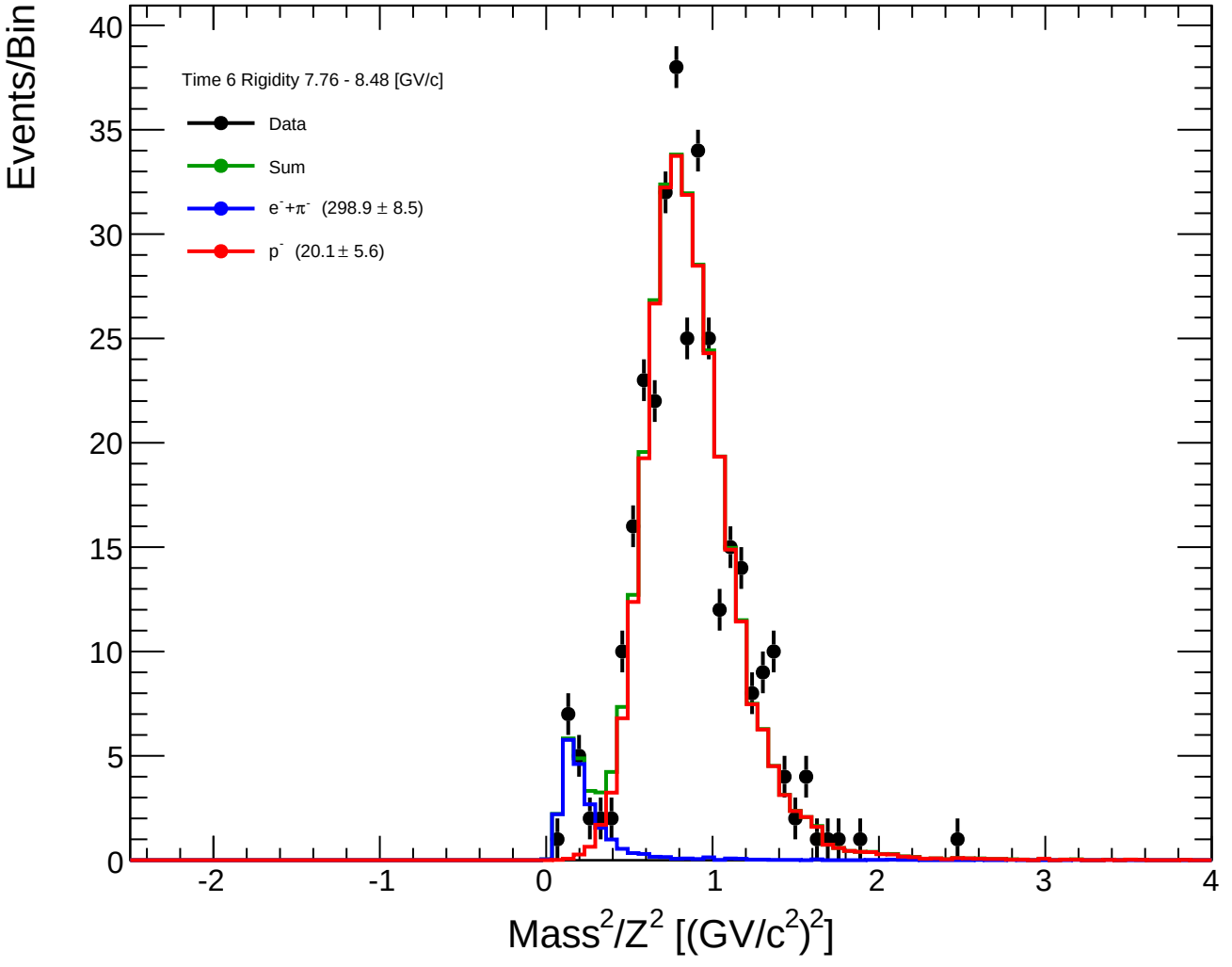

Time 6 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (404.9 ± 9.0)
p⁻ (6.7 ± 12.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

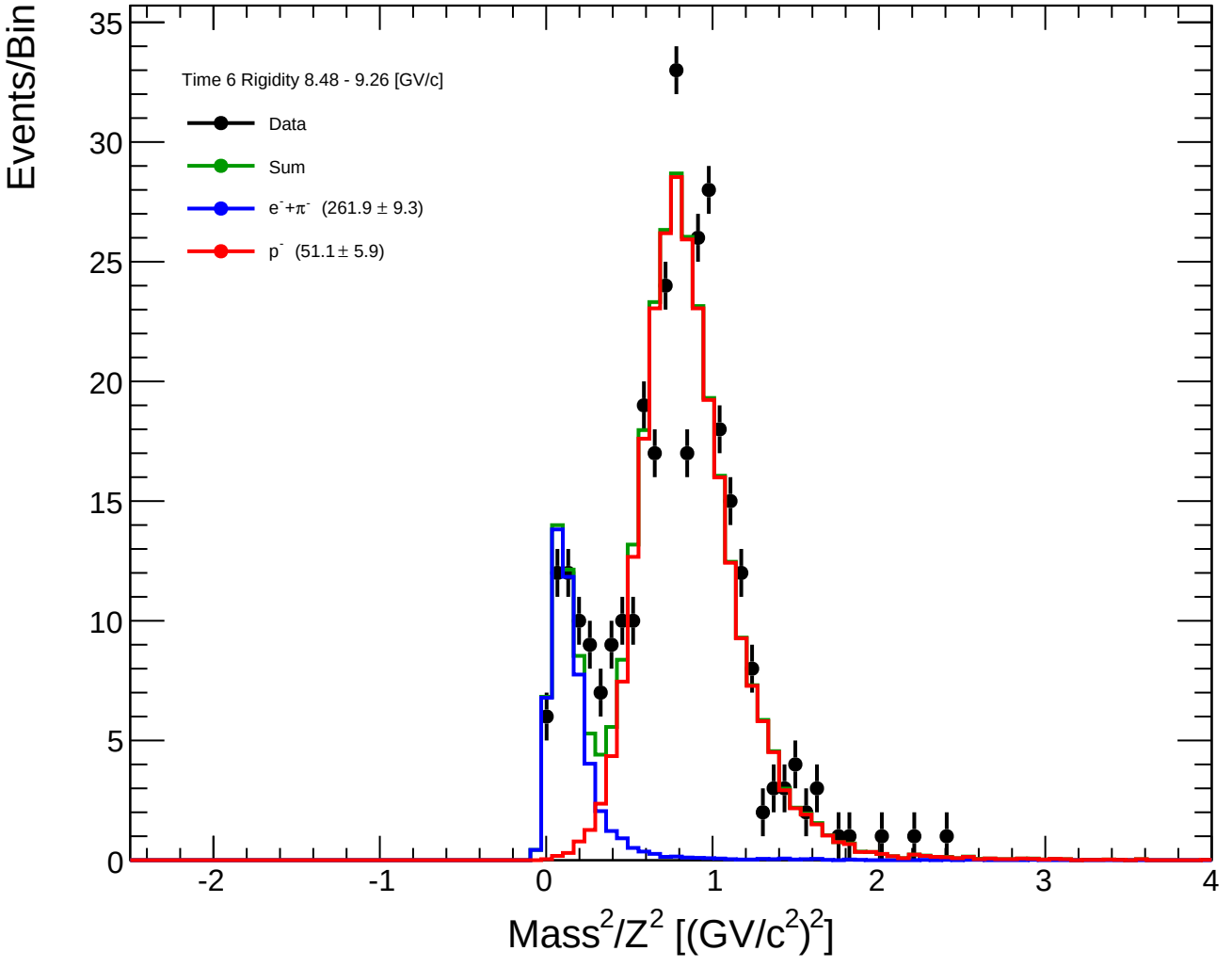

Time 6 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (267.4 ± 9.0)
p⁻ (16.5 ± 10.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

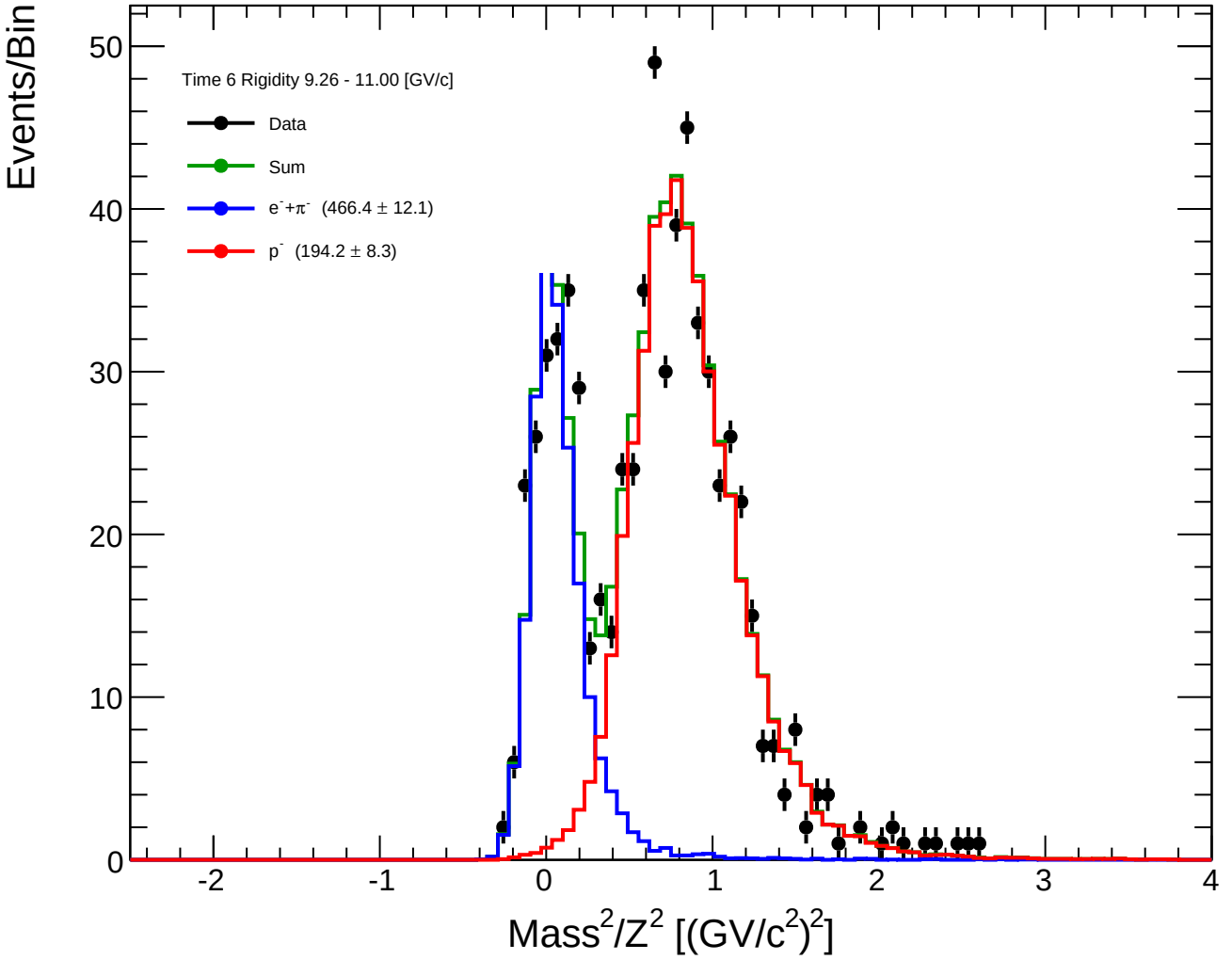

Time 6 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (320.4 ± 8.5)
p⁻ (1.9 ± 10.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

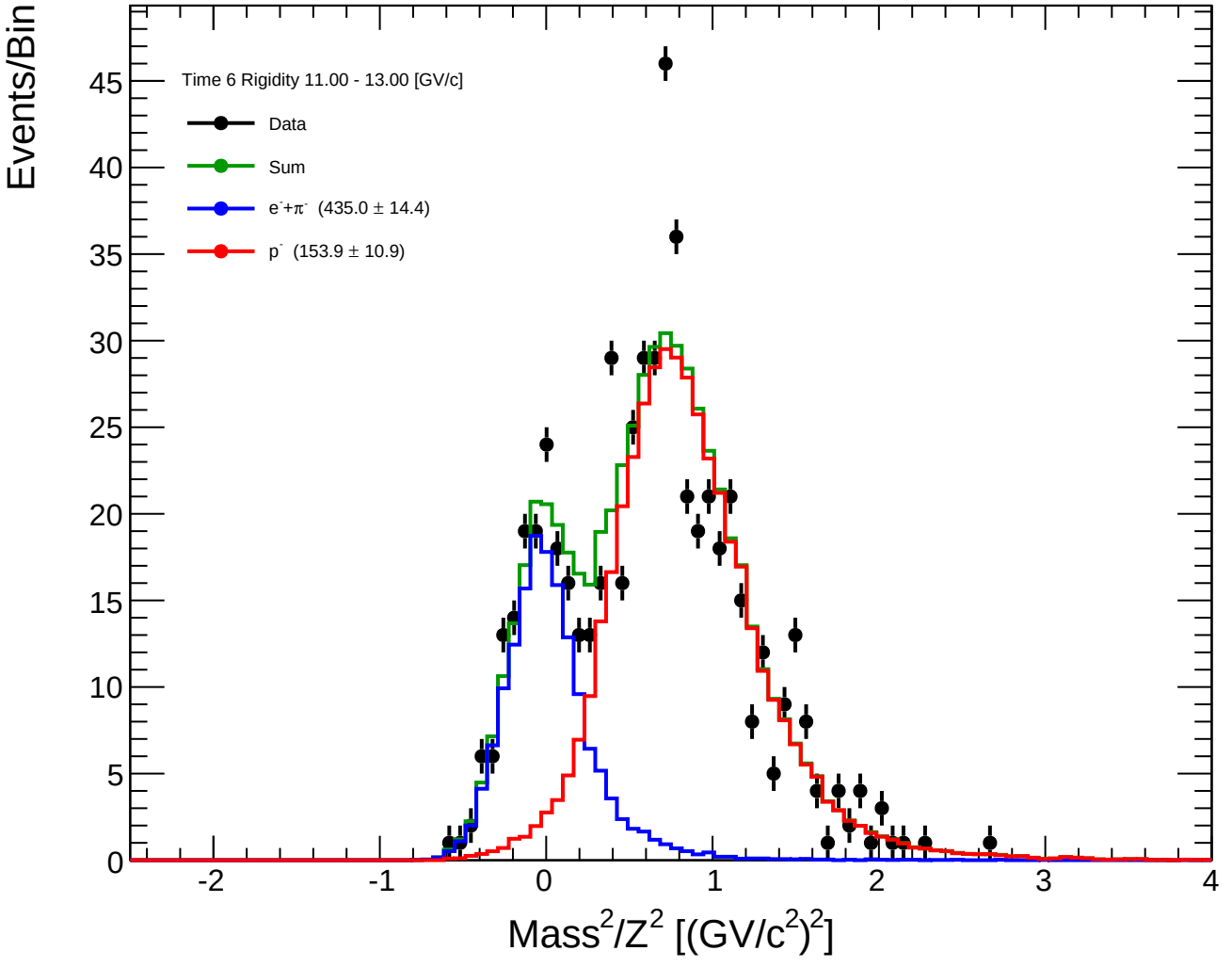

Time 6 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (302.1± 9.4)
p⁻ (5.8 ± 9.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

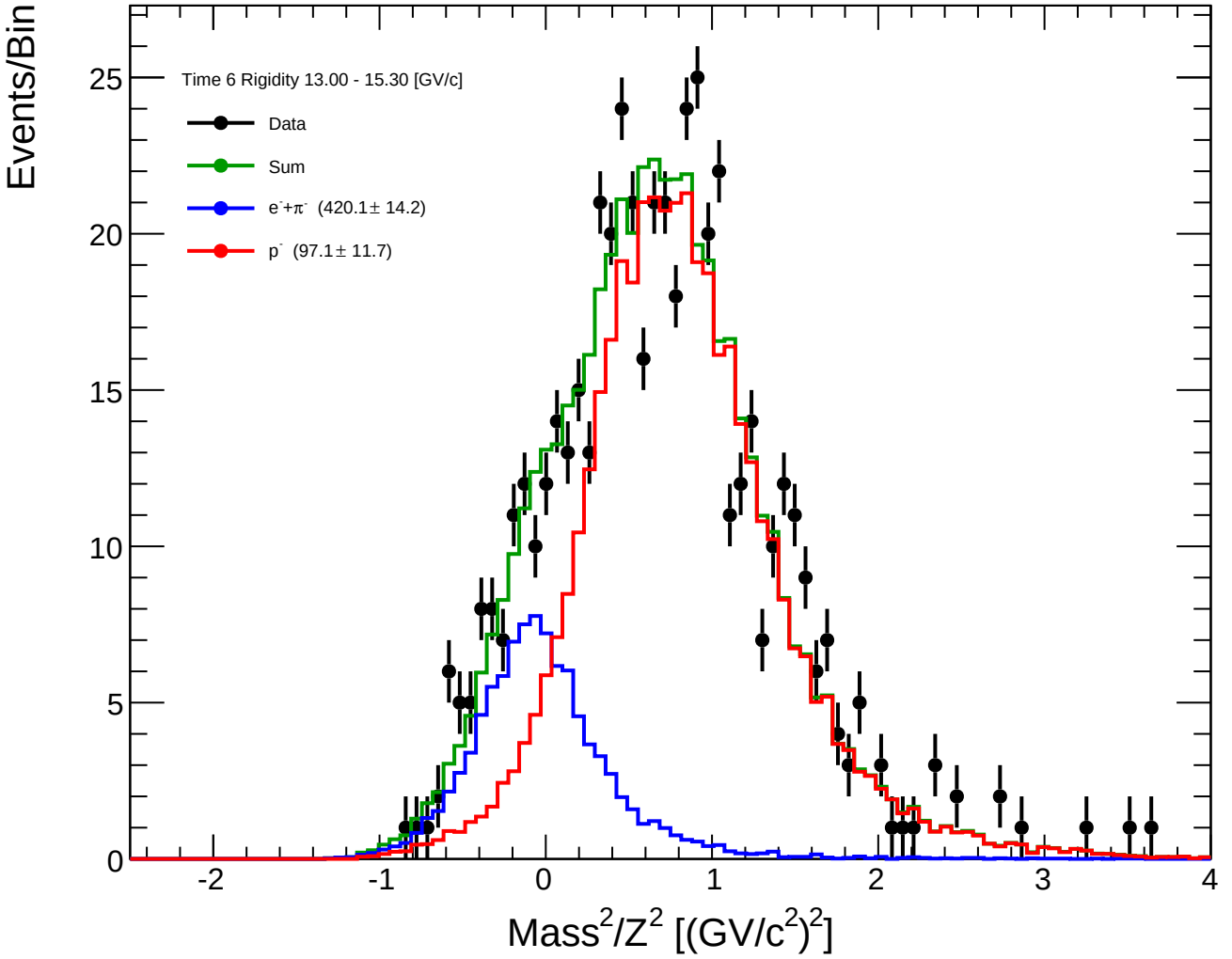

Time 6 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (302.6 ± 7.5)
p⁻ (10.6 ± 6.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

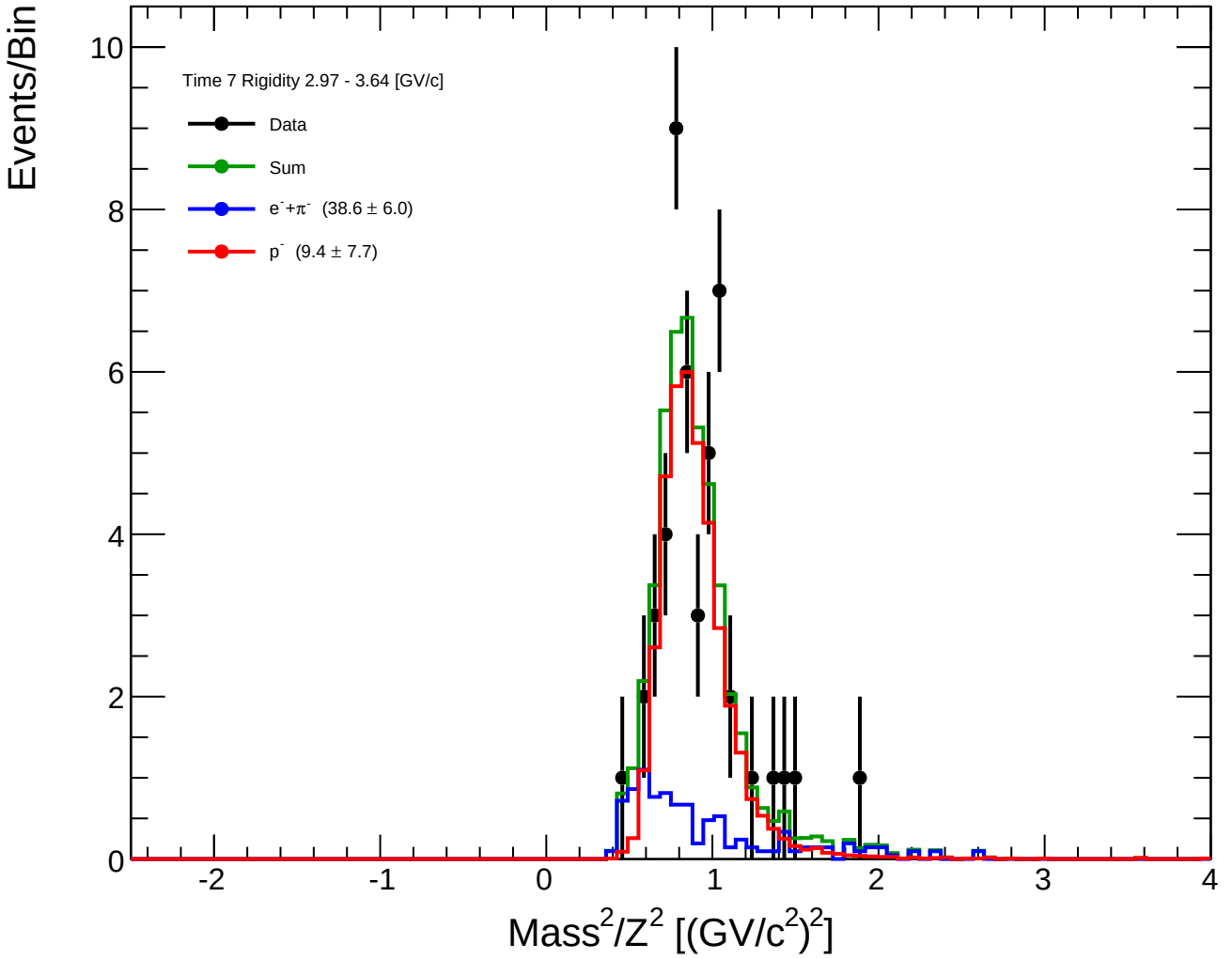

Time 6 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (298.9 ± 8.5)
p⁻ (20.1± 5.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

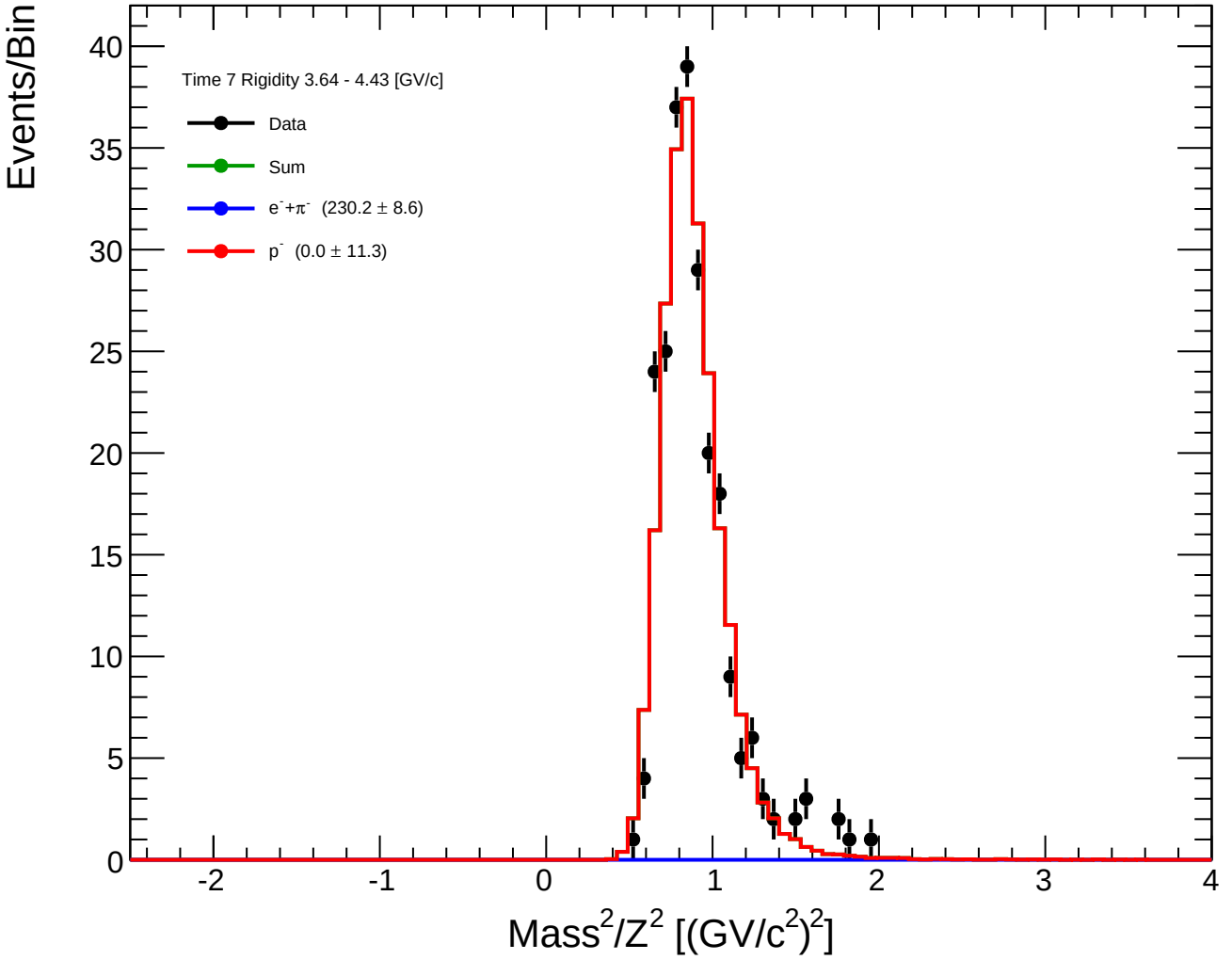

Time 6 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (261.9 ± 9.3)
p⁻ (51.1± 5.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

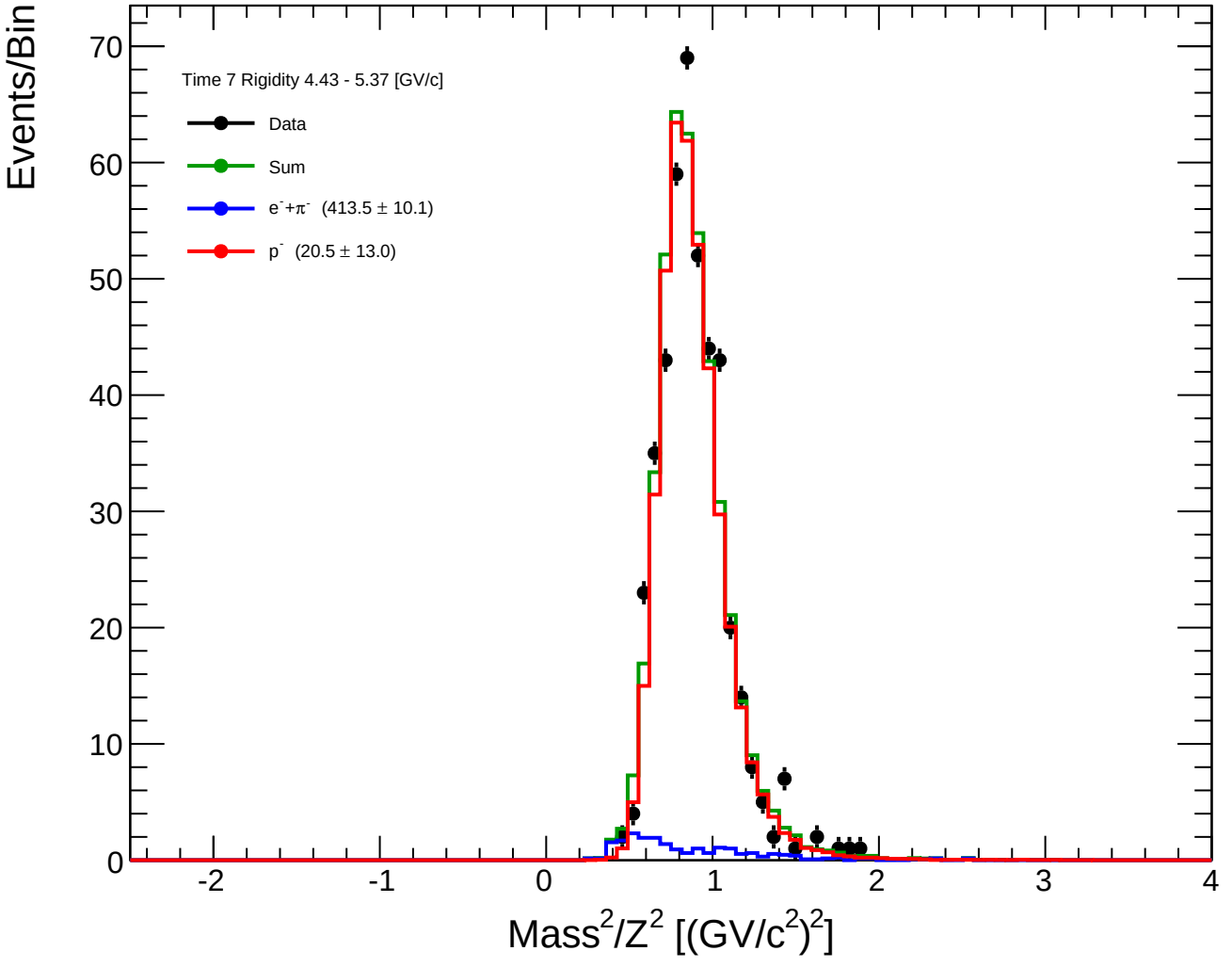

Time 6 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (466.4 ± 12.1)
p⁻ (194.2 ± 8.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

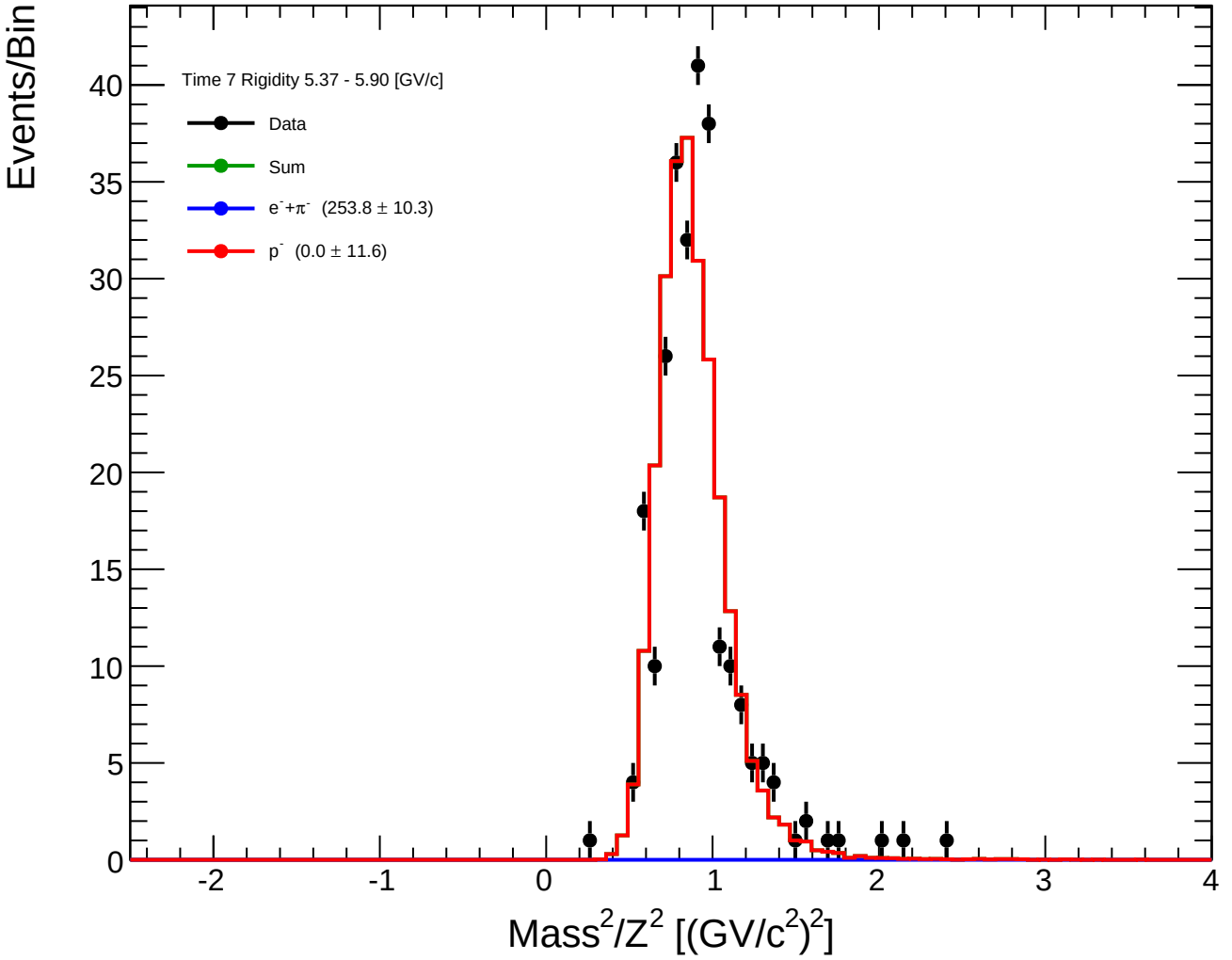

Time 6 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (435.0 ± 14.4)
p⁻ (153.9 ± 10.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

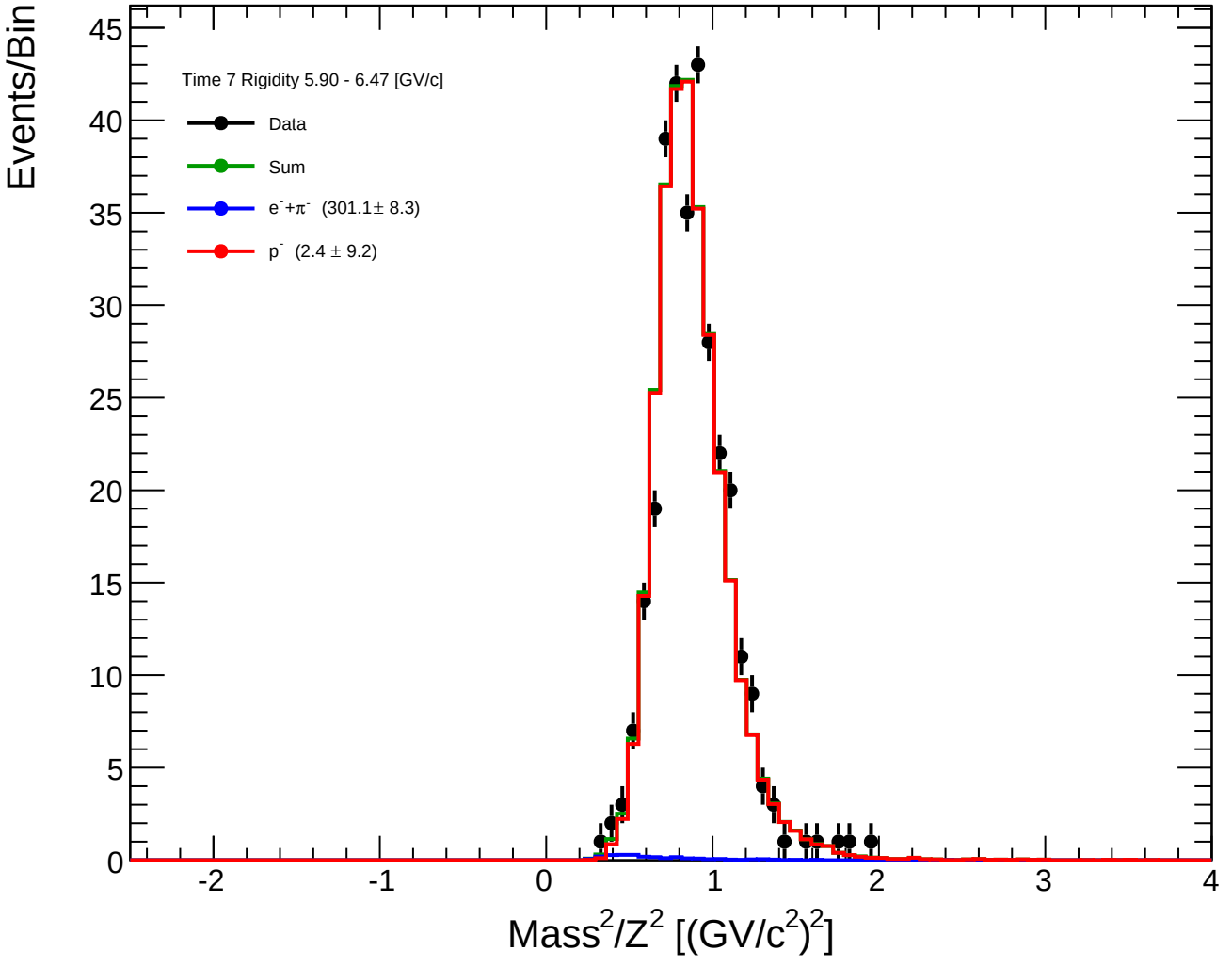

Time 6 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (420.1± 14.2)
p⁻ (97.1± 11.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

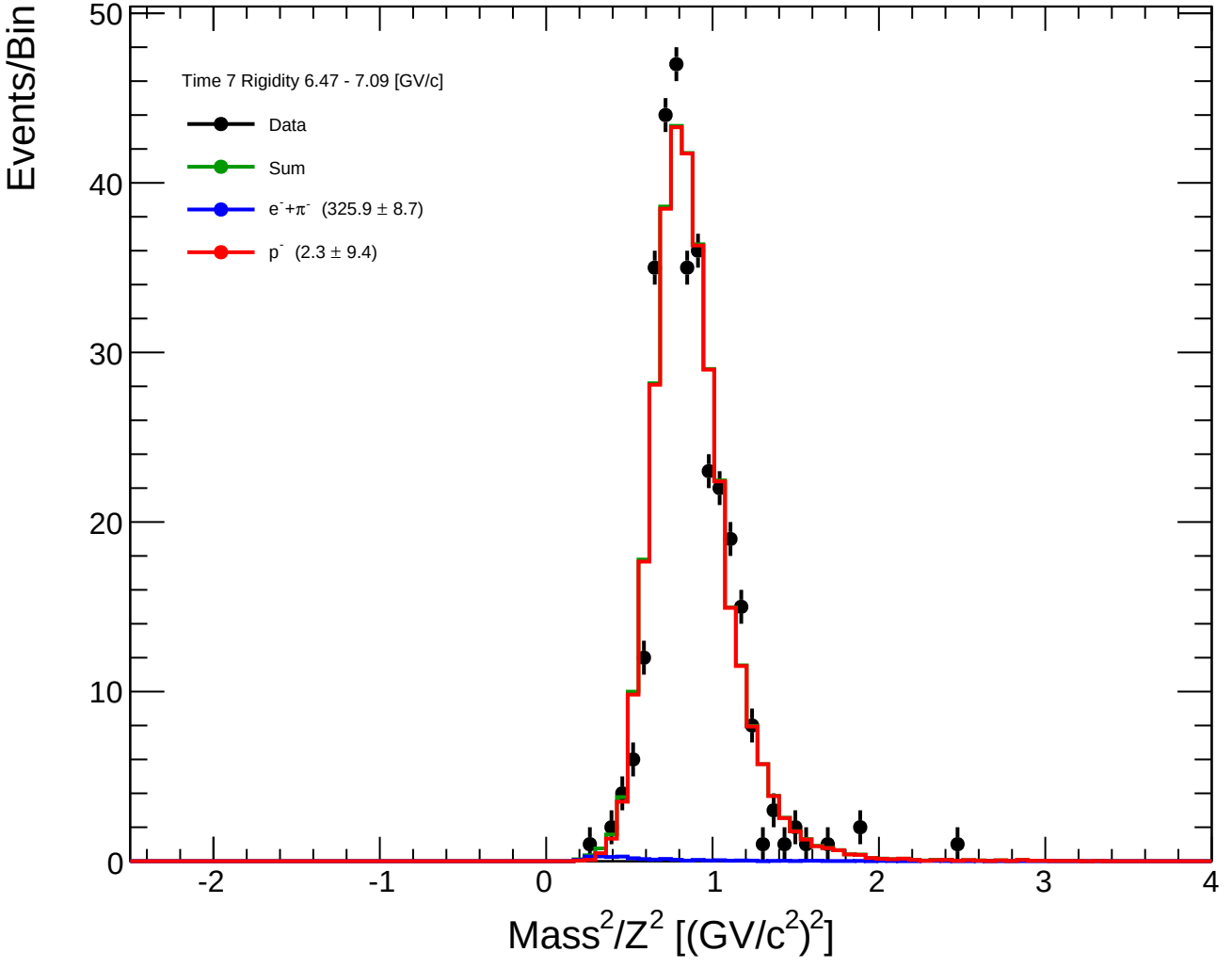

Events/Bin
Time 7 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (38.6 ± 6.0)
p⁻ (9.4 ± 7.7)
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
-2
-1
0
1
2
3
4

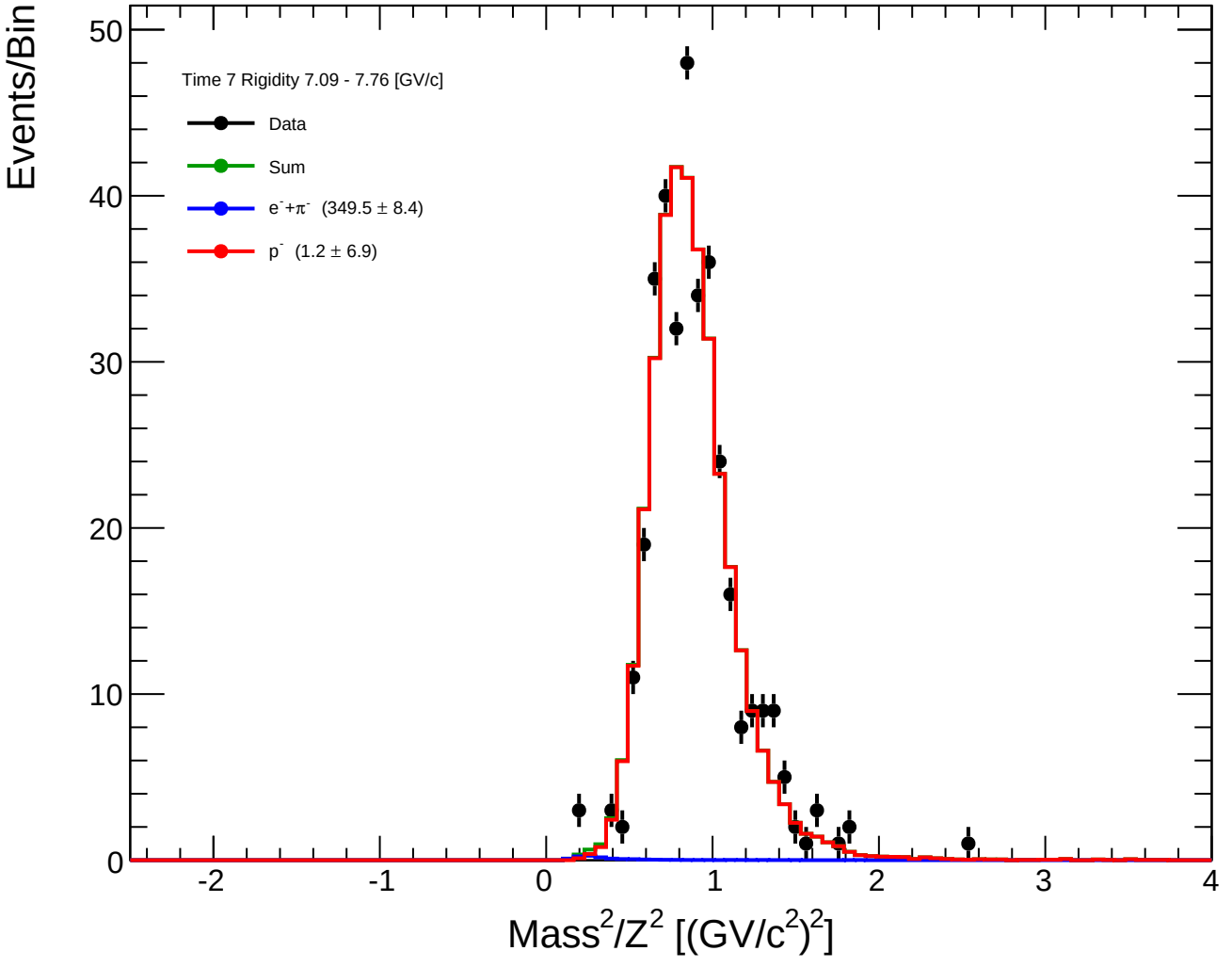

Time 7 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (230.2 ± 8.6)
p⁻ (0.0 ± 11.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

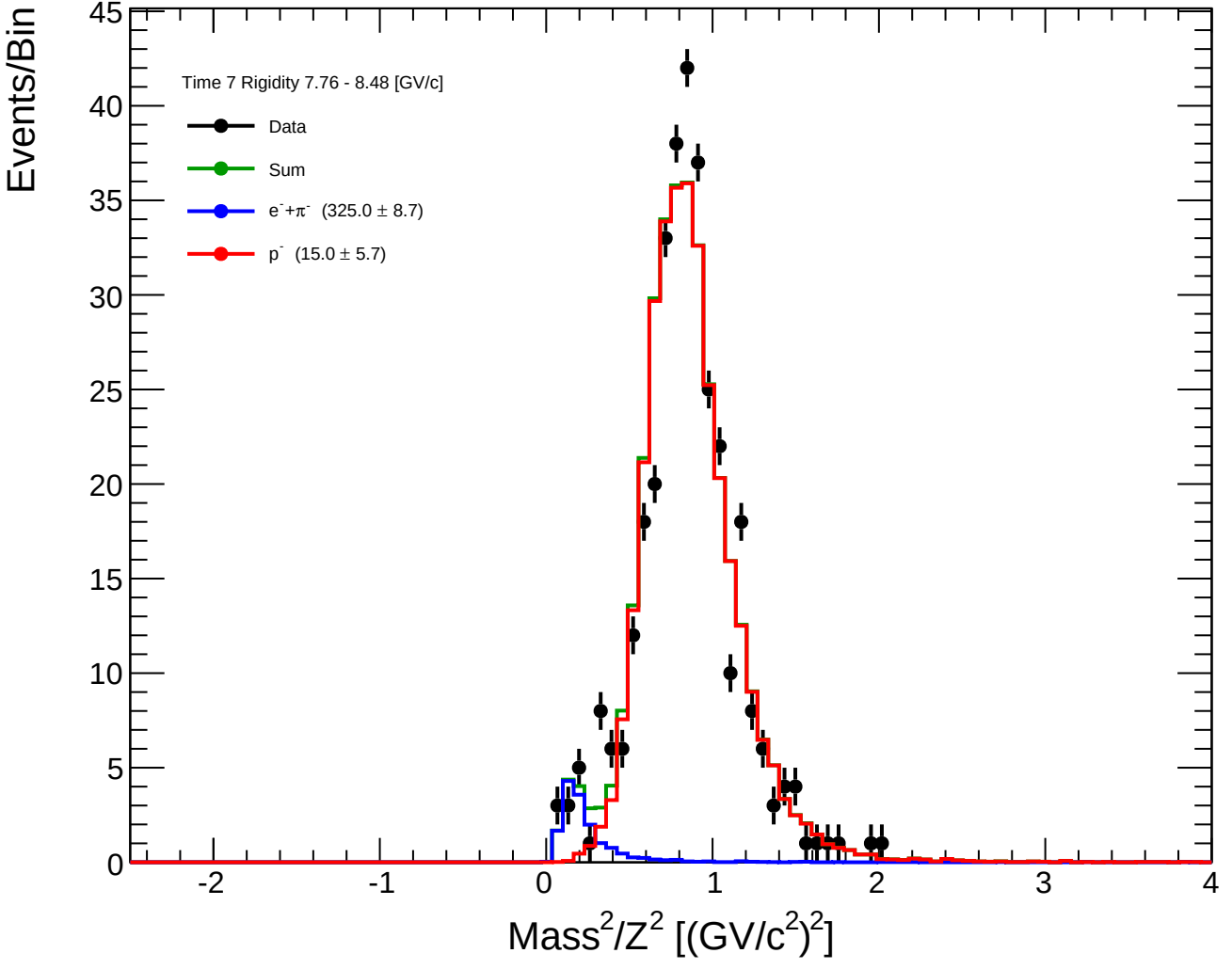

Time 7 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (413.5 ± 10.1)
p⁻ (20.5 ± 13.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

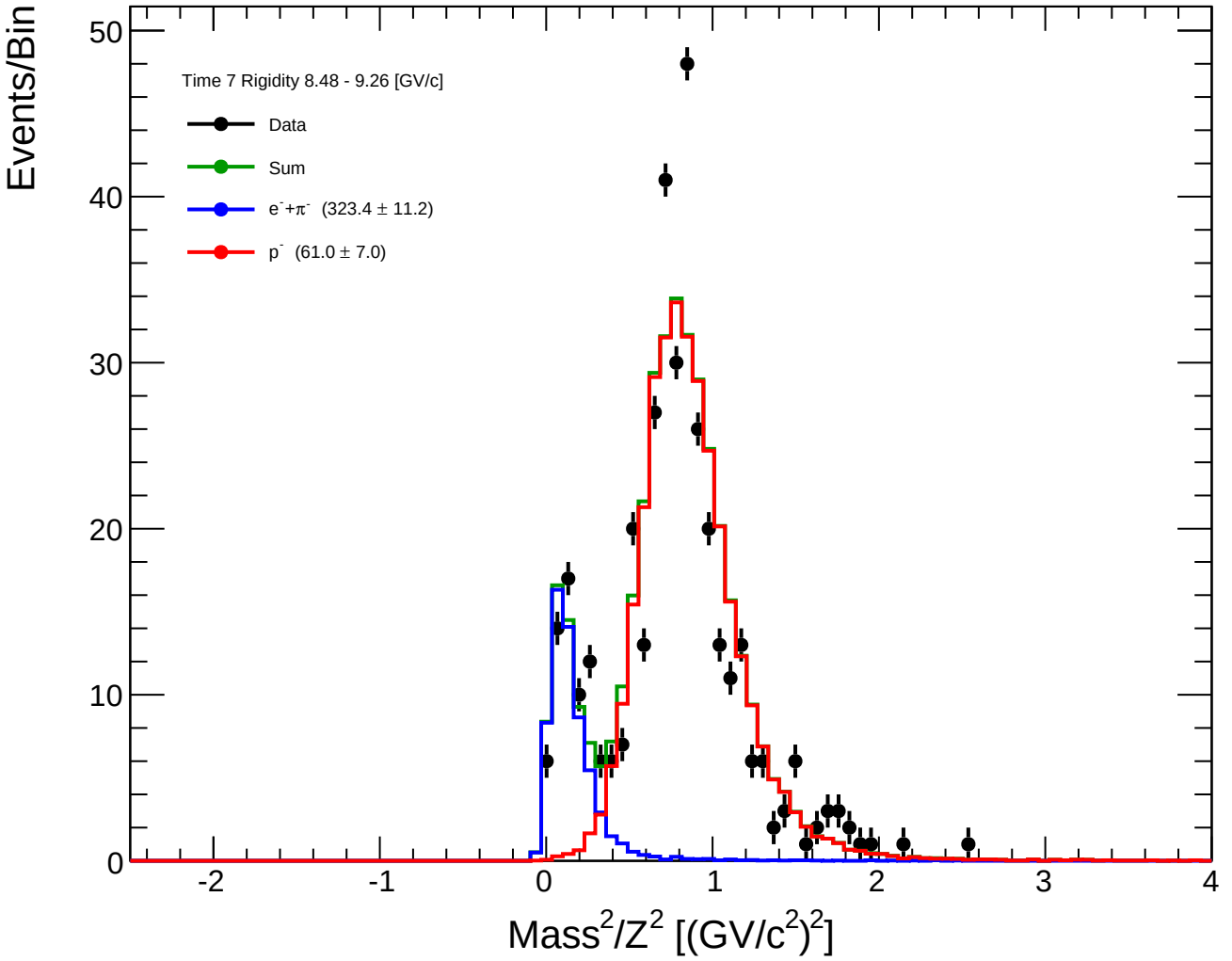

Time 7 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (253.8 ± 10.3)
p⁻ (0.0 ± 11.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

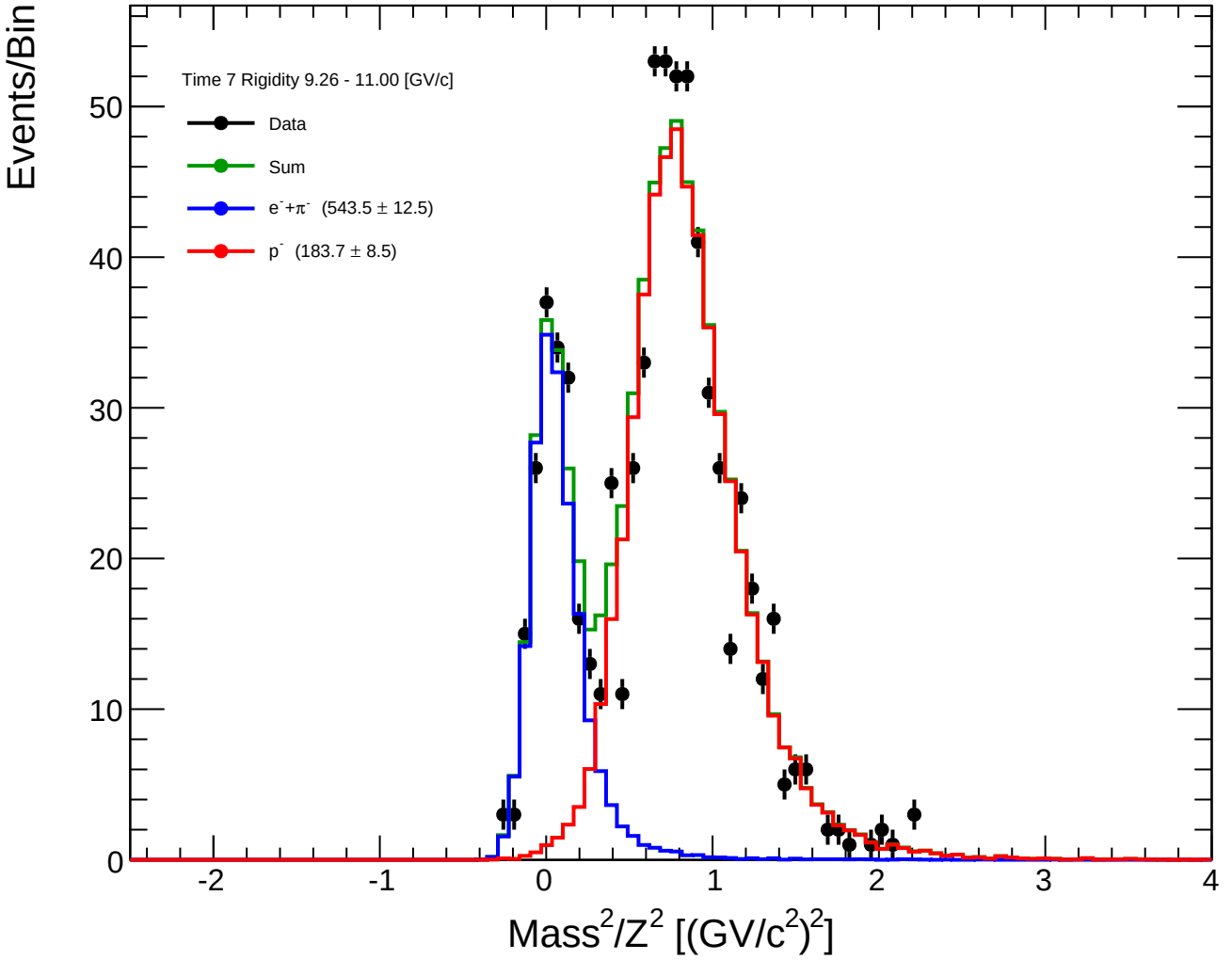

Time 7 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (301.1± 8.3)
p⁻ (2.4 ± 9.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

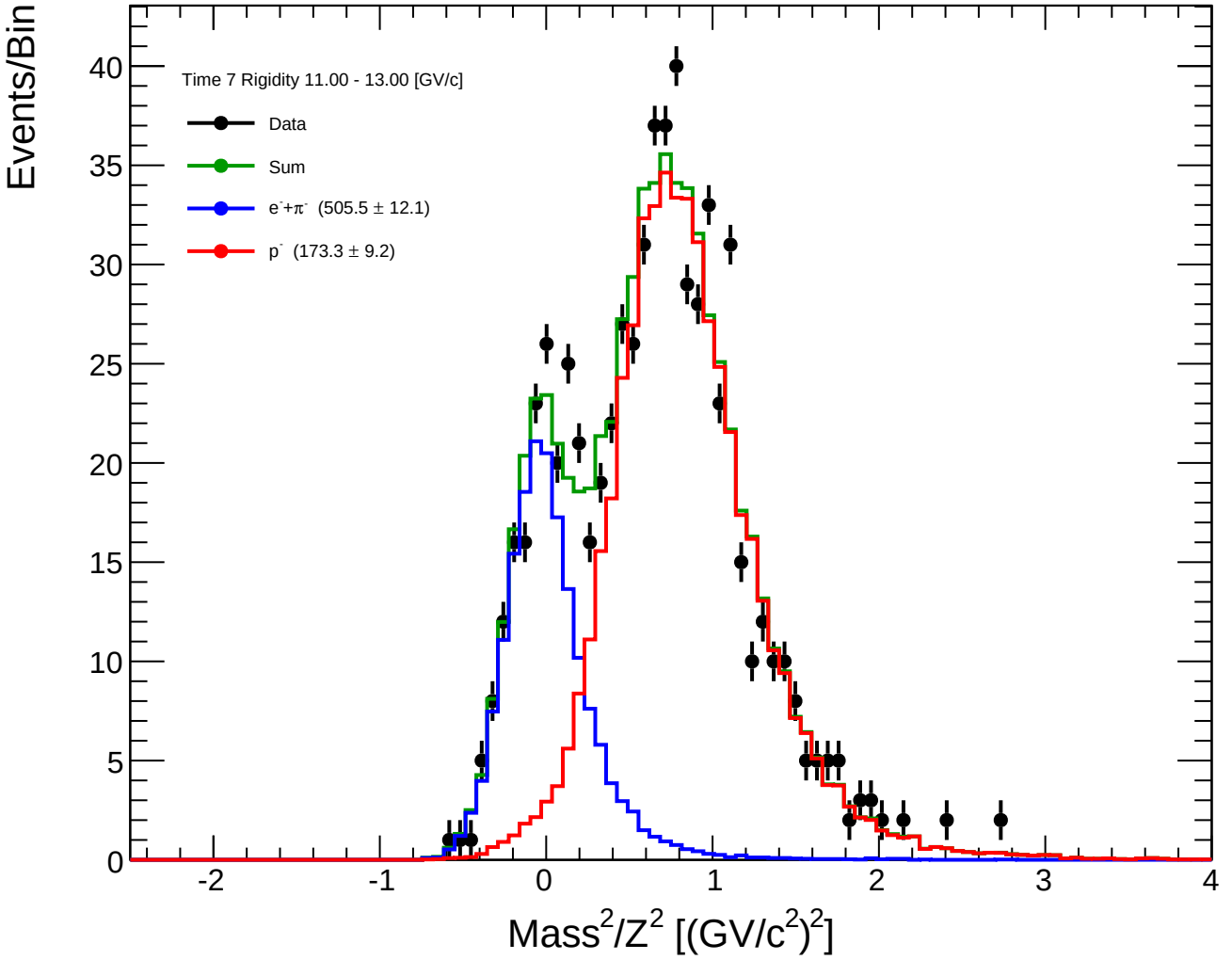

Time 7 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (325.9 ± 8.7)
p⁻ (2.3 ± 9.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

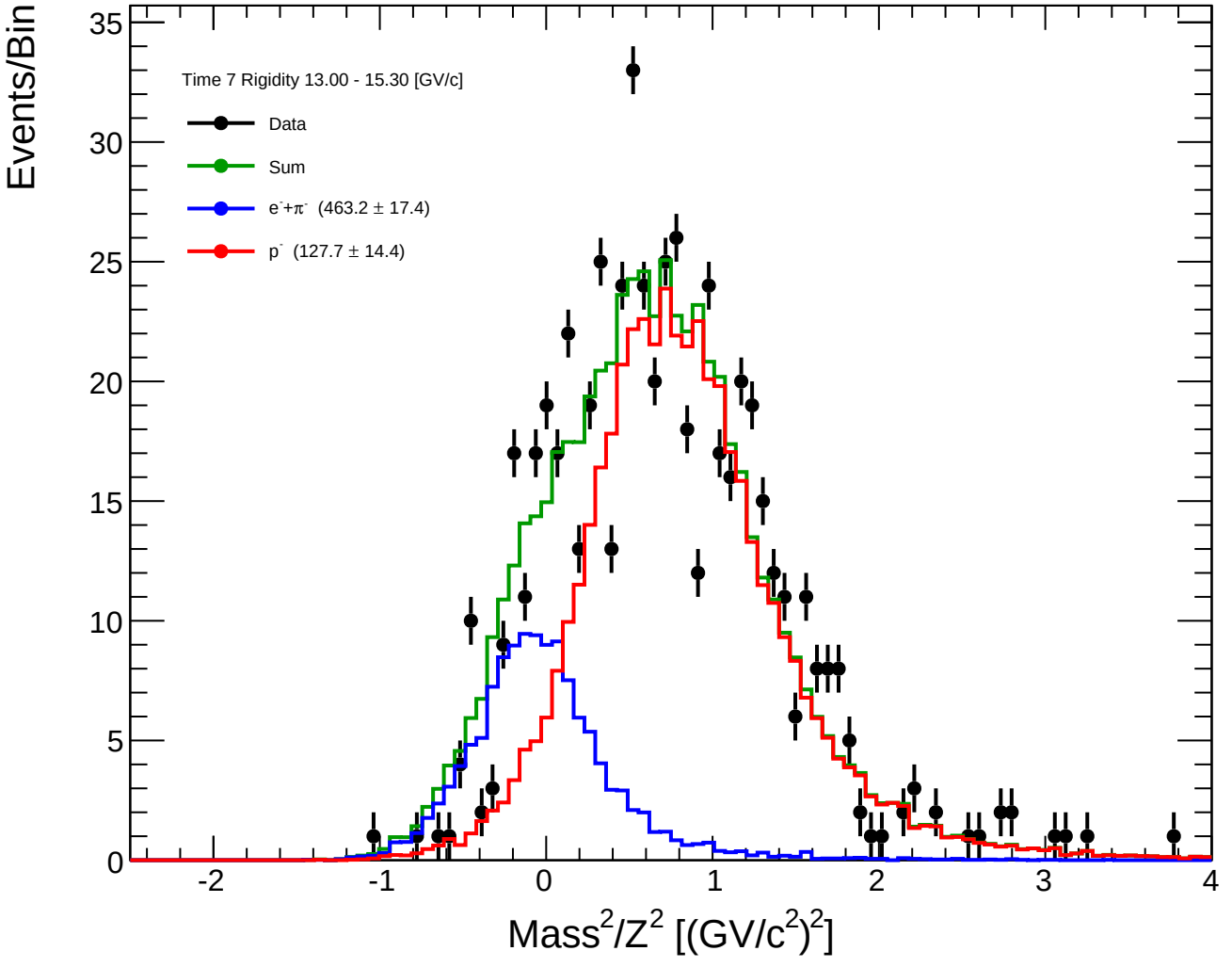

Time 7 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (349.5 ± 8.4)
p⁻ (1.2 ± 6.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

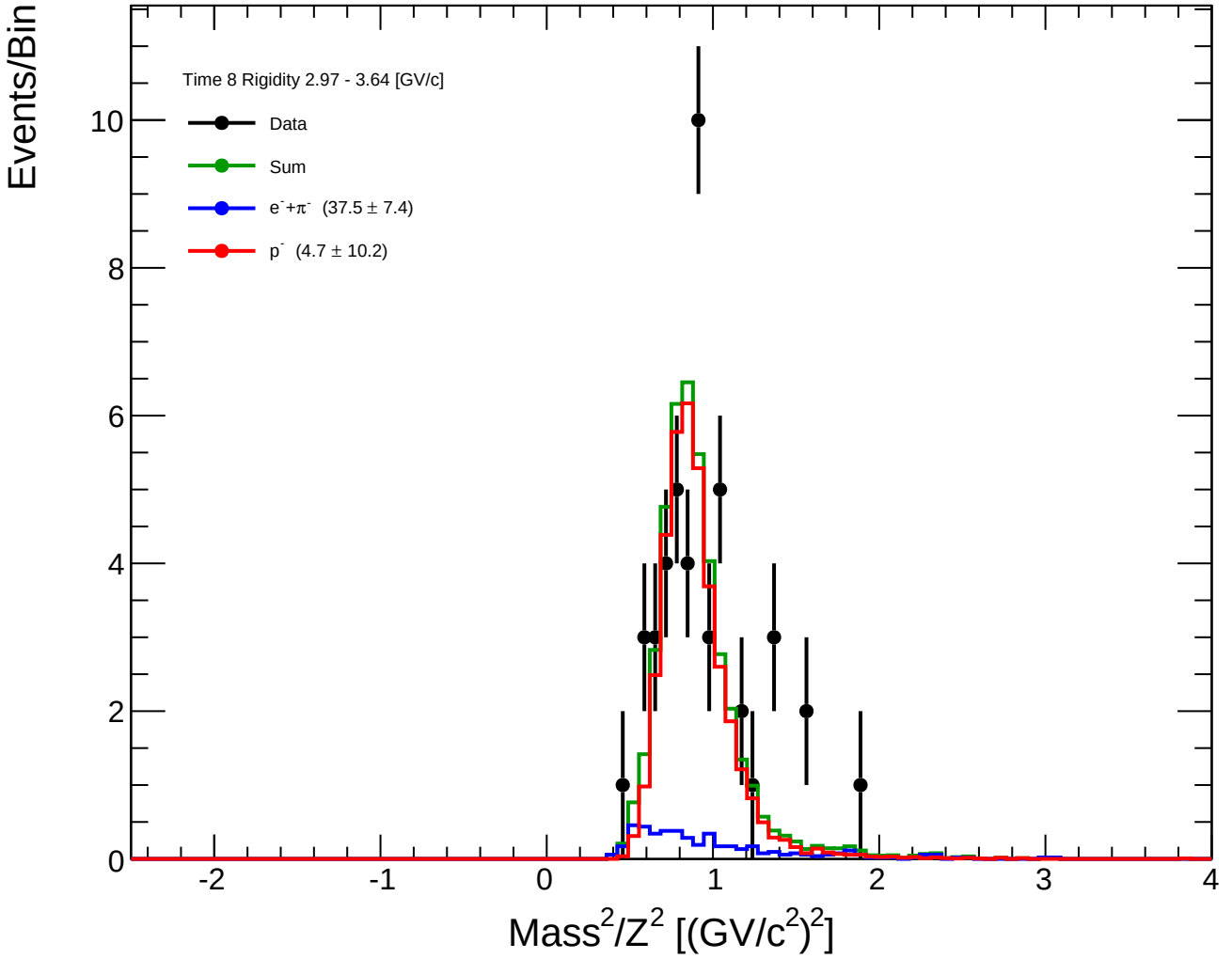

Time 7 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (325.0 ± 8.7)
p⁻ (15.0 ± 5.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

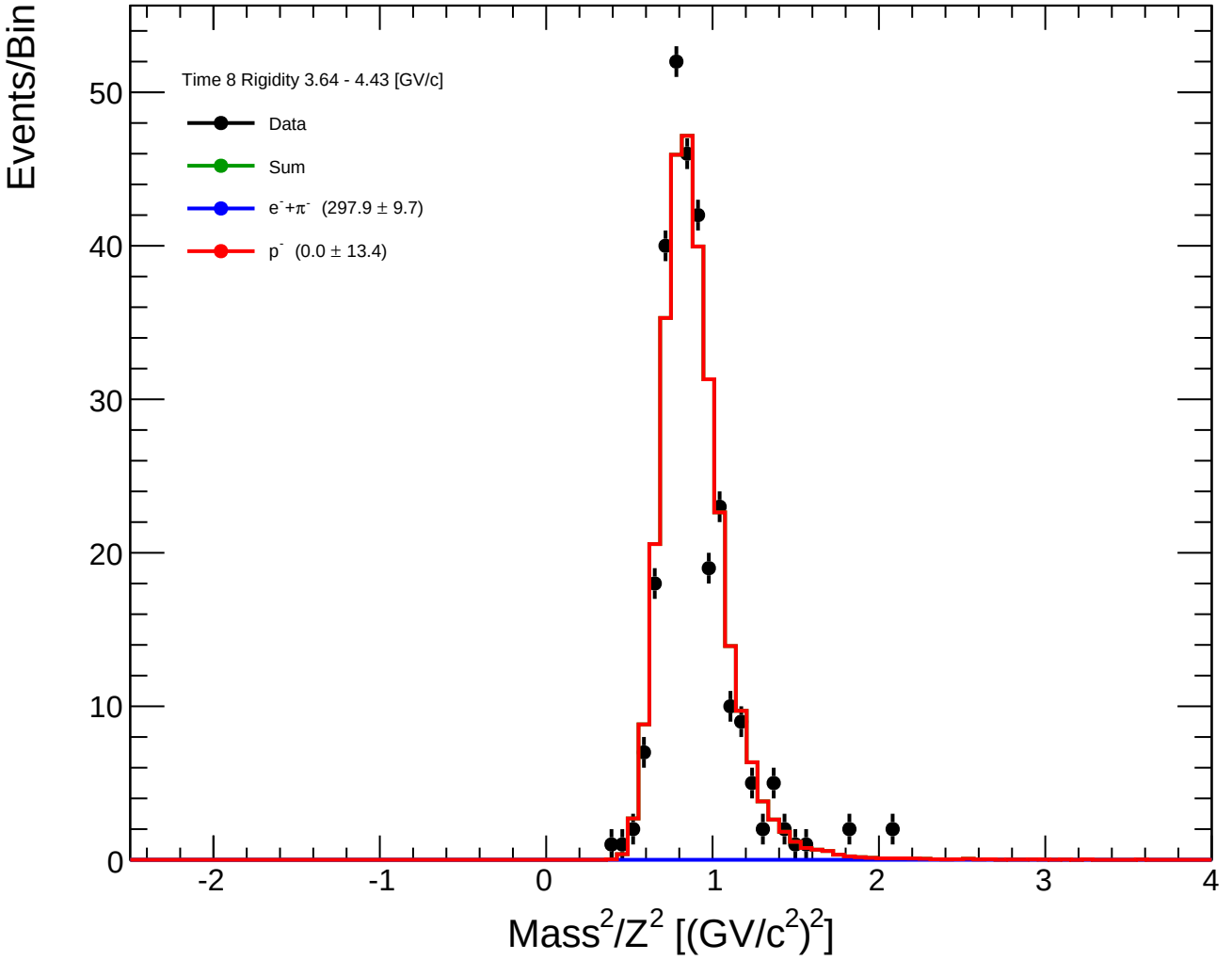

Time 7 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (323.4 ± 11.2)
p⁻ (61.0 ± 7.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

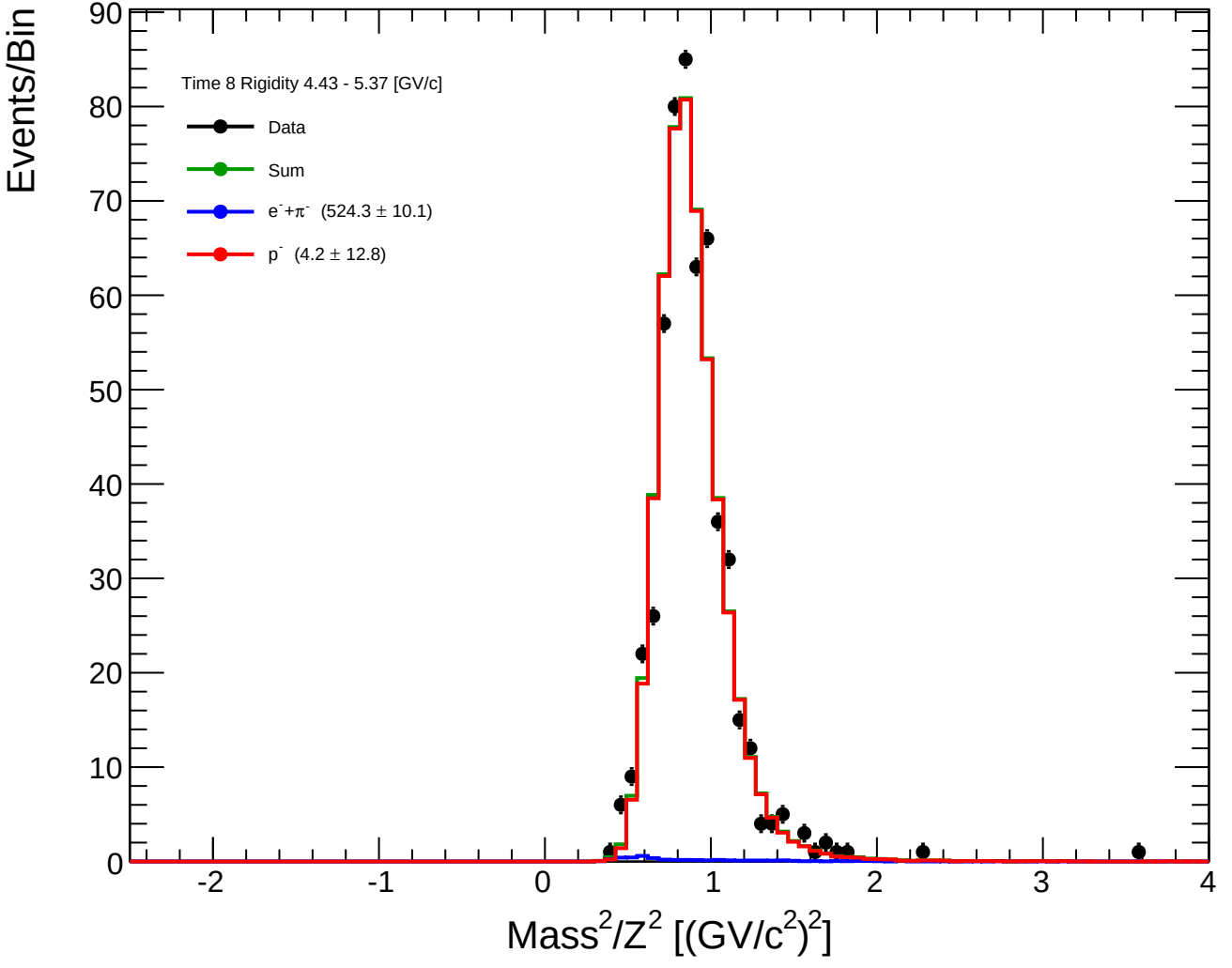

Time 7 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (543.5 ± 12.5)
p⁻ (183.7 ± 8.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

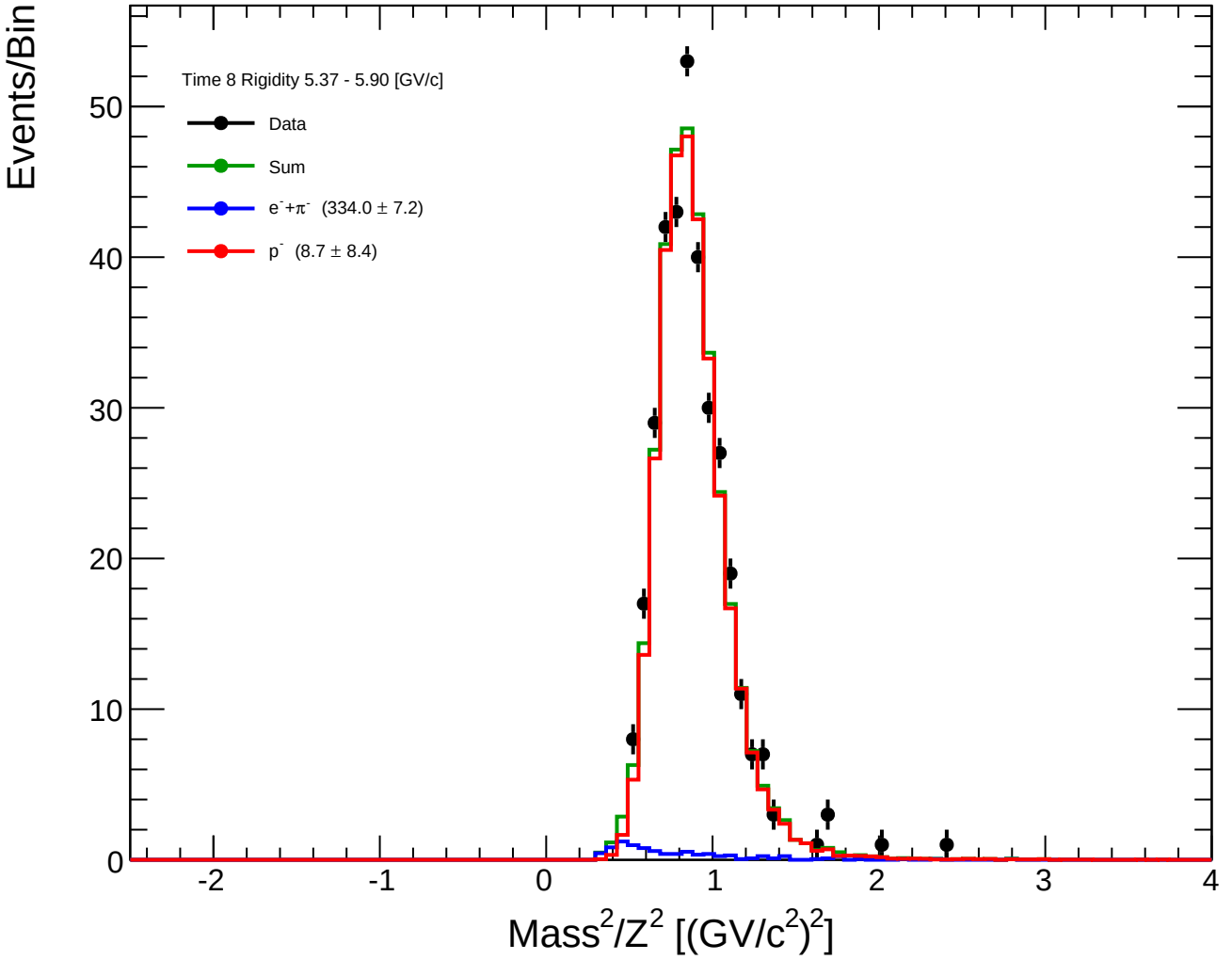

Time 7 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (505.5 ± 12.1)
p⁻ (173.3 ± 9.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

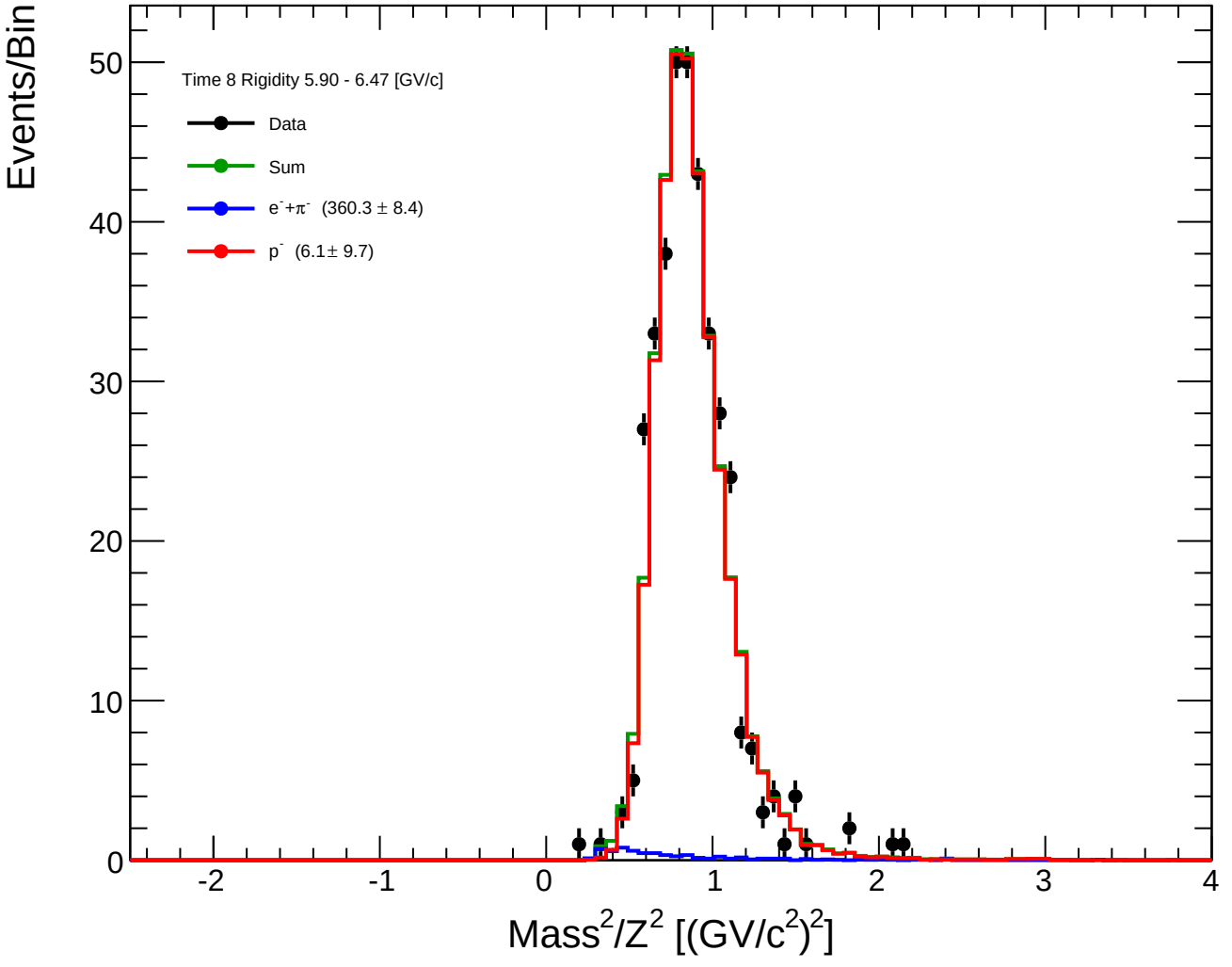

Time 7 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (463.2 ± 17.4)
p⁻ (127.7 ± 14.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

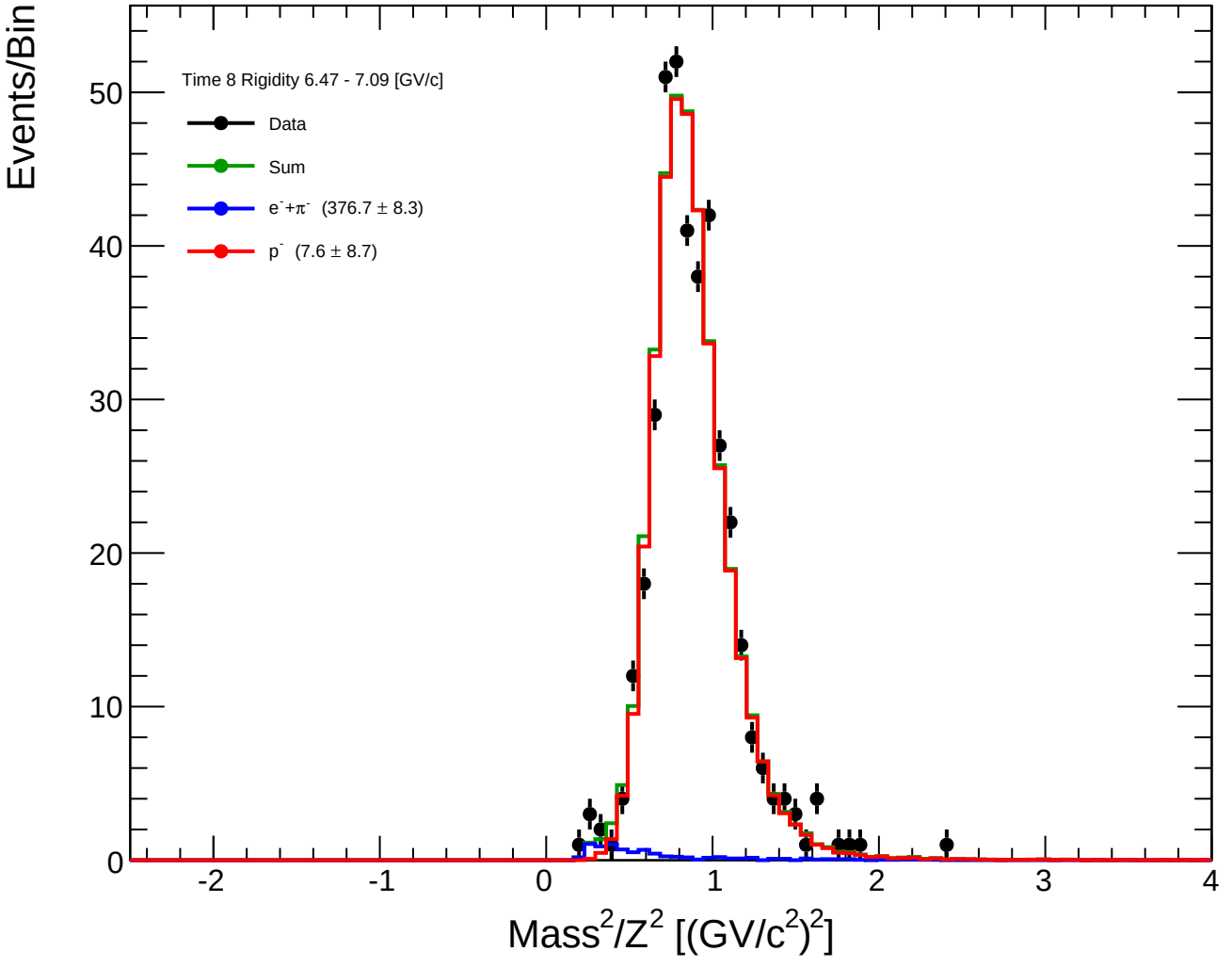

Time 8 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (37.5 ± 7.4)
p⁻ (4.7 ± 10.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
-2
-1
0
1
2
3
4

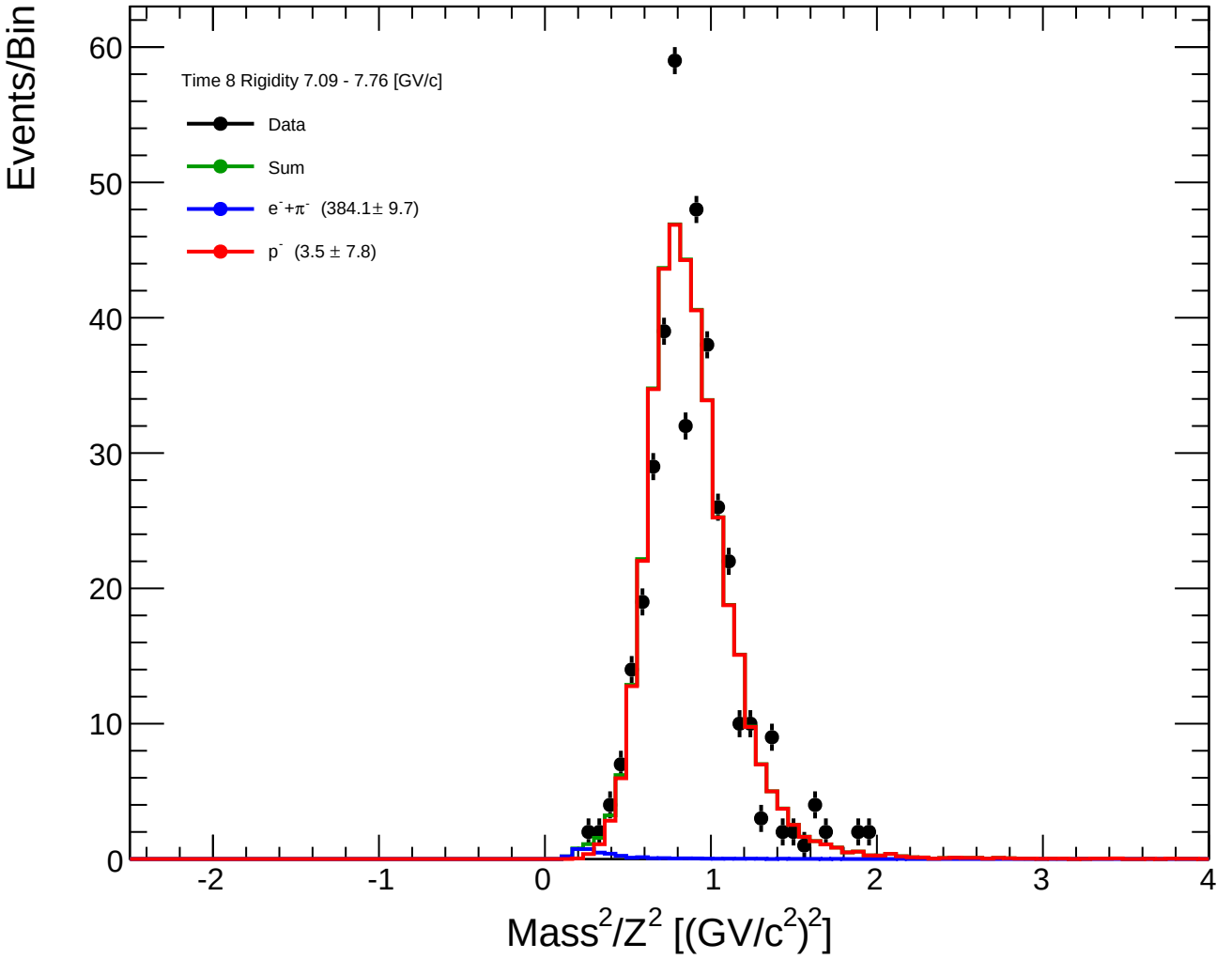

Time 8 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (297.9 ± 9.7)
p⁻ (0.0 ± 13.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

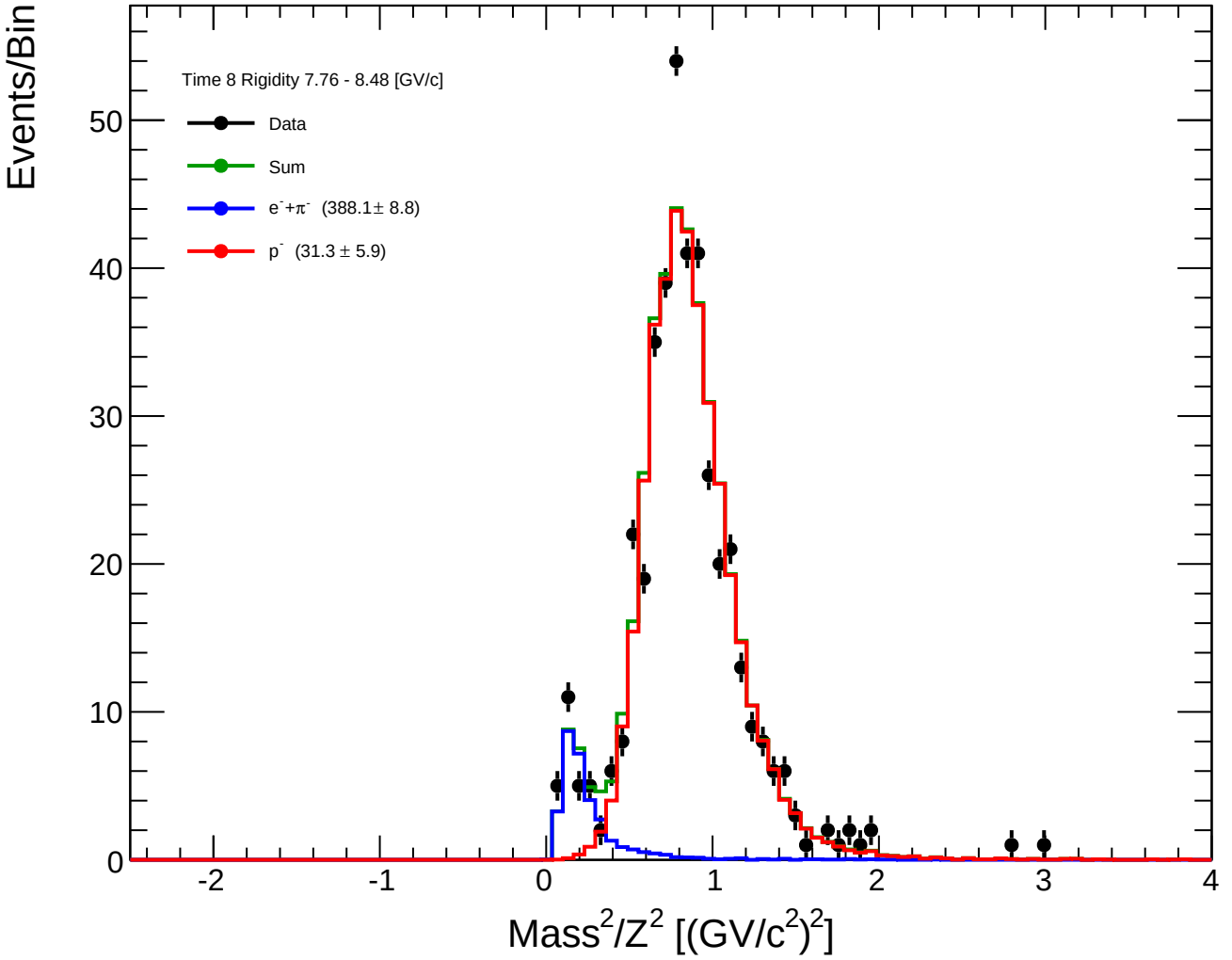

Time 8 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (524.3 ± 10.1)
p⁻ (4.2 ± 12.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
90
-2
-1
0
1
2
3
4

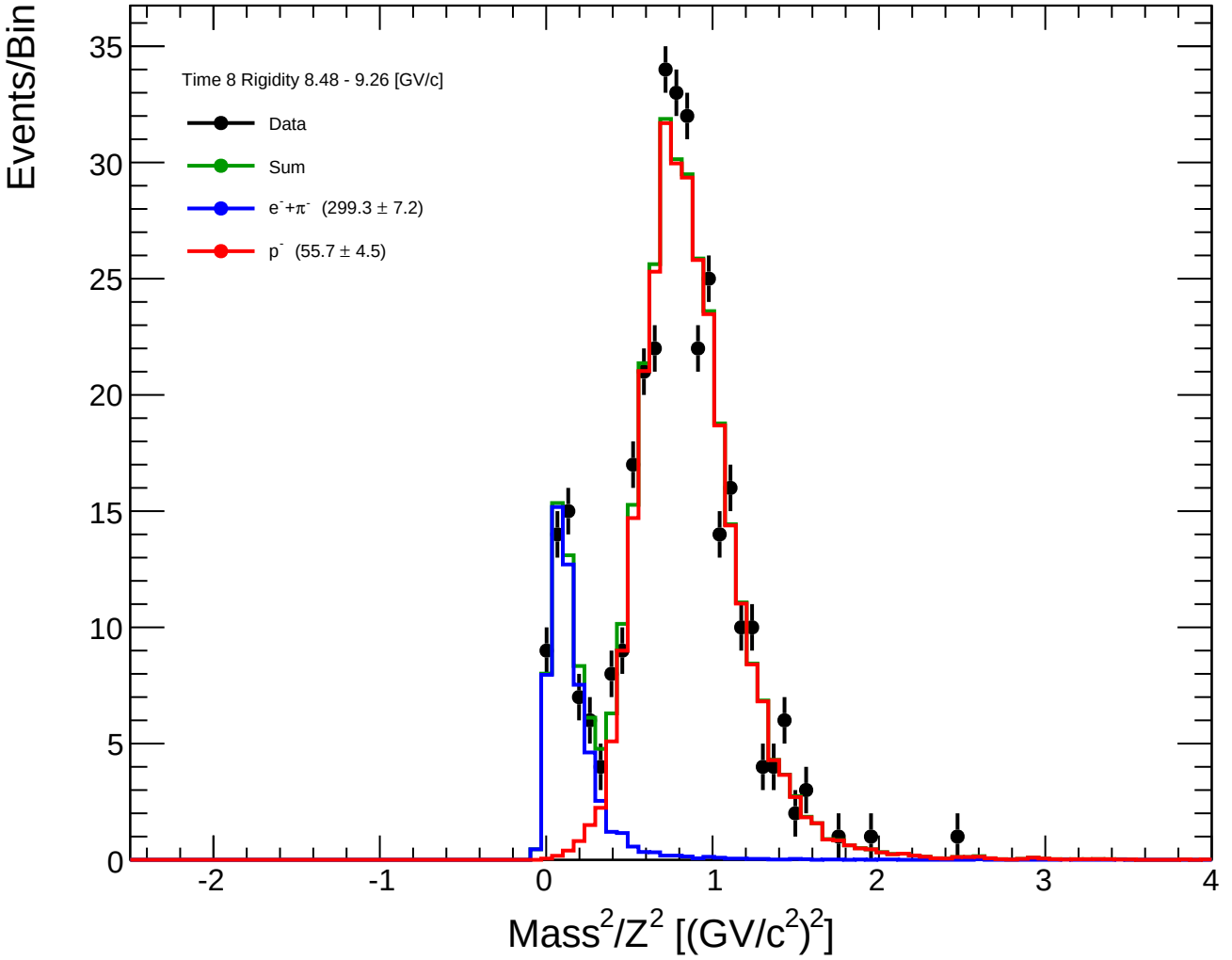

Time 8 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (334.0 ± 7.2)
p⁻ (8.7 ± 8.4)
Events/Bin
0
10
20
30
40
50
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

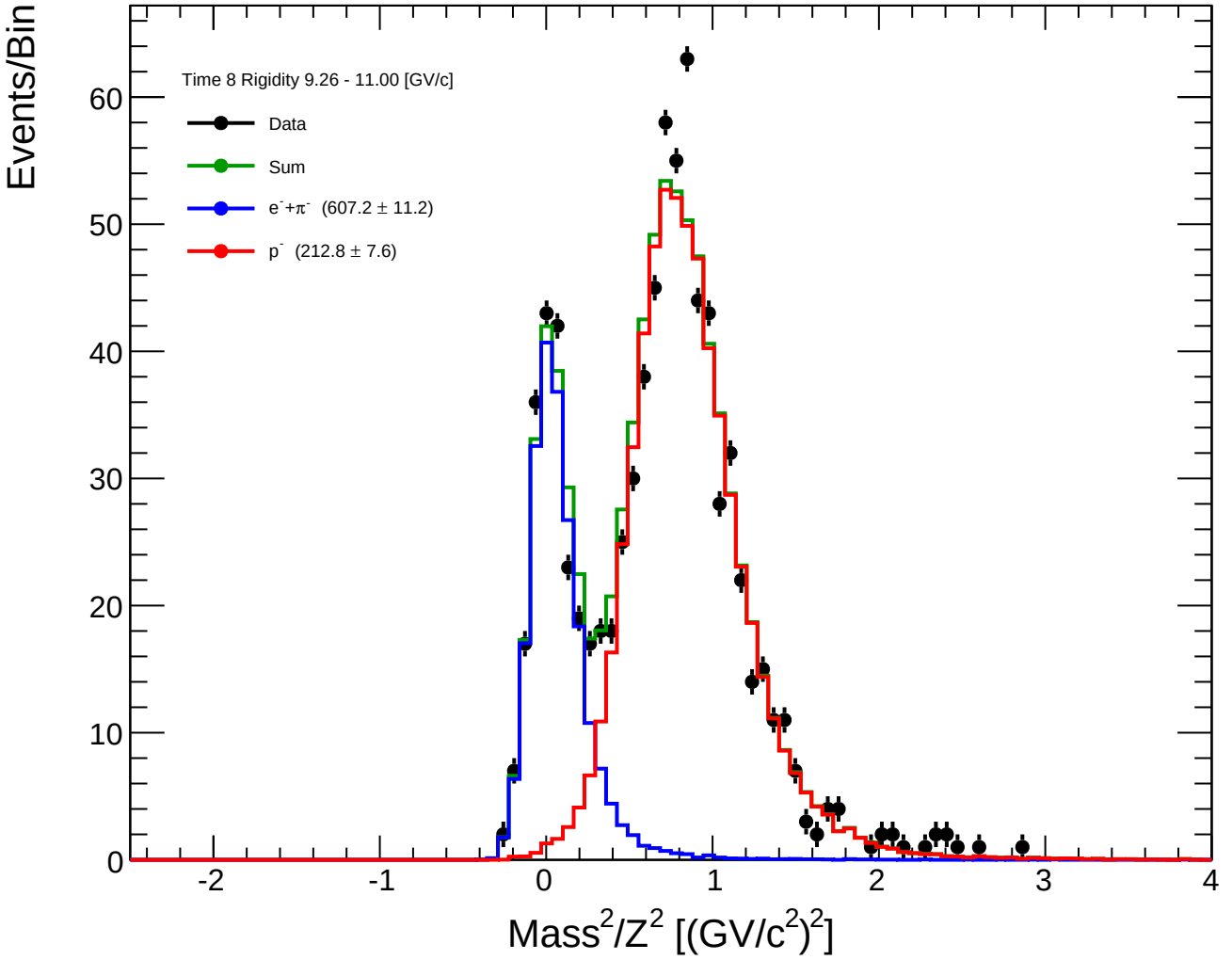

Time 8 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (360.3 ± 8.4)
p⁻ (6.1± 9.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

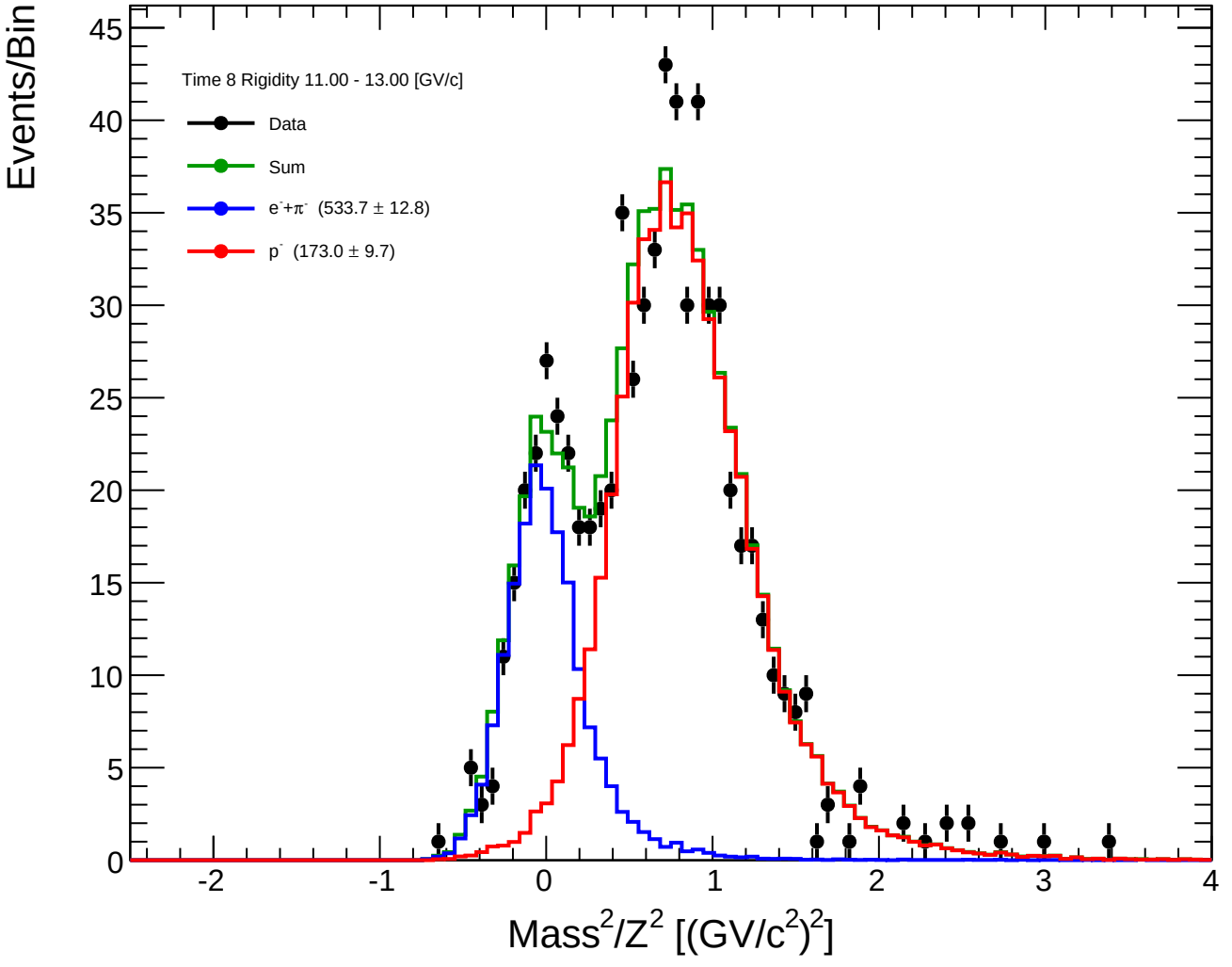

Time 8 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (376.7 ± 8.3)
p⁻ (7.6 ± 8.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

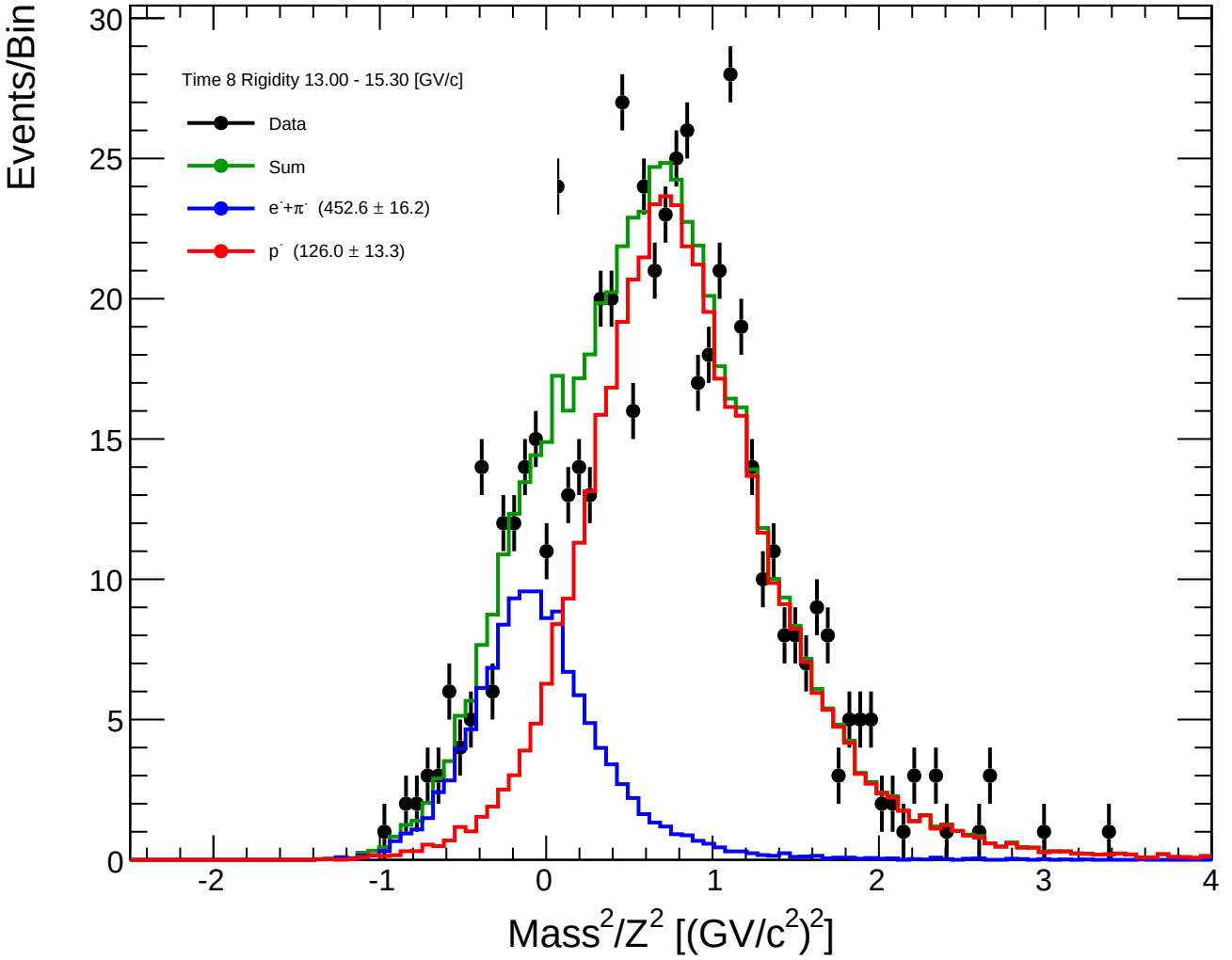

Time 8 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (384.1± 9.7)
p⁻ (3.5 ± 7.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

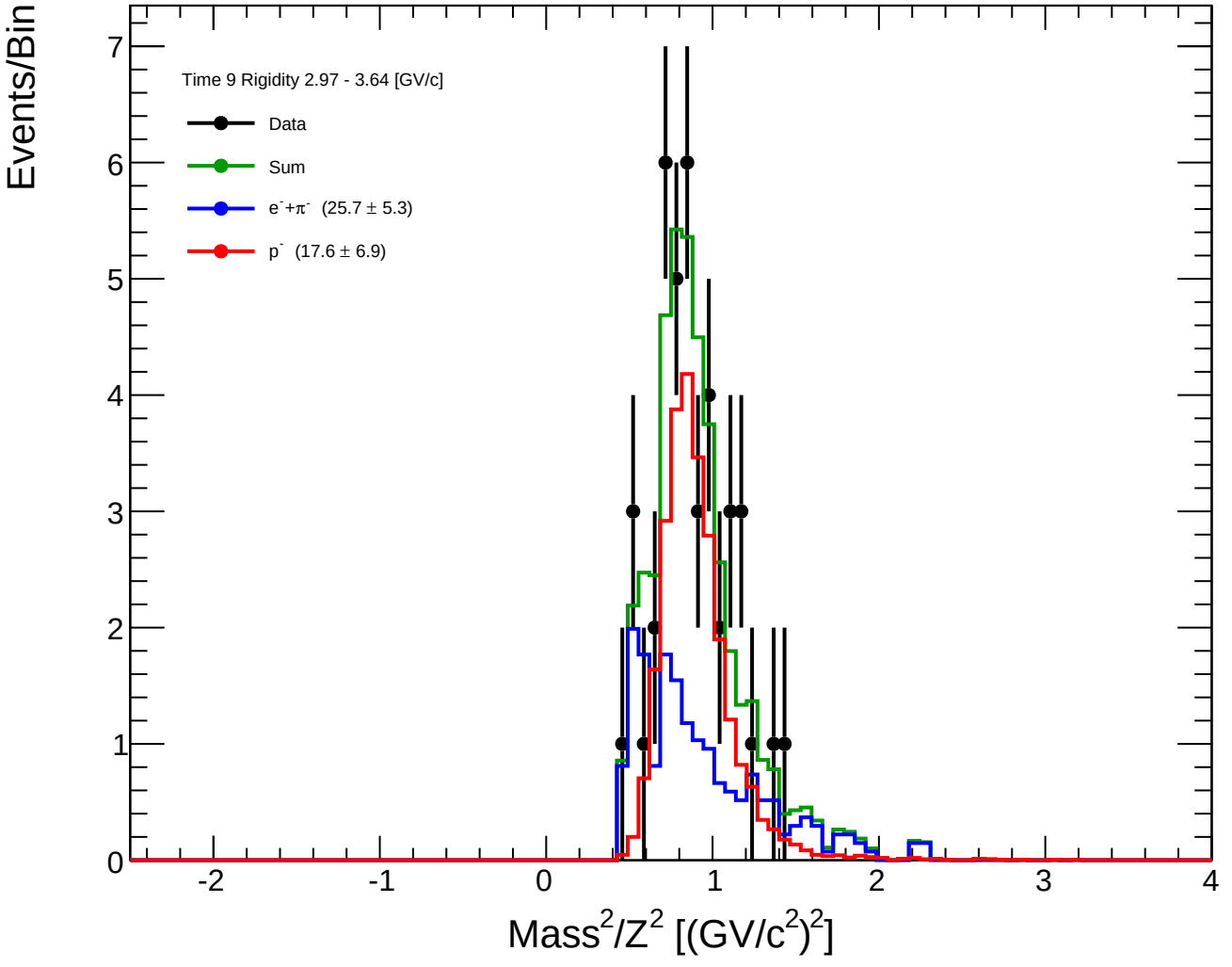

Time 8 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (388.1± 8.8)
p⁻ (31.3 ± 5.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

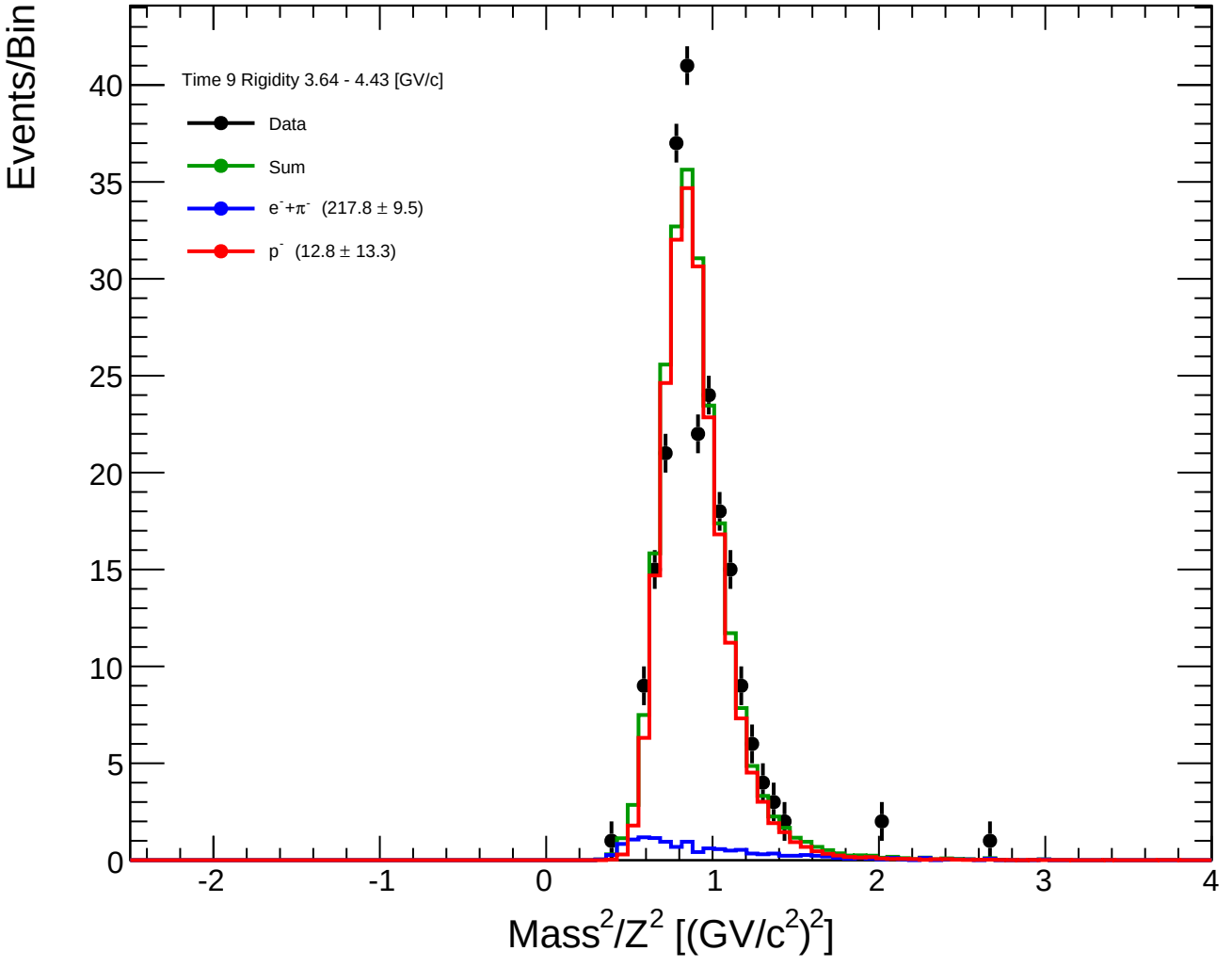

Time 8 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (299.3 ± 7.2)
p⁻ (55.7 ± 4.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

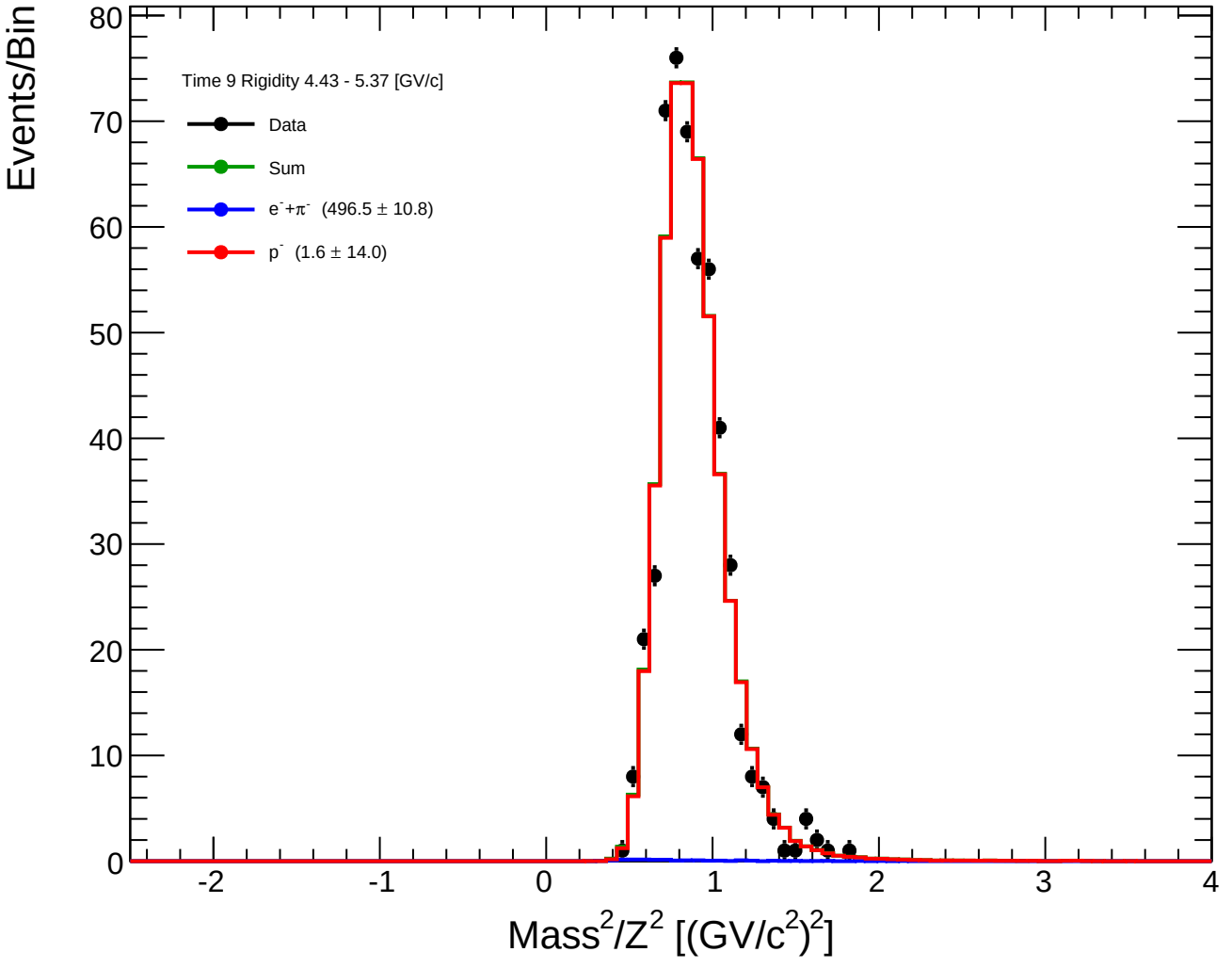

Time 8 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (607.2 ± 11.2)
p⁻ (212.8 ± 7.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

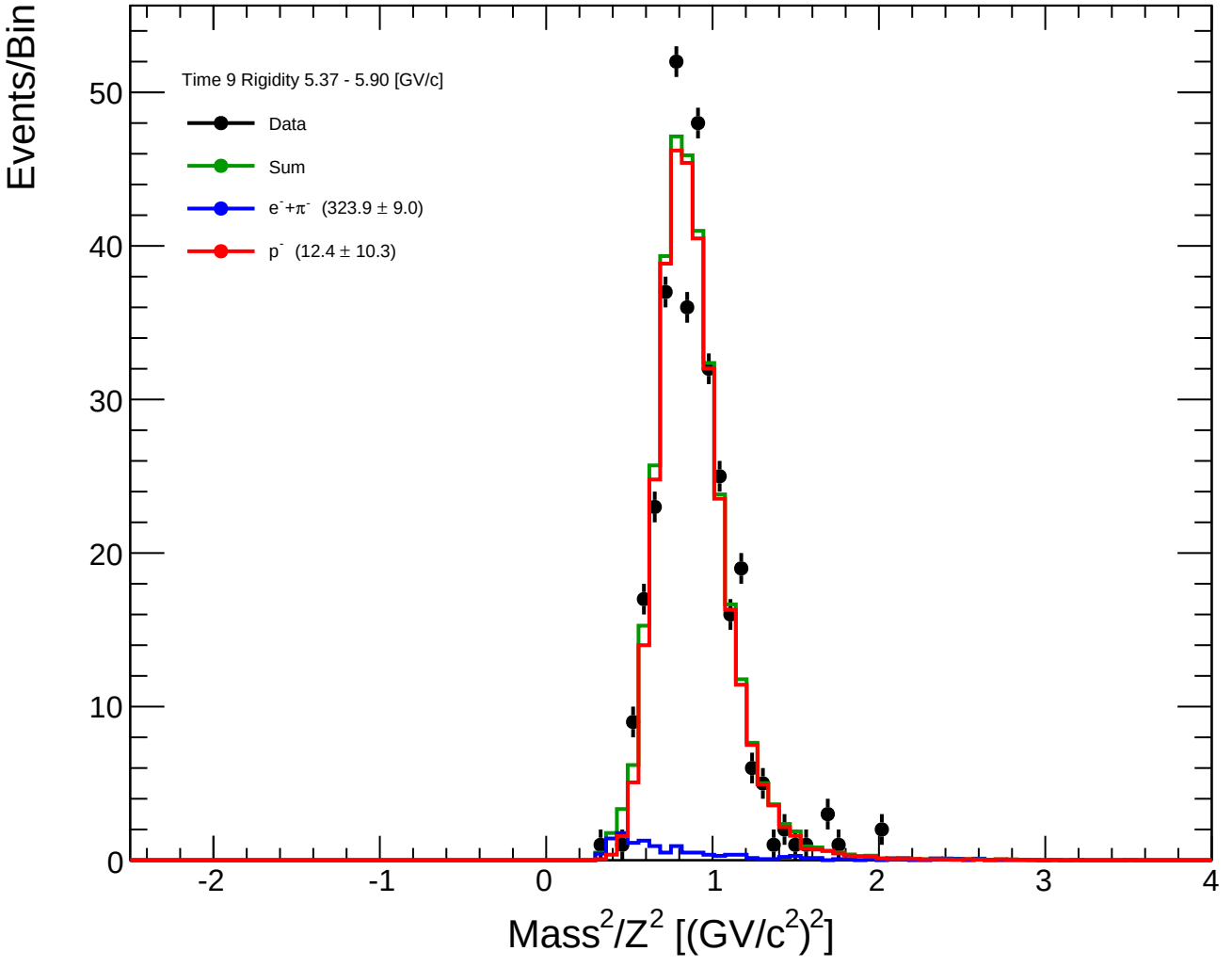

Time 8 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (533.7 ± 12.8)
p⁻ (173.0 ± 9.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

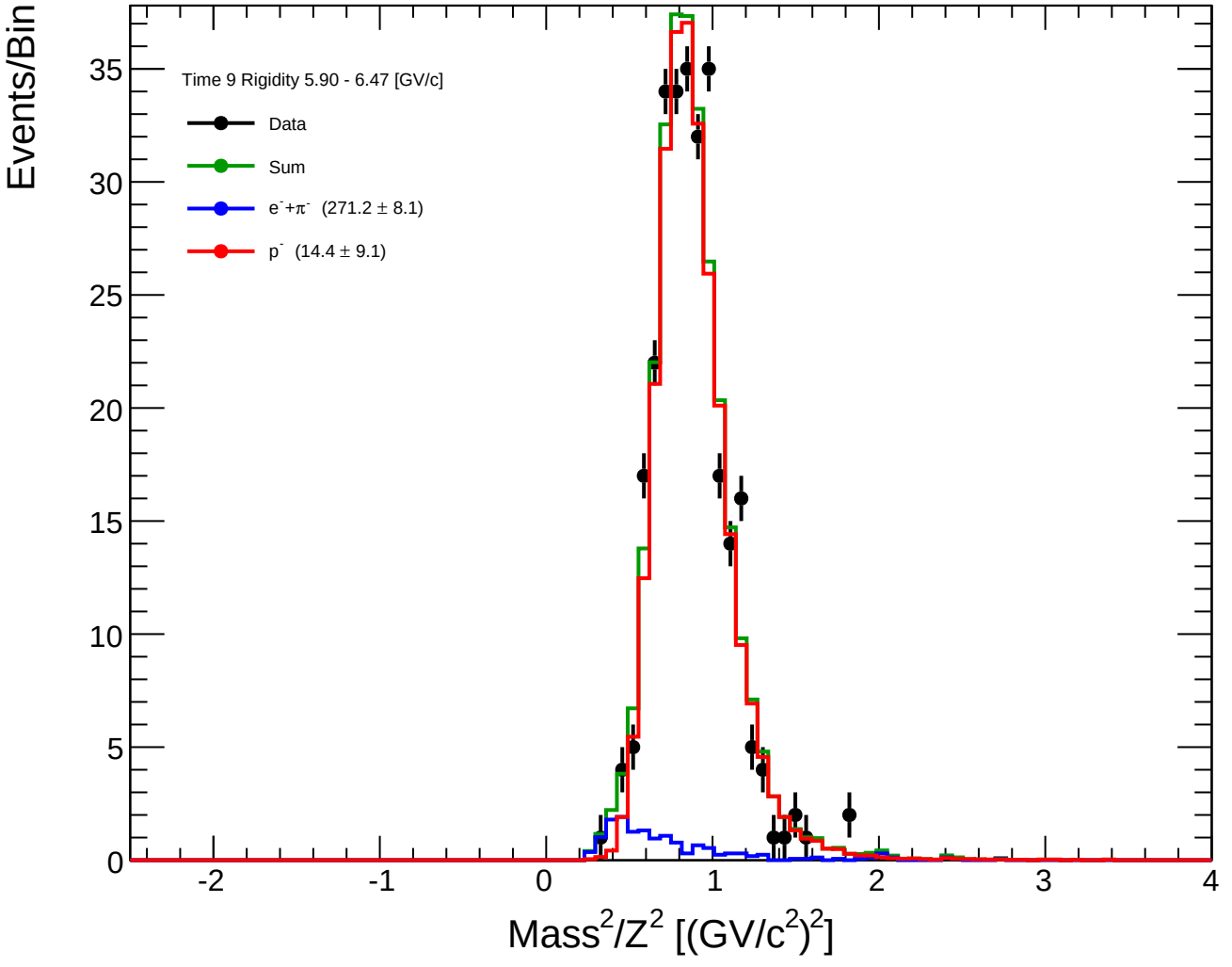

Time 8 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (452.6 ± 16.2)
p⁻ (126.0 ± 13.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

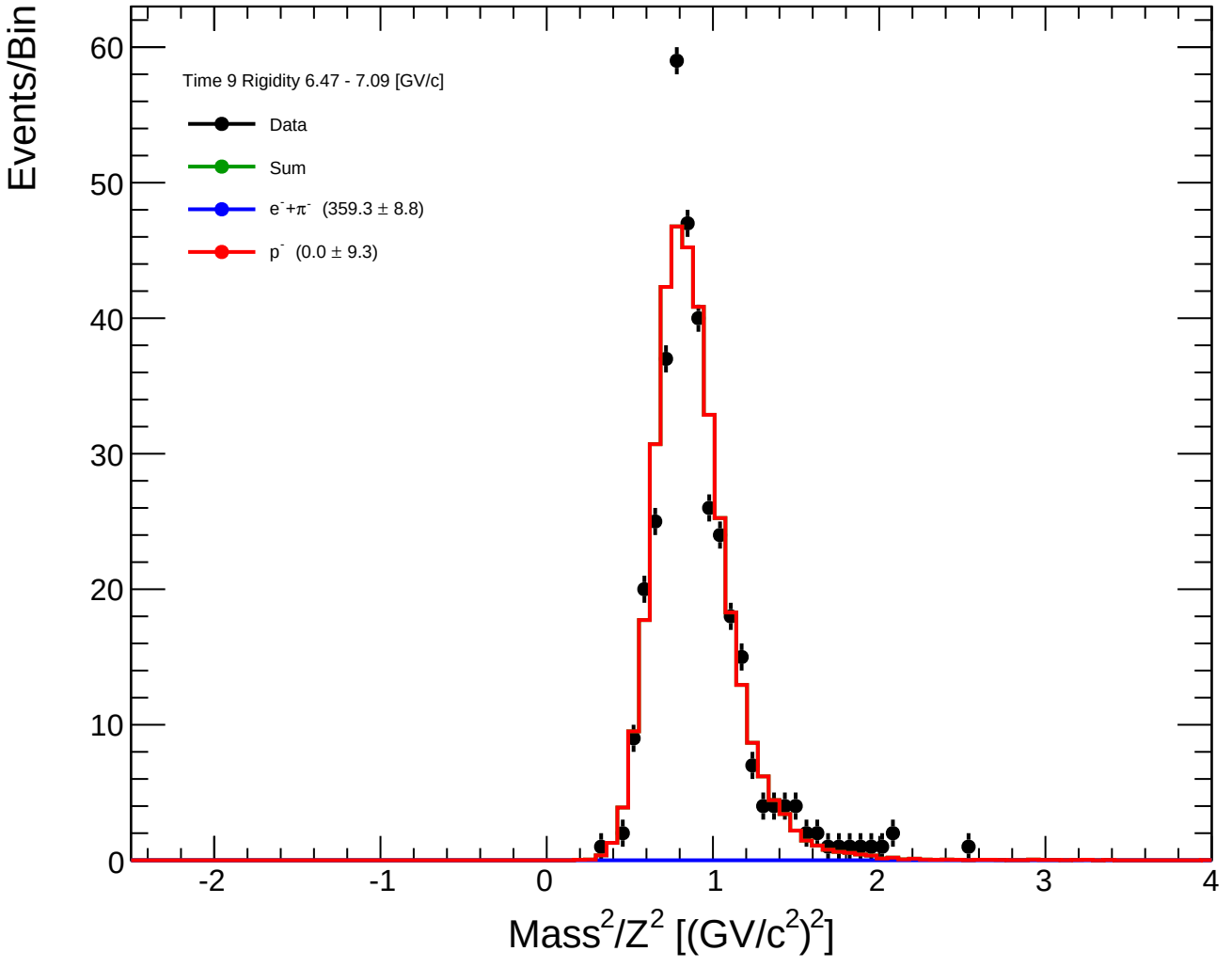

Events/Bin
Time 9 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (25.7 ± 5.3)
p⁻ (17.6 ± 6.9)
0
1
2
3
4
5
6
7
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

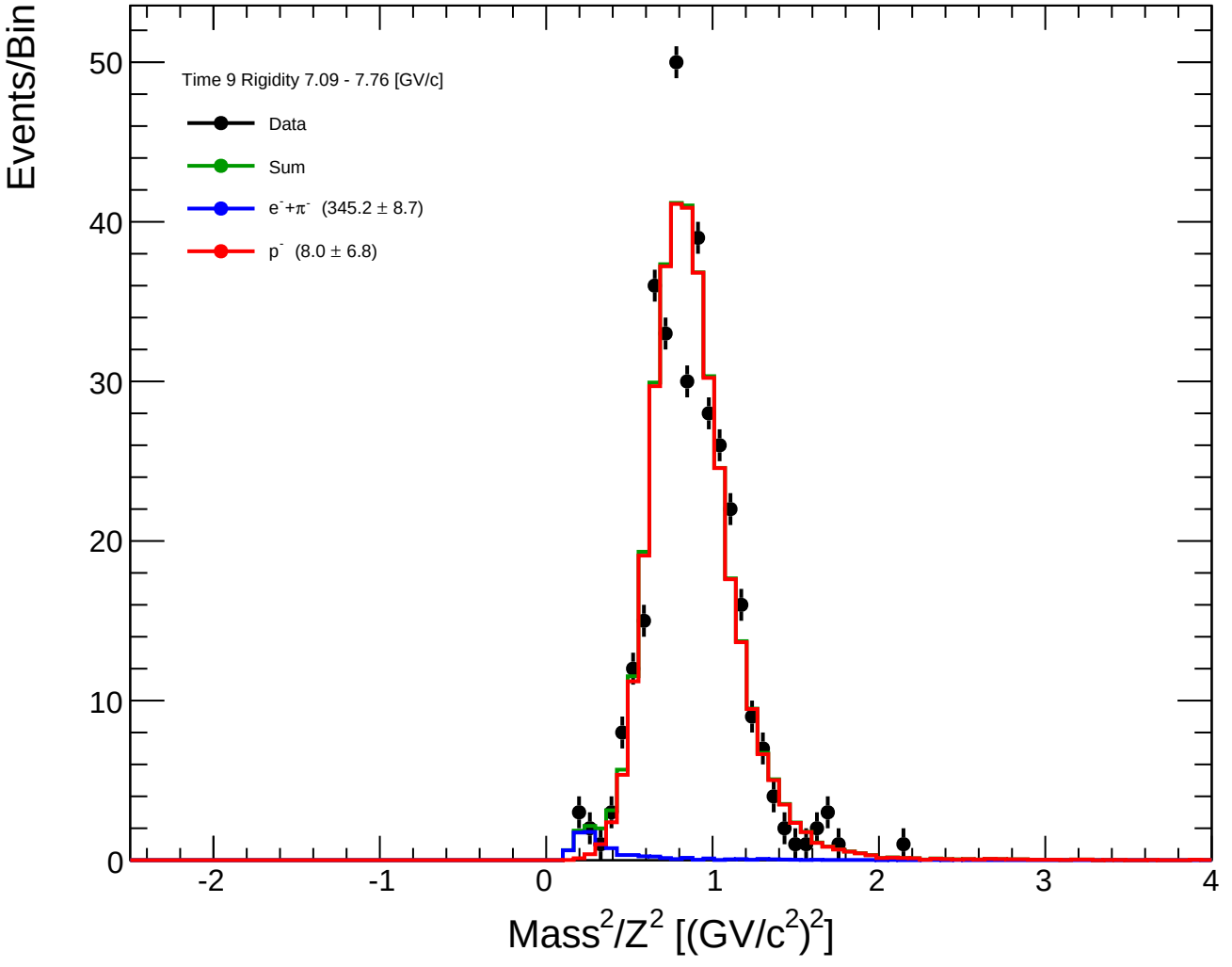

Time 9 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (217.8 ± 9.5)
p⁻ (12.8 ± 13.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

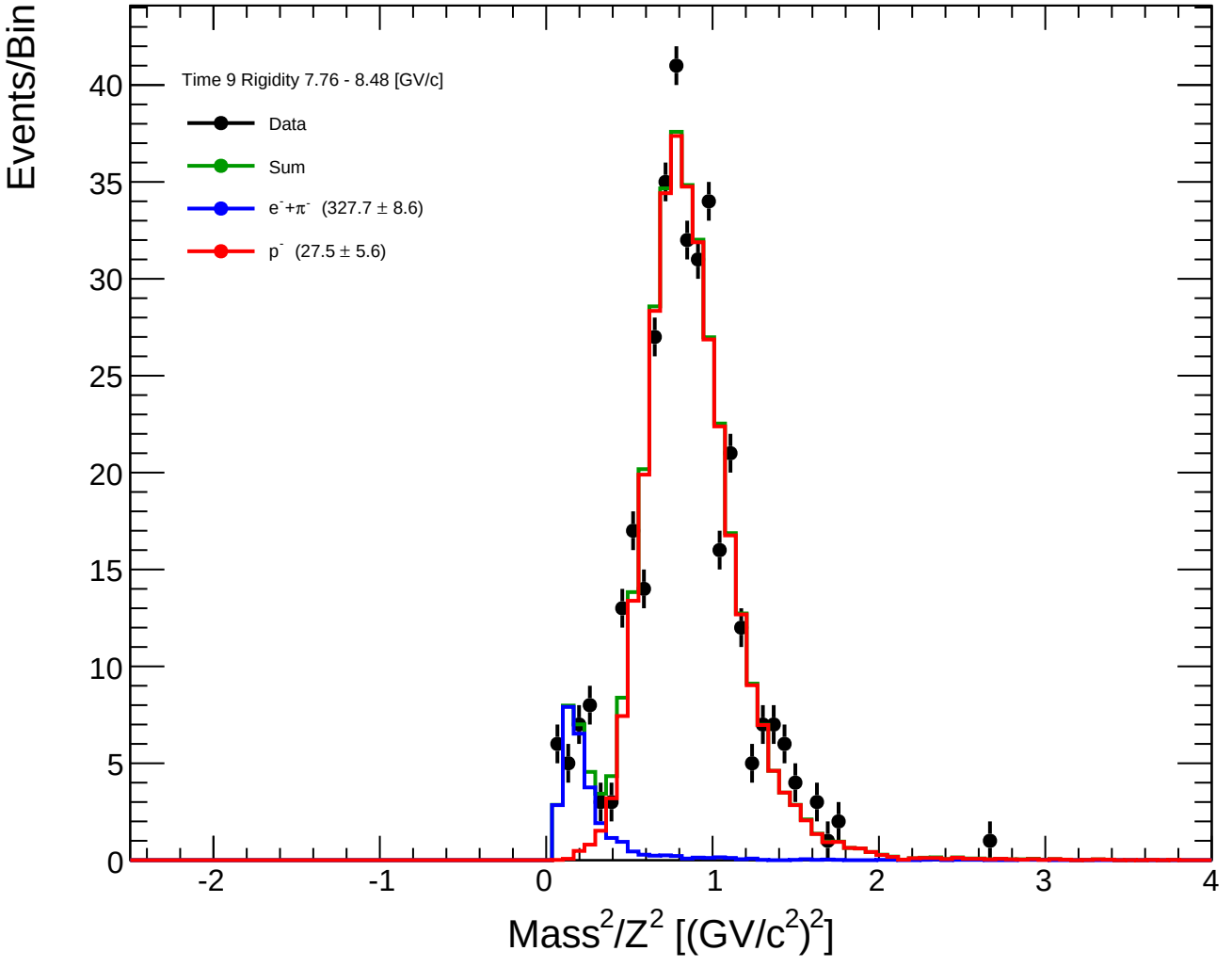

Time 9 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (496.5 ± 10.8)
p⁻ (1.6 ± 14.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
-2
-1
0
1
2
3
4

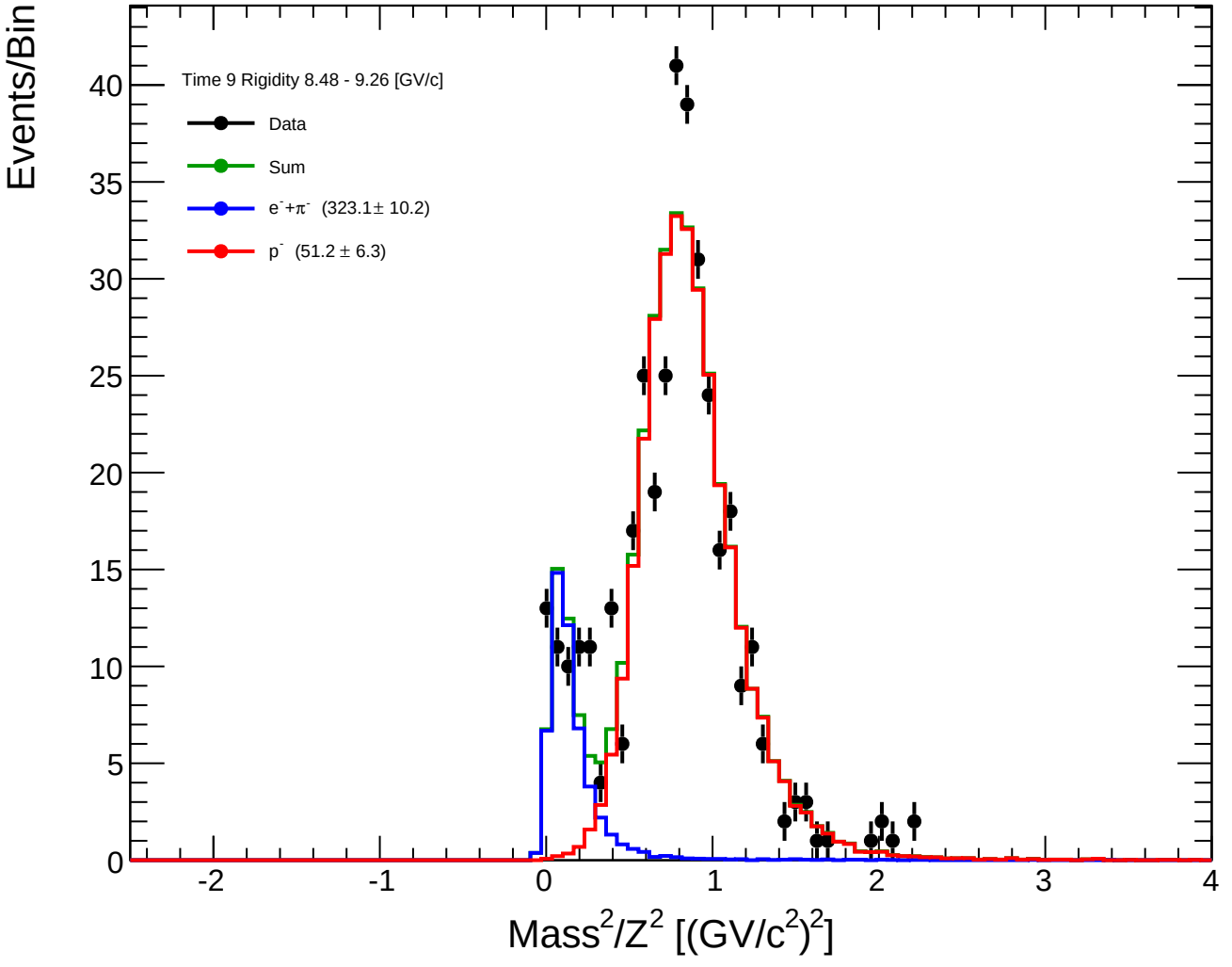

Time 9 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (323.9 ± 9.0)
p⁻ (12.4 ± 10.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

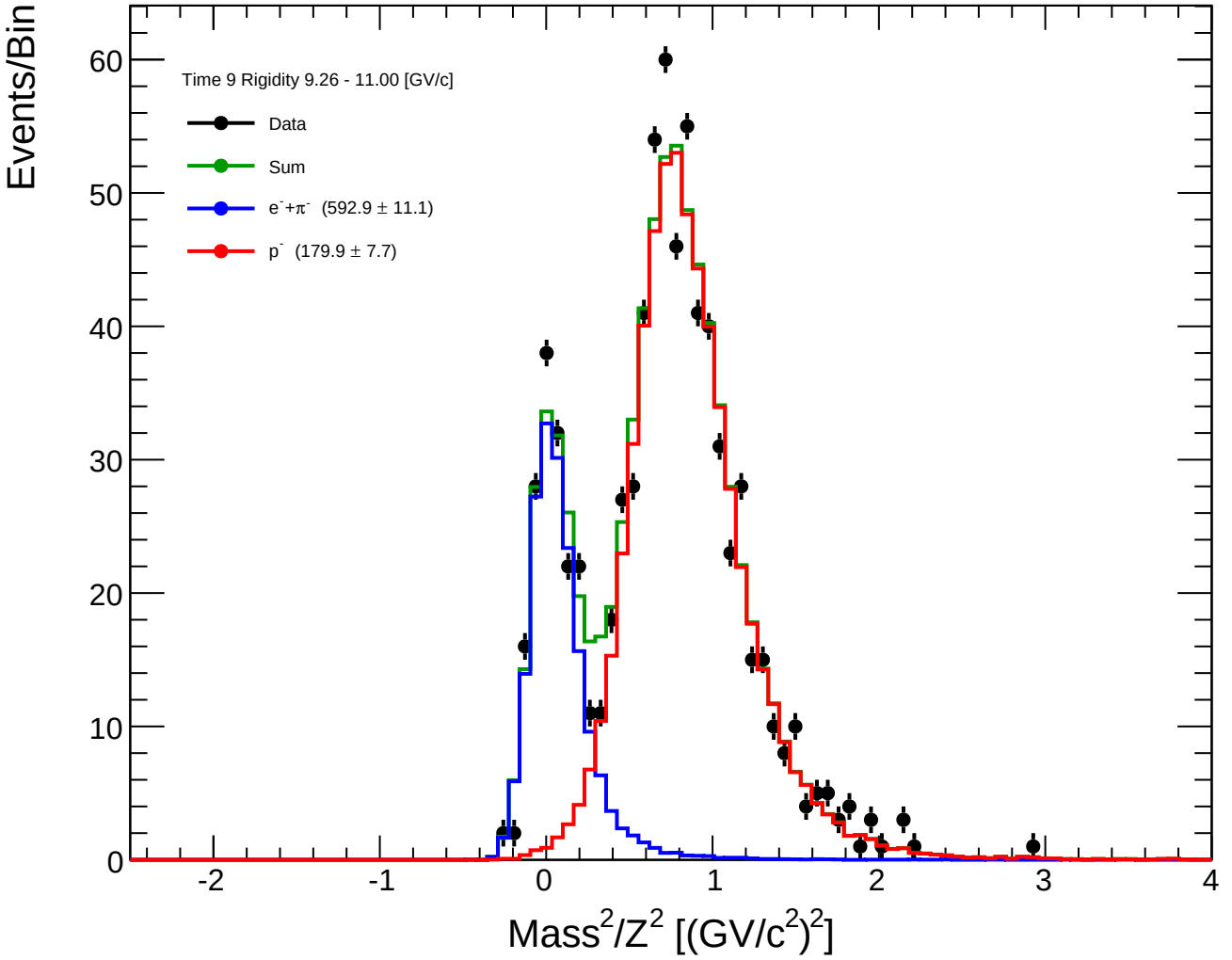

Time 9 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (271.2 ± 8.1)
p⁻ (14.4 ± 9.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

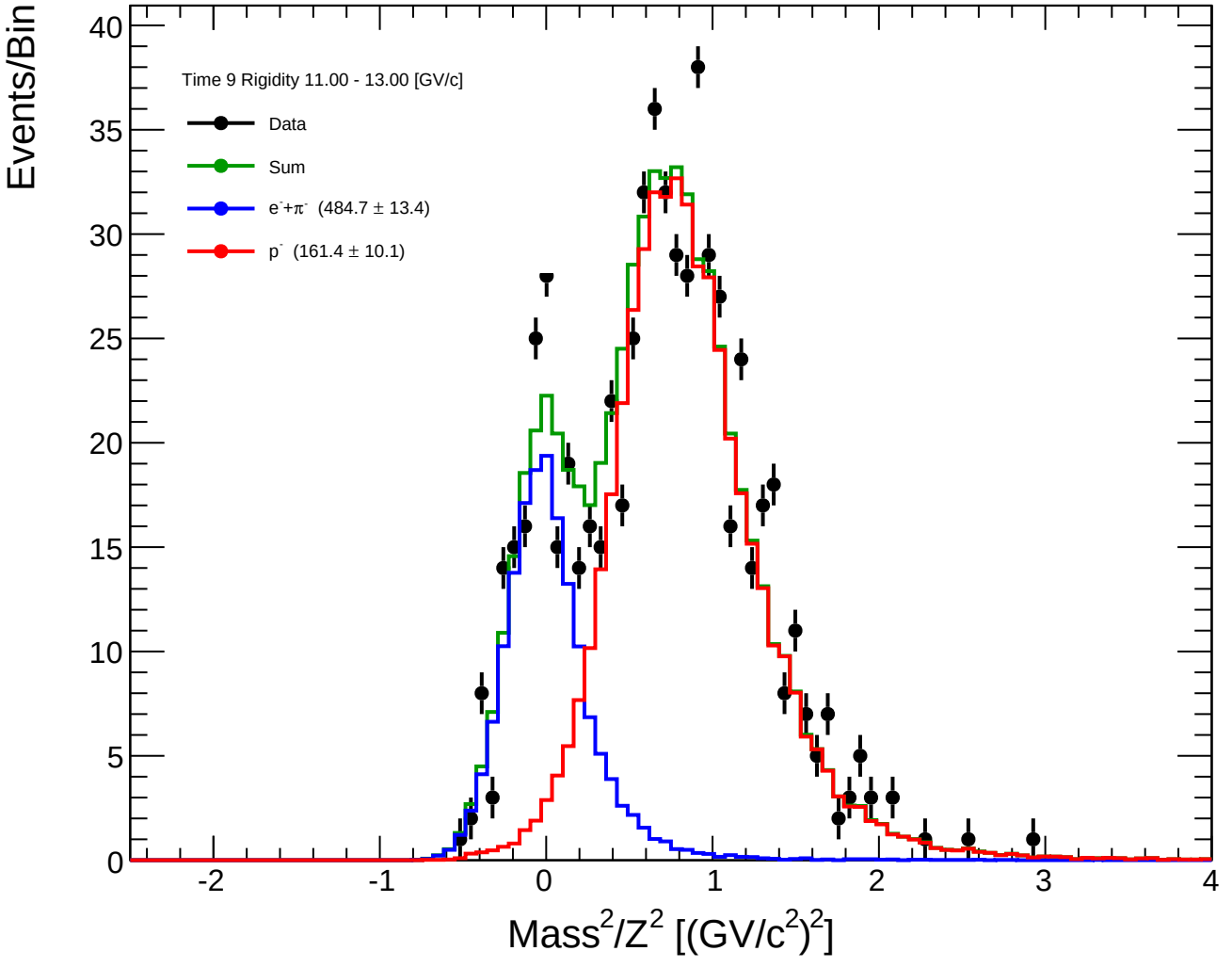

Time 9 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (359.3 ± 8.8)
p⁻ (0.0 ± 9.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

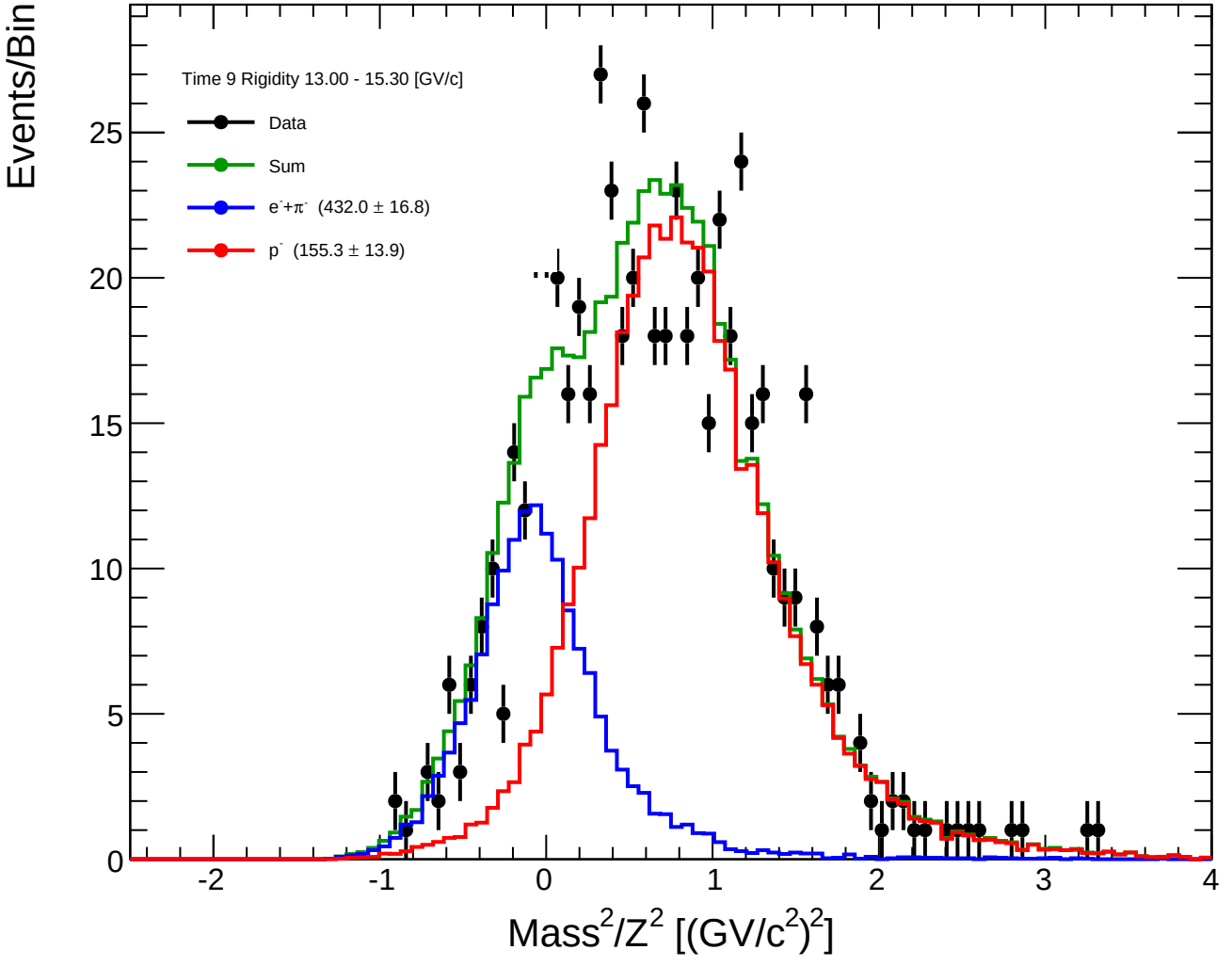

Time 9 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (345.2 ± 8.7)
p⁻ (8.0 ± 6.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

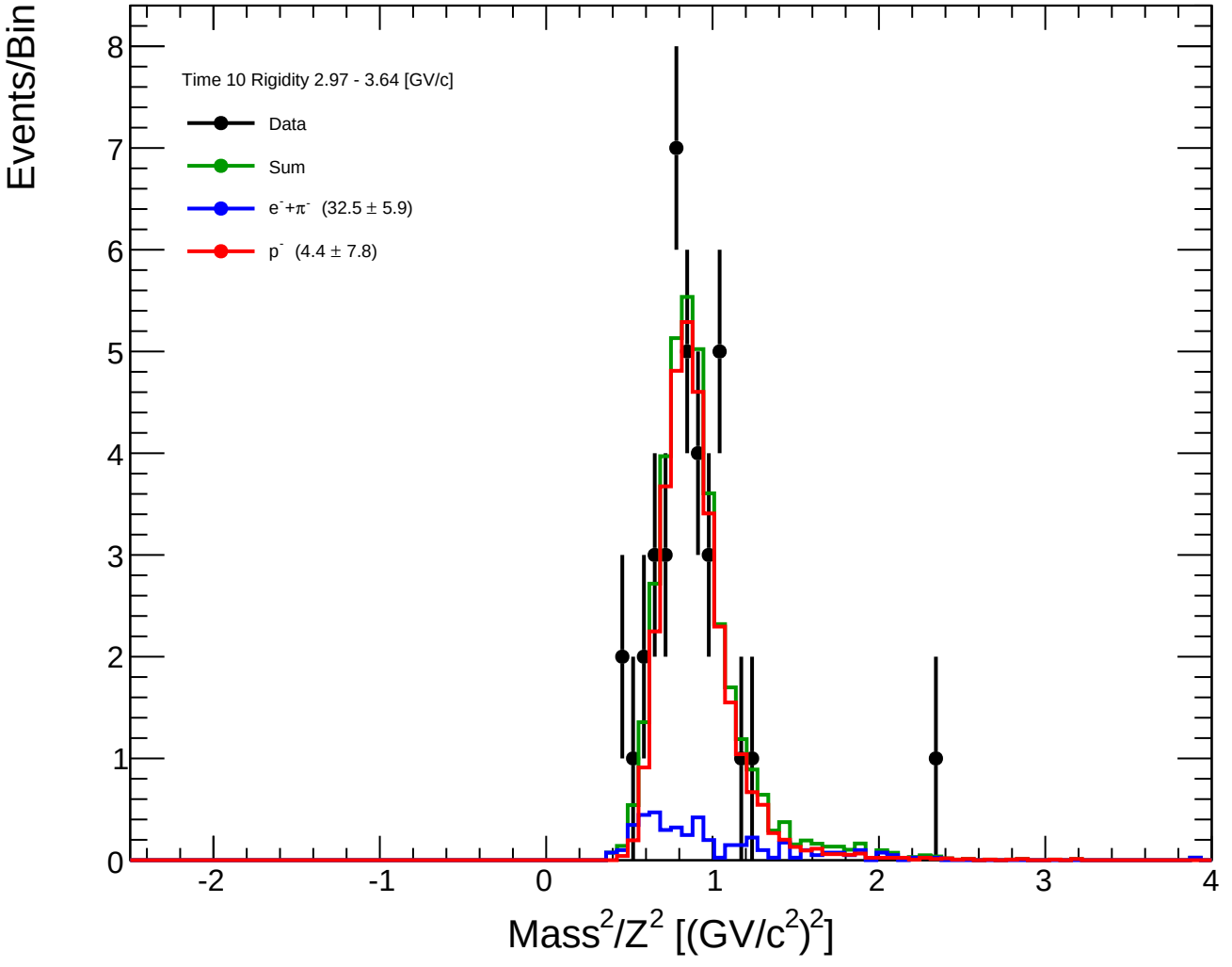

Time 9 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (327.7 ± 8.6)
p⁻ (27.5 ± 5.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

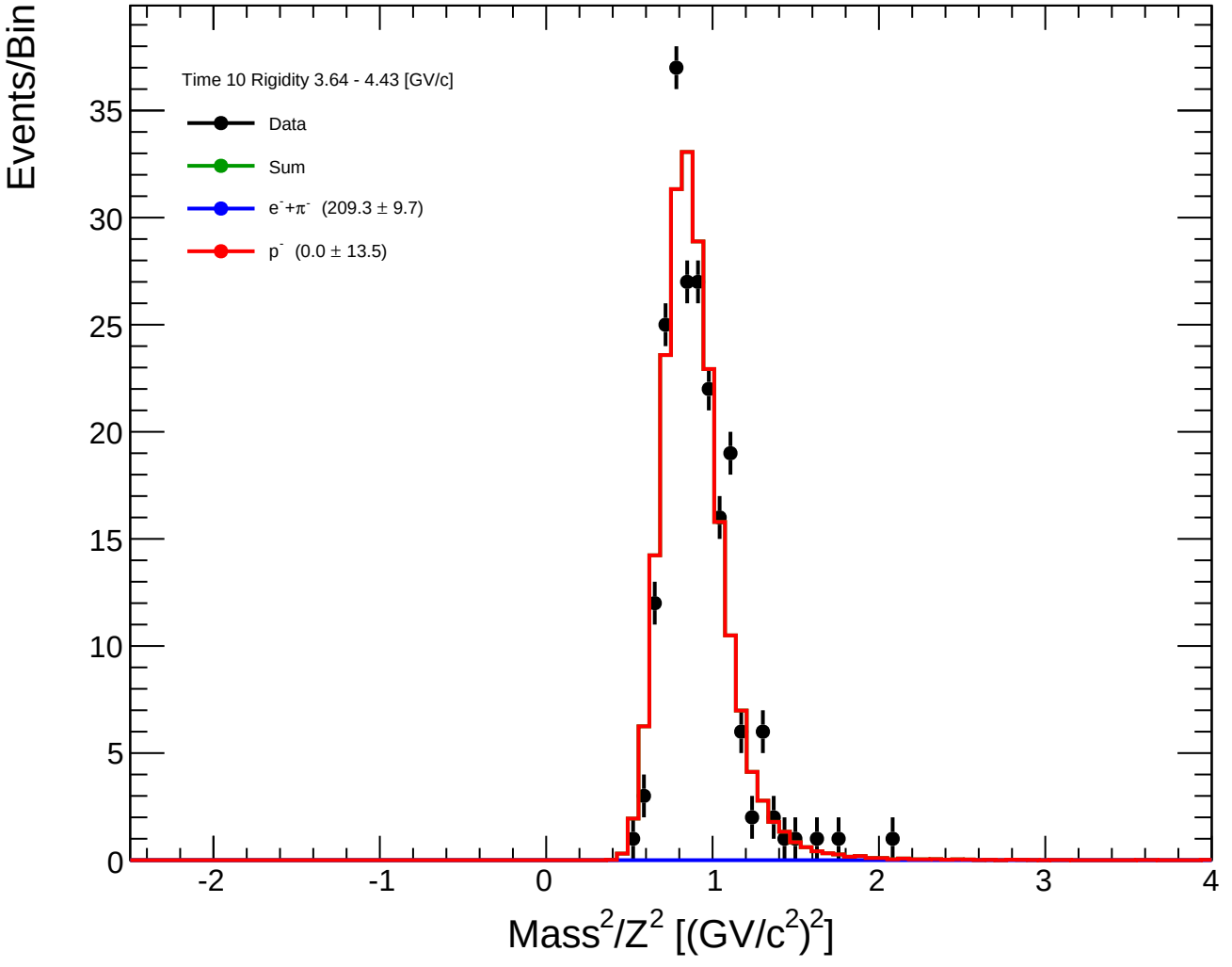

Time 9 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (323.1± 10.2)
p⁻ (51.2 ± 6.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

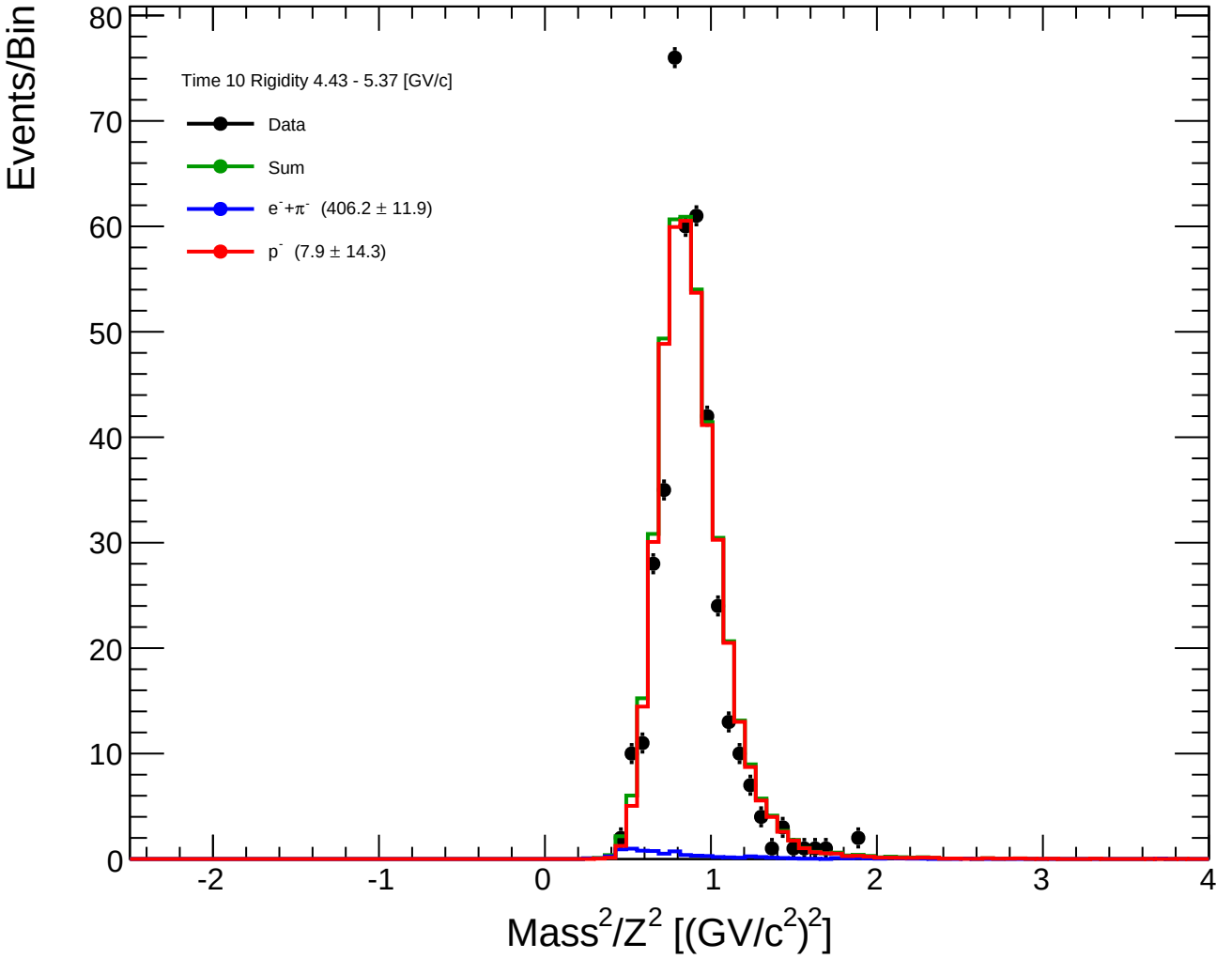

Time 9 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (592.9 ± 11.1)
p⁻ (179.9 ± 7.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

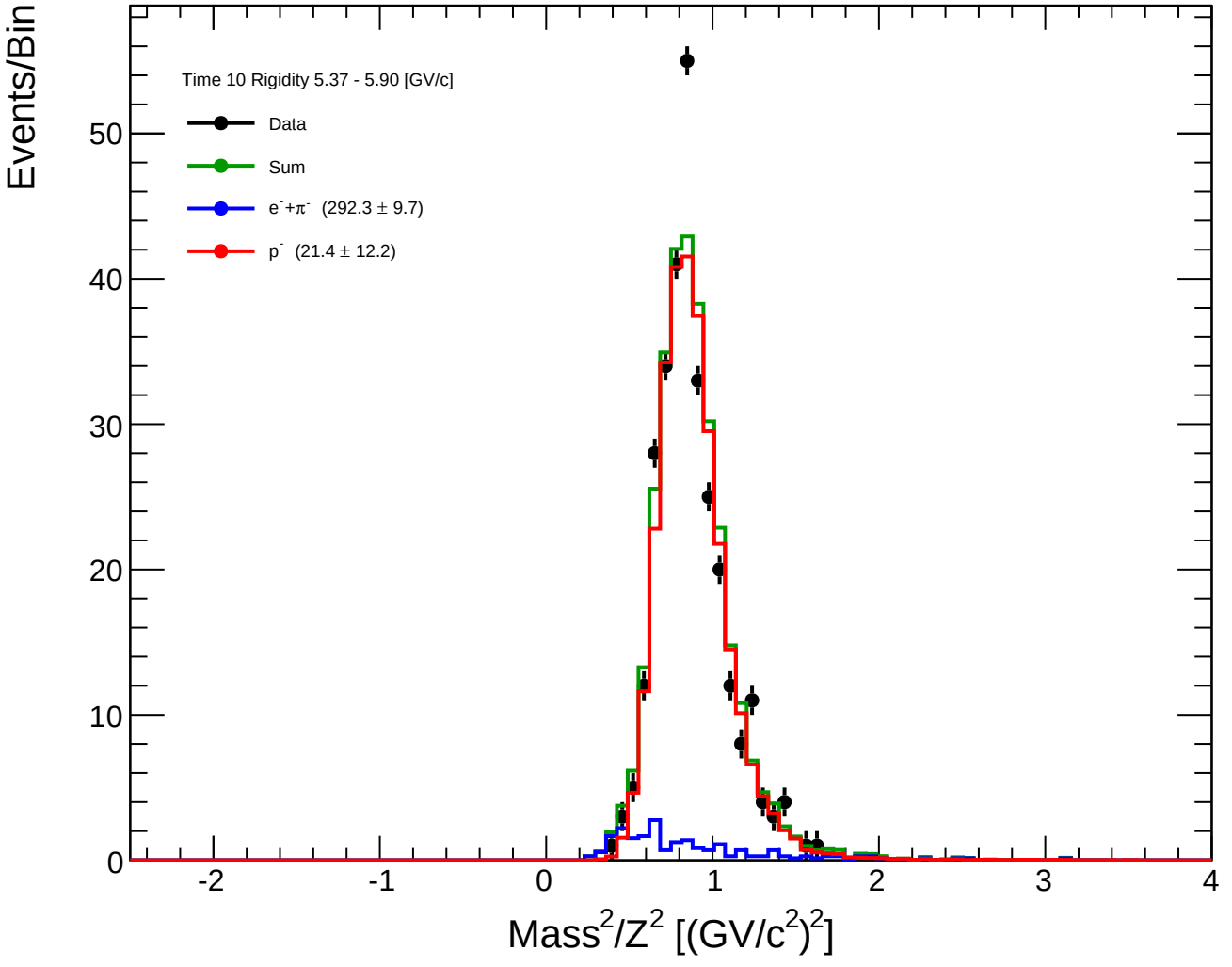

Time 9 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (484.7 ± 13.4)
p⁻ (161.4 ± 10.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

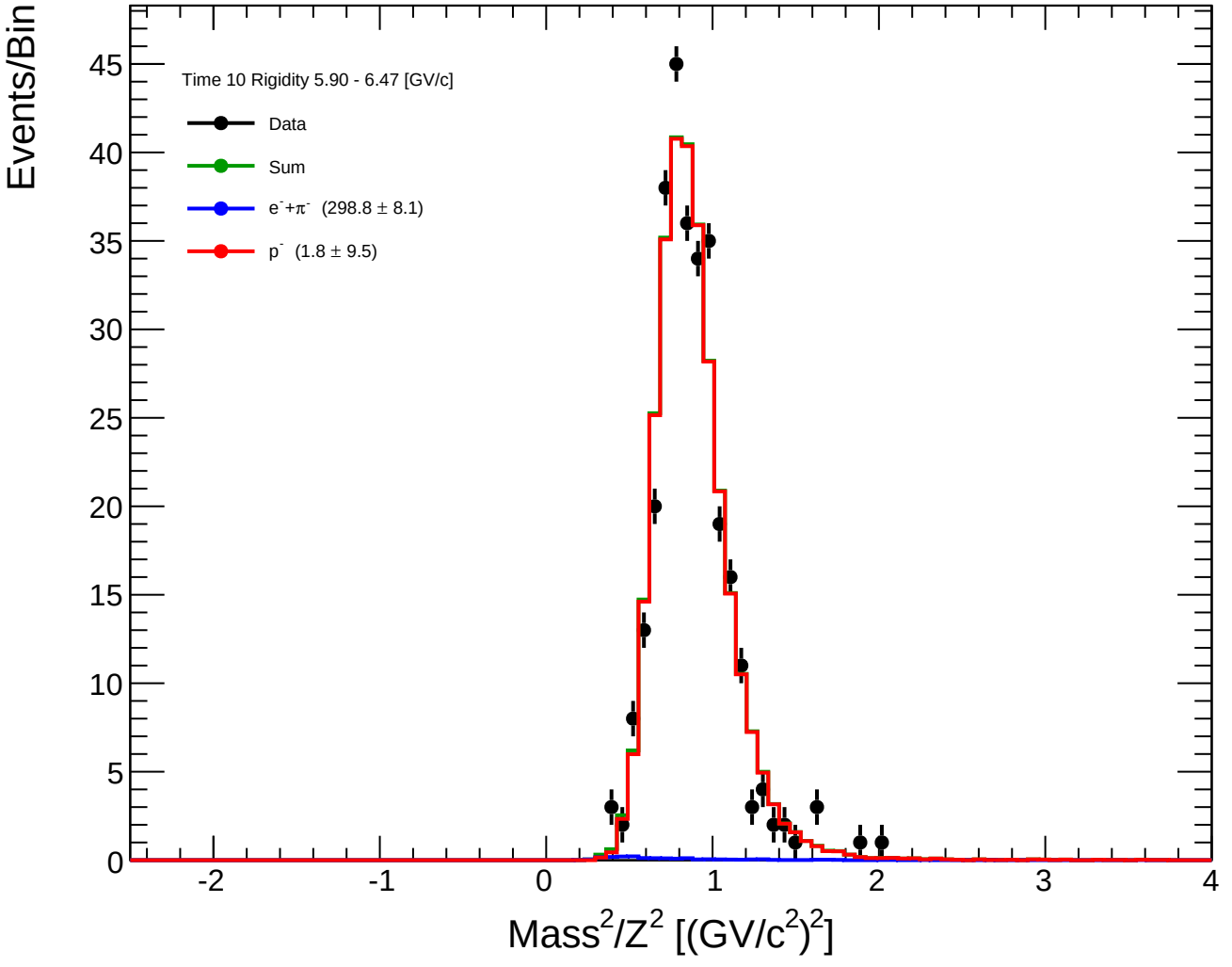

Time 9 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (432.0 ± 16.8)
p⁻ (155.3 ± 13.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

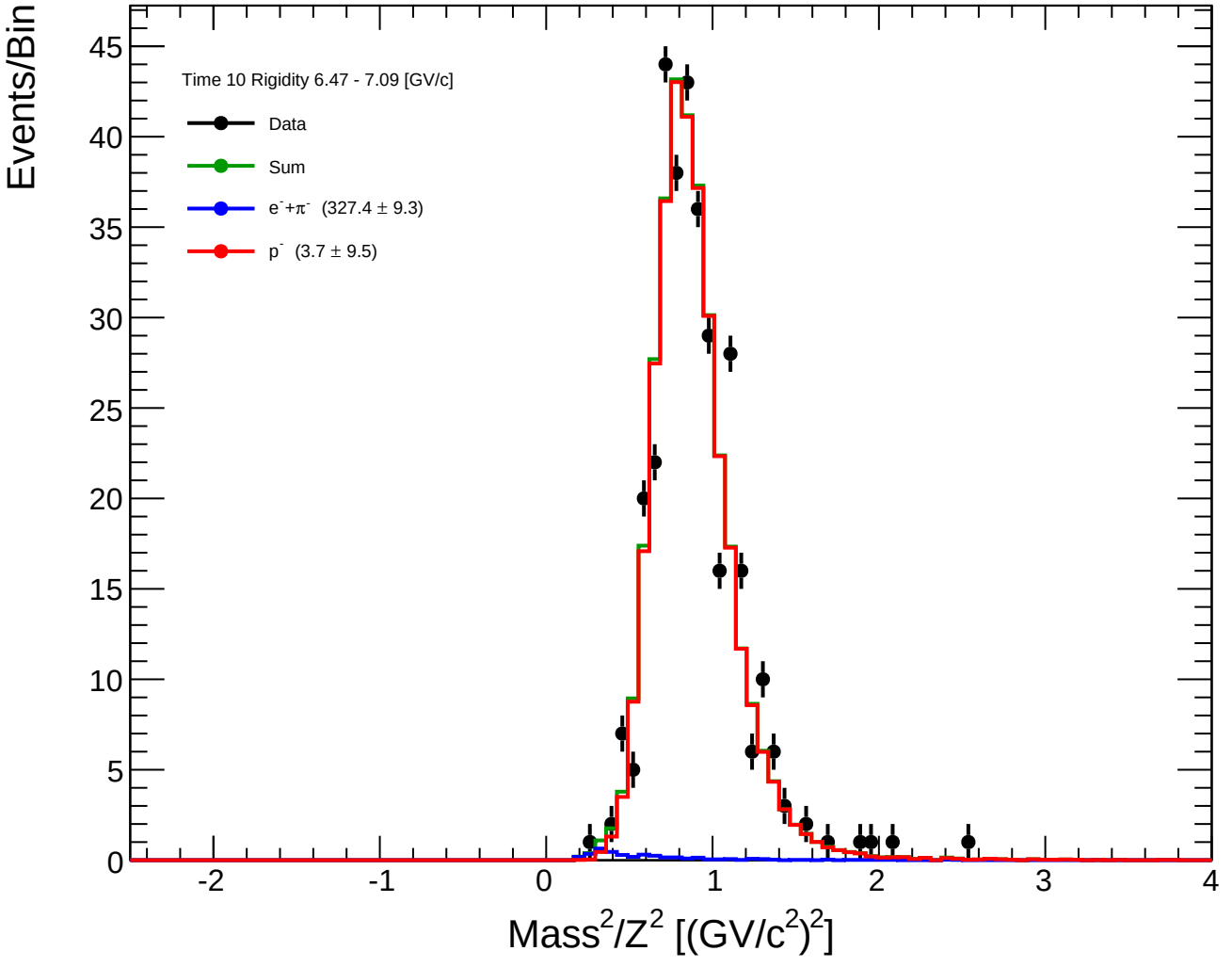

Events/Bin
Time 10 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (32.5 ± 5.9)
p⁻ (4.4 ± 7.8)
0
1
2
3
4
5
6
7
8
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

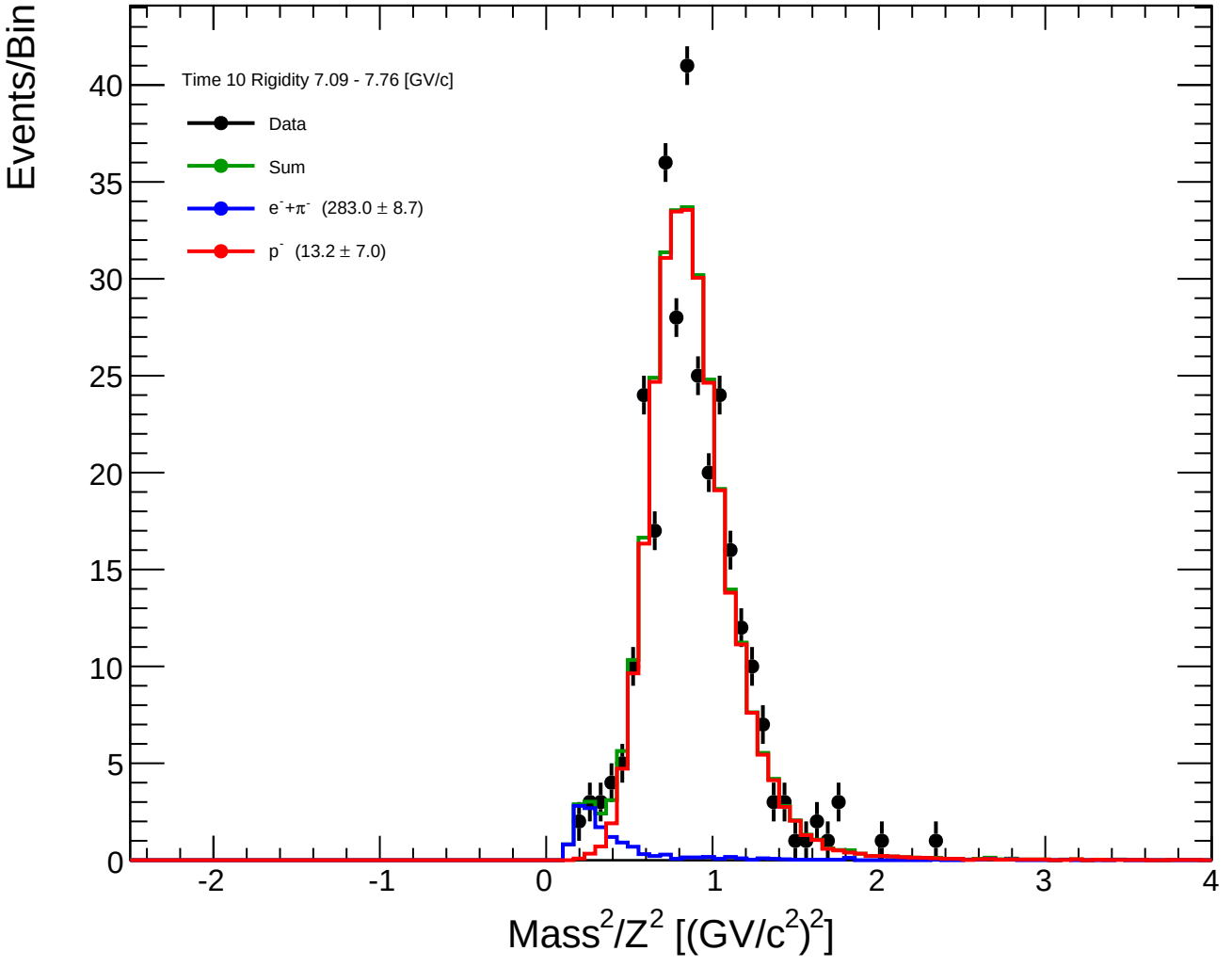

Time 10 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (209.3 ± 9.7)
p⁻ (0.0 ± 13.5)
Events/Bin
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

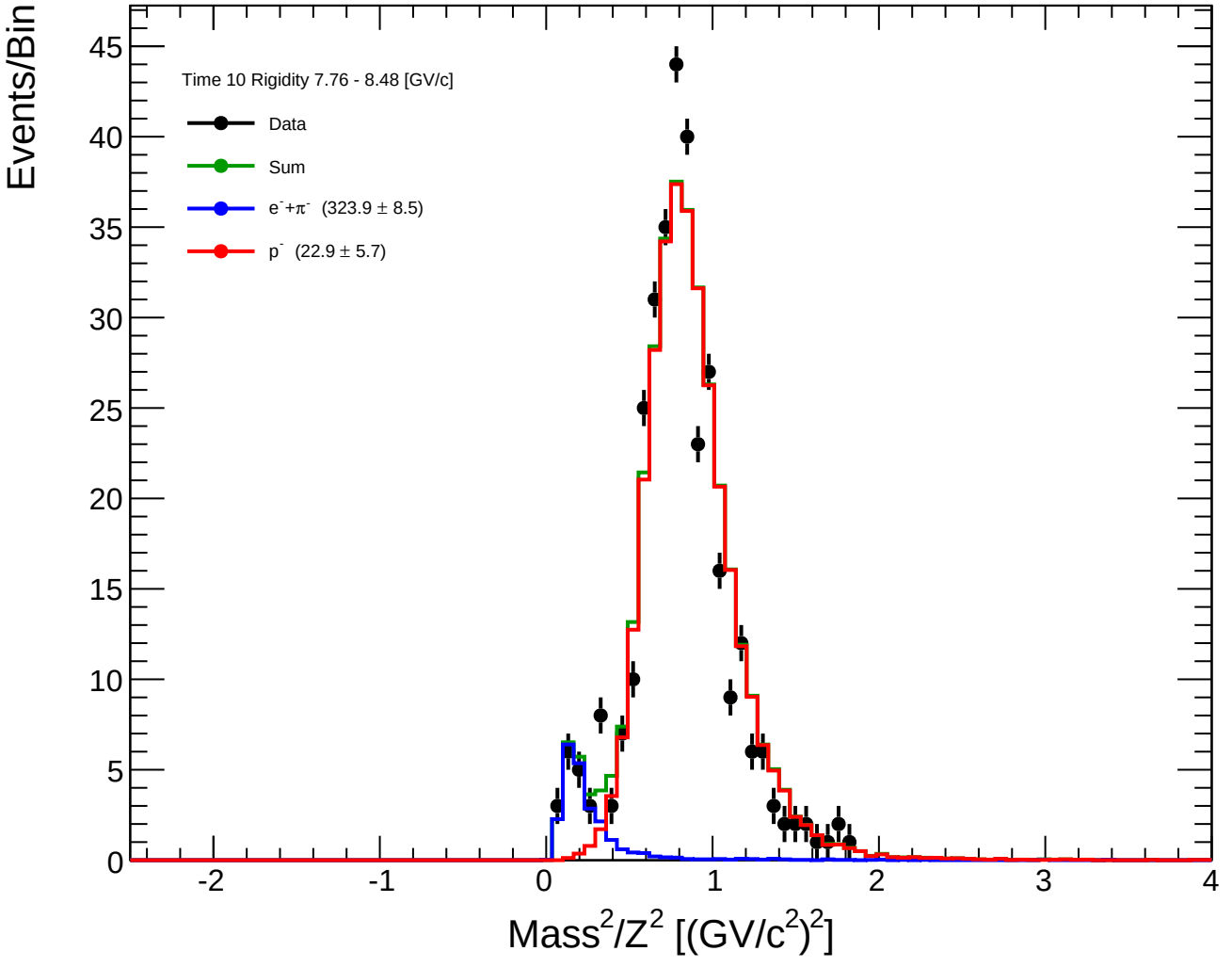

Time 10 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (406.2 ± 11.9)
p⁻ (7.9 ± 14.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
-2
-1
0
1
2
3
4

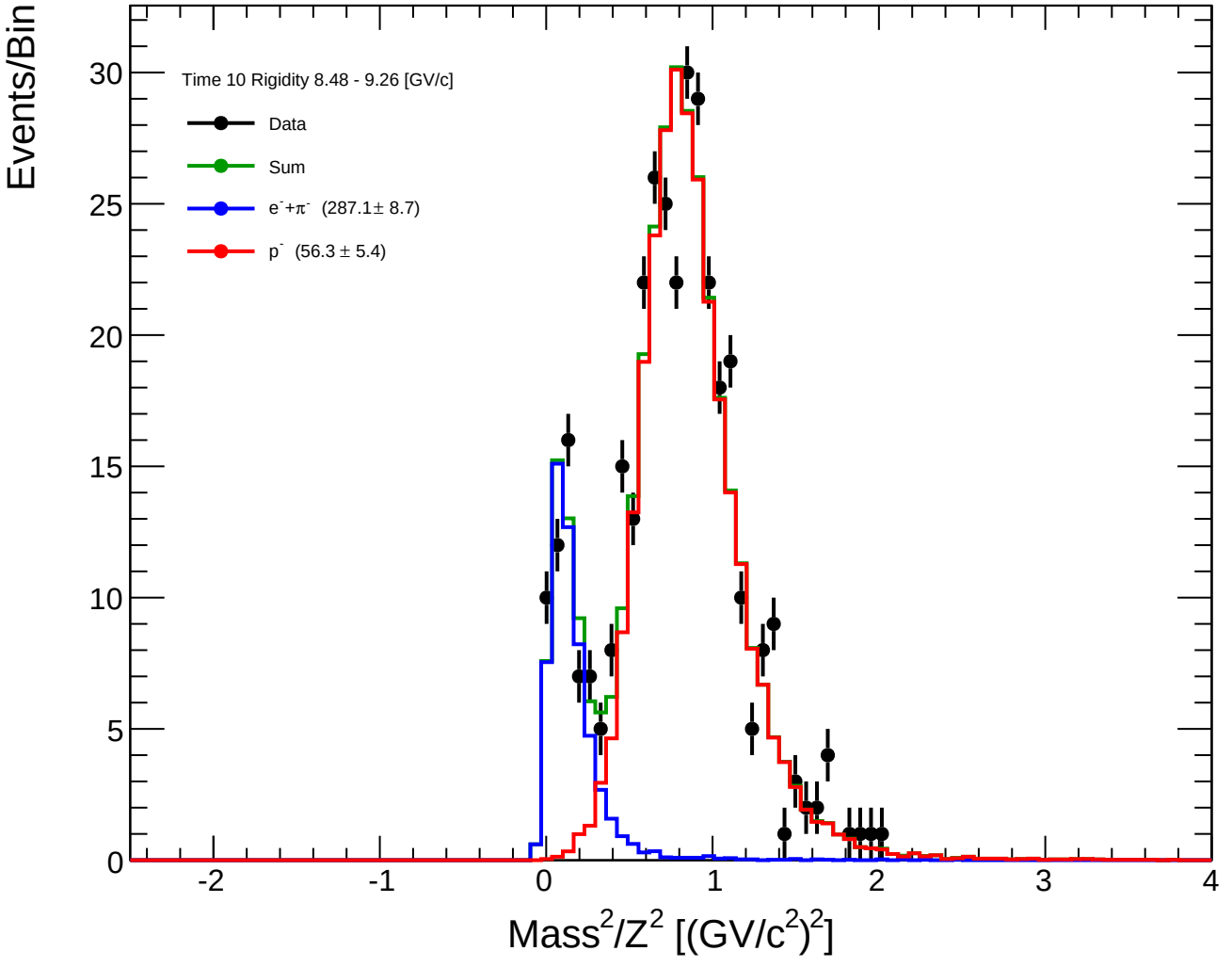

Time 10 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (292.3 ± 9.7)
p⁻ (21.4 ± 12.2)
Events/Bin
0
10
20
30
40
50
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

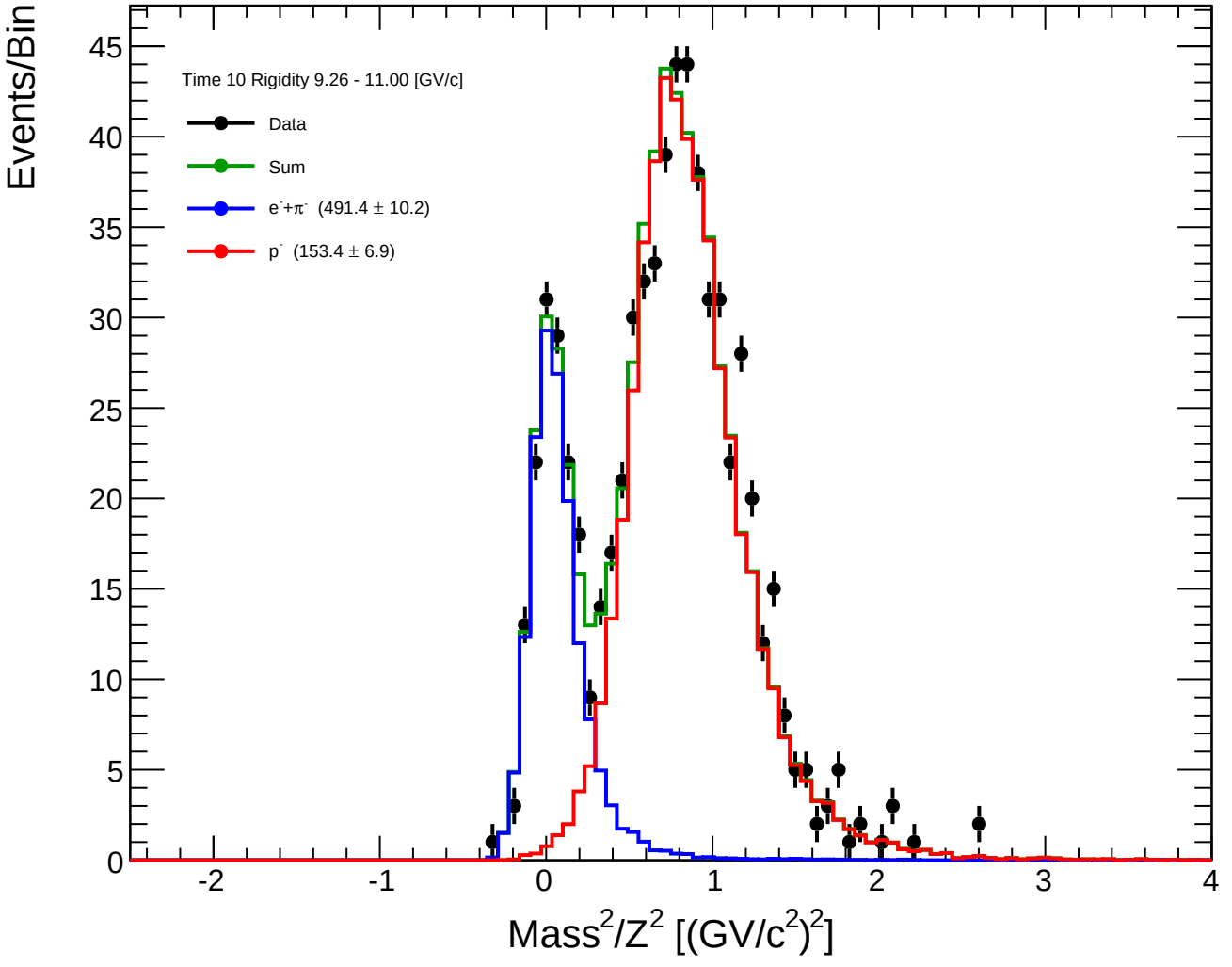

Time 10 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (298.8 ± 8.1)
p⁻ (1.8 ± 9.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

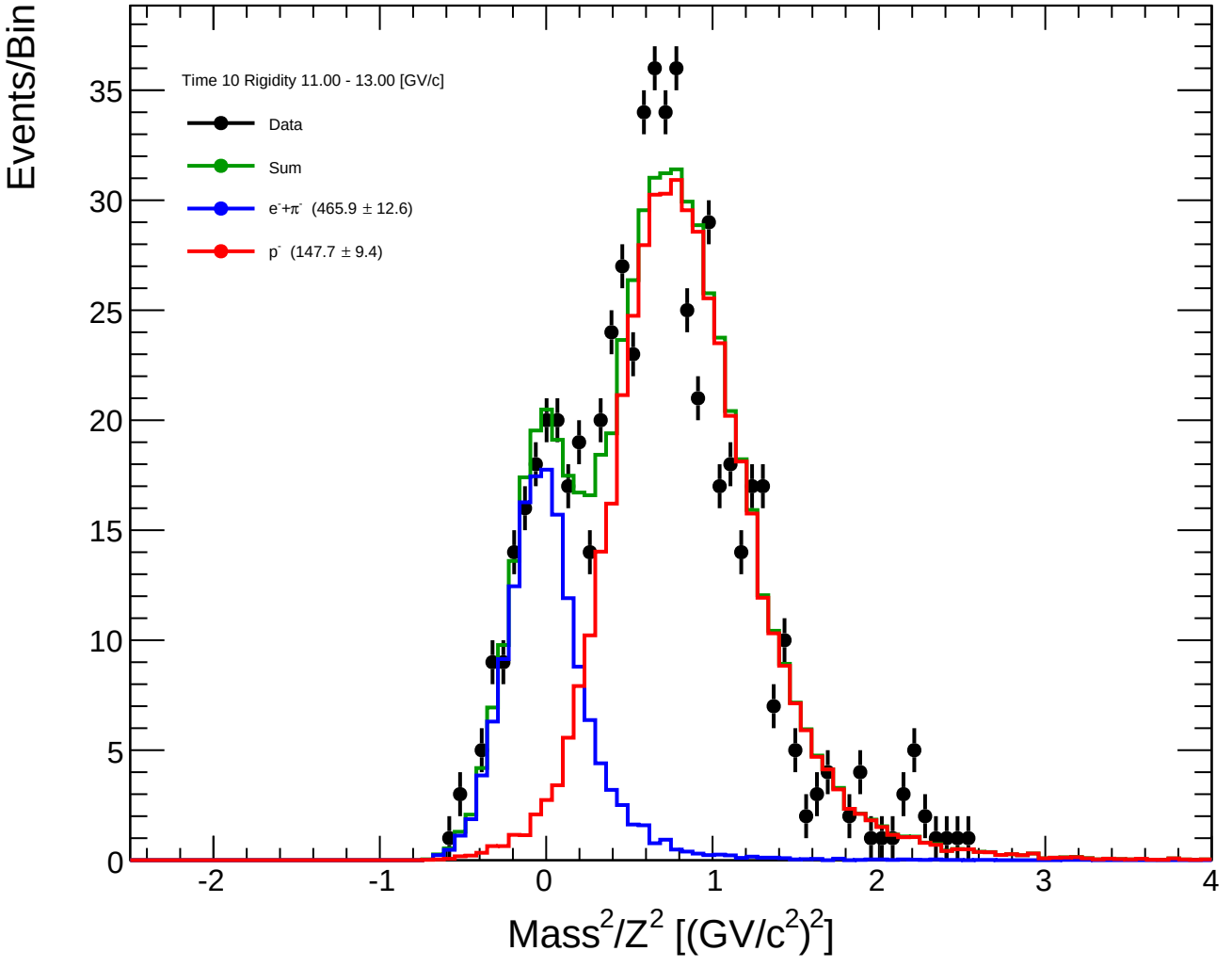

Time 10 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (327.4 ± 9.3)
p⁻ (3.7 ± 9.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

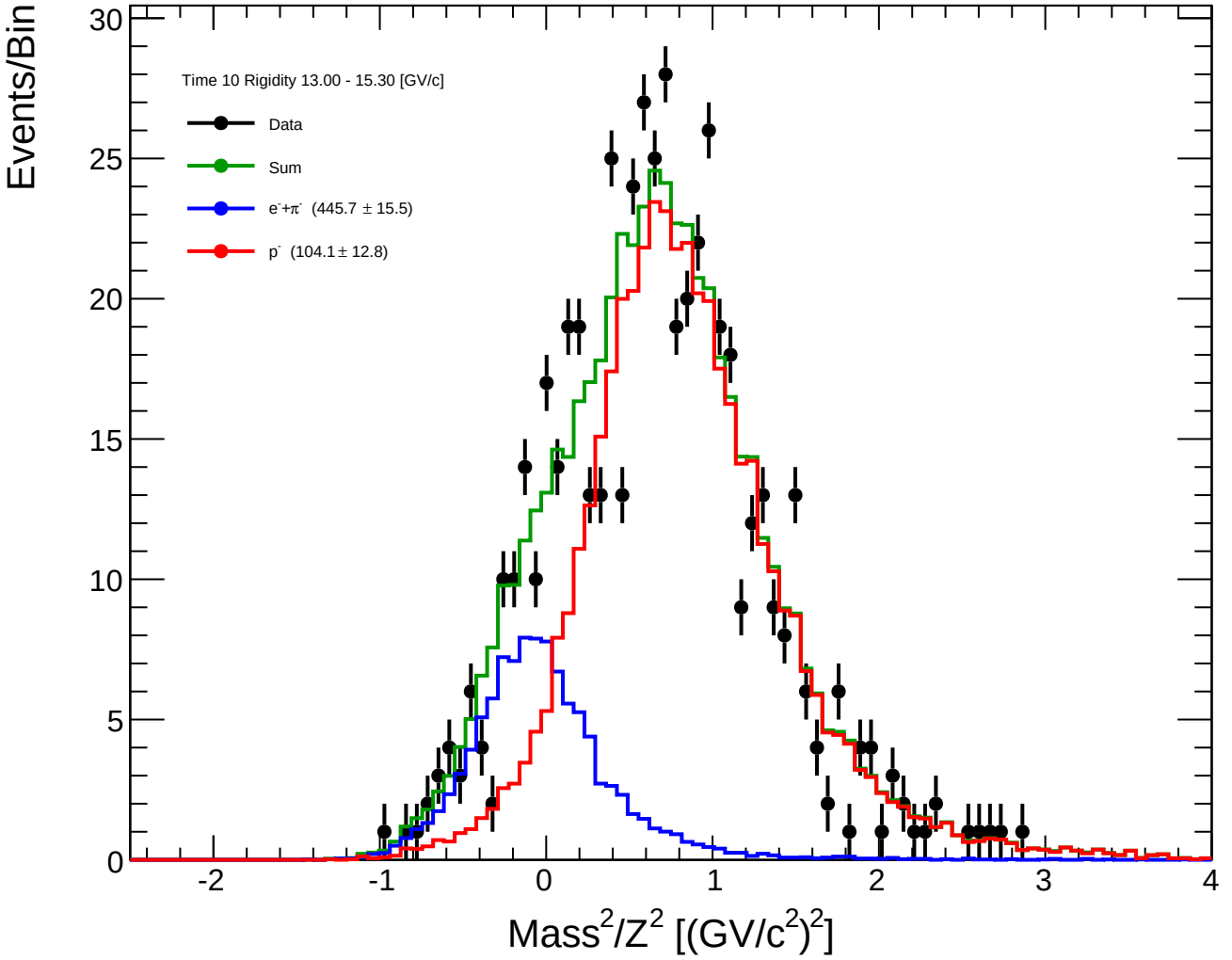

Time 10 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (283.0 ± 8.7)
p⁻ (13.2 ± 7.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

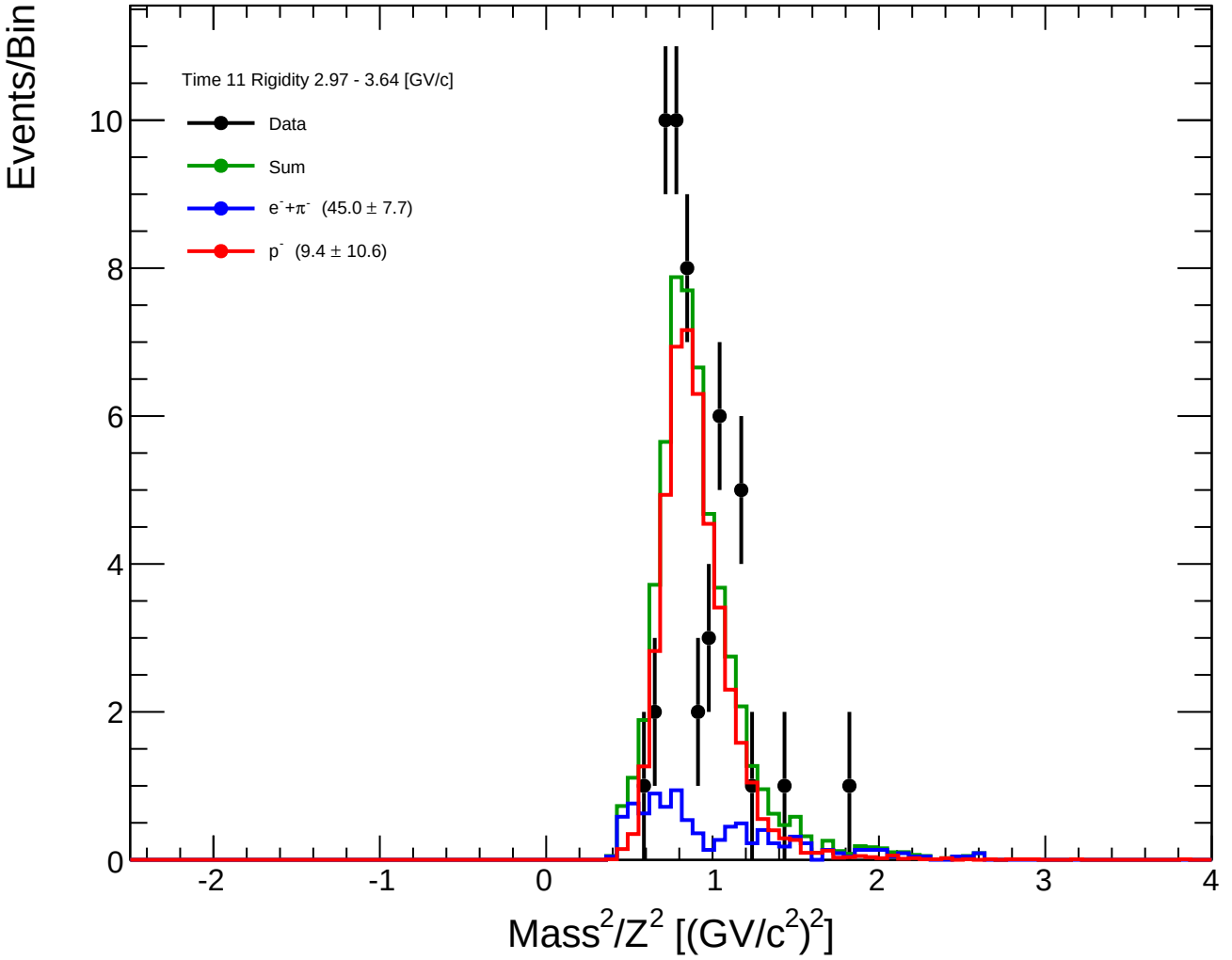

Time 10 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (323.9 ± 8.5)
p⁻ (22.9 ± 5.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

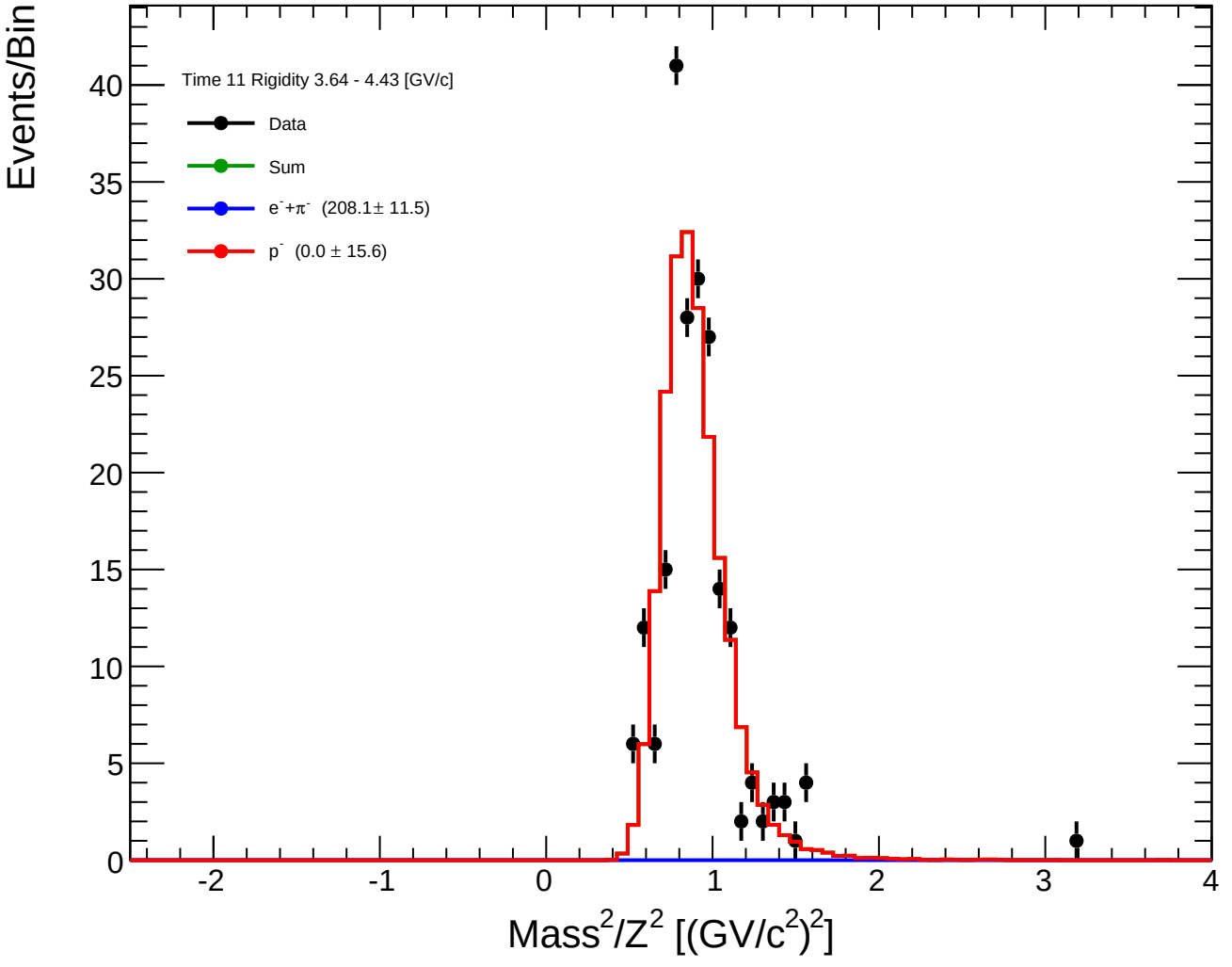

Time 10 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (287.1± 8.7)
p⁻ (56.3 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

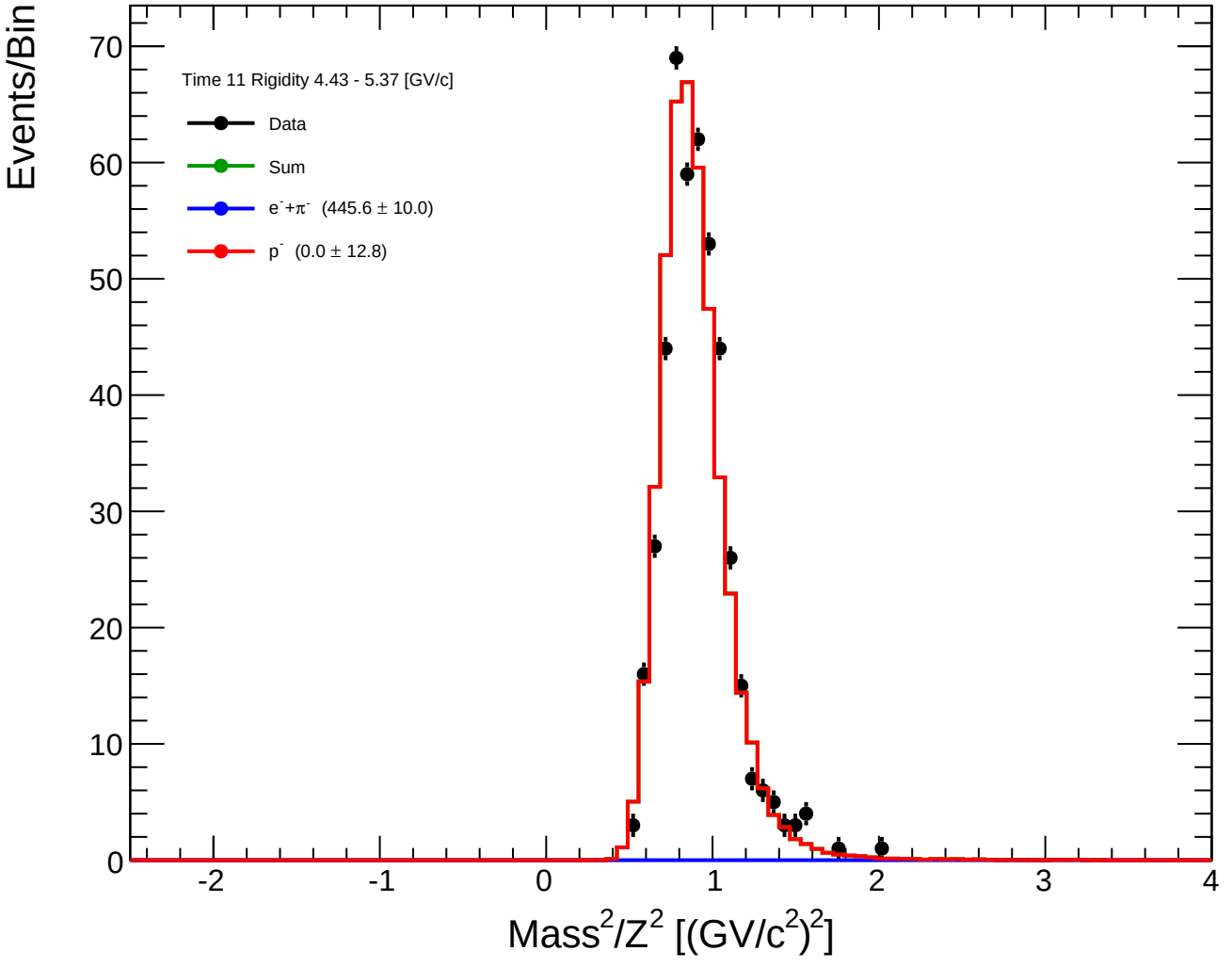

Time 10 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (491.4 ± 10.2)
p⁻ (153.4 ± 6.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

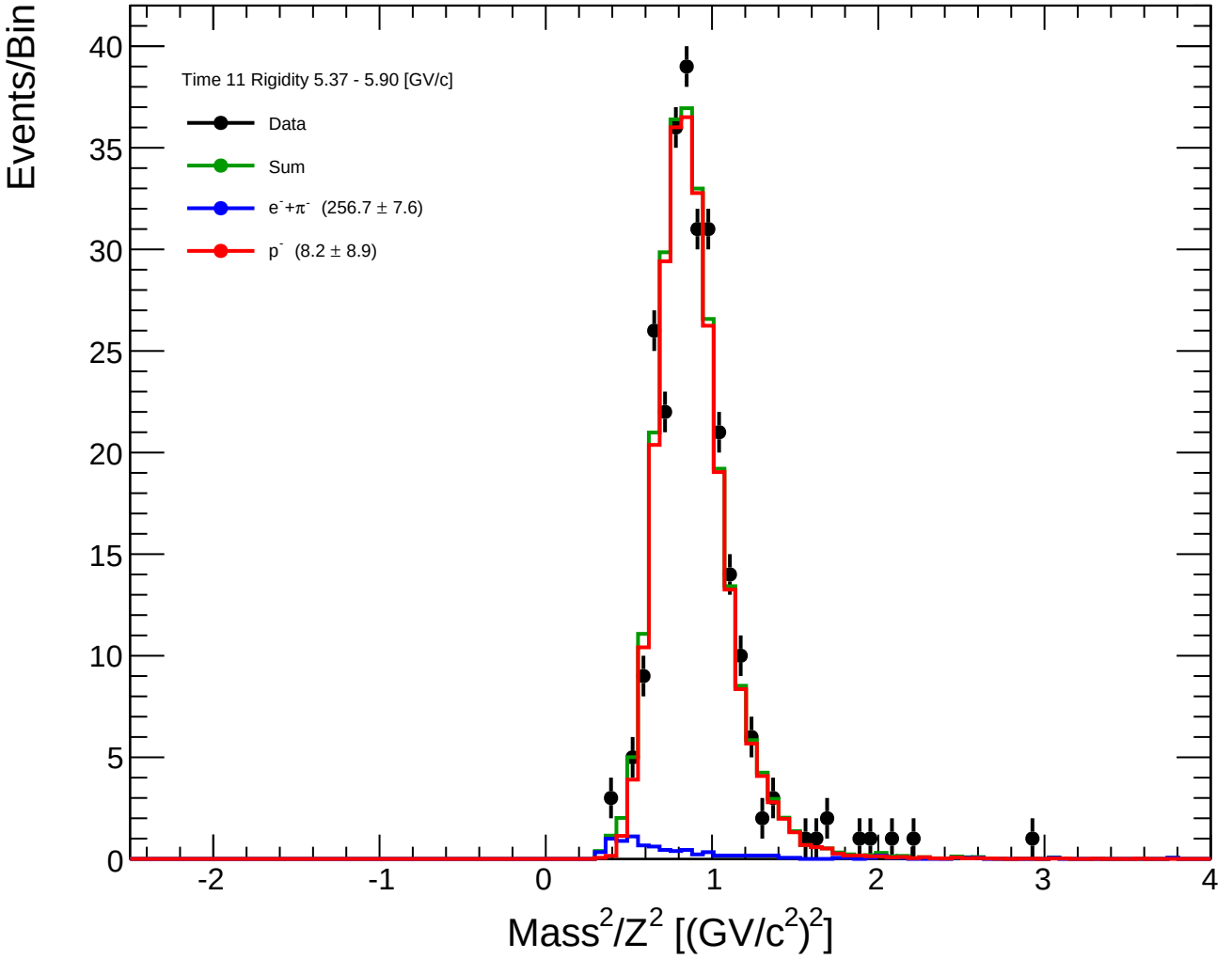

Time 10 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (465.9 ± 12.6)
p⁻ (147.7 ± 9.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

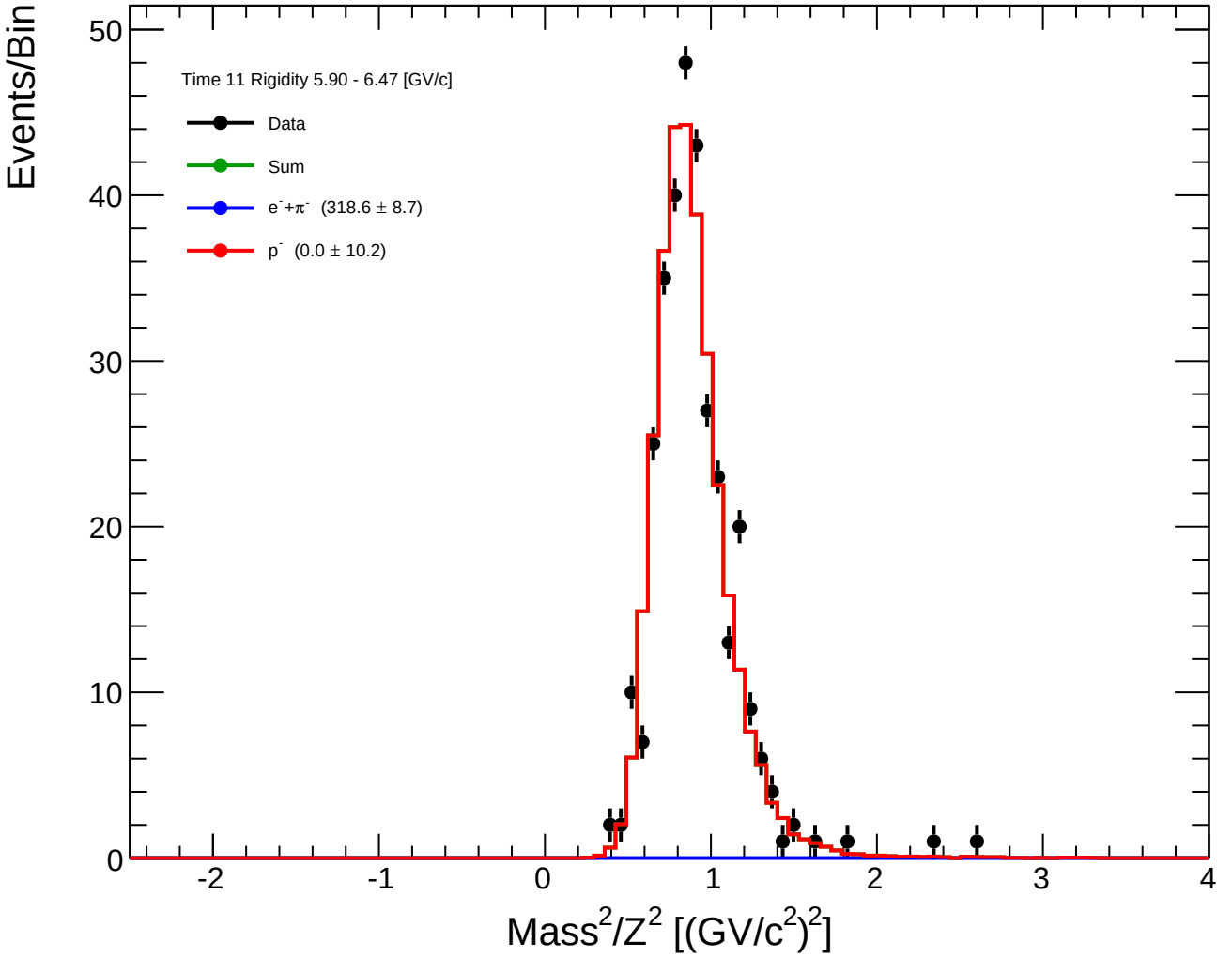

Time 10 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (445.7 ± 15.5)
p⁻ (104.1 ± 12.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

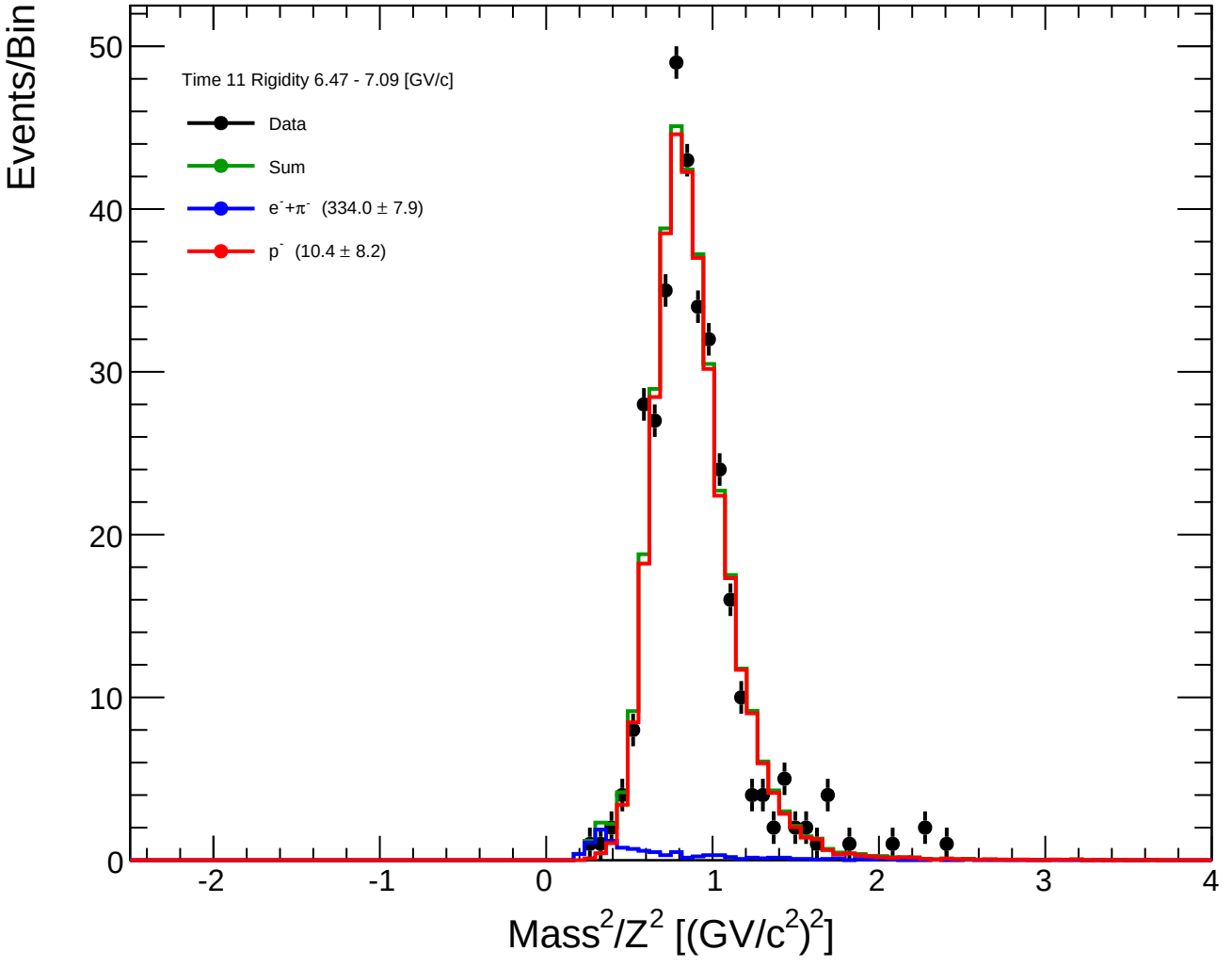

Time 11 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (45.0 ± 7.7)
p⁻ (9.4 ± 10.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
-2
-1
0
1
2
3
4

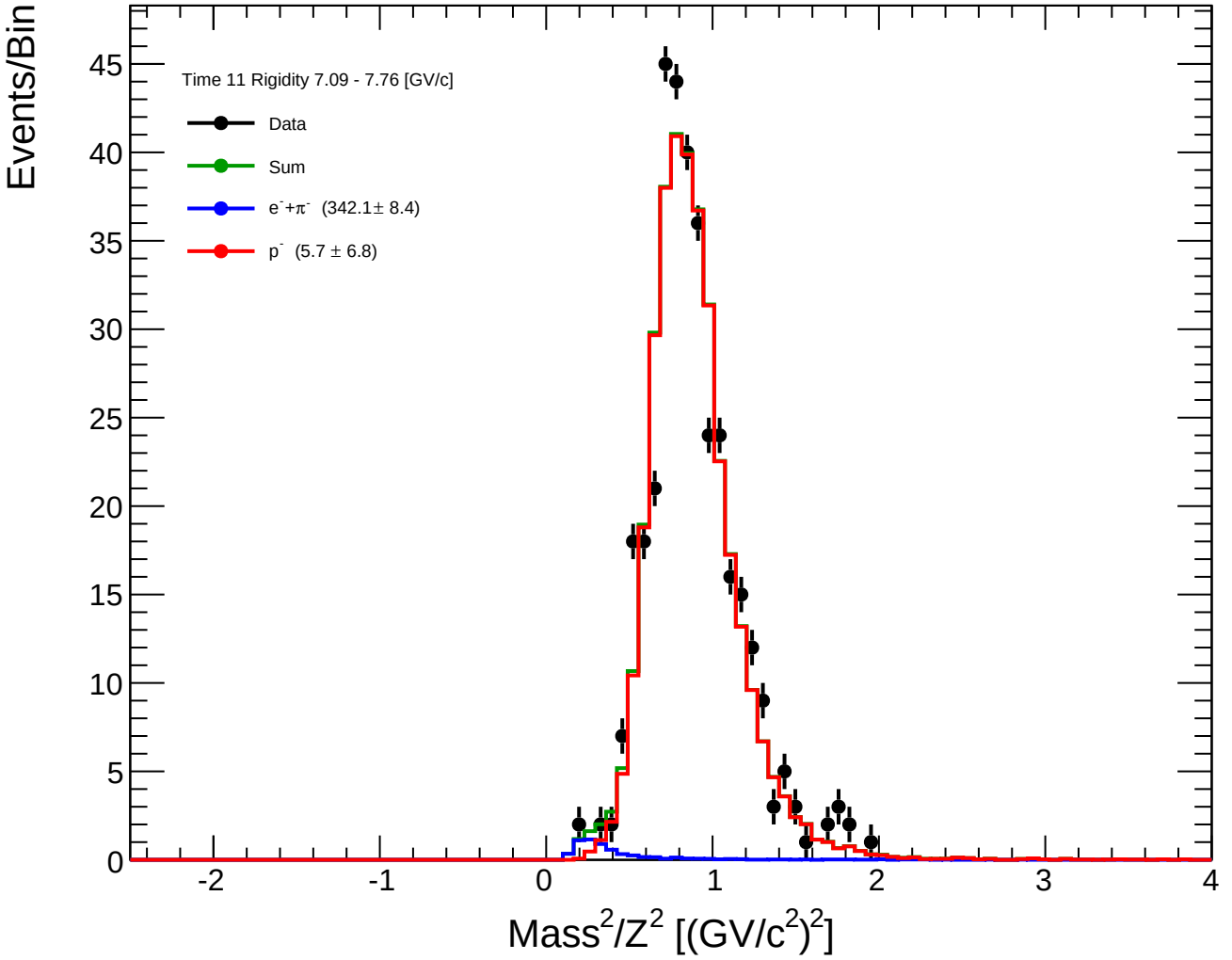

Time 11 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (208.1± 11.5)
p⁻ (0.0 ± 15.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

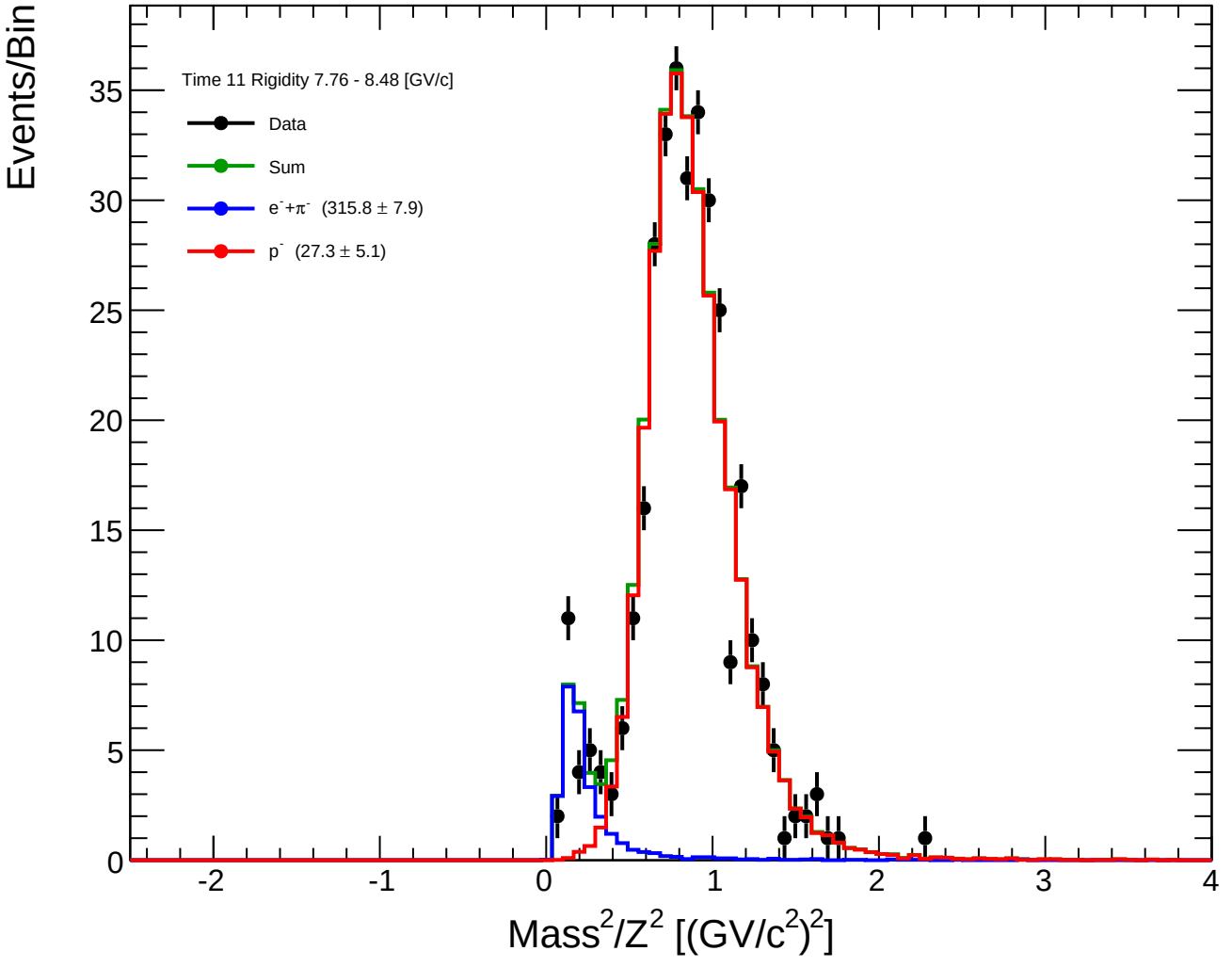

Time 11 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (445.6 ± 10.0)
p⁻ (0.0 ± 12.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

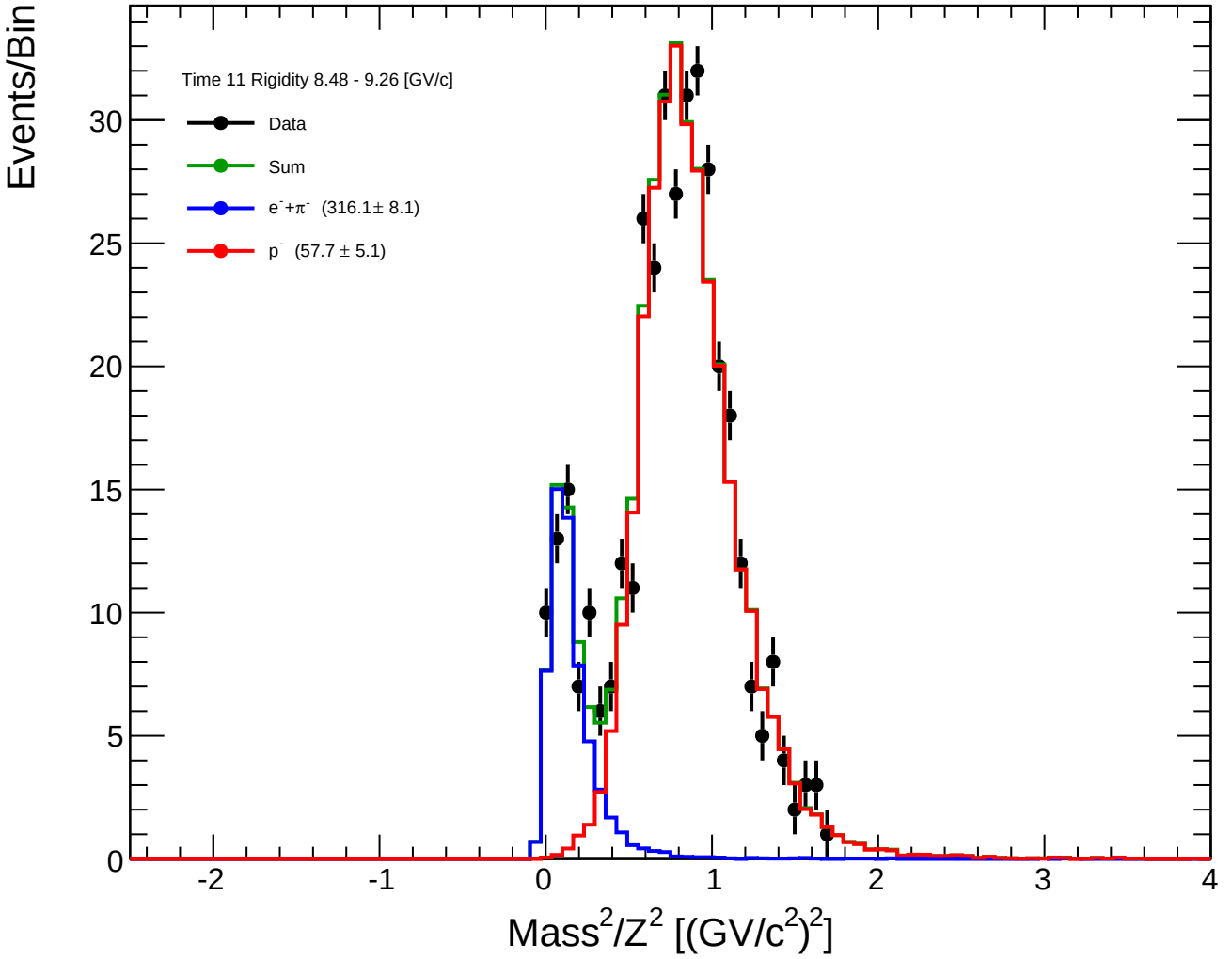

Time 11 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (256.7 ± 7.6)
p⁻ (8.2 ± 8.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

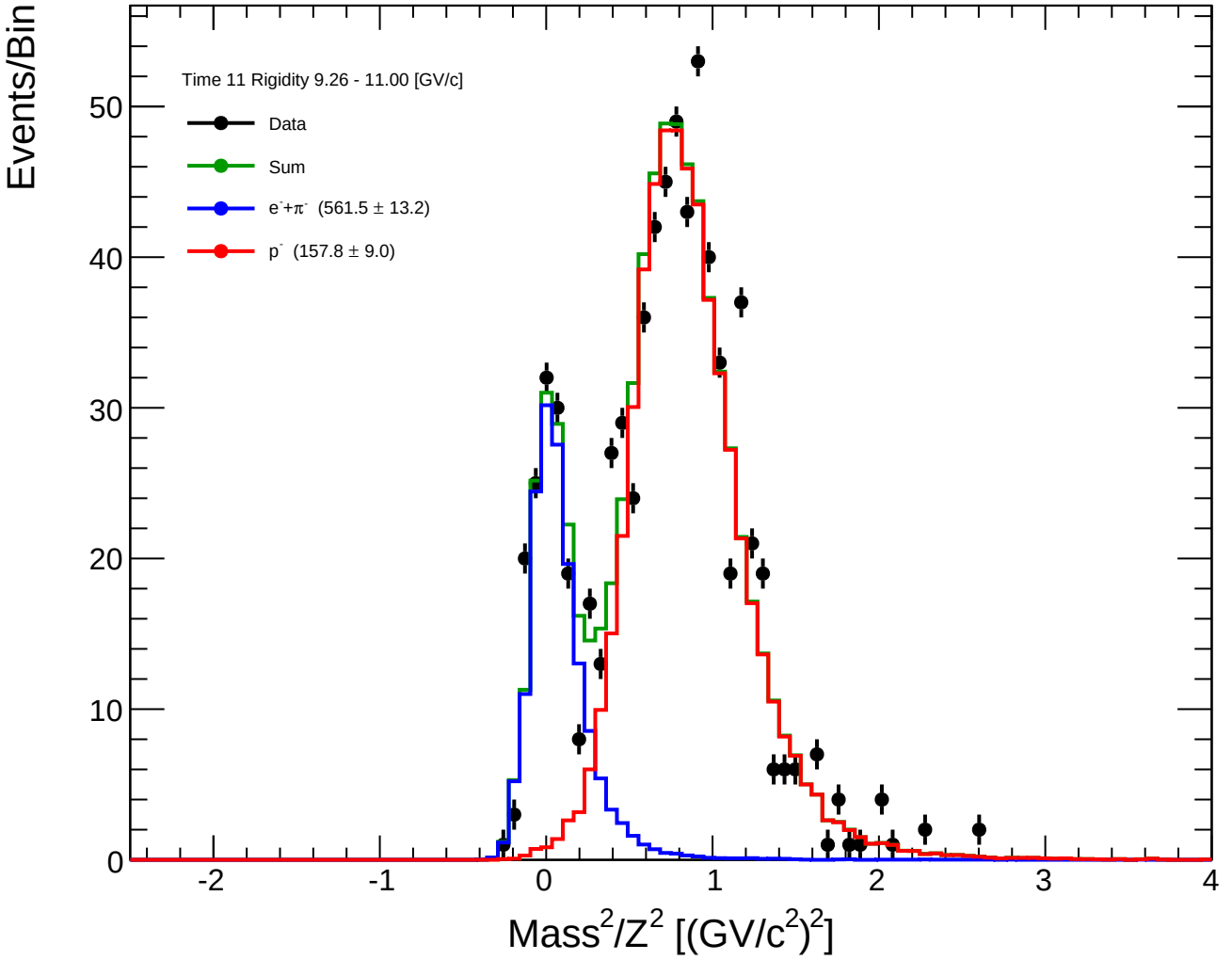

Time 11 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (318.6 ± 8.7)
p⁻ (0.0 ± 10.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

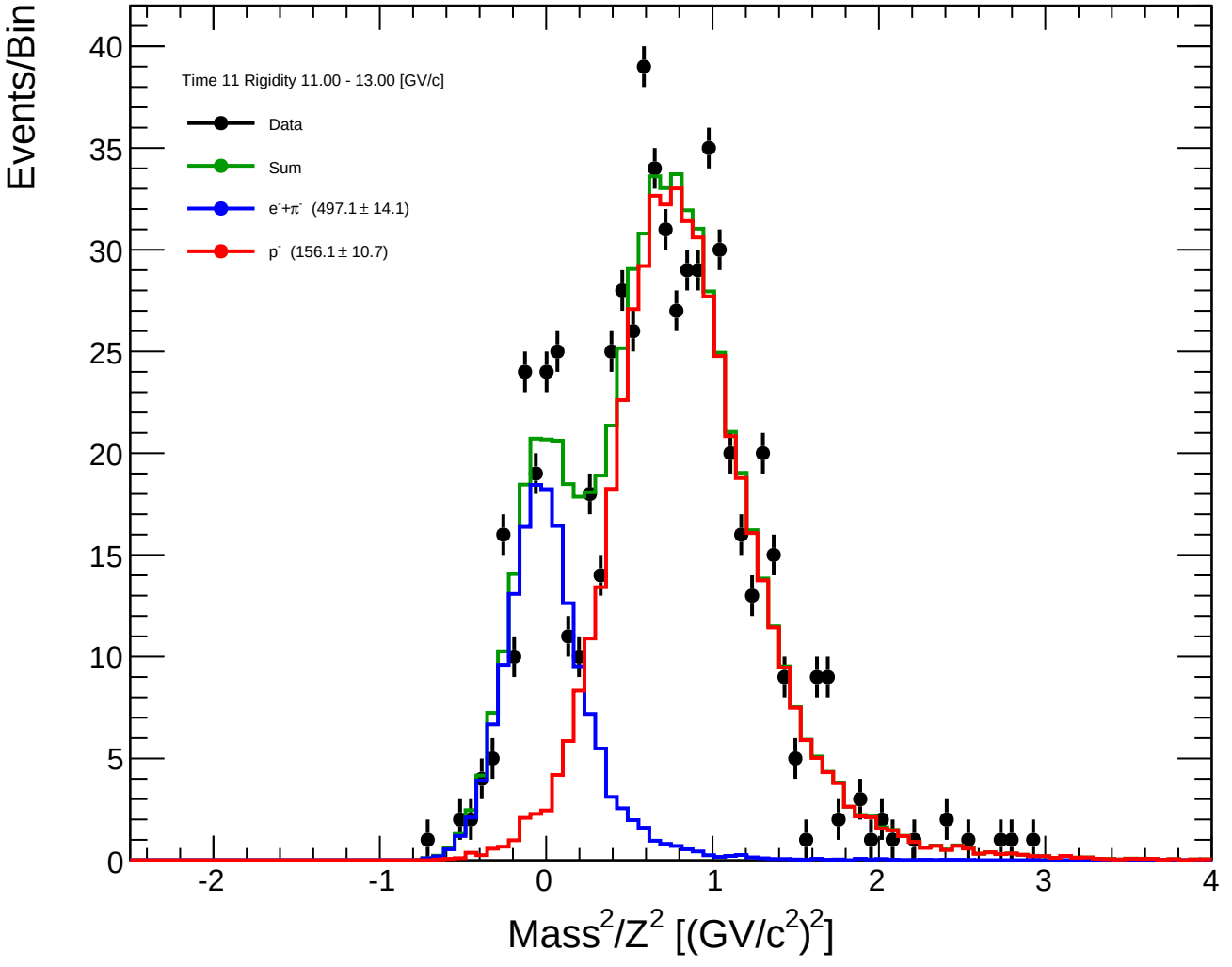

Time 11 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (334.0 ± 7.9)
p⁻ (10.4 ± 8.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

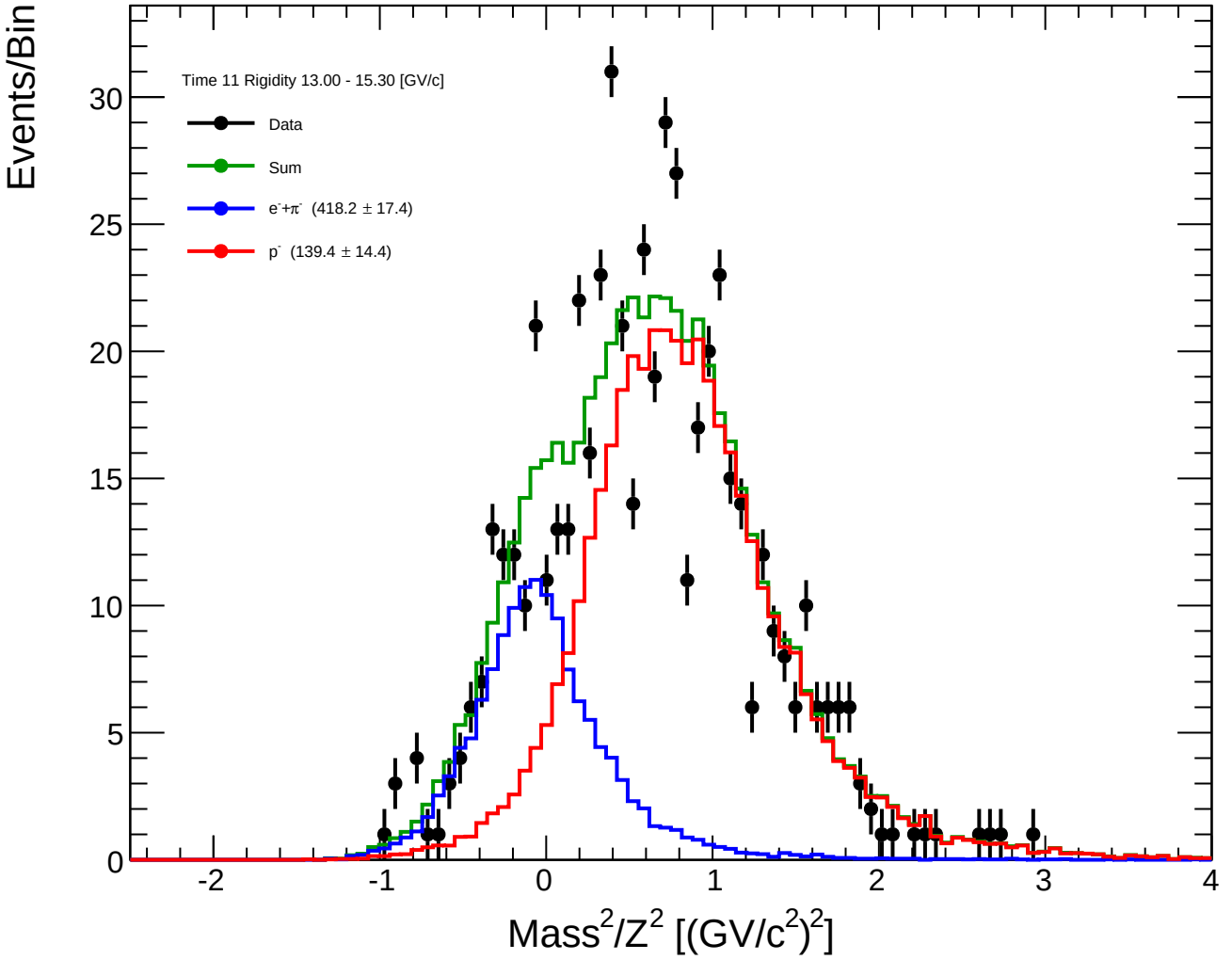

Time 11 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (342.1± 8.4)
p⁻ (5.7 ± 6.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

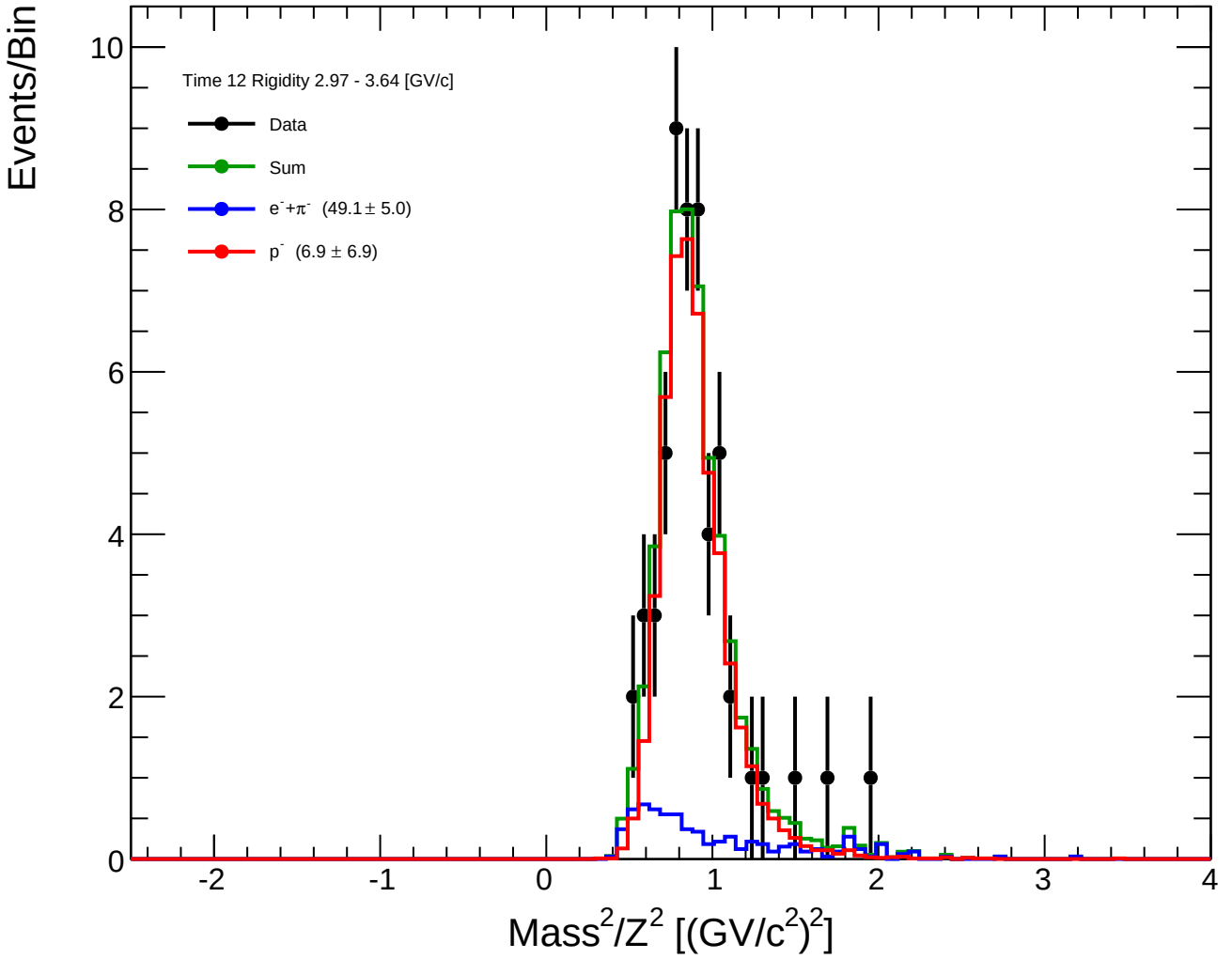

Time 11 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (315.8 ± 7.9)
p⁻ (27.3 ± 5.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

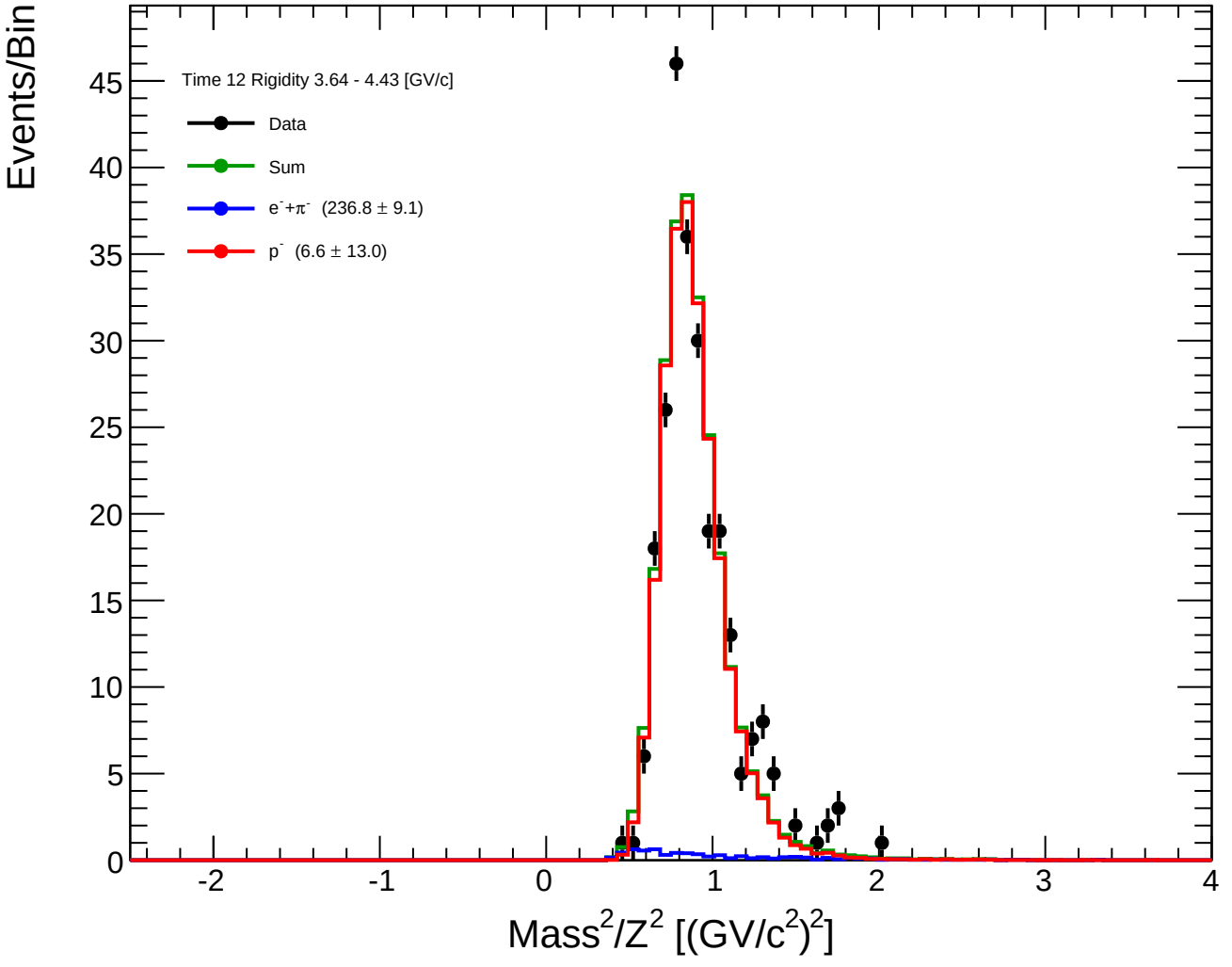

Time 11 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (316.1± 8.1)
p⁻ (57.7 ± 5.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

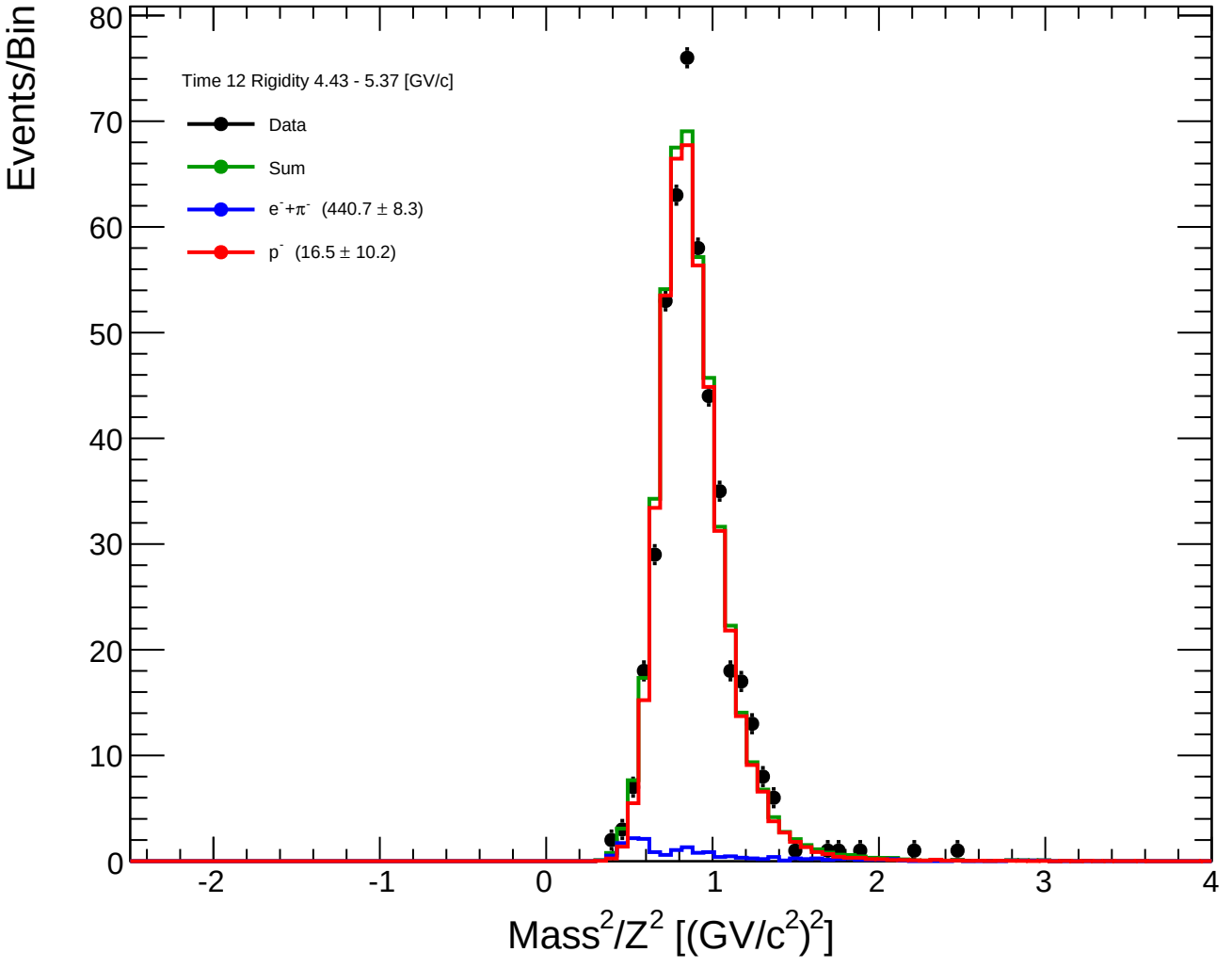

Time 11 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (561.5 ± 13.2)
p⁻ (157.8 ± 9.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

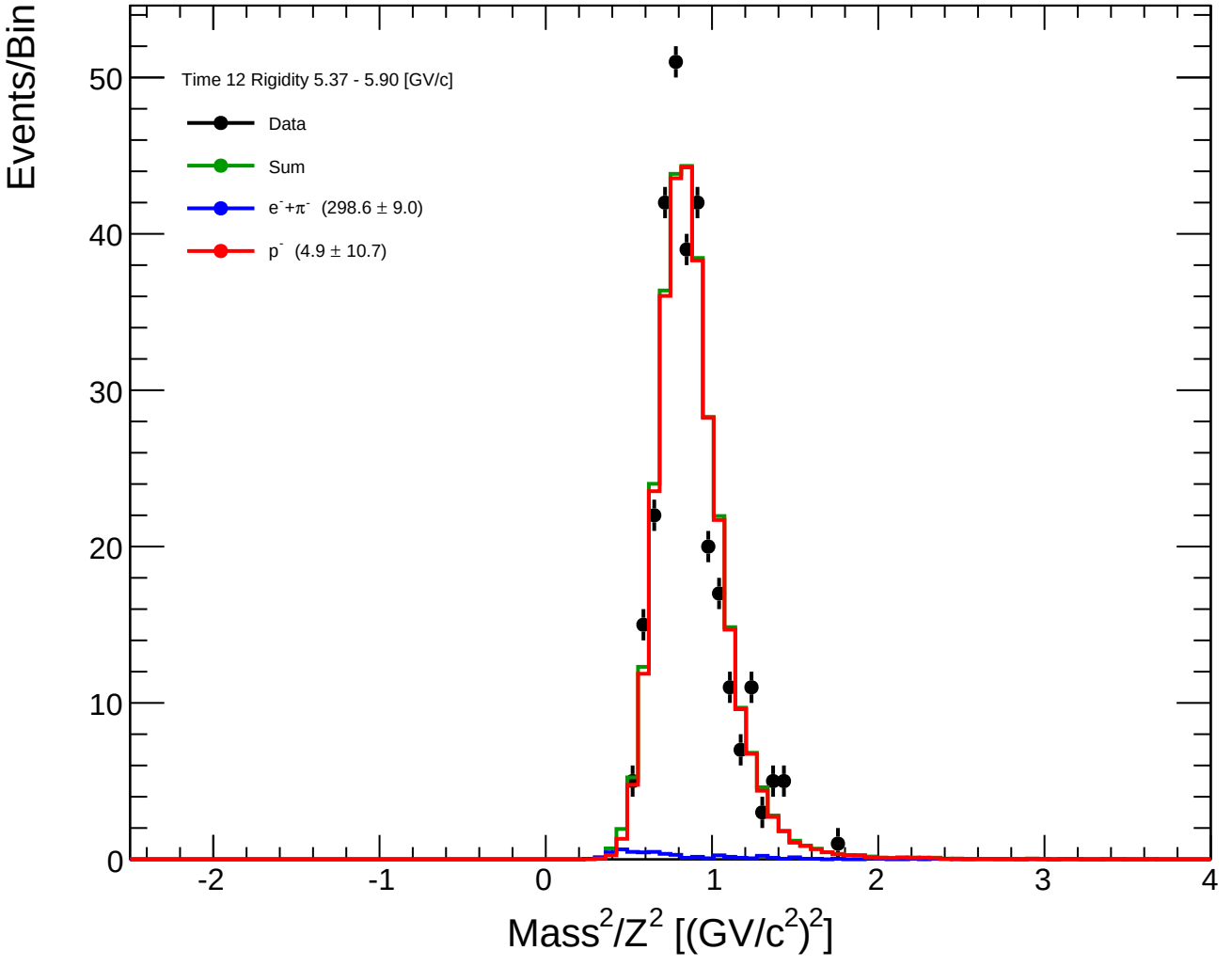

Time 11 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (497.1 ± 14.1)
p⁻ (156.1 ± 10.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

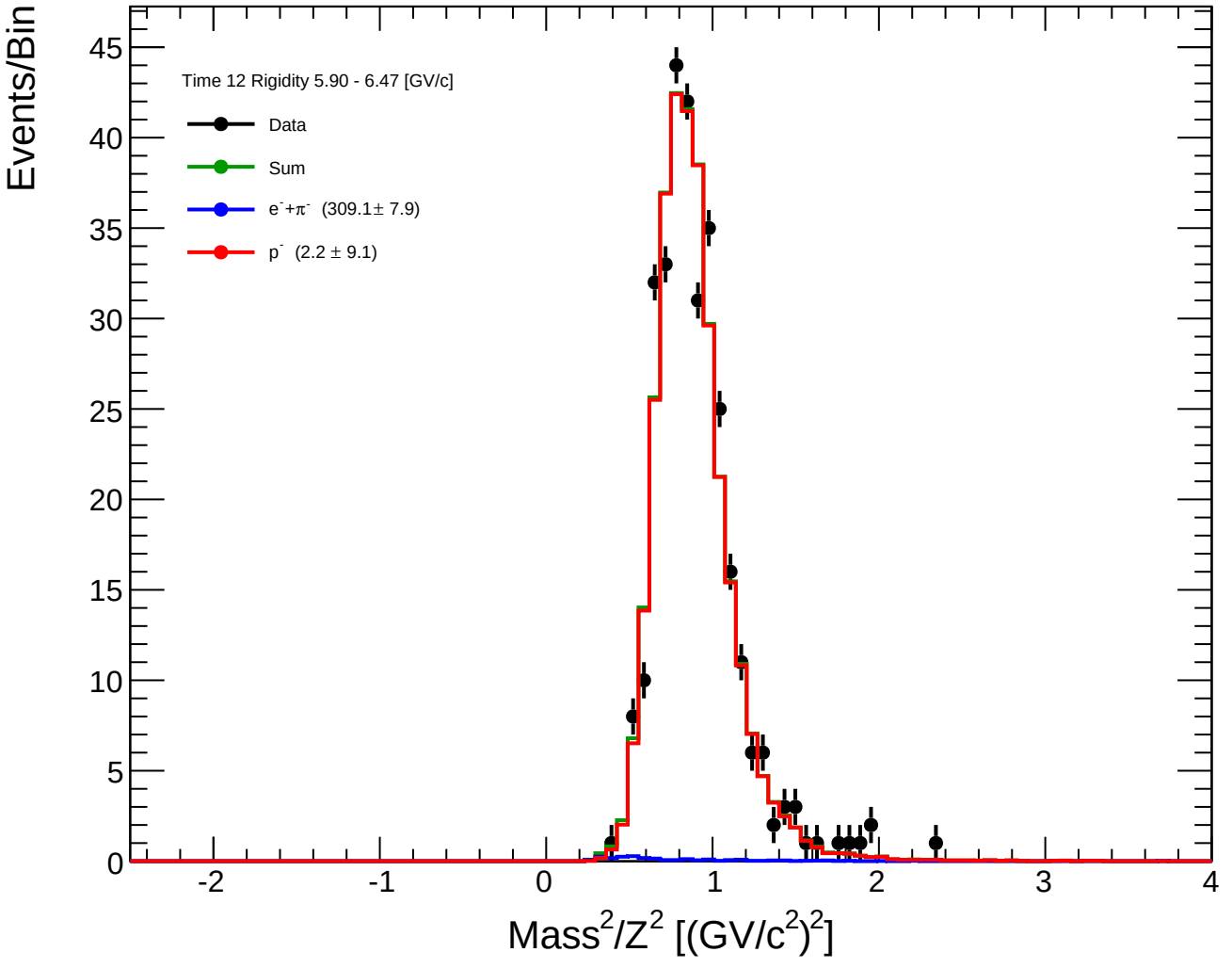

Time 11 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (418.2 ± 17.4)
p⁻ (139.4 ± 14.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

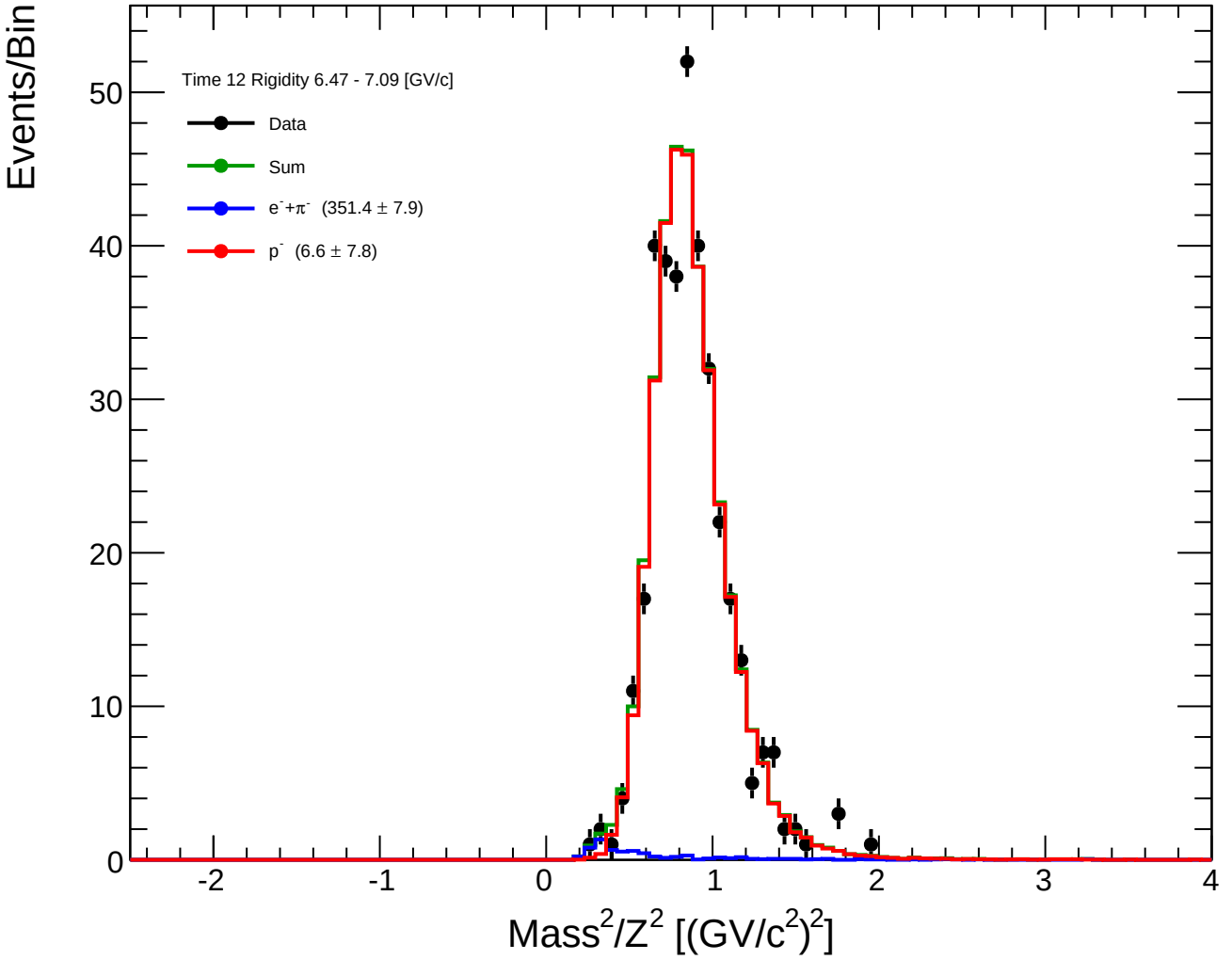

Events/Bin
Time 12 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (49.1± 5.0)
p⁻ (6.9 ± 6.9)
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
-2
-1
0
1
2
3
4

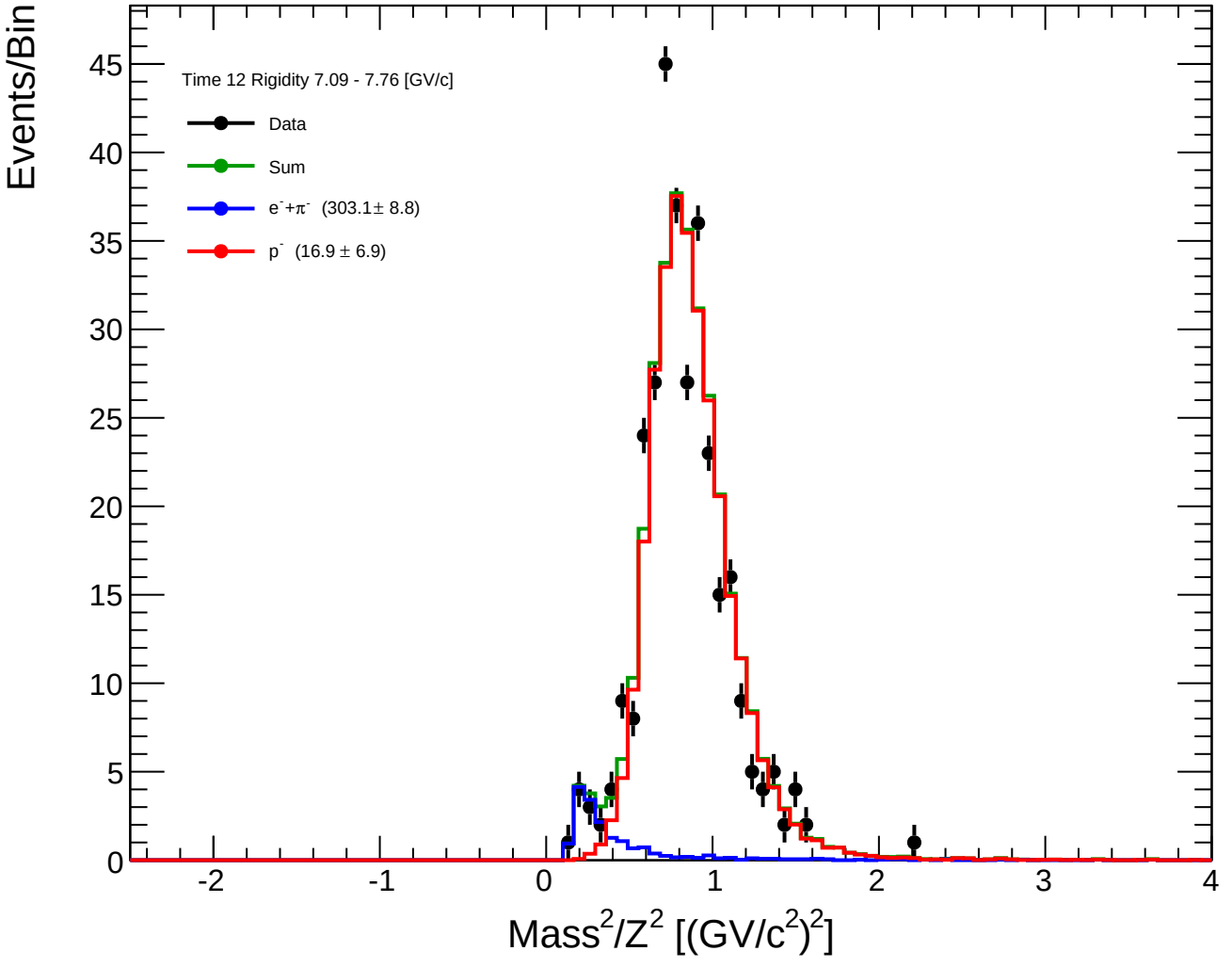

Time 12 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (236.8 ± 9.1)
p⁻ (6.6 ± 13.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

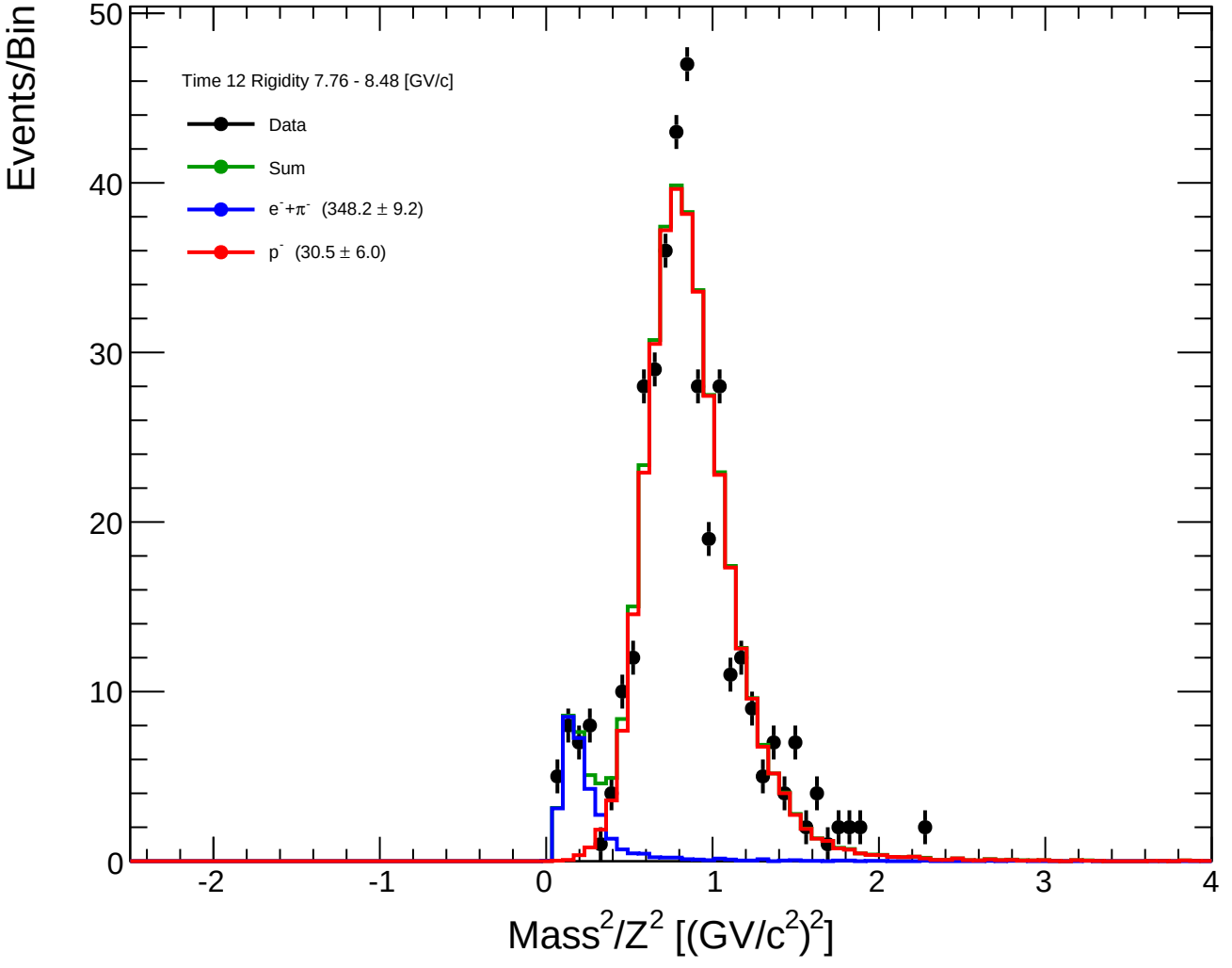

Time 12 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (440.7 ± 8.3)
p⁻ (16.5 ± 10.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
-2
-1
0
1
2
3
4

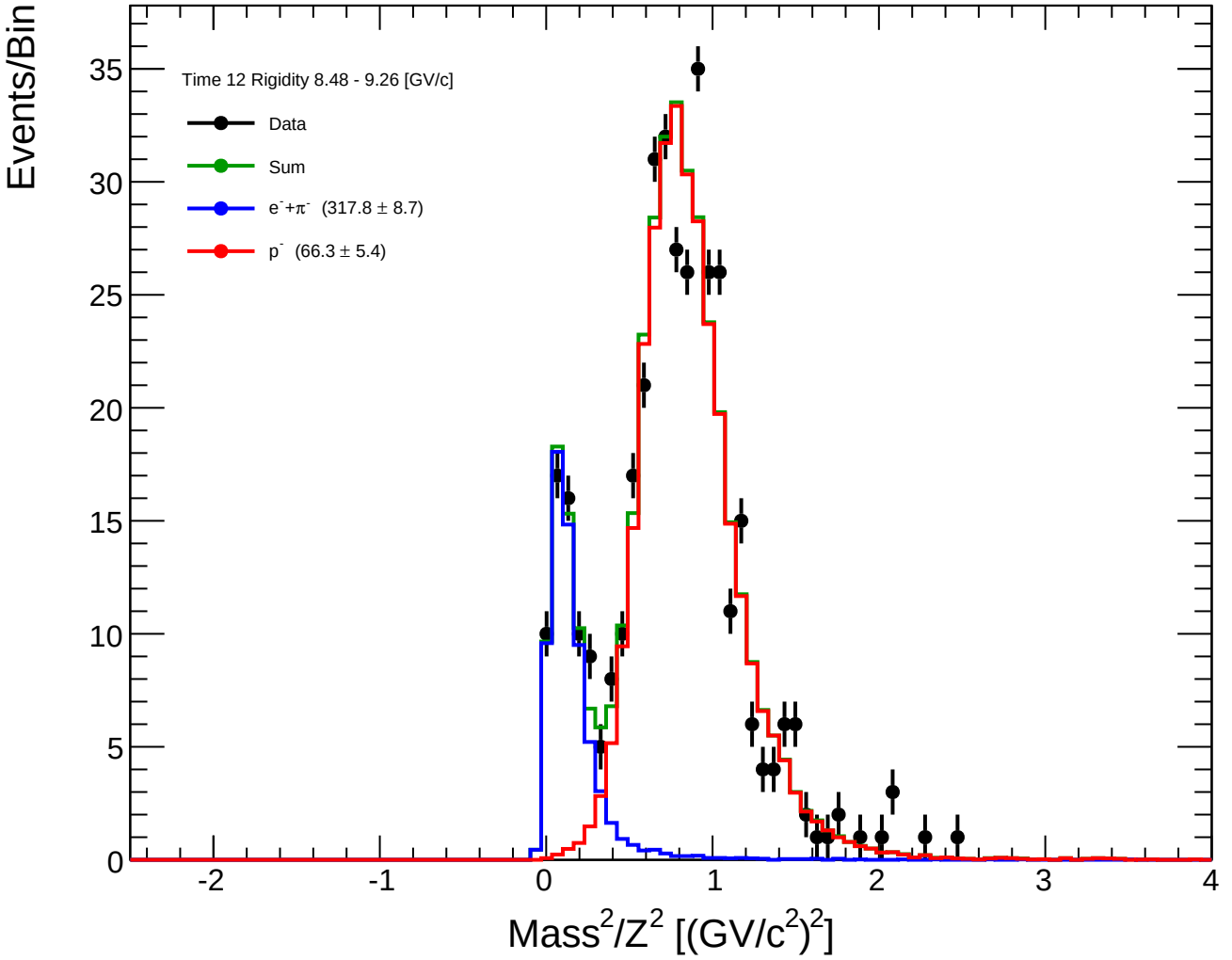

Time 12 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (298.6 ± 9.0)
p⁻ (4.9 ± 10.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

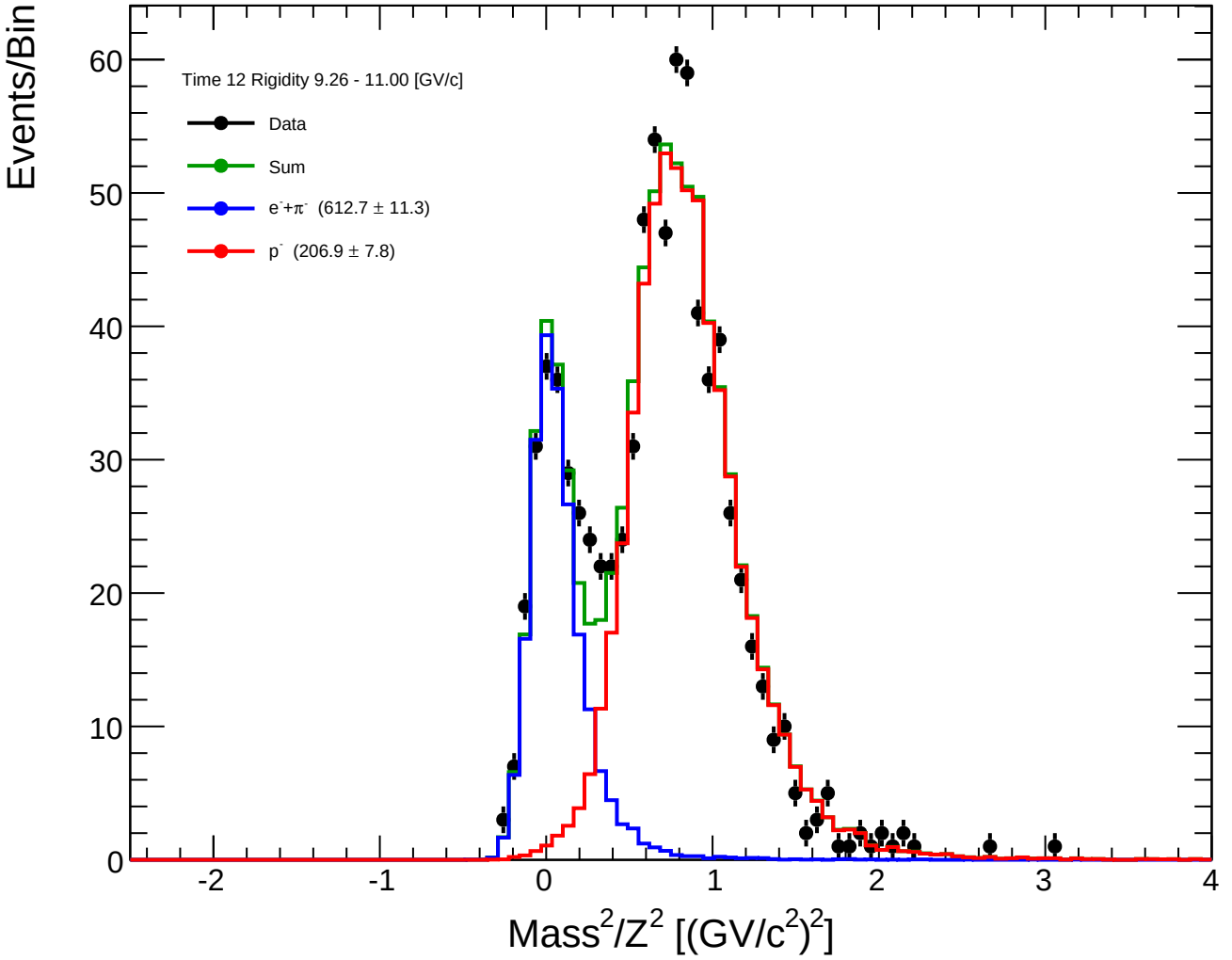

Time 12 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (309.1± 7.9)
p⁻ (2.2 ± 9.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

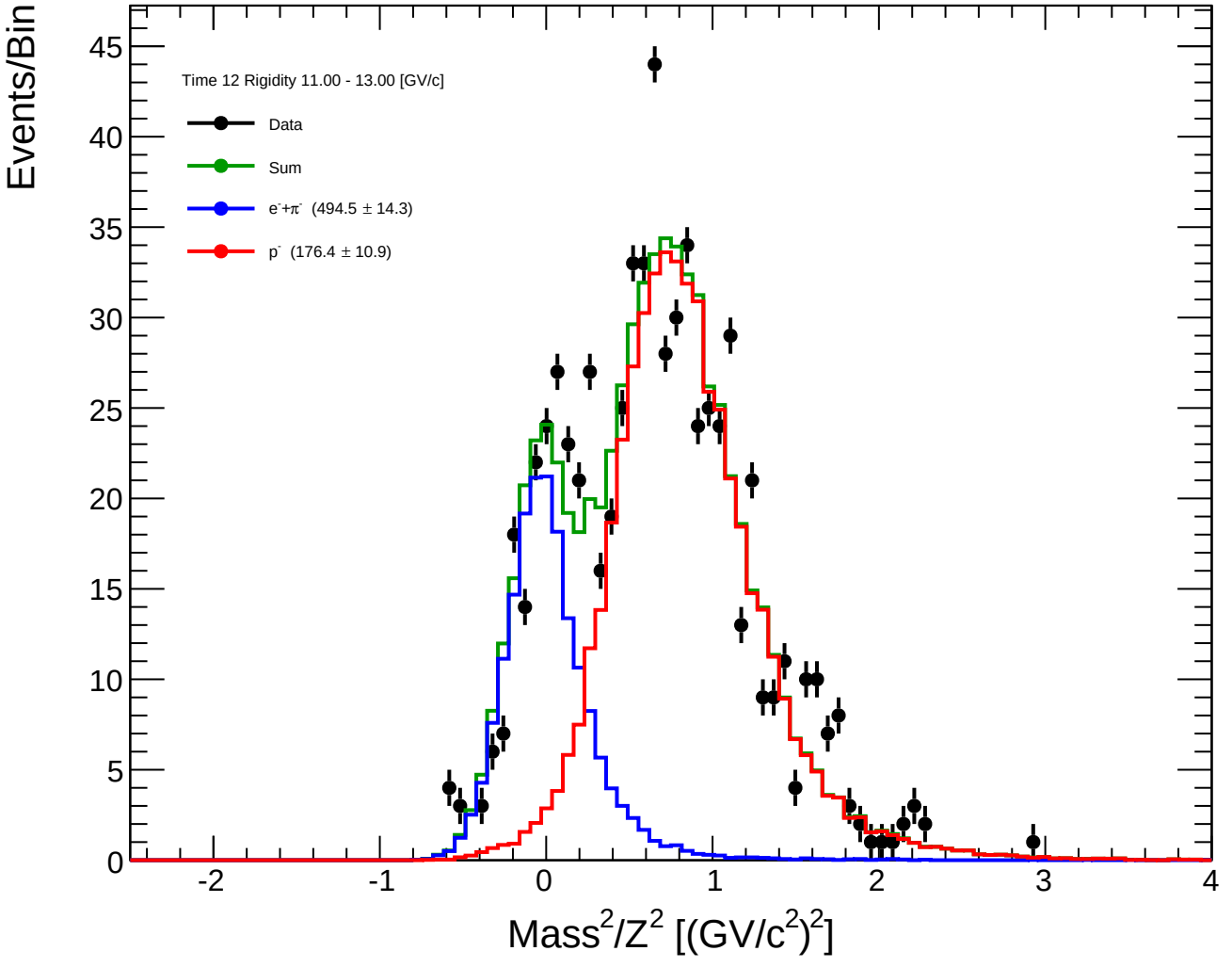

Time 12 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (351.4 ± 7.9)
p⁻ (6.6 ± 7.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

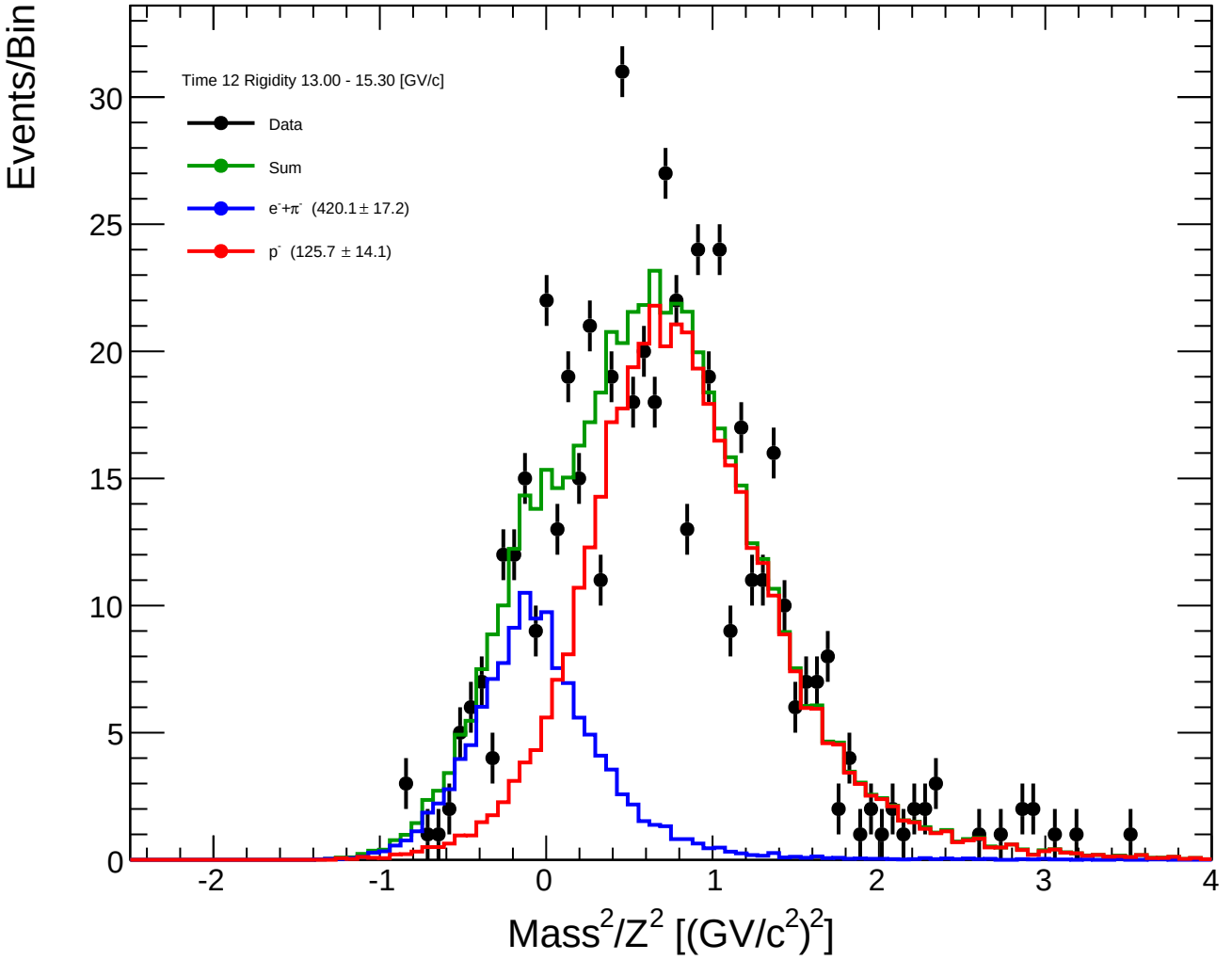

Time 12 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (303.1± 8.8)
p⁻ (16.9 ± 6.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

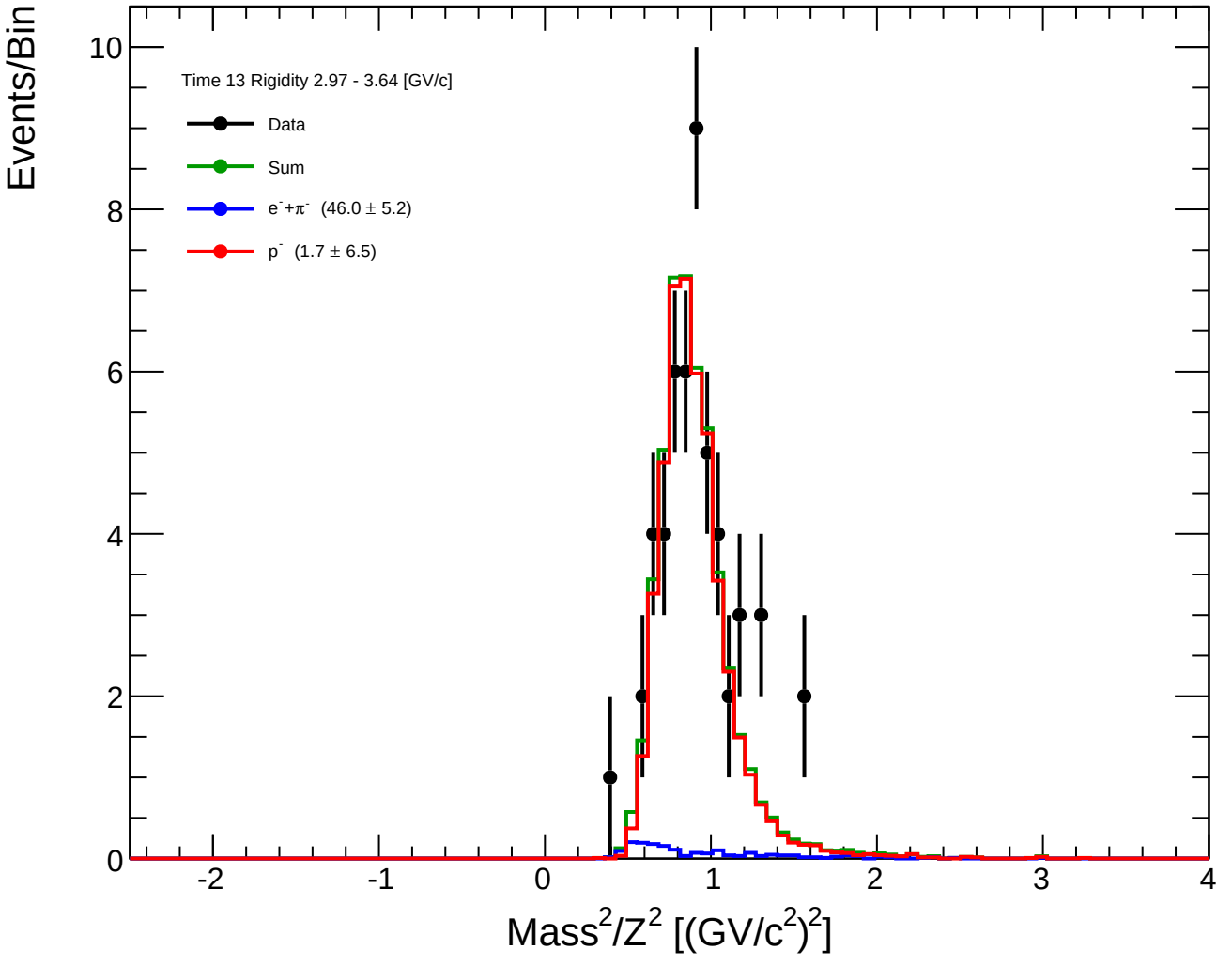

Time 12 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (348.2 ± 9.2)
p⁻ (30.5 ± 6.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

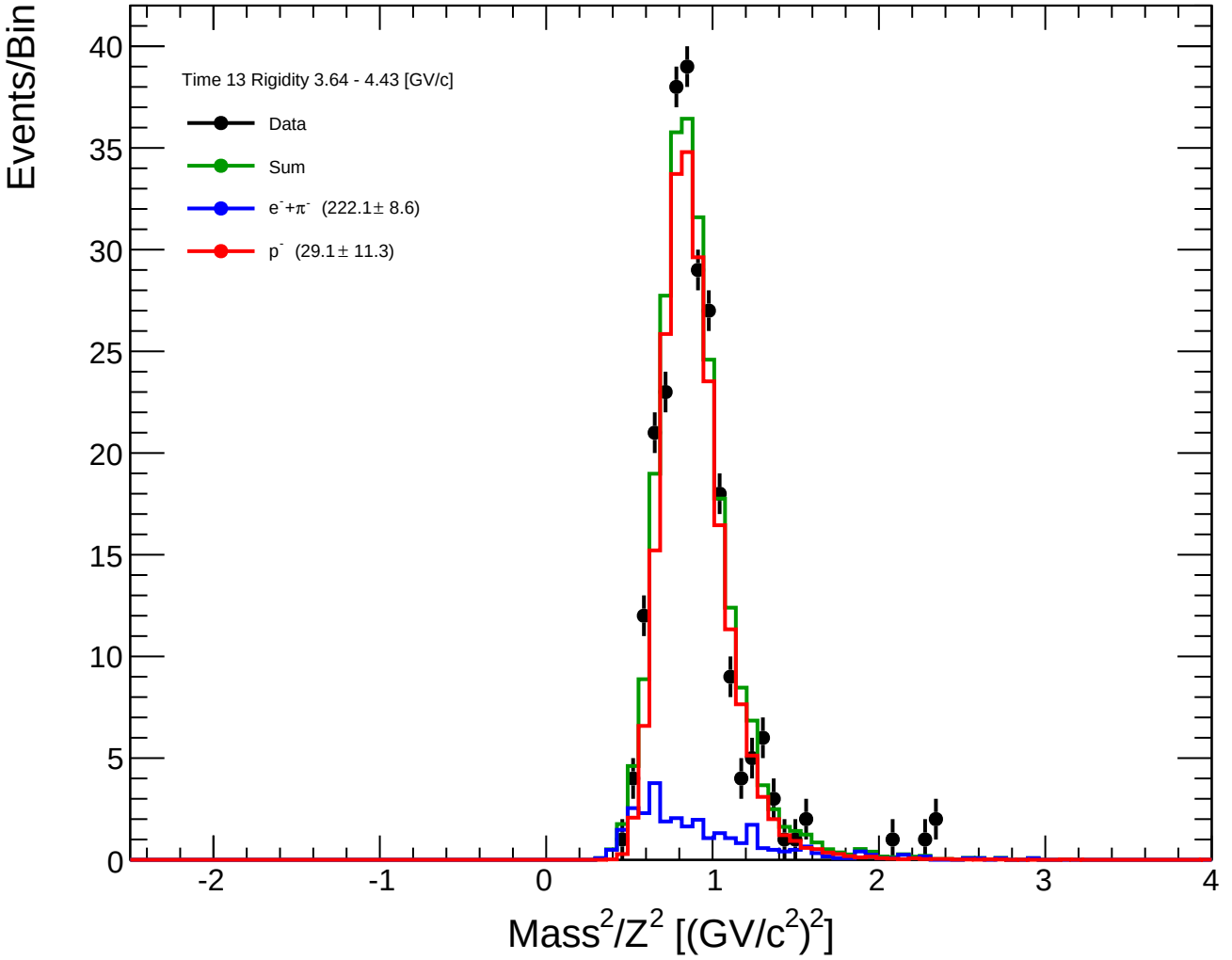

Time 12 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (317.8 ± 8.7)
p⁻ (66.3 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

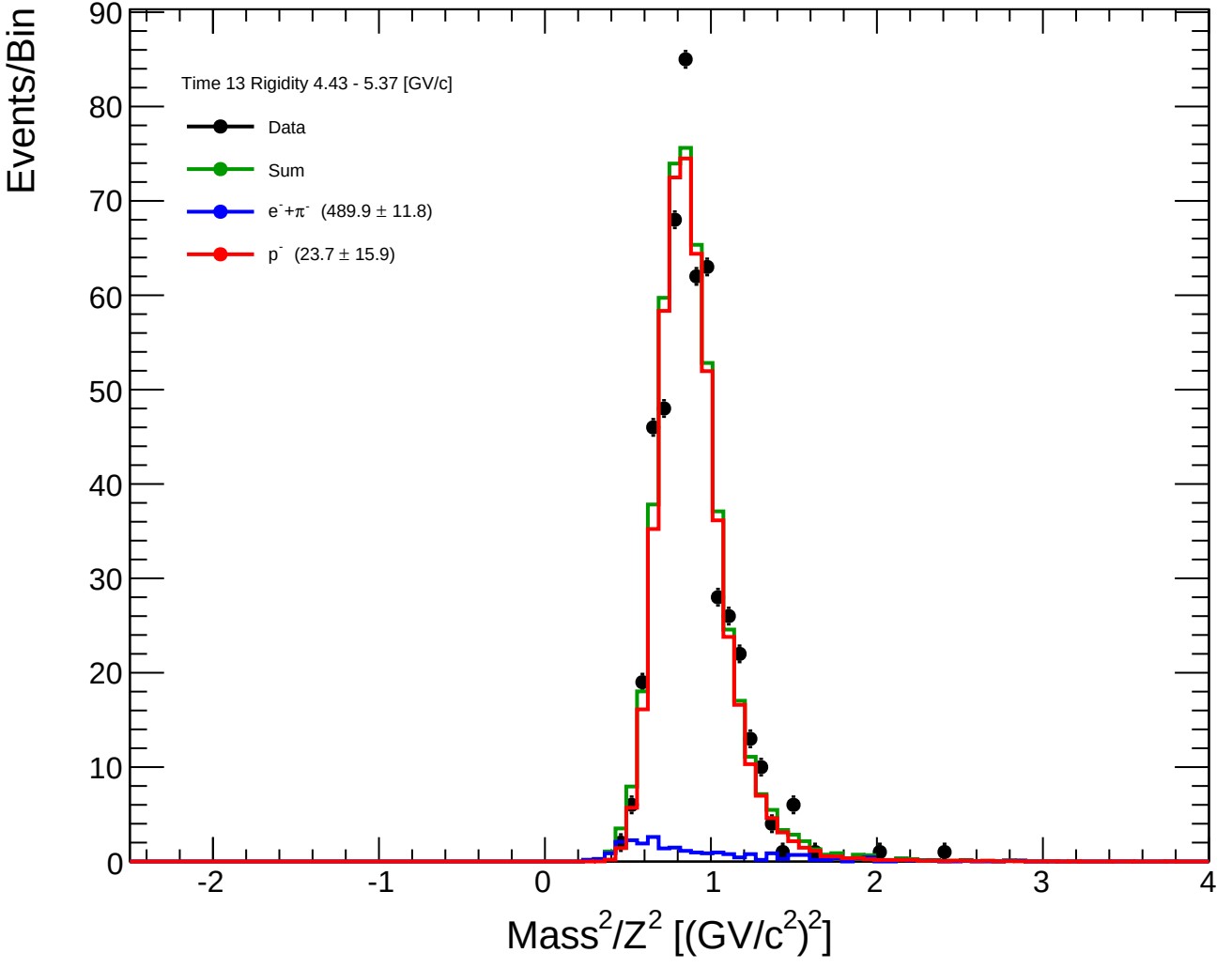

Time 12 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (612.7 ± 11.3)
p⁻ (206.9 ± 7.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

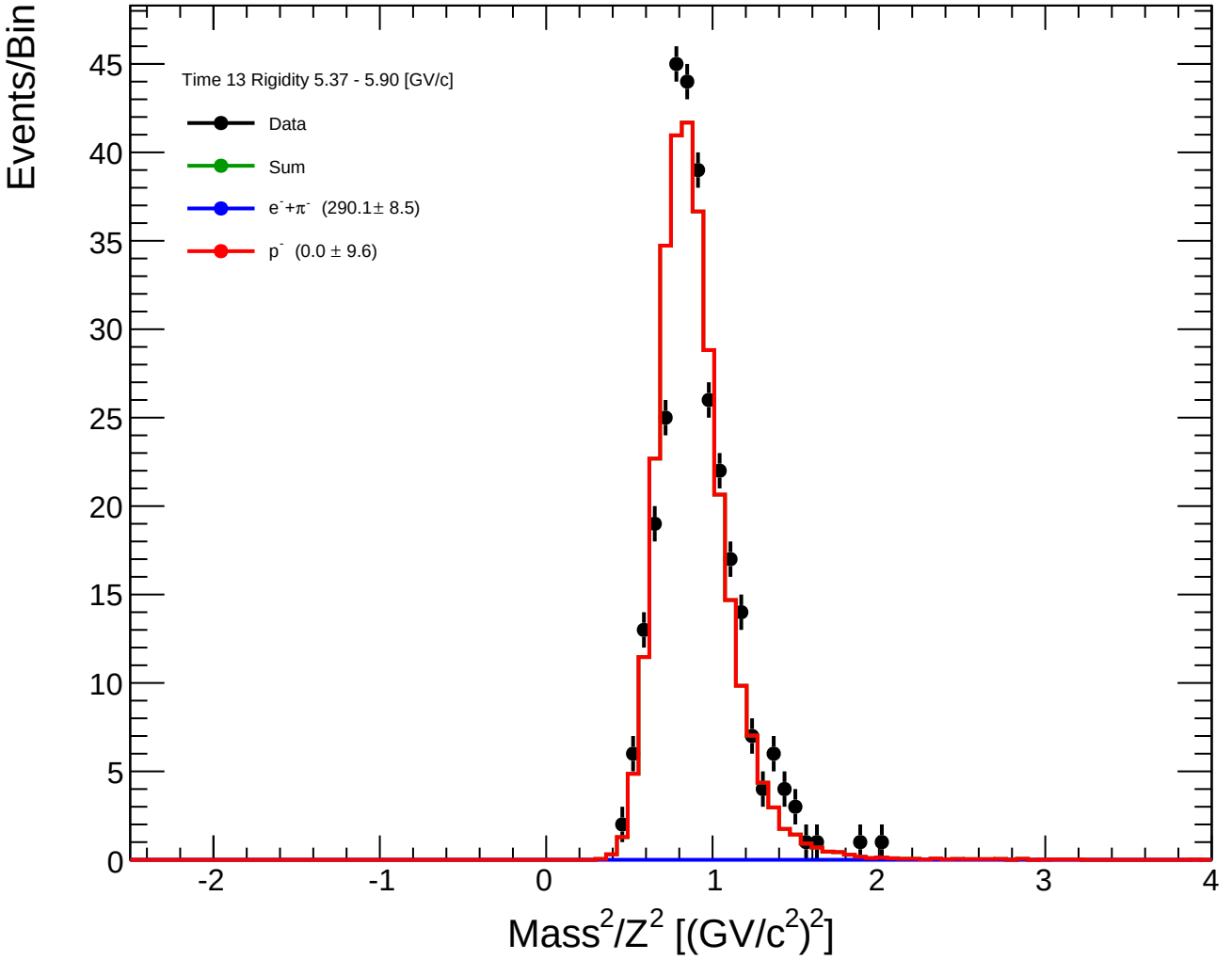

Time 12 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (494.5 ± 14.3)
p⁻ (176.4 ± 10.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

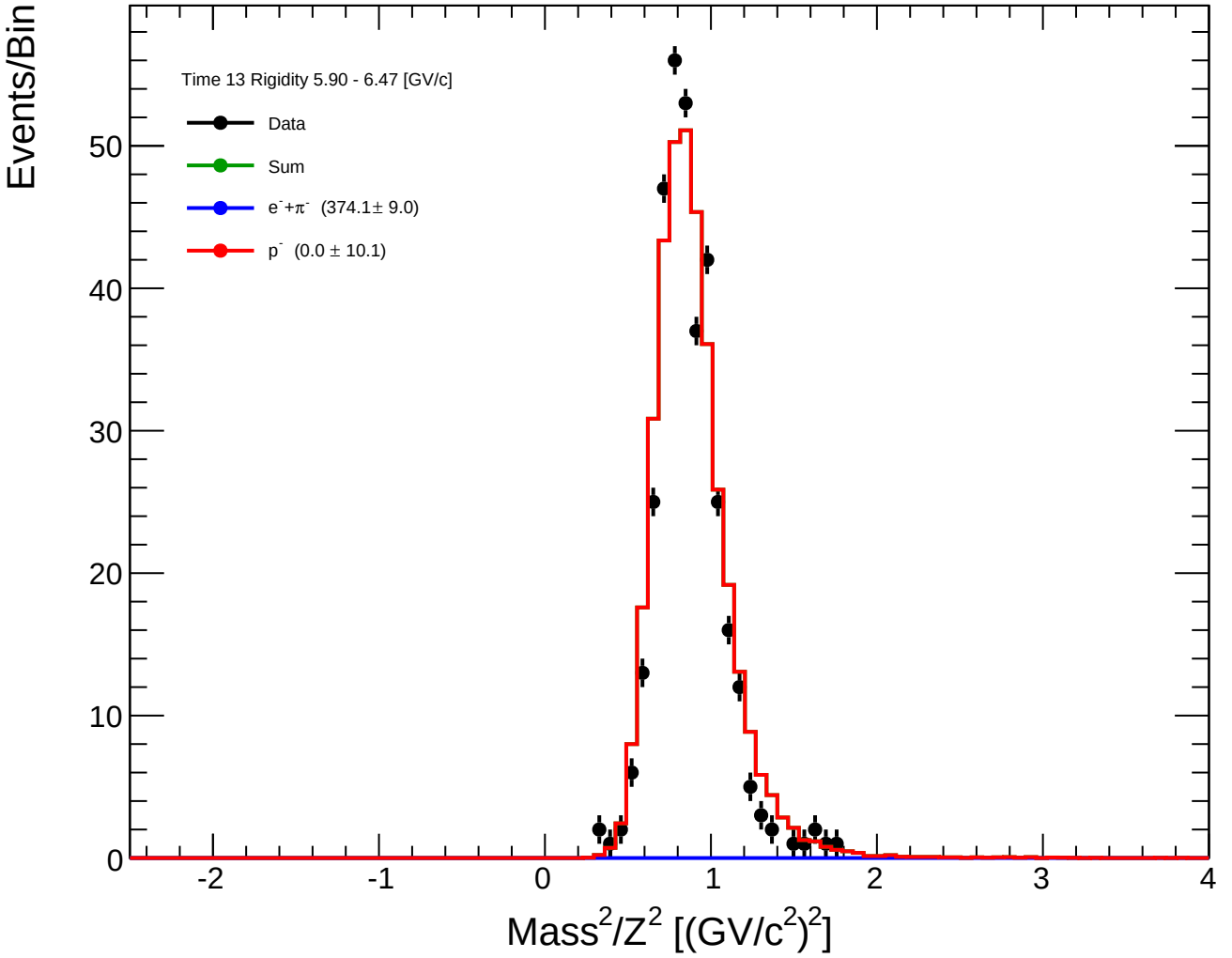

Time 12 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (420.1 ± 17.2)
p⁻ (125.7 ± 14.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

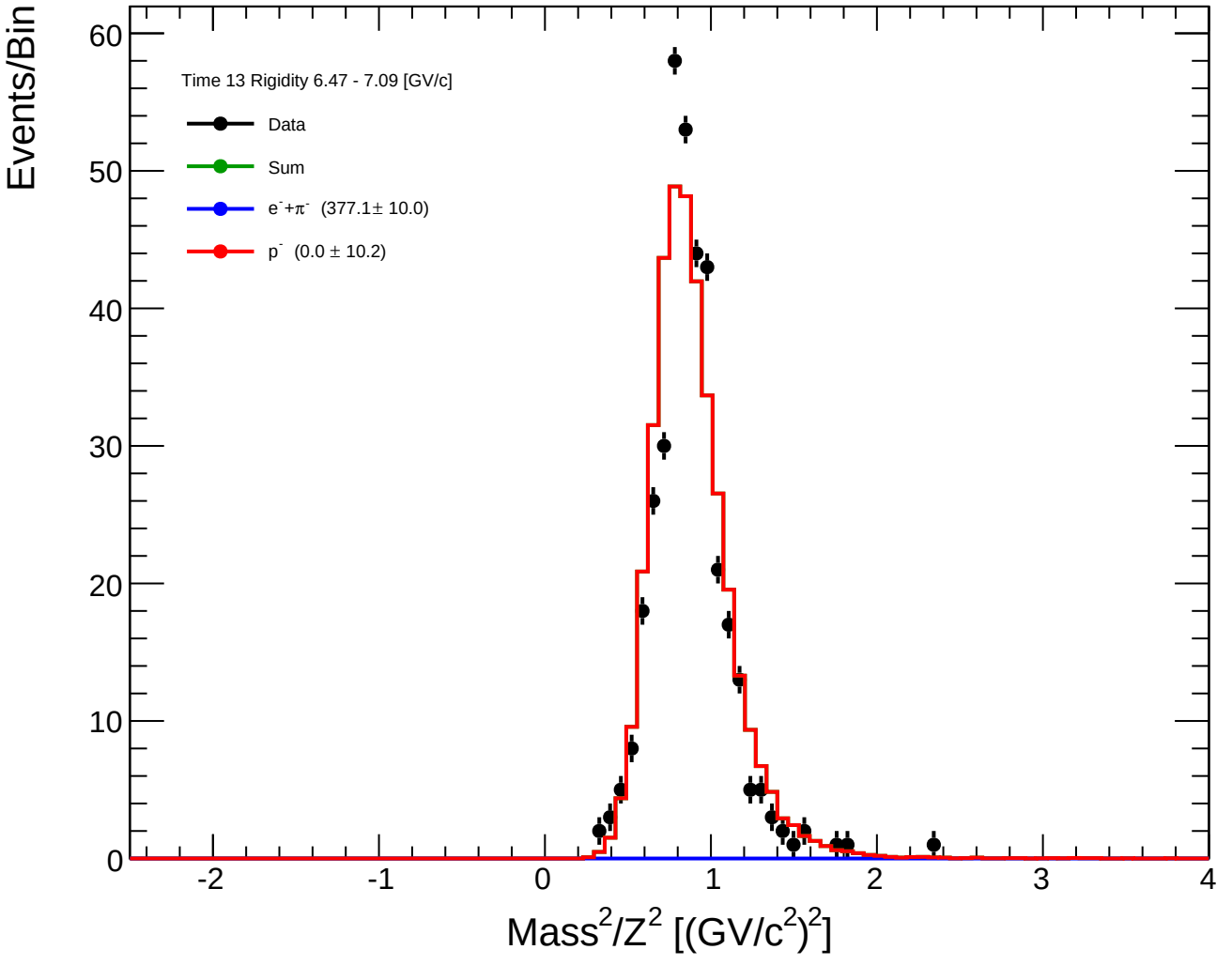

Events/Bin
Time 13 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (46.0 ± 5.2)
p⁻ (1.7 ± 6.5)
0
2
4
6
8
10
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

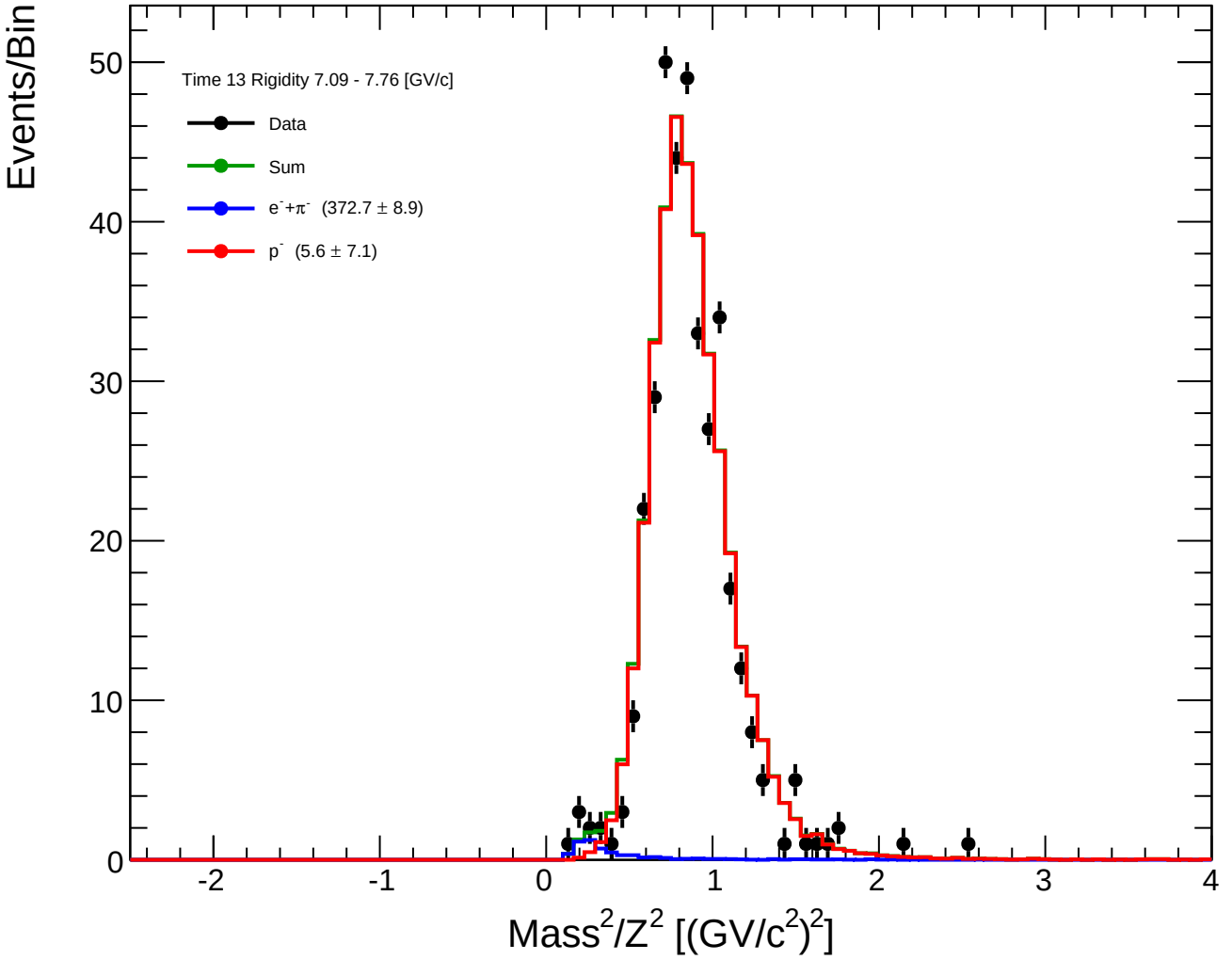

Time 13 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (222.1± 8.6)
p⁻ (29.1± 11.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

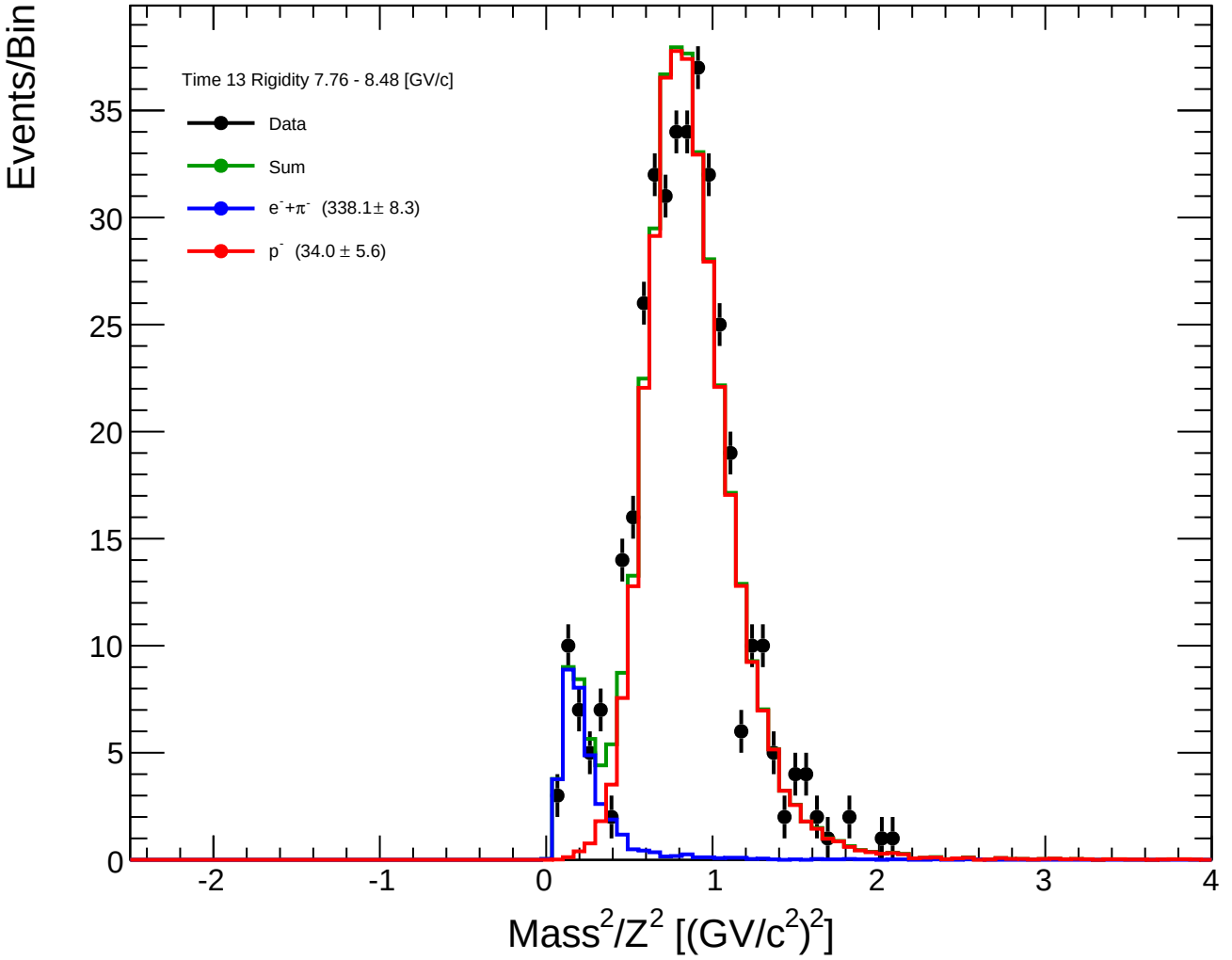

Time 13 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (489.9 ± 11.8)
p⁻ (23.7 ± 15.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
90
-2
-1
0
1
2
3
4

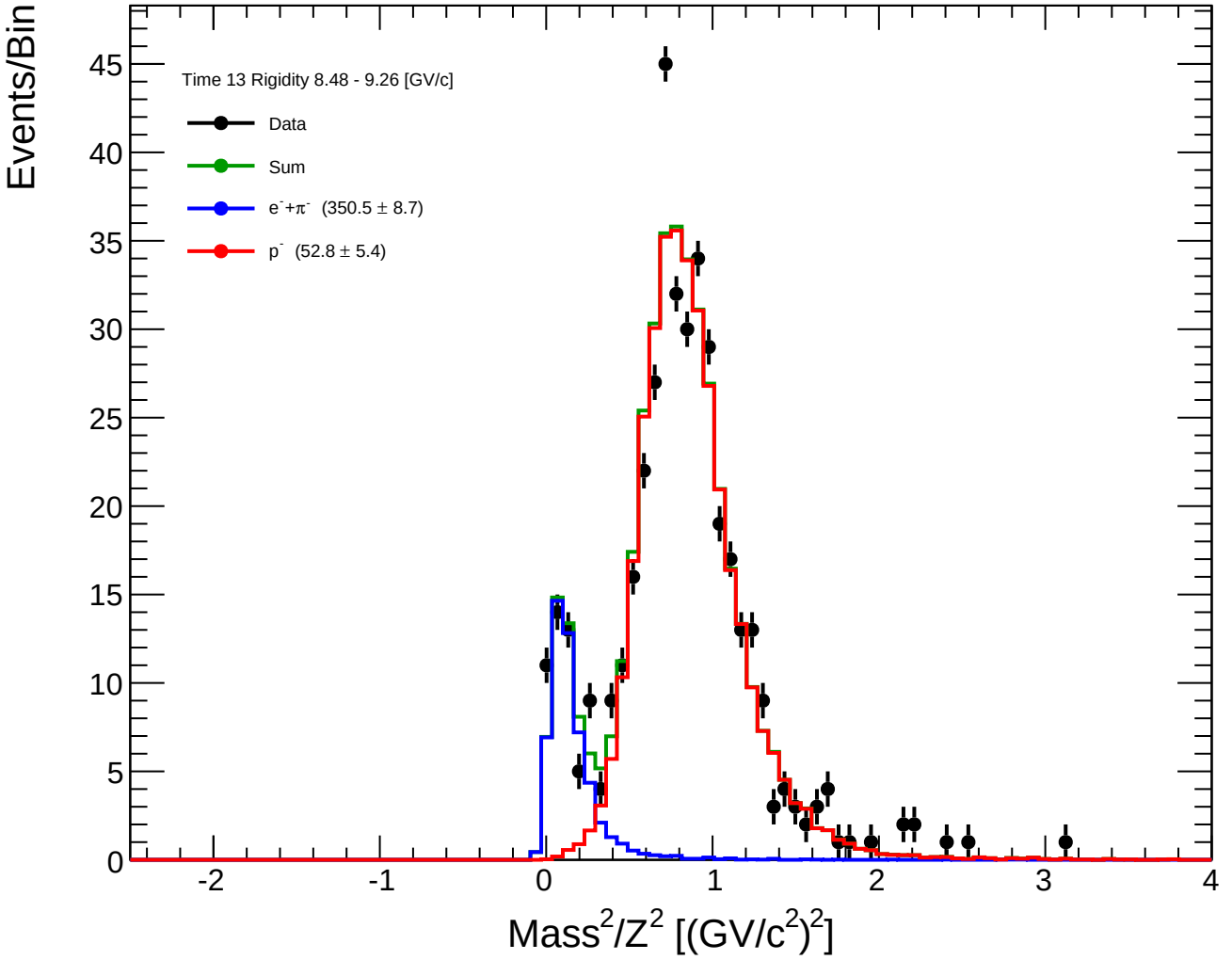

Time 13 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (290.1± 8.5)
p⁻ (0.0 ± 9.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

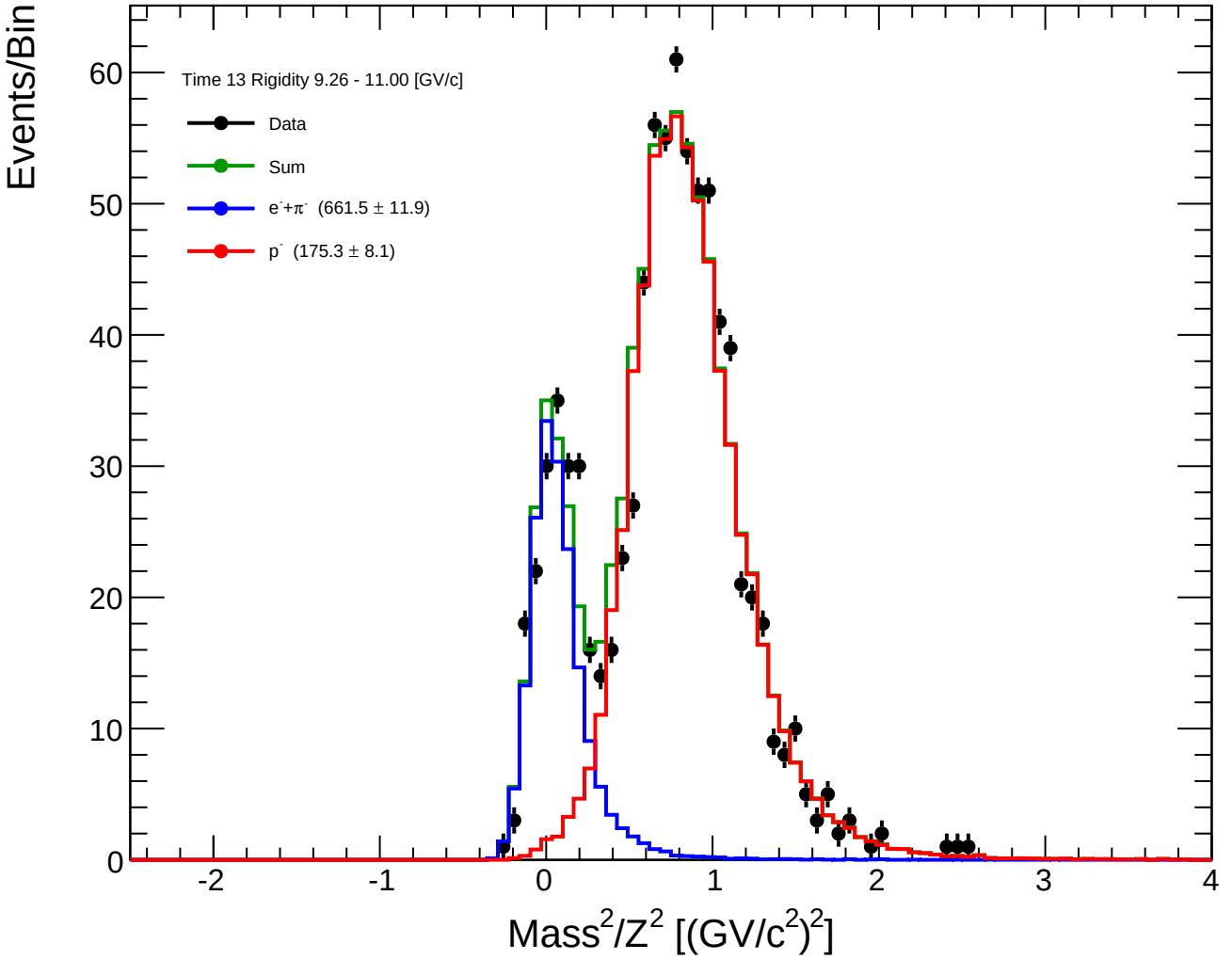

Time 13 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (374.1± 9.0)
p⁻ (0.0 ± 10.1)
Events/Bin
0
10
20
30
40
50
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

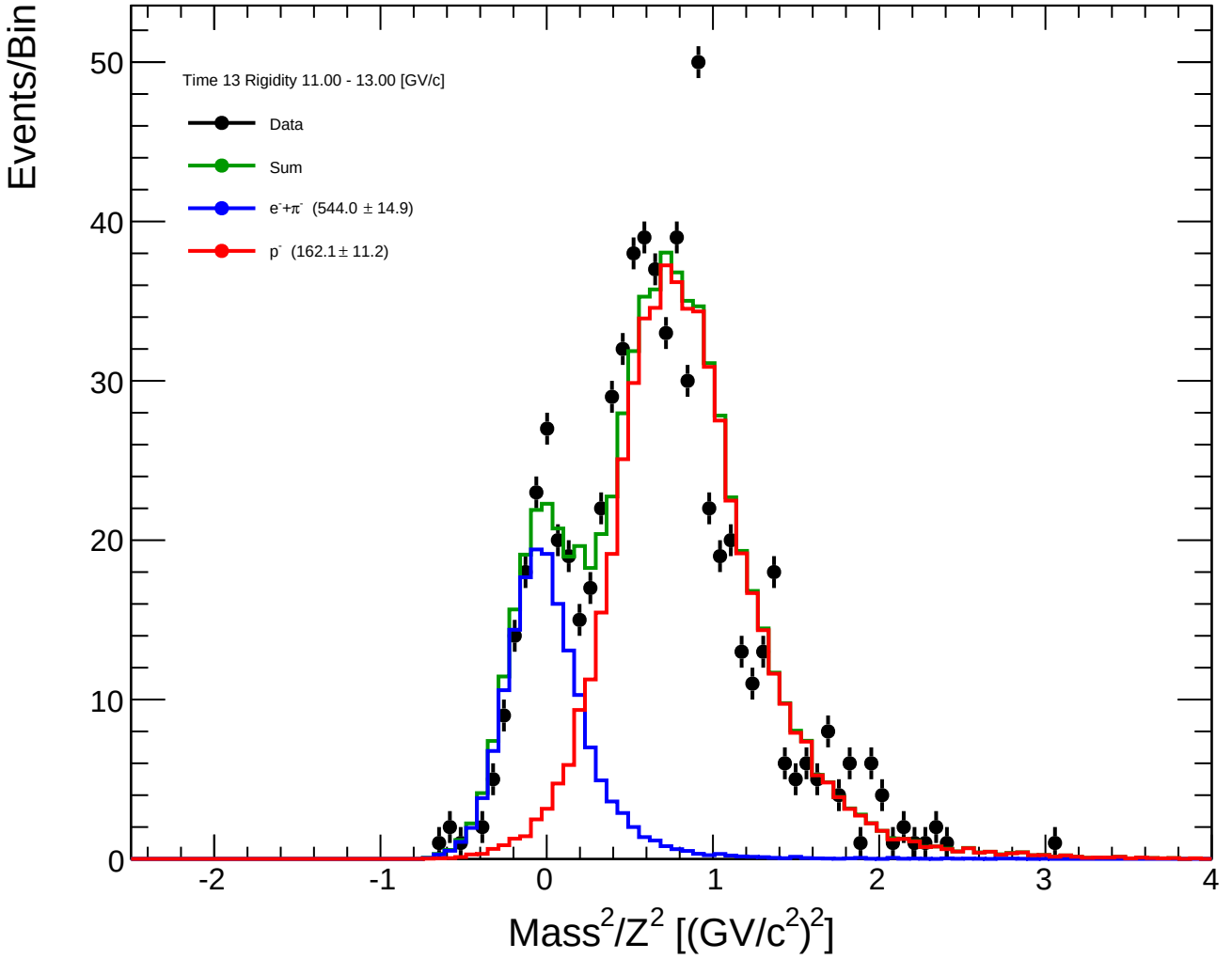

Time 13 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (377.1± 10.0)
p⁻ (0.0 ± 10.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

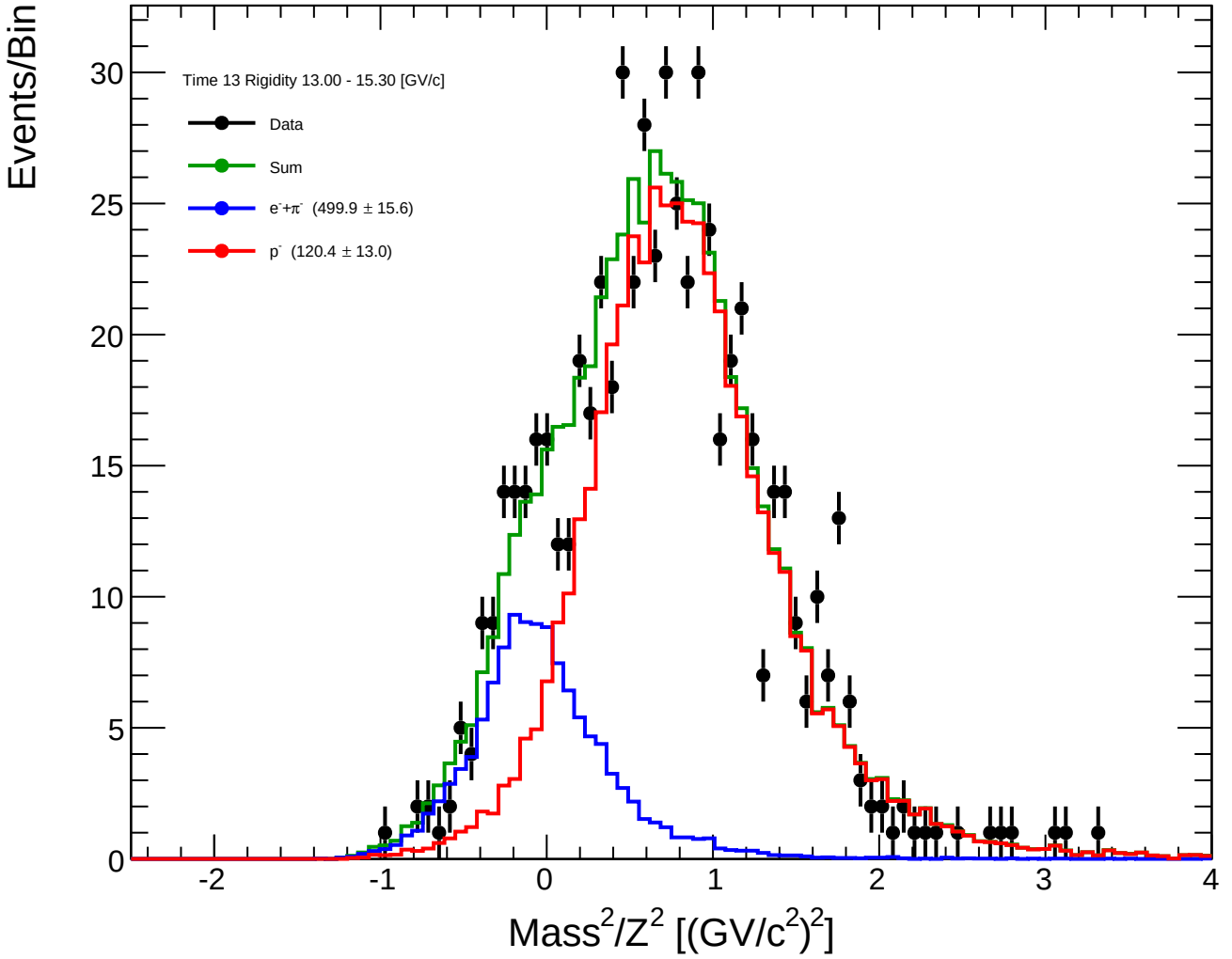

Time 13 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (372.7 ± 8.9)
p⁻ (5.6 ± 7.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

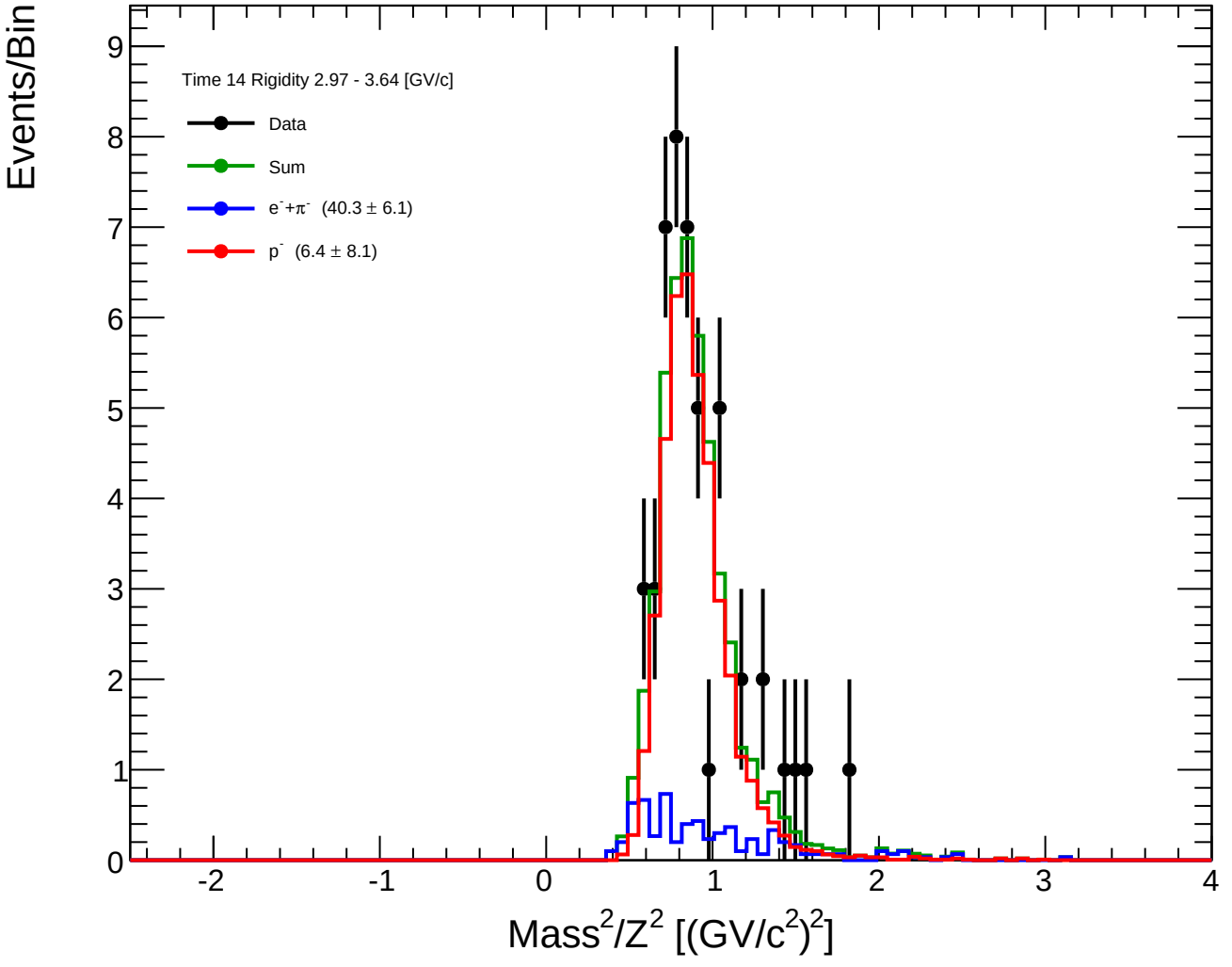

Time 13 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (338.1± 8.3)
p⁻ (34.0 ± 5.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

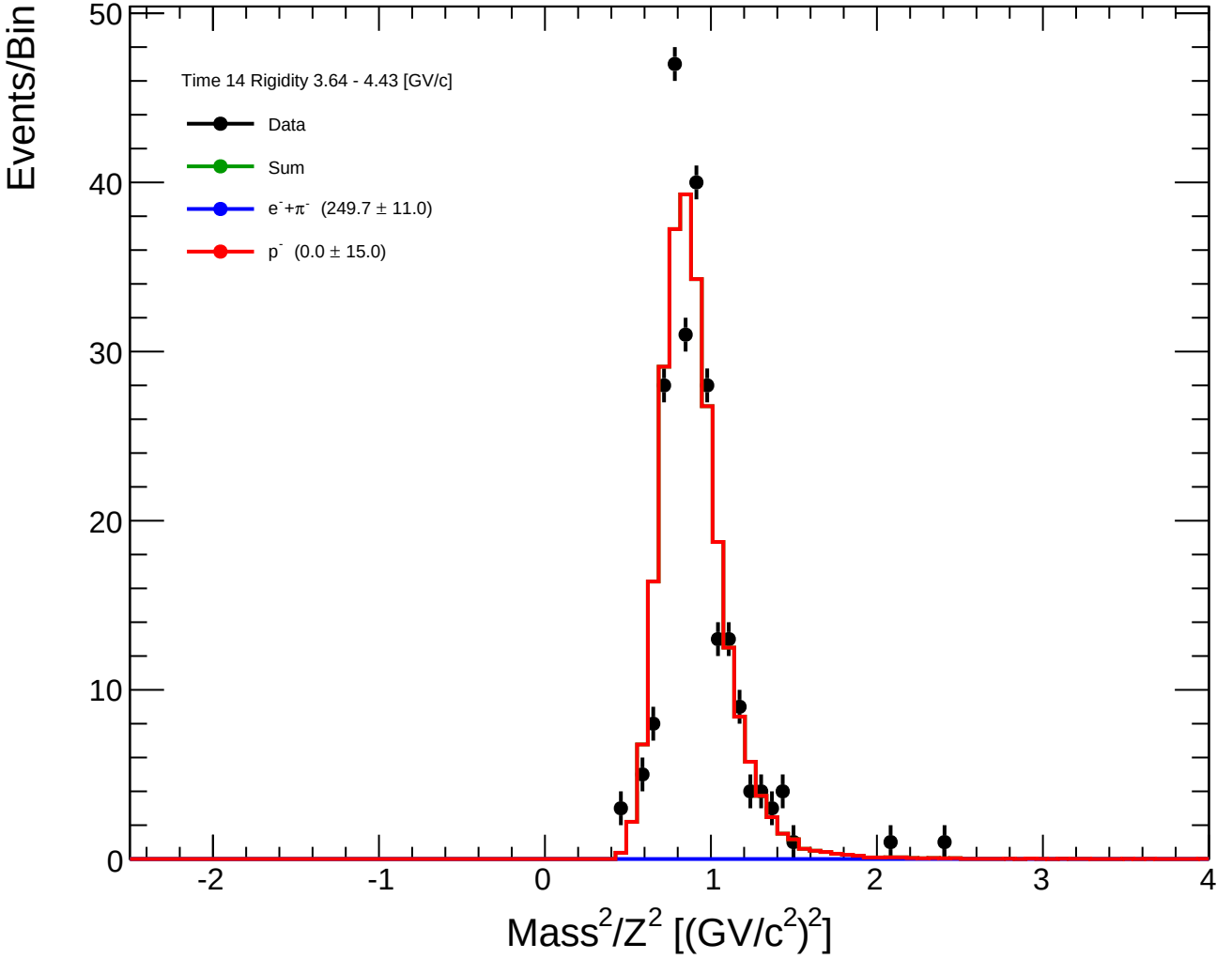

Time 13 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (350.5 ± 8.7)
p⁻ (52.8 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

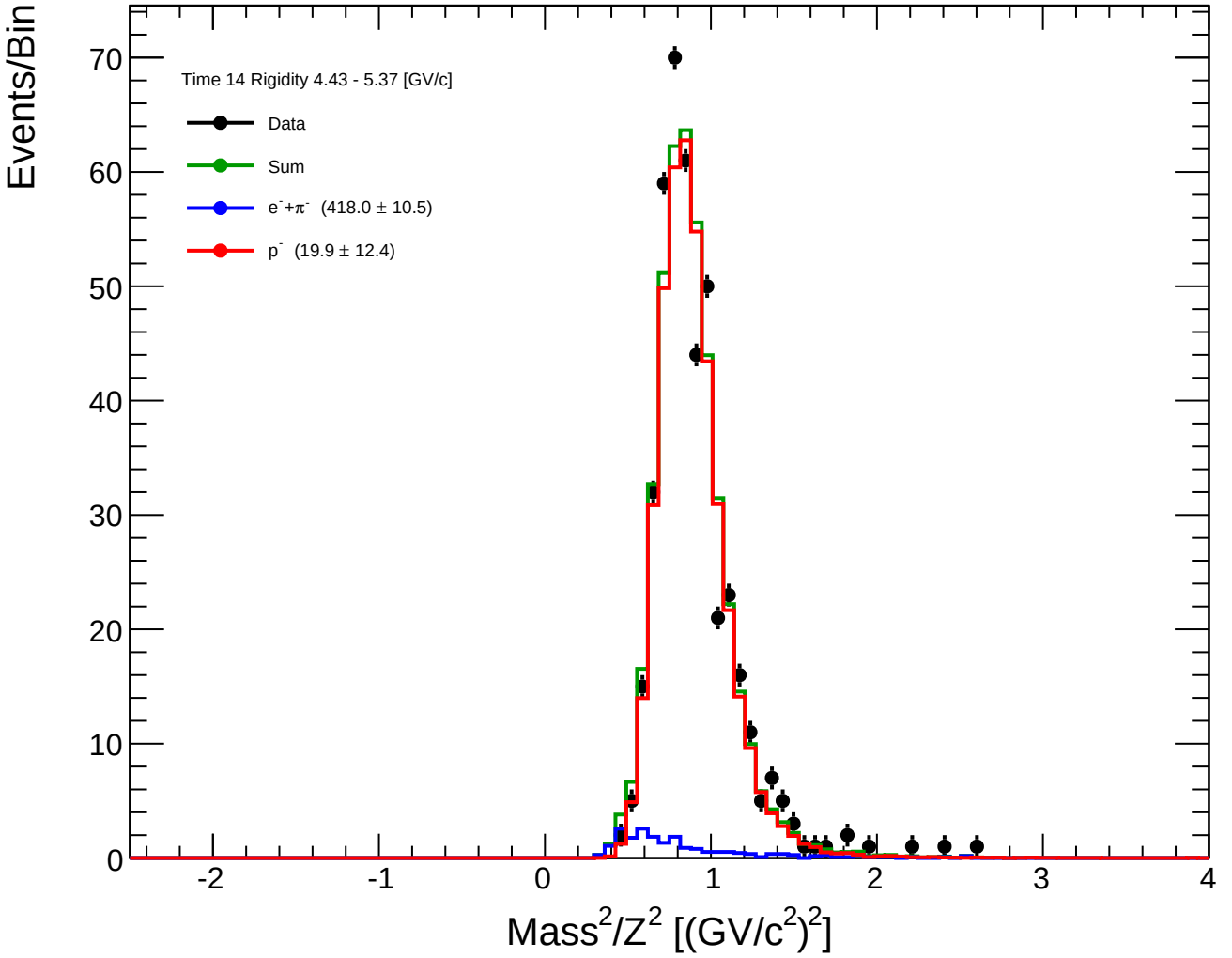

Time 13 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (661.5 ± 11.9)
p⁻ (175.3 ± 8.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

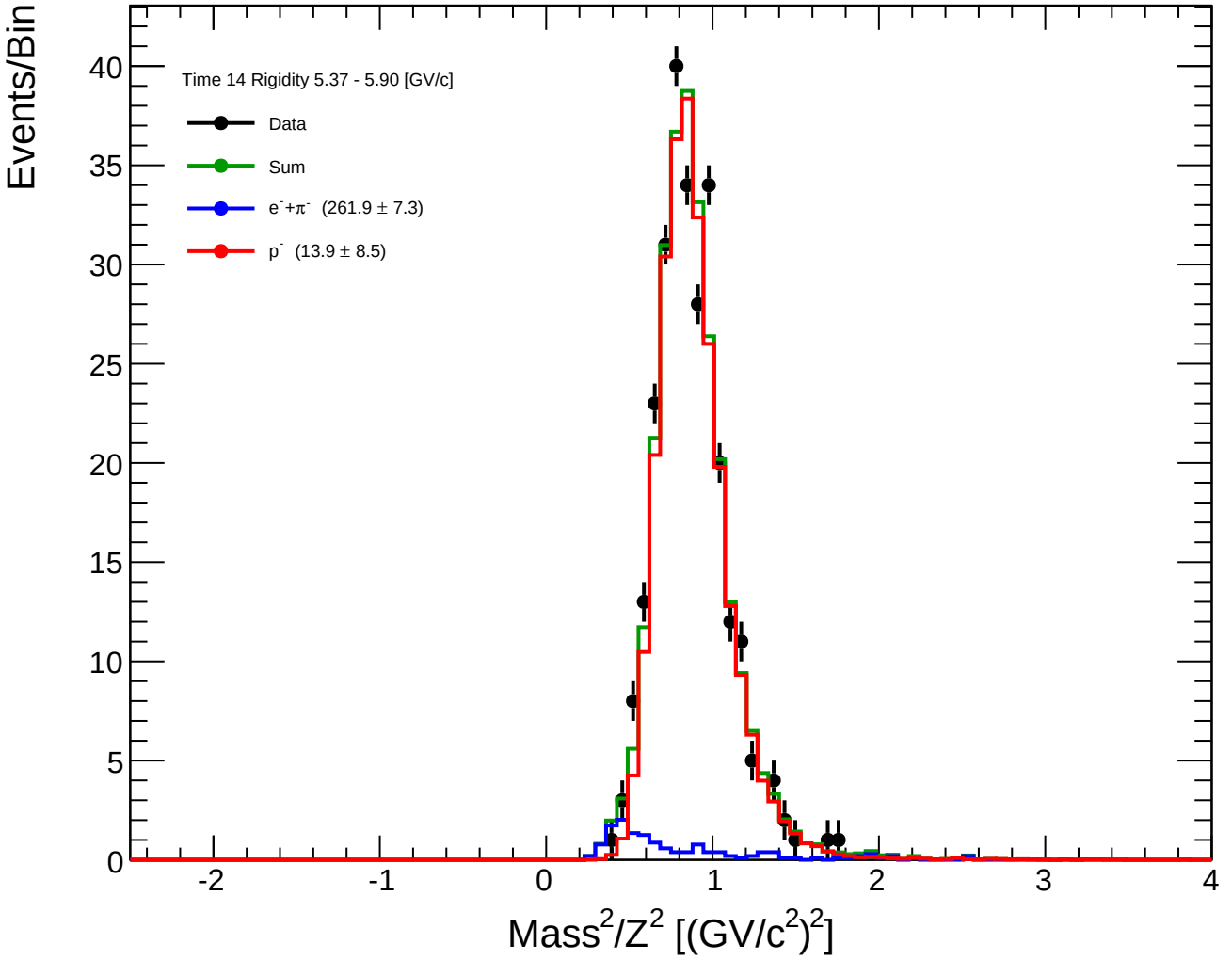

Time 13 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (544.0 ± 14.9)
p⁻ (162.1 ± 11.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

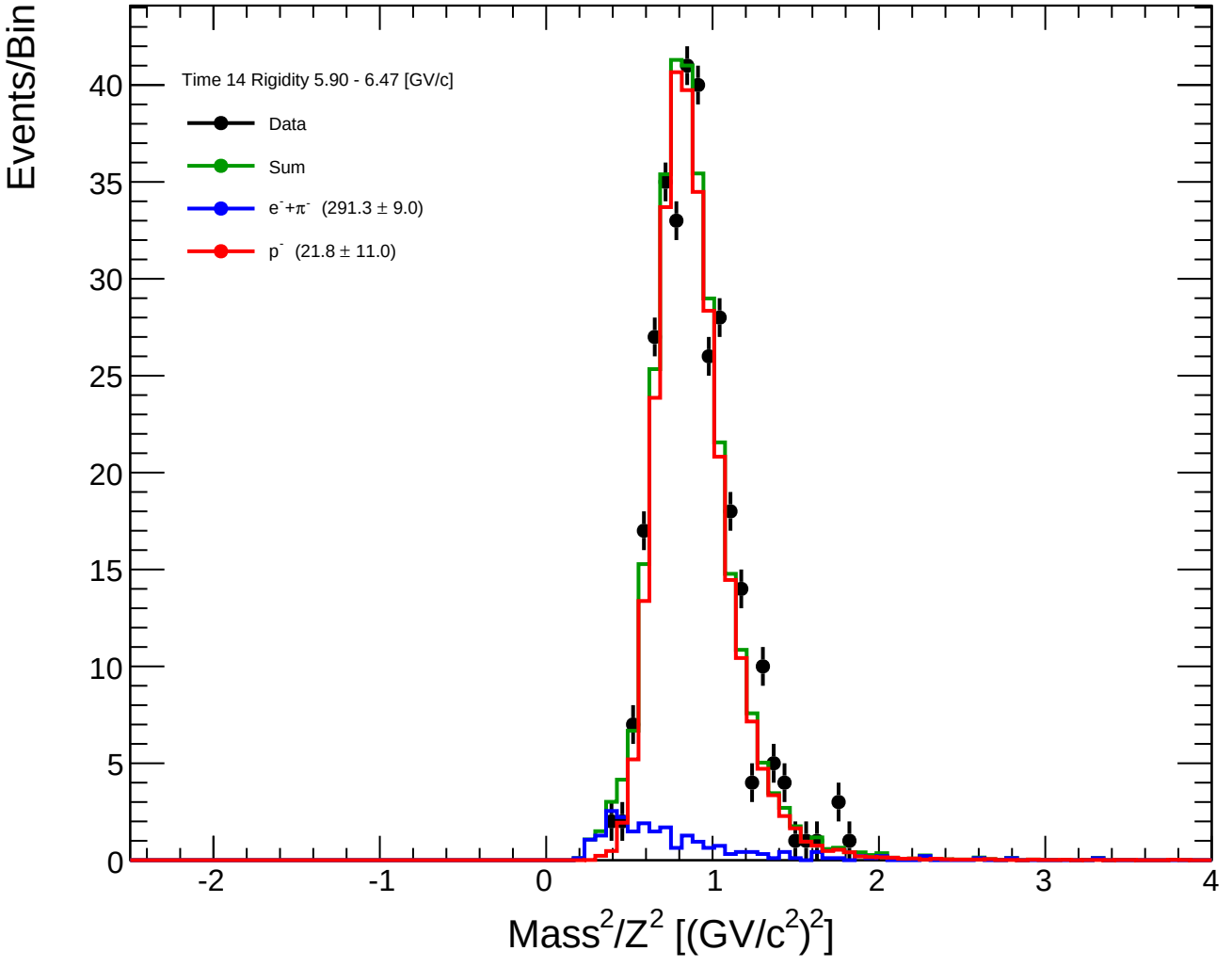

Time 13 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (499.9 ± 15.6)
p⁻ (120.4 ± 13.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

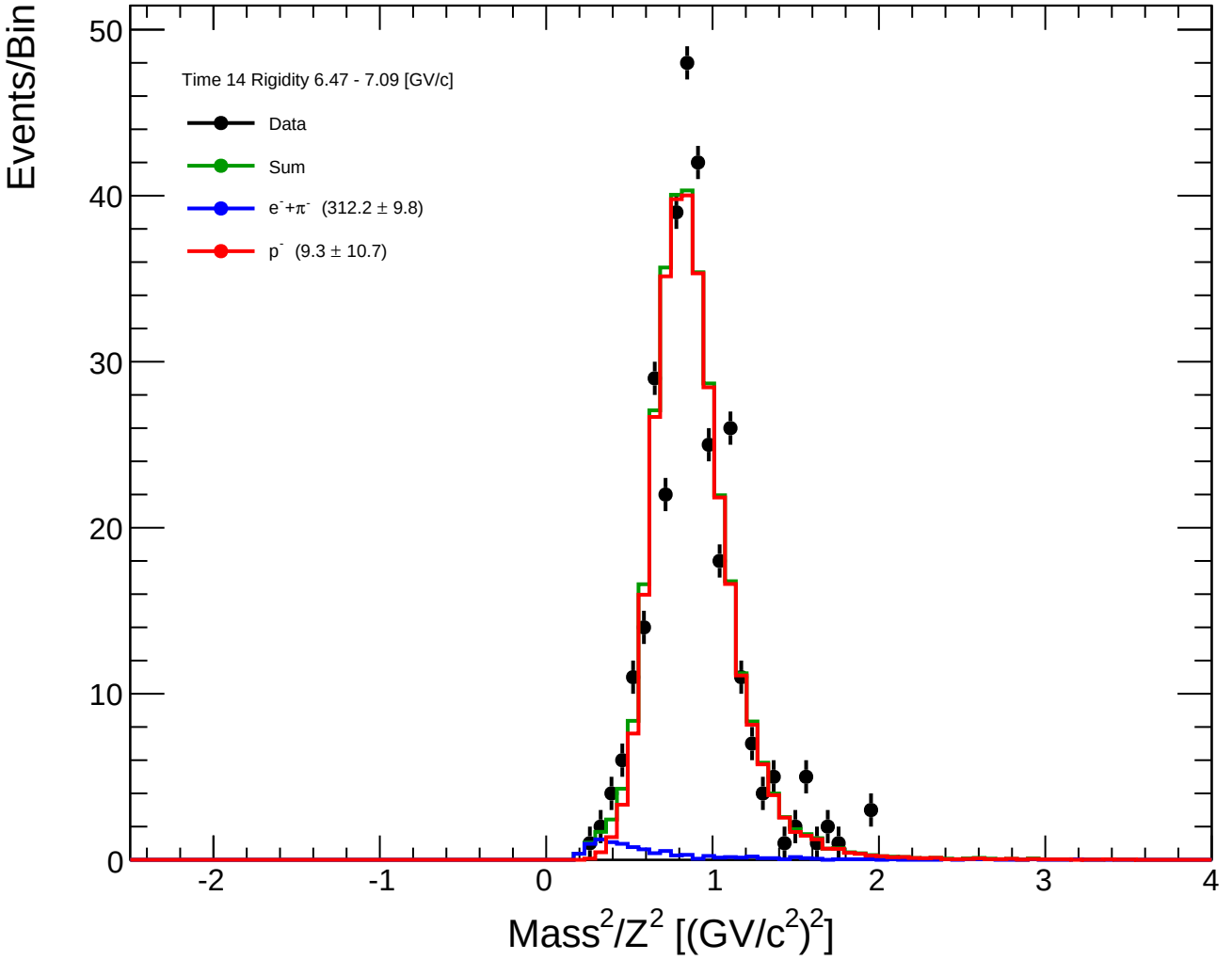

Events/Bin
Time 14 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (40.3 ± 6.1)
p⁻ (6.4 ± 8.1)
0
1
2
3
4
5
6
7
8
9
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

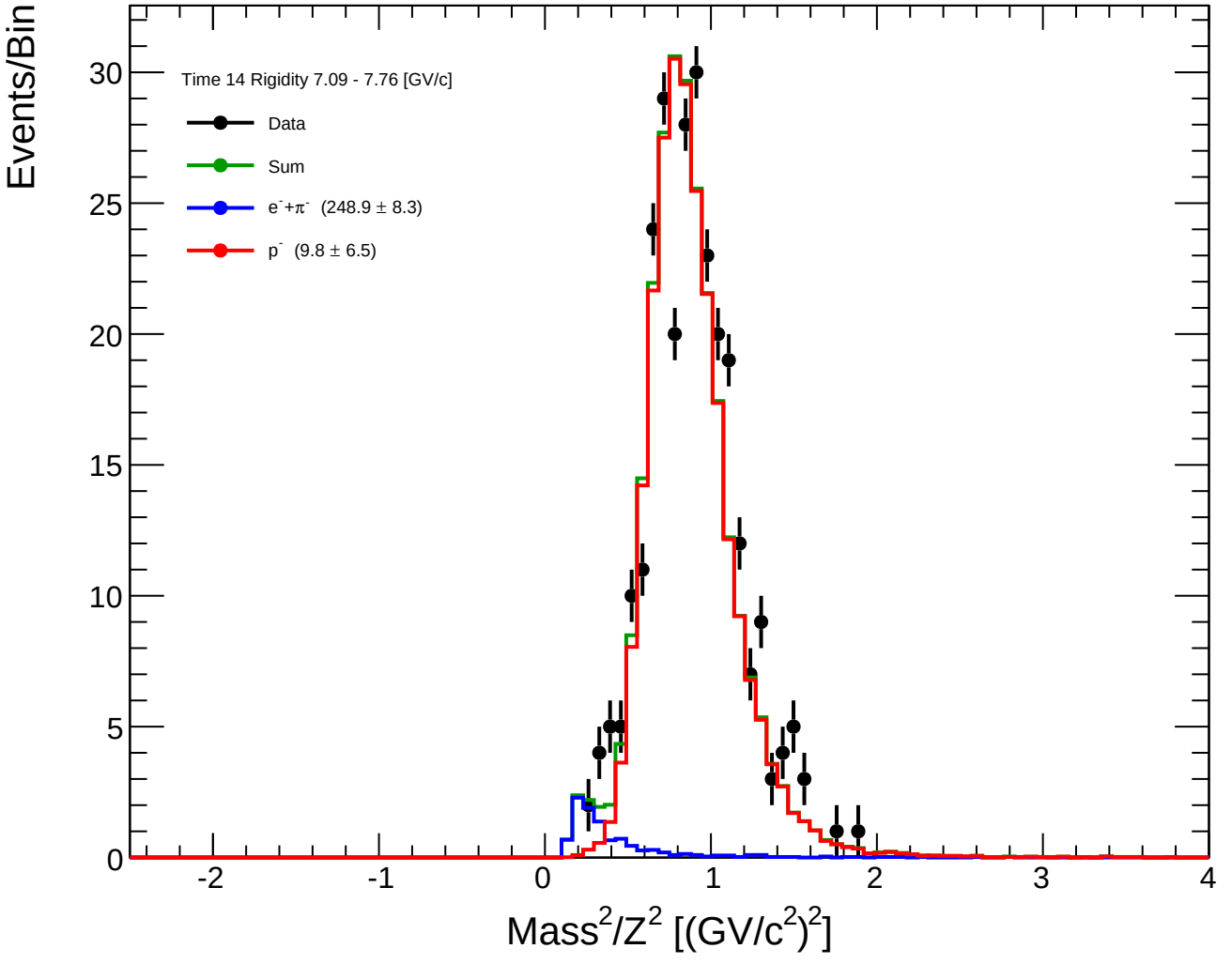

Time 14 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (249.7 ± 11.0)
p⁻ (0.0 ± 15.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

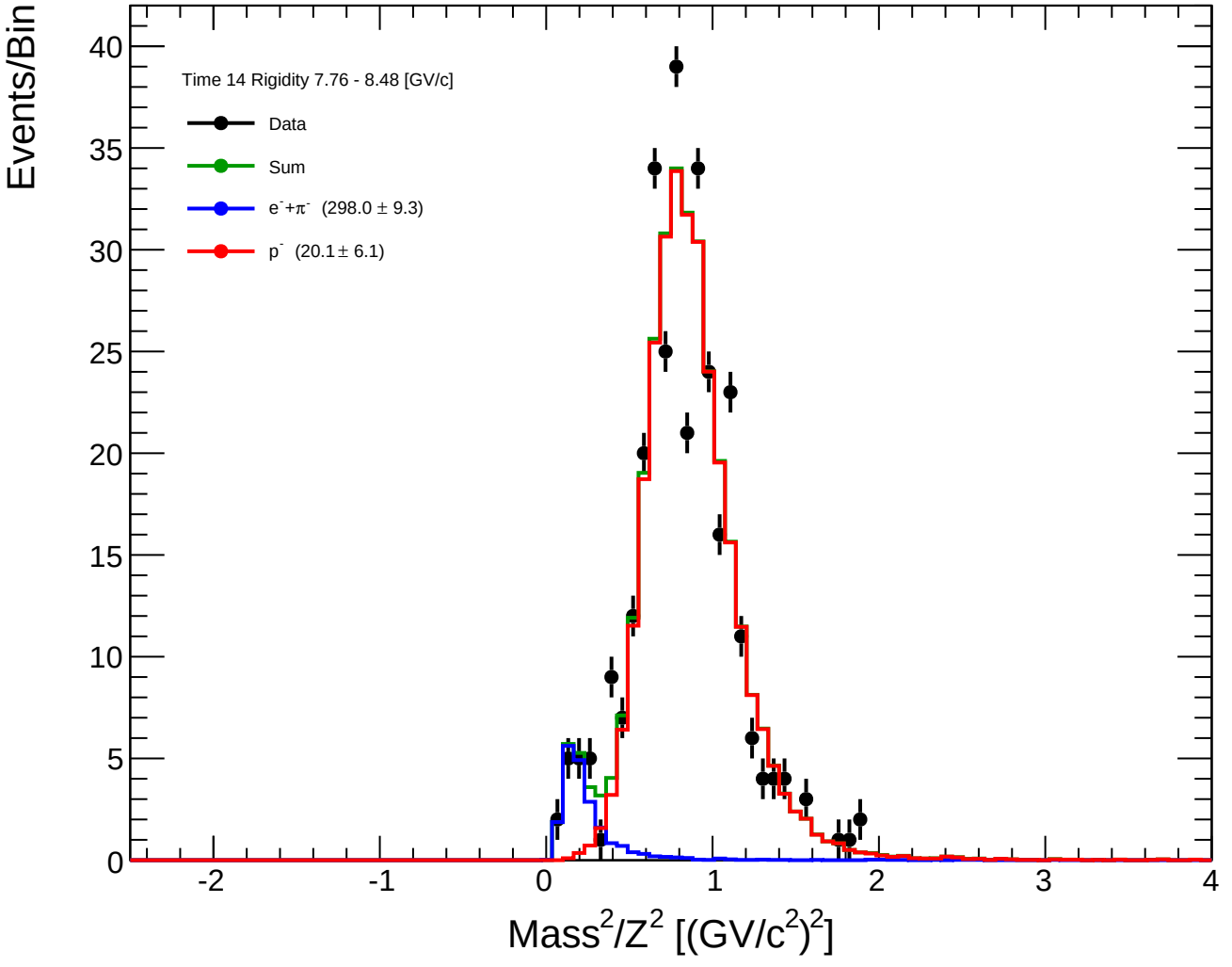

Time 14 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (418.0 ± 10.5)
p⁻ (19.9 ± 12.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

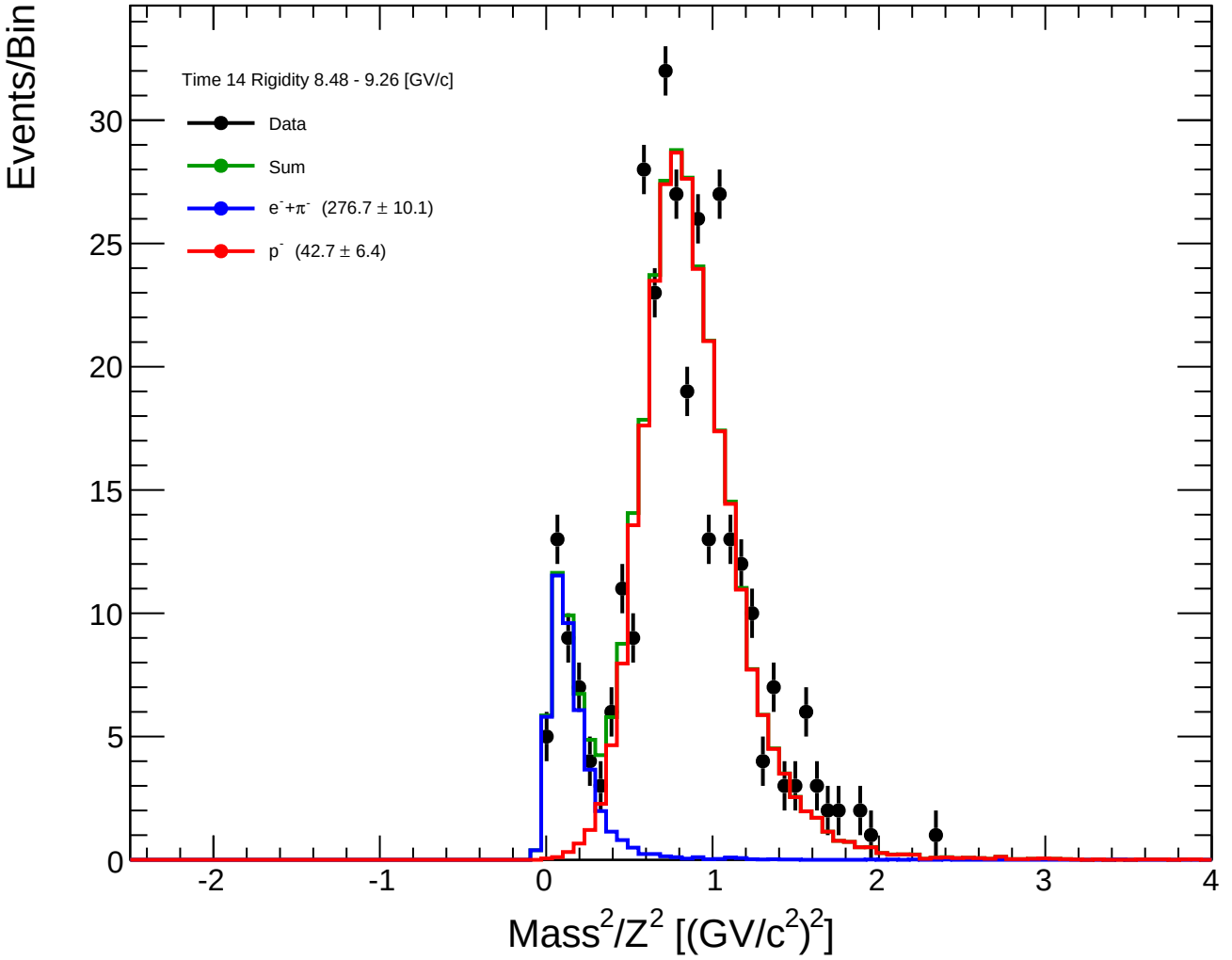

Time 14 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (261.9 ± 7.3)
p⁻ (13.9 ± 8.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

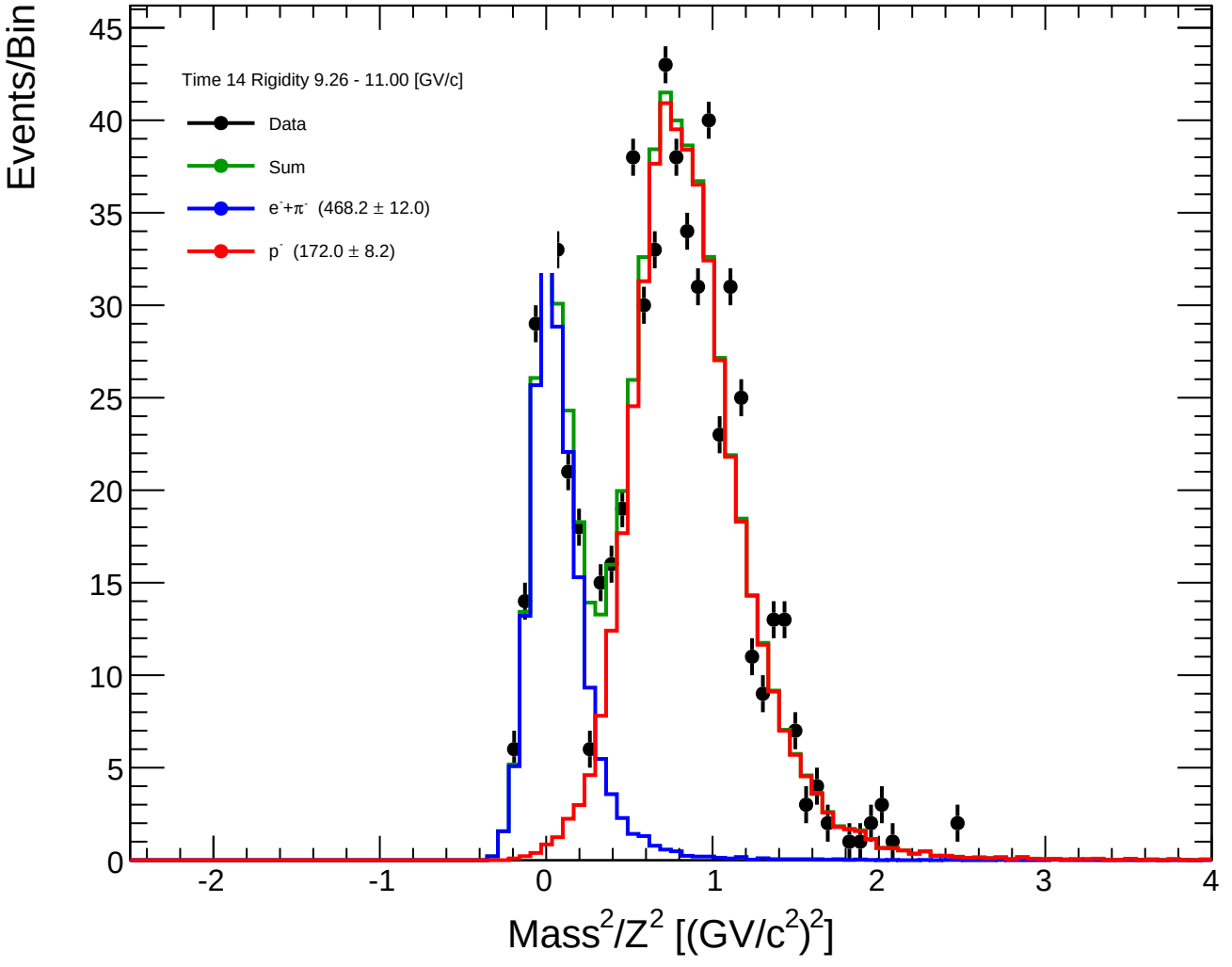

Time 14 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (291.3 ± 9.0)
p⁻ (21.8 ± 11.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

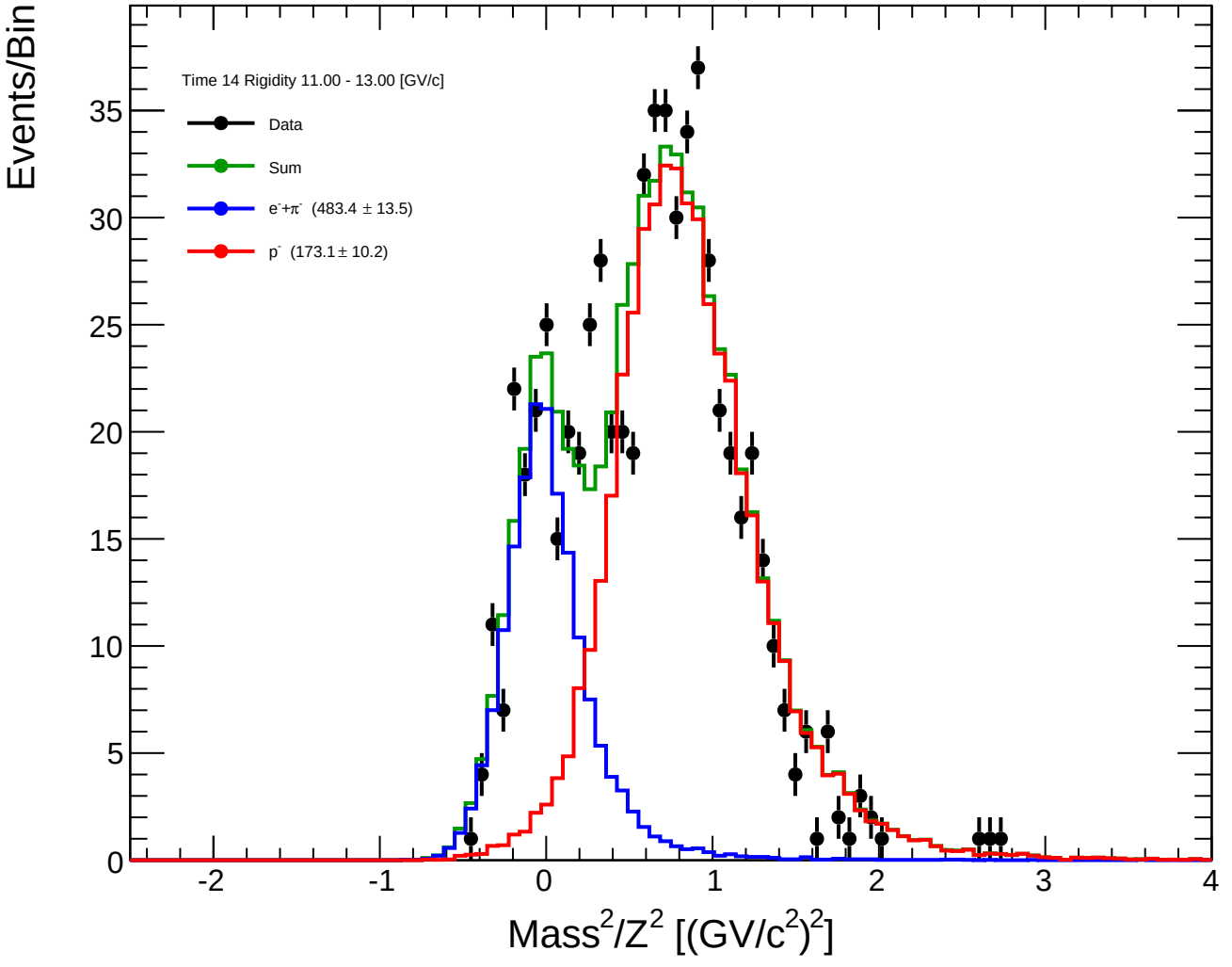

Time 14 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (312.2 ± 9.8)
p⁻ (9.3 ± 10.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

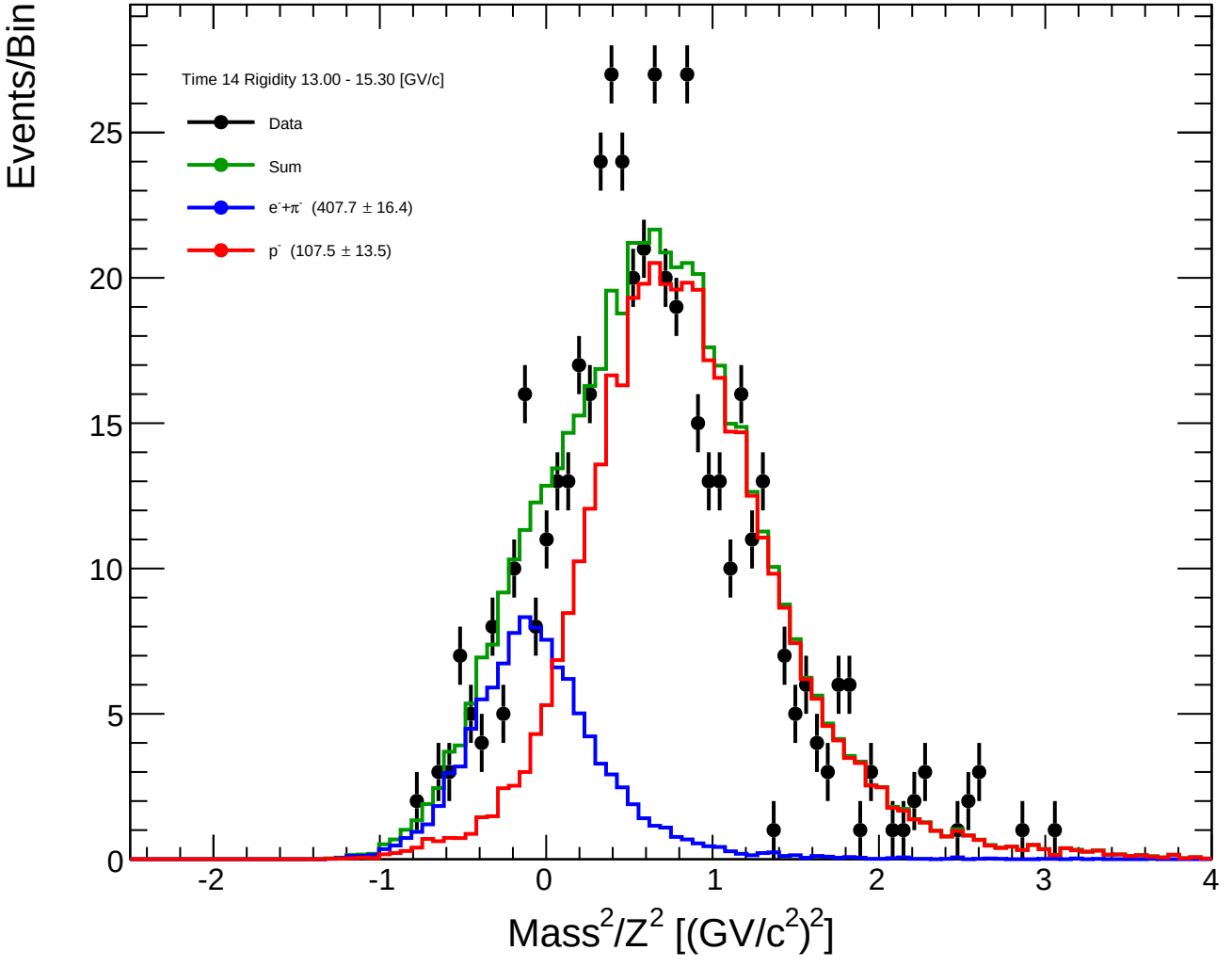

Time 14 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (248.9 ± 8.3)
p⁻ (9.8 ± 6.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

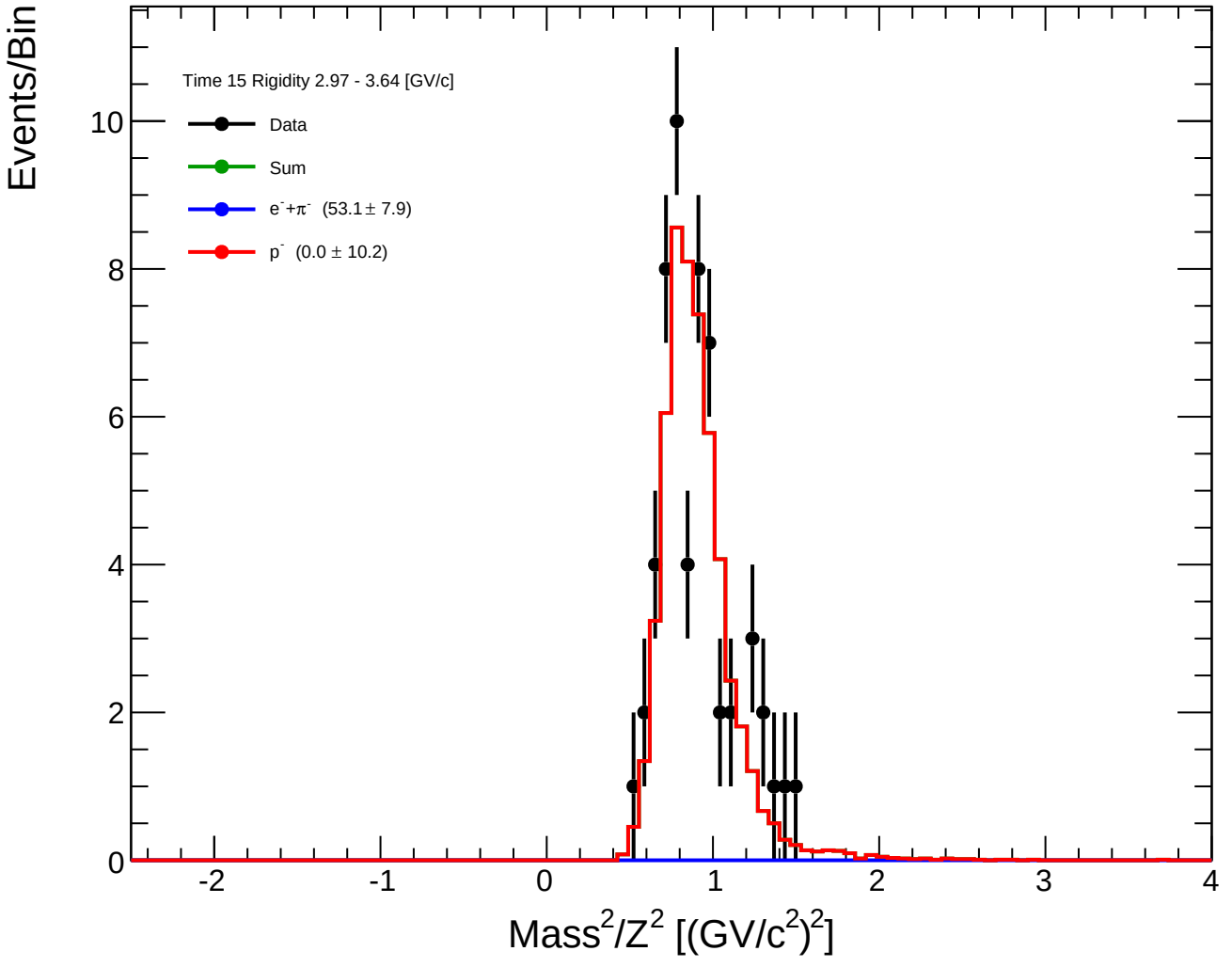

Time 14 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (298.0 ± 9.3)
p⁻ (20.1± 6.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

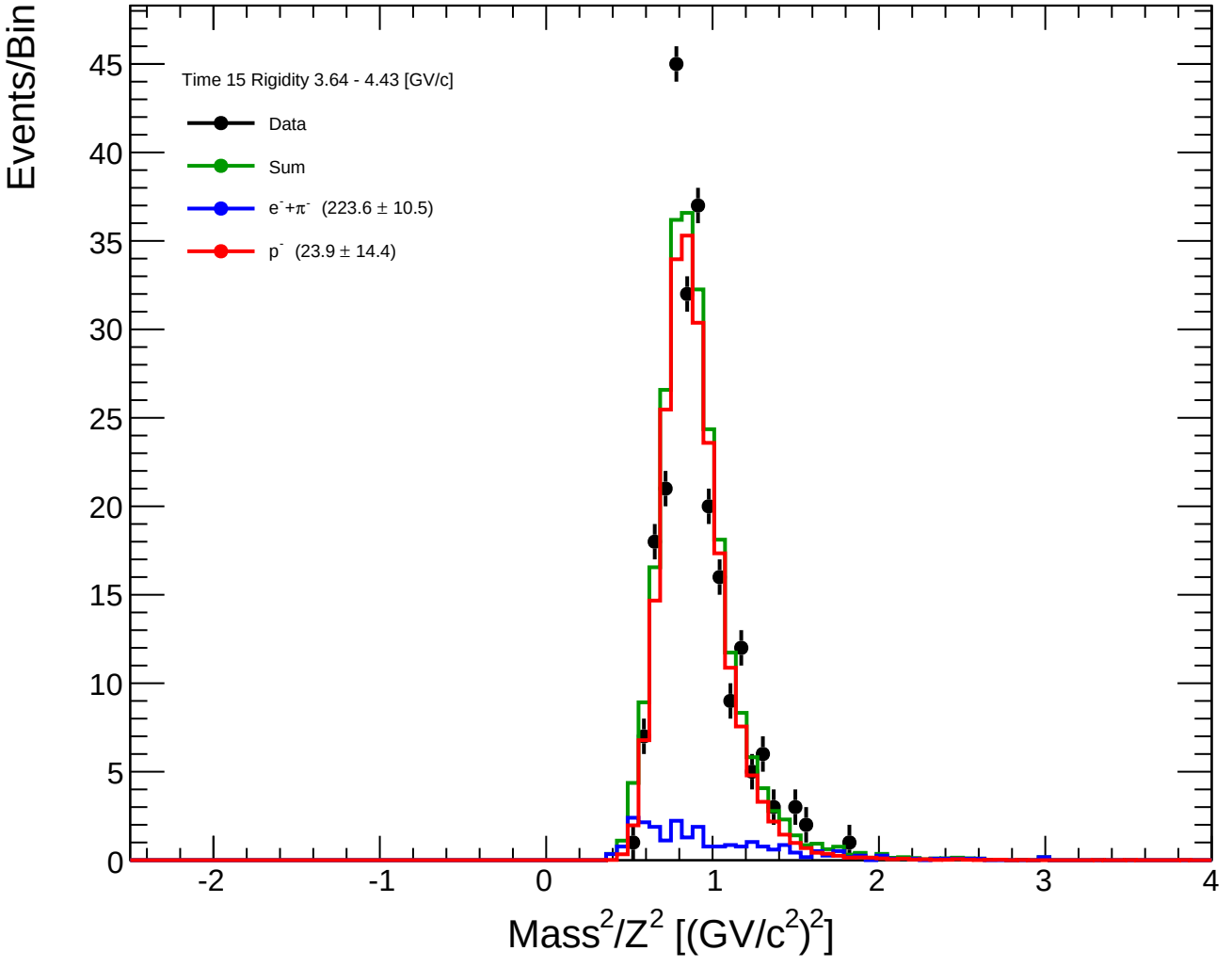

Time 14 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (276.7 ± 10.1)
p⁻ (42.7 ± 6.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

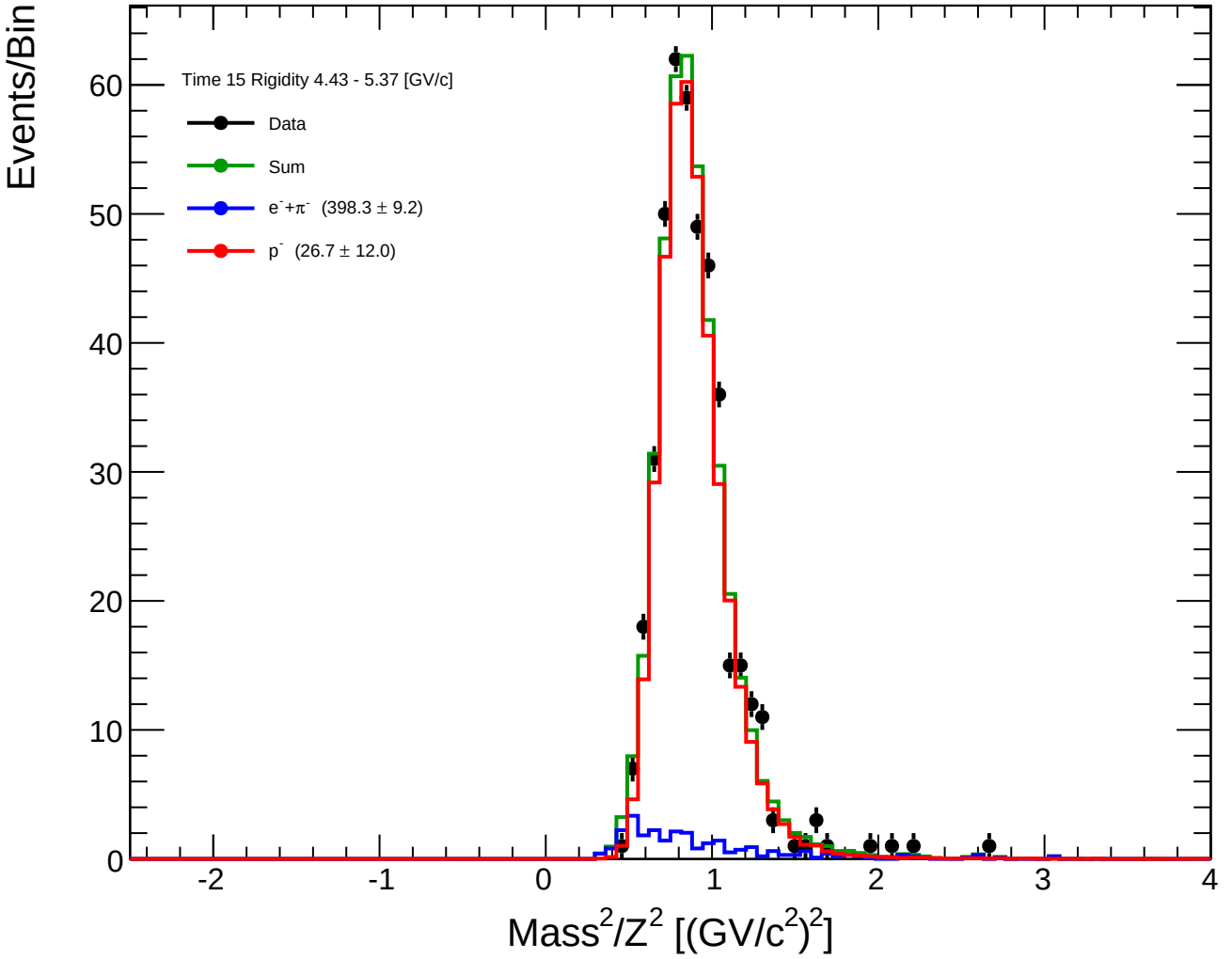

Time 14 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (468.2 ± 12.0)
p⁻ (172.0 ± 8.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

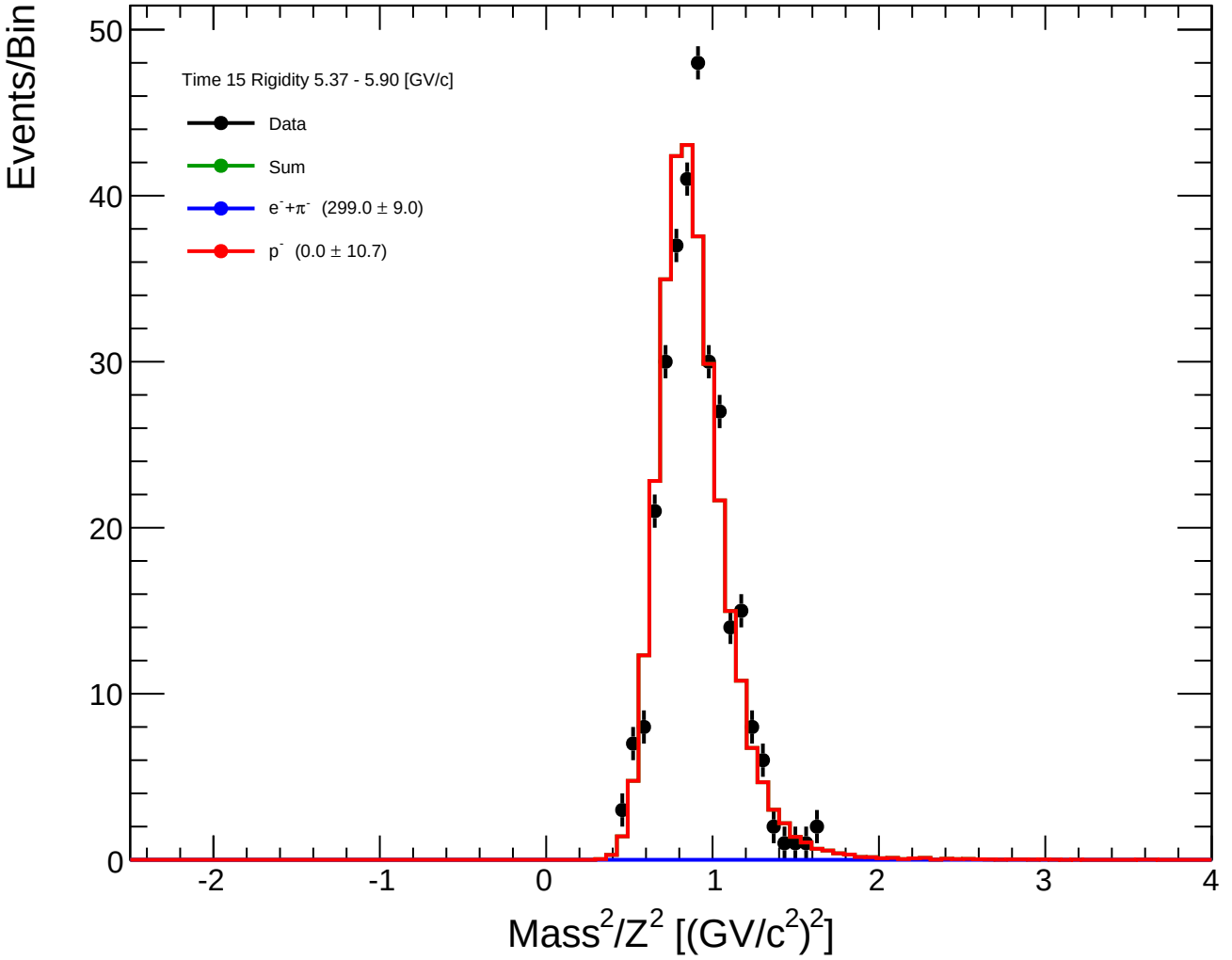

Time 14 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (483.4 ± 13.5)
p⁻ (173.1 ± 10.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

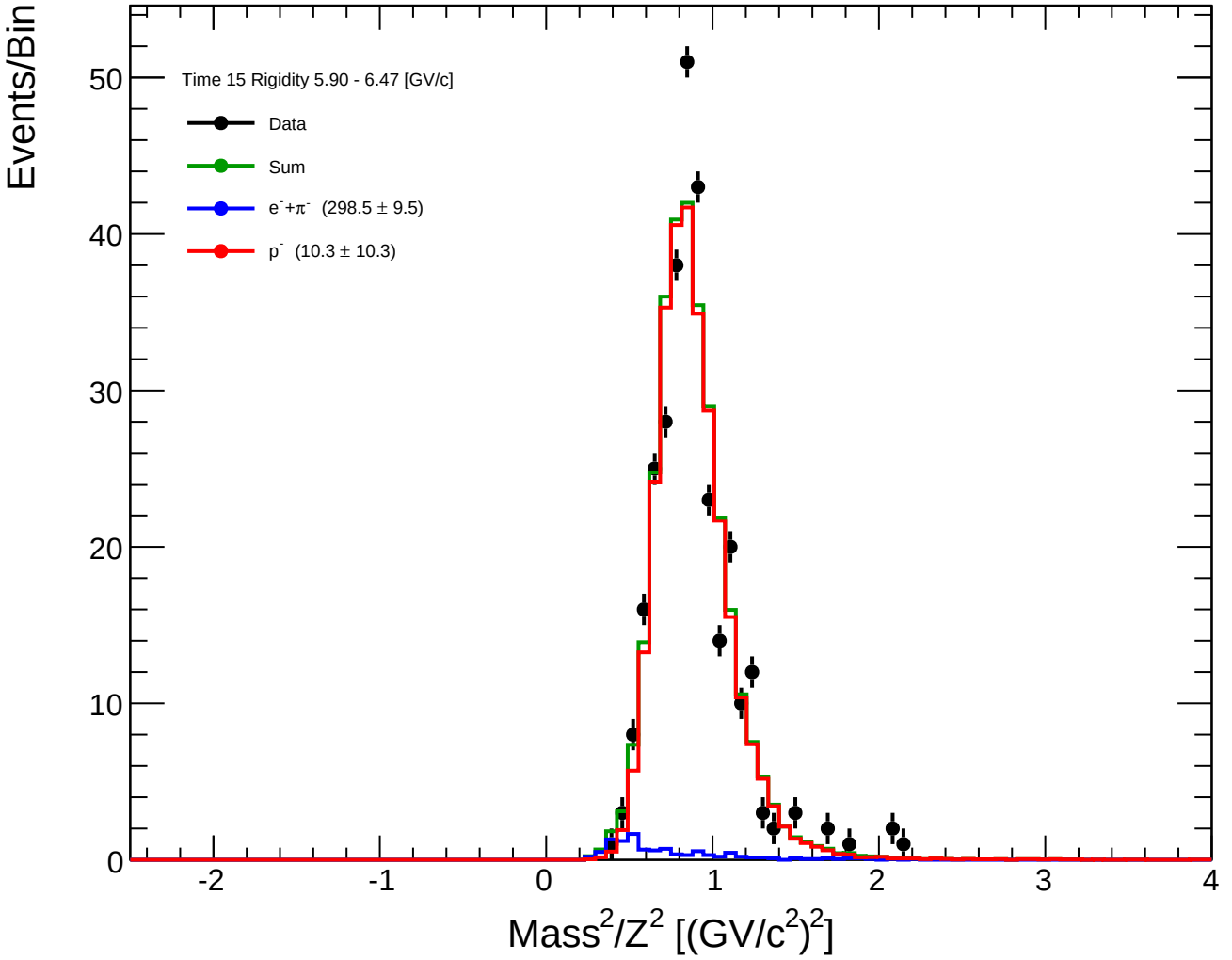

Time 14 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (407.7 ± 16.4)
p⁻ (107.5 ± 13.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

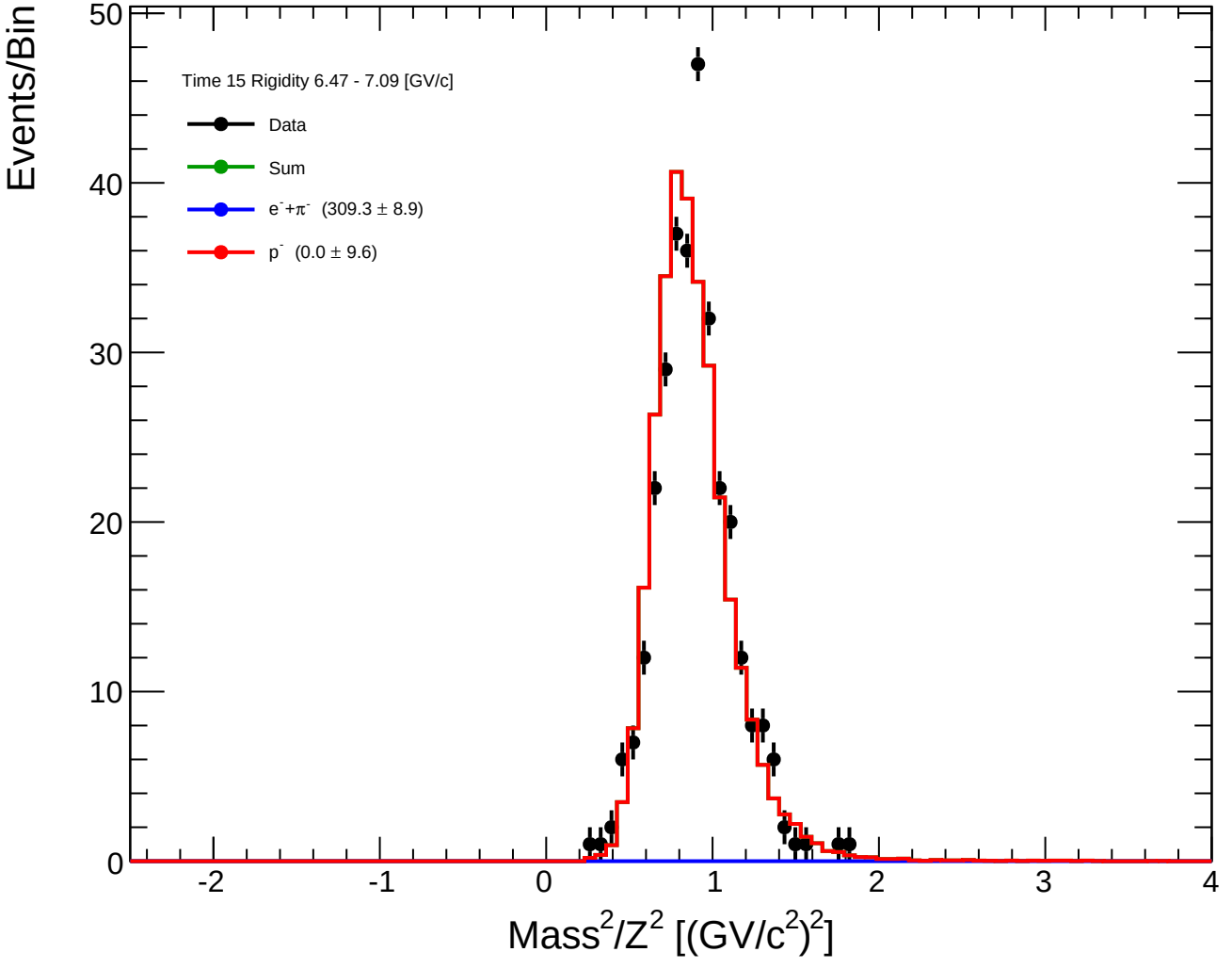

Time 15 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (53.1± 7.9)
p⁻ (0.0 ± 10.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
-2
-1
0
1
2
3
4

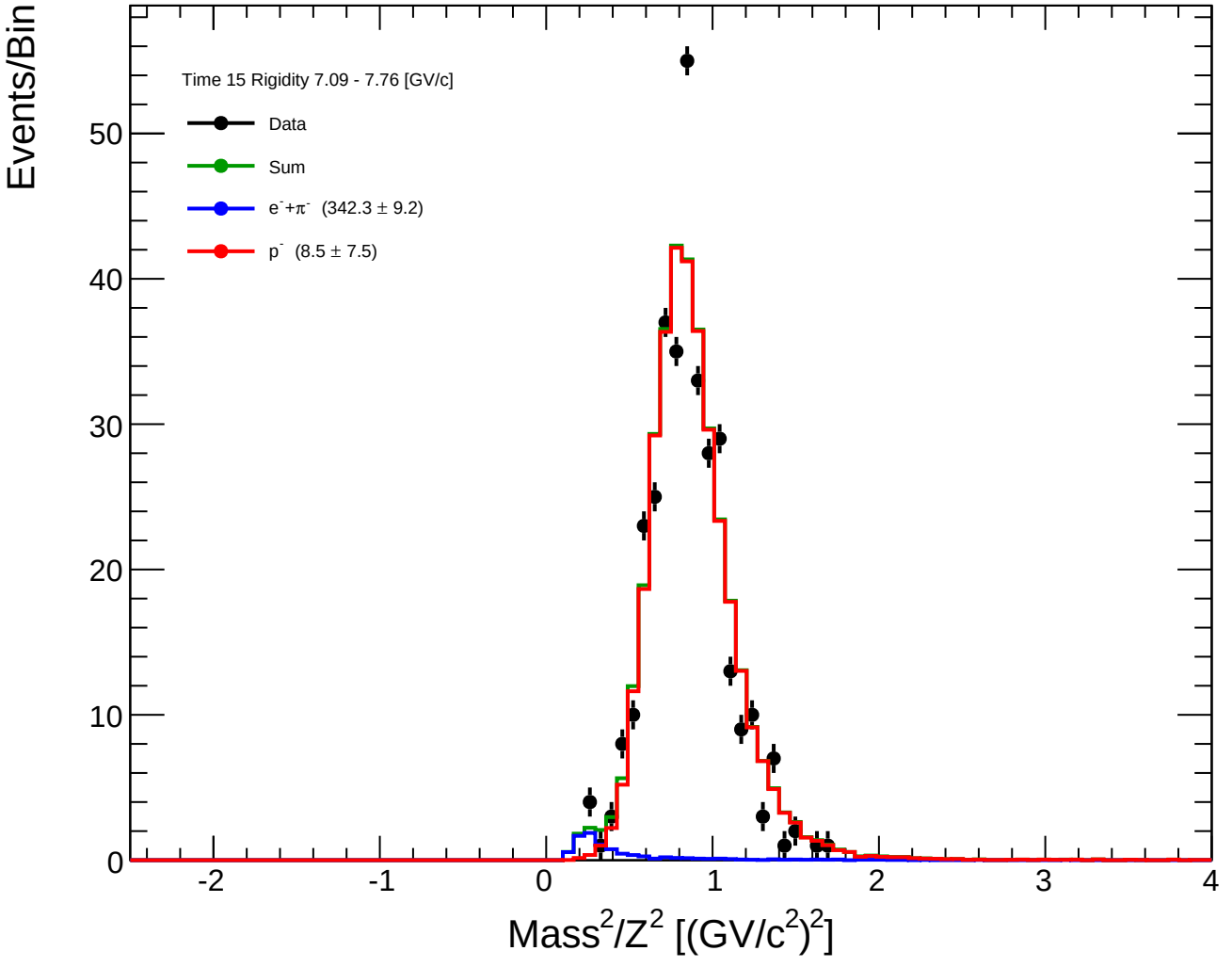

Time 15 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (223.6 ± 10.5)
p⁻ (23.9 ± 14.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

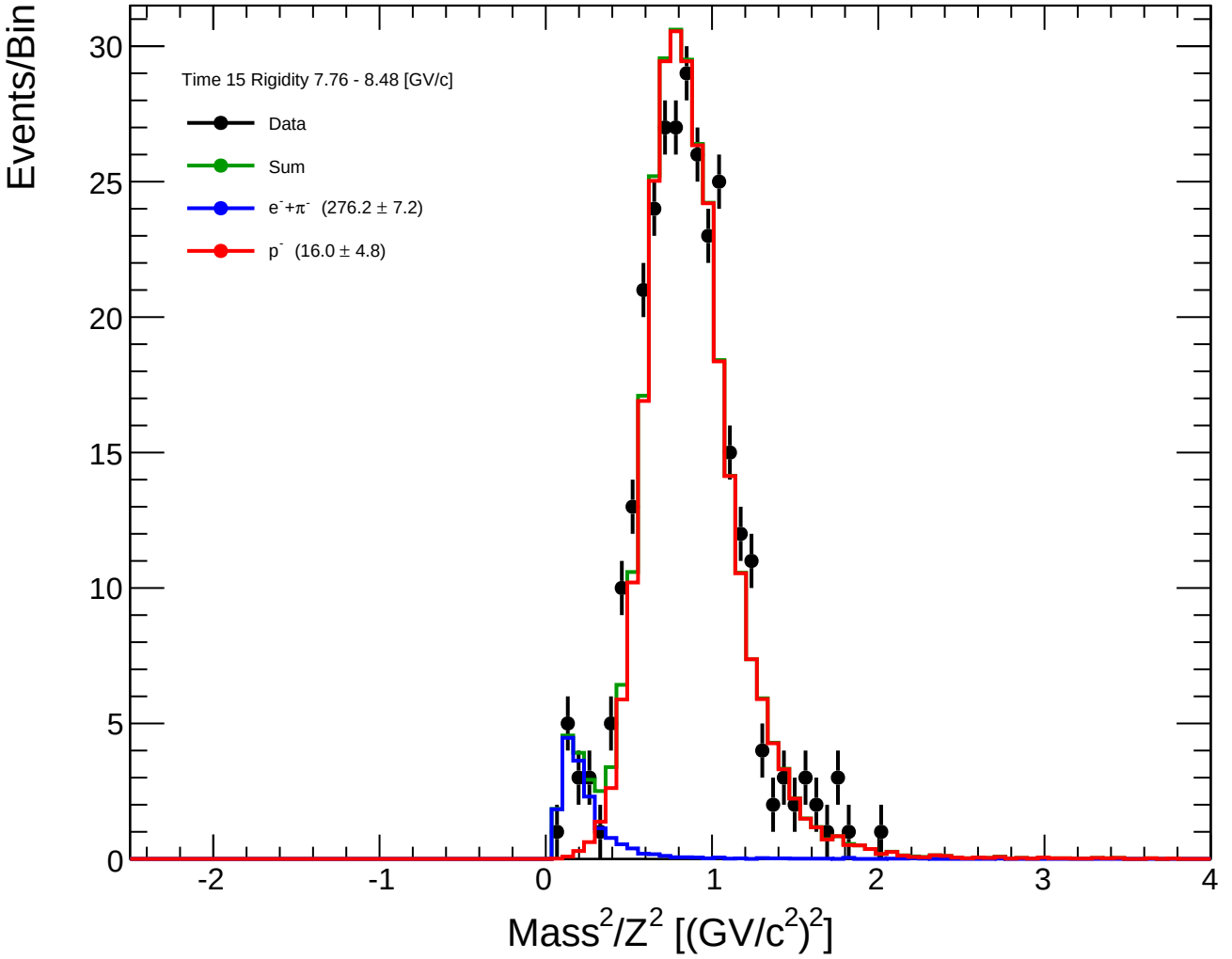

Time 15 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (398.3 ± 9.2)
p⁻ (26.7 ± 12.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

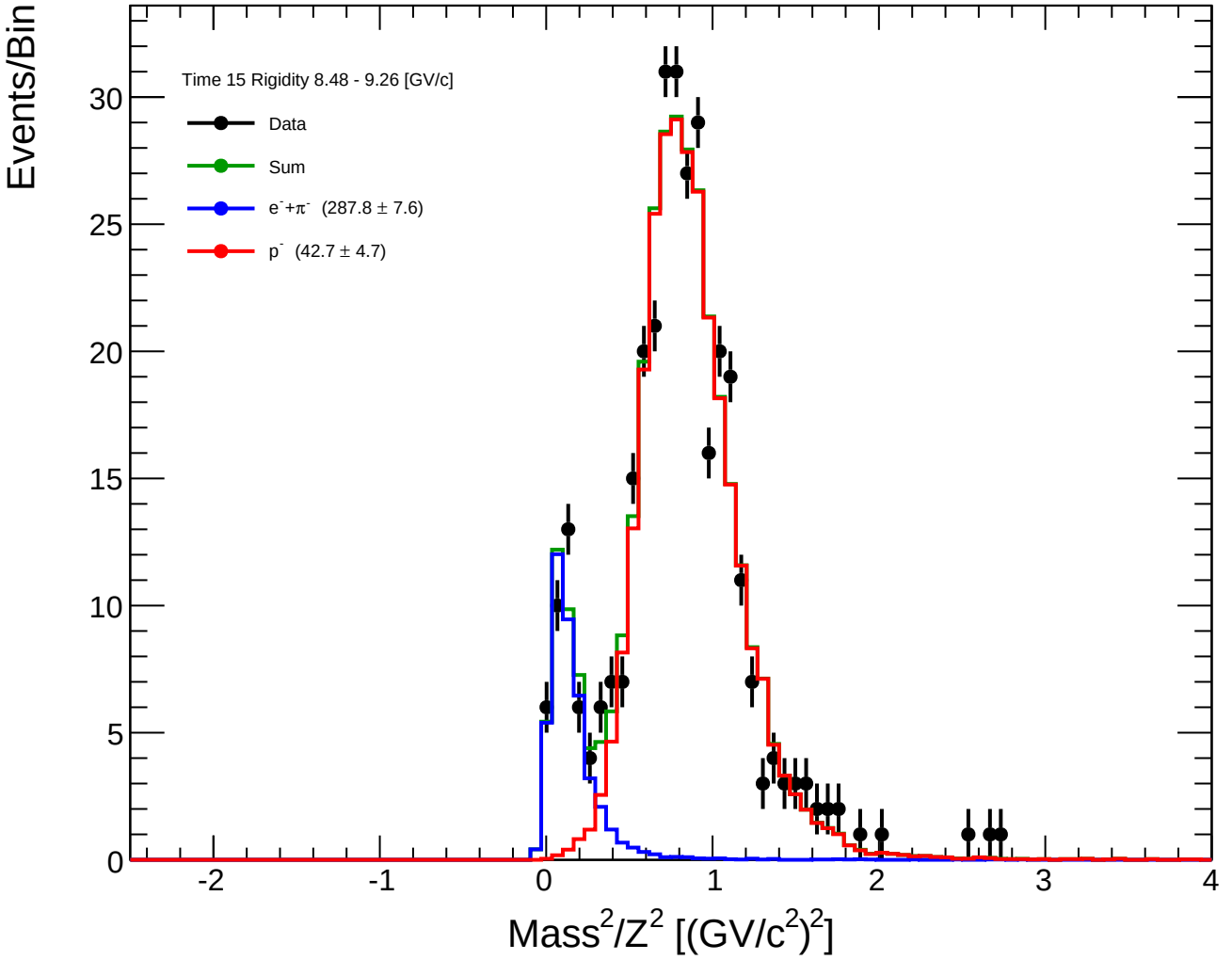

Time 15 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (299.0 ± 9.0)
p⁻ (0.0 ± 10.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

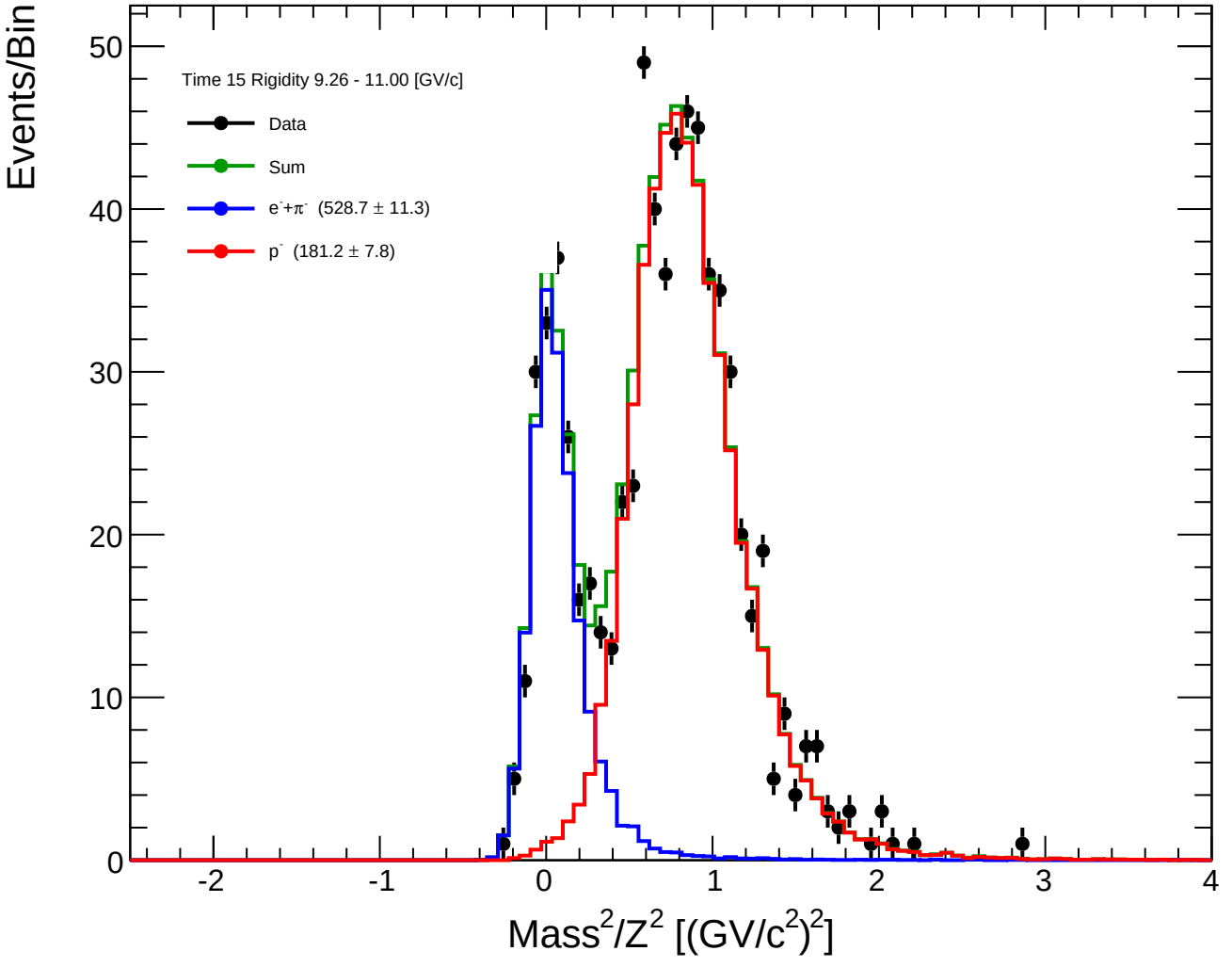

Time 15 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (298.5 ± 9.5)
p⁻ (10.3 ± 10.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

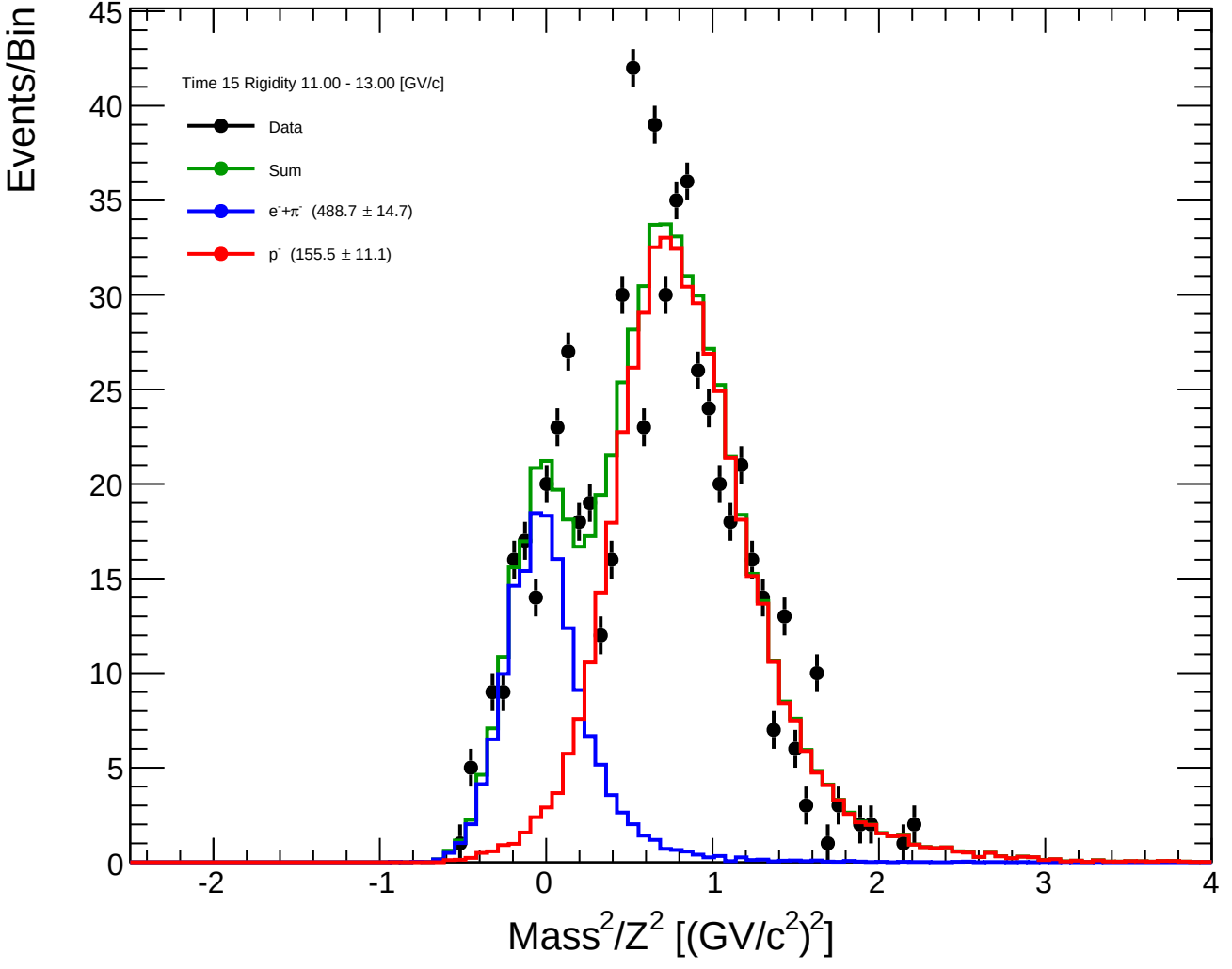

Time 15 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (309.3 ± 8.9)
p⁻ (0.0 ± 9.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

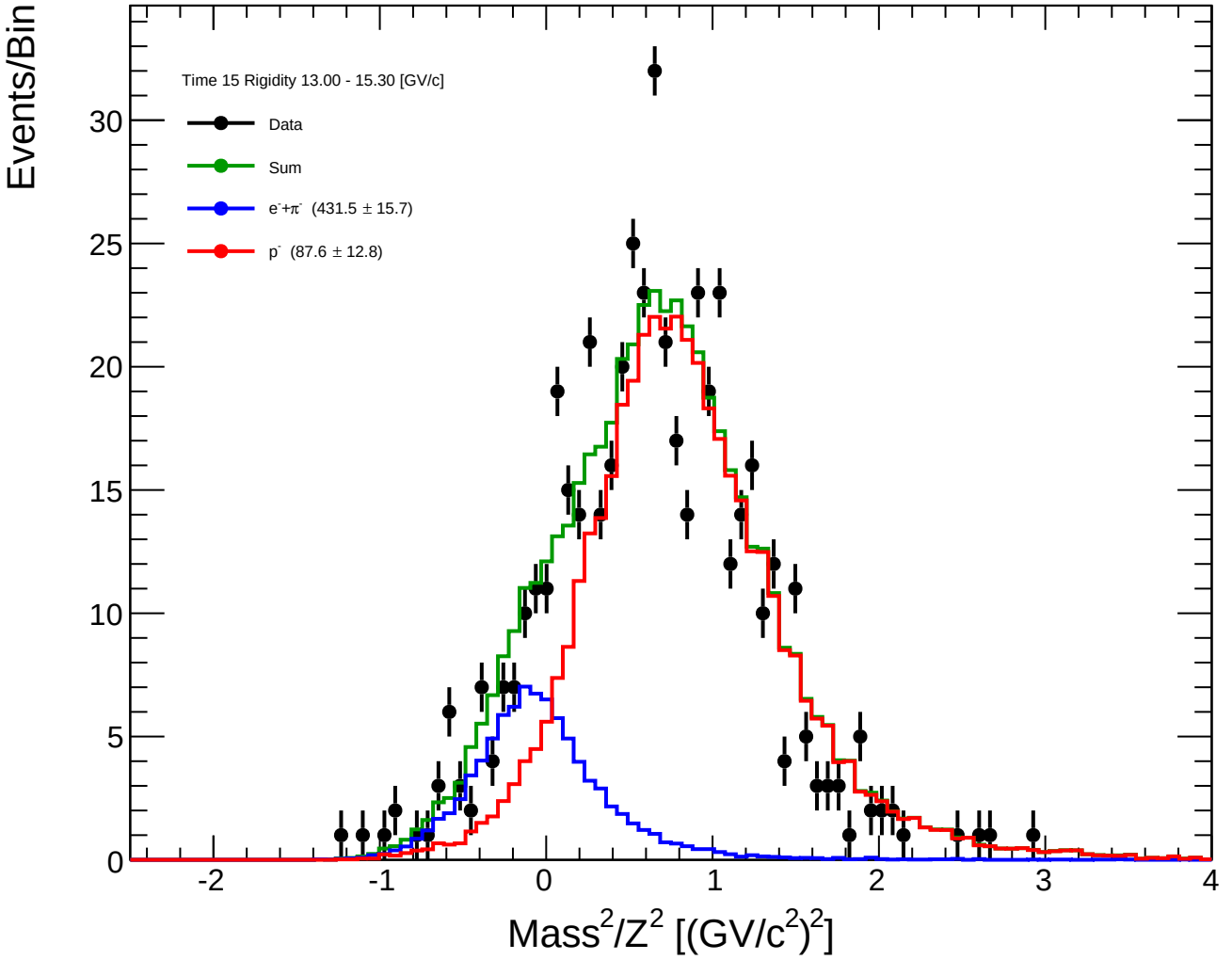

Time 15 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (342.3 ± 9.2)
p⁻ (8.5 ± 7.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

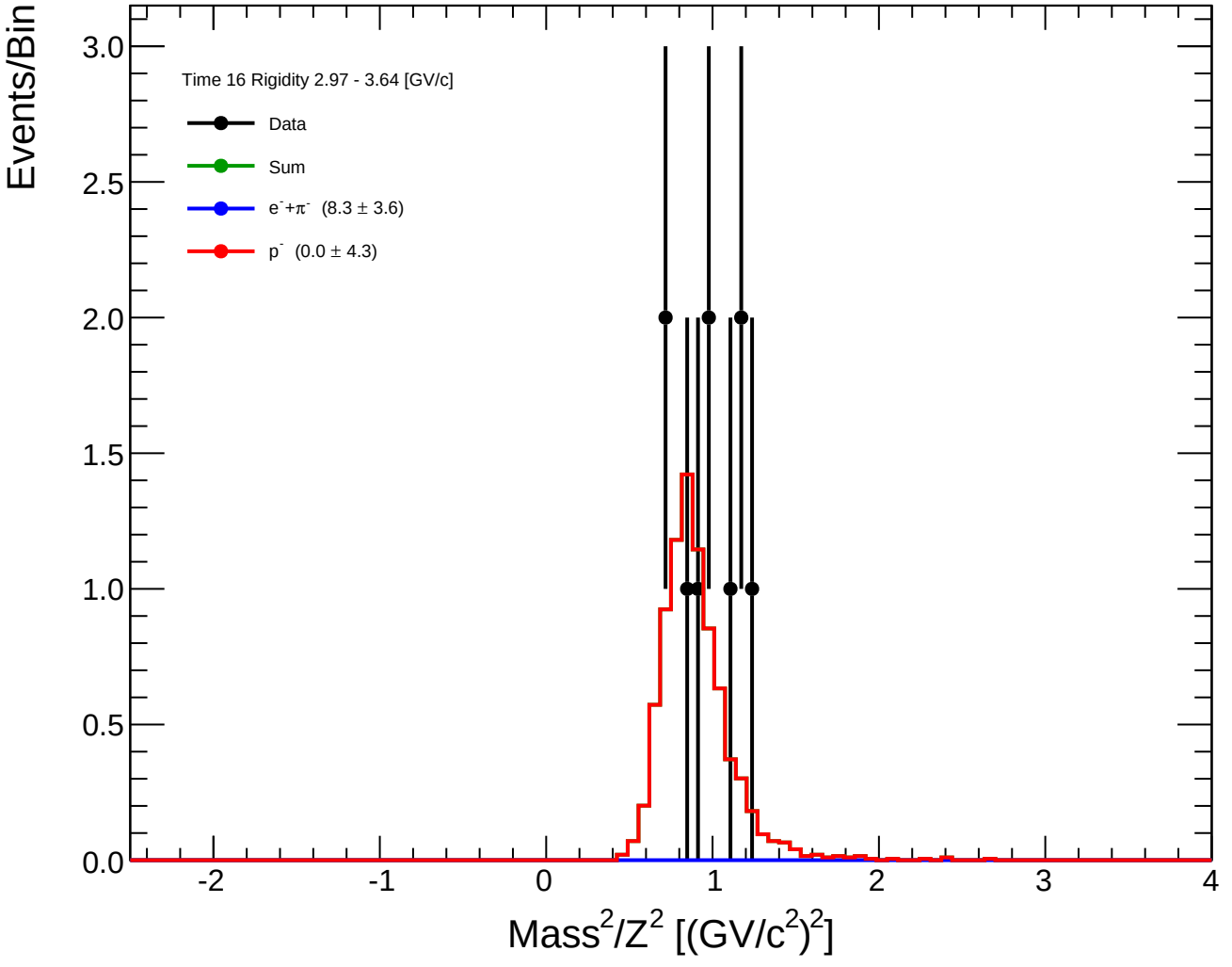

Time 15 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (276.2 ± 7.2)
p⁻ (16.0 ± 4.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

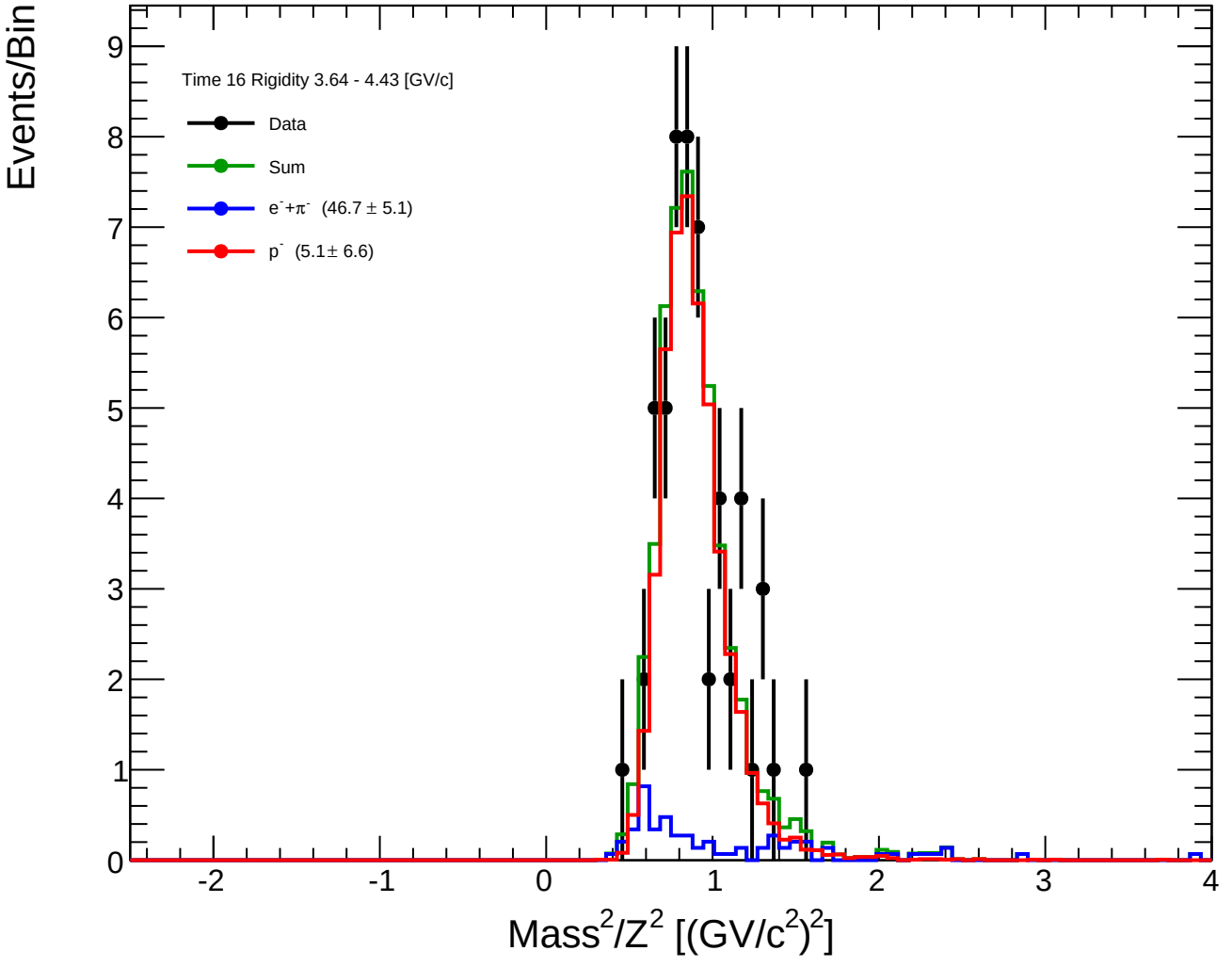

Time 15 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (287.8 ± 7.6)
p⁻ (42.7 ± 4.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

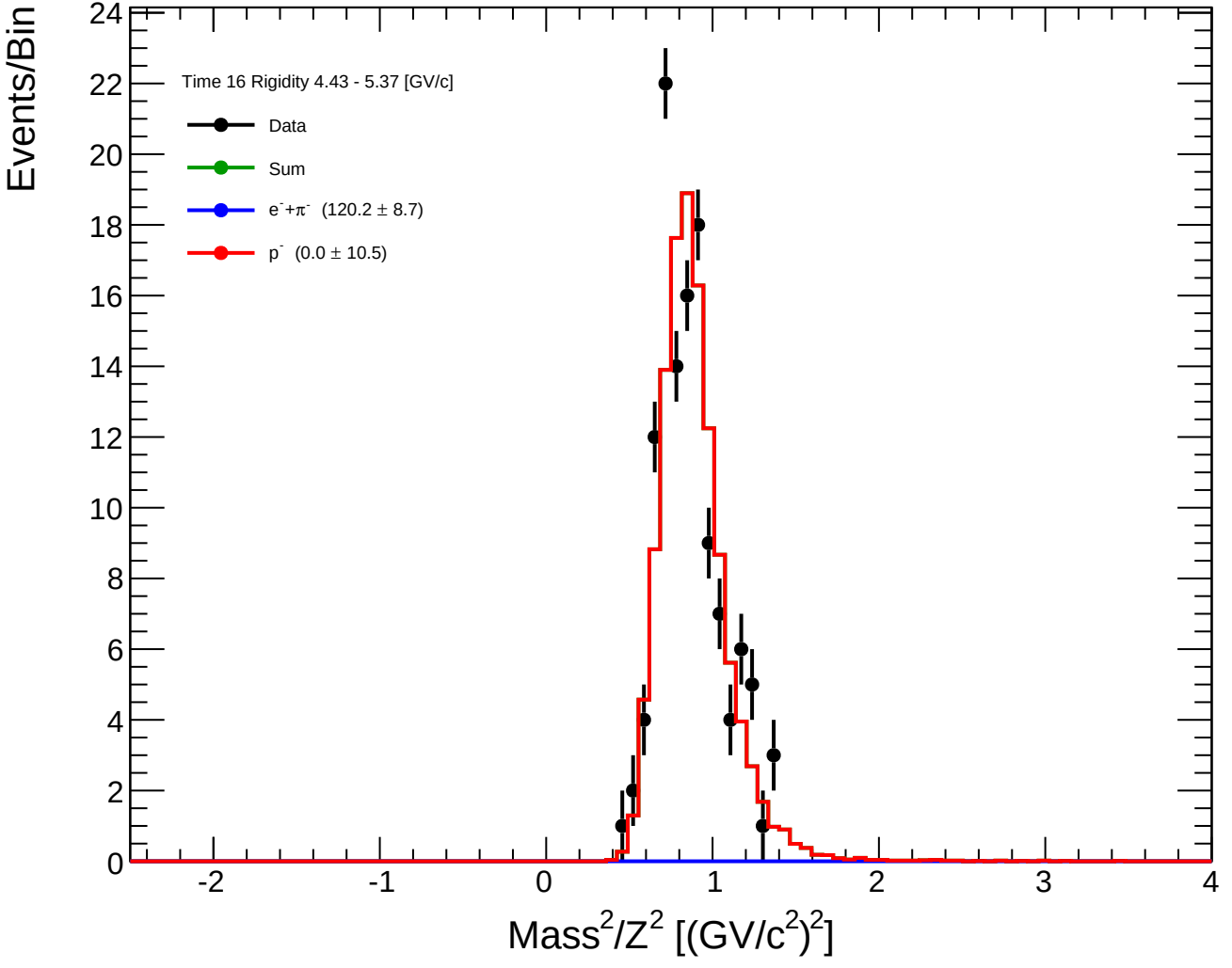

Time 15 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (528.7 ± 11.3)
p⁻ (181.2 ± 7.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

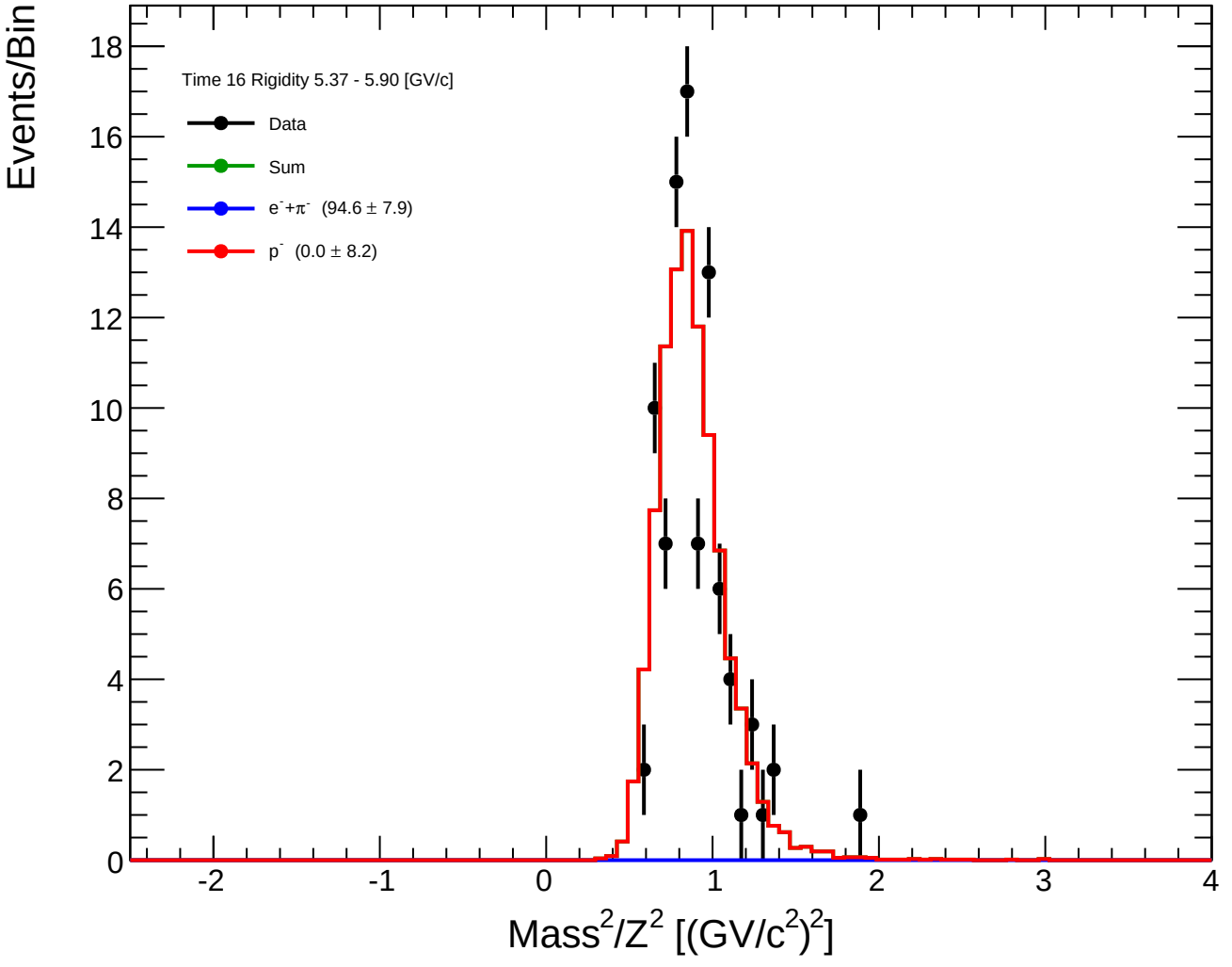

Time 15 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (488.7 ± 14.7)
p⁻ (155.5 ± 11.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

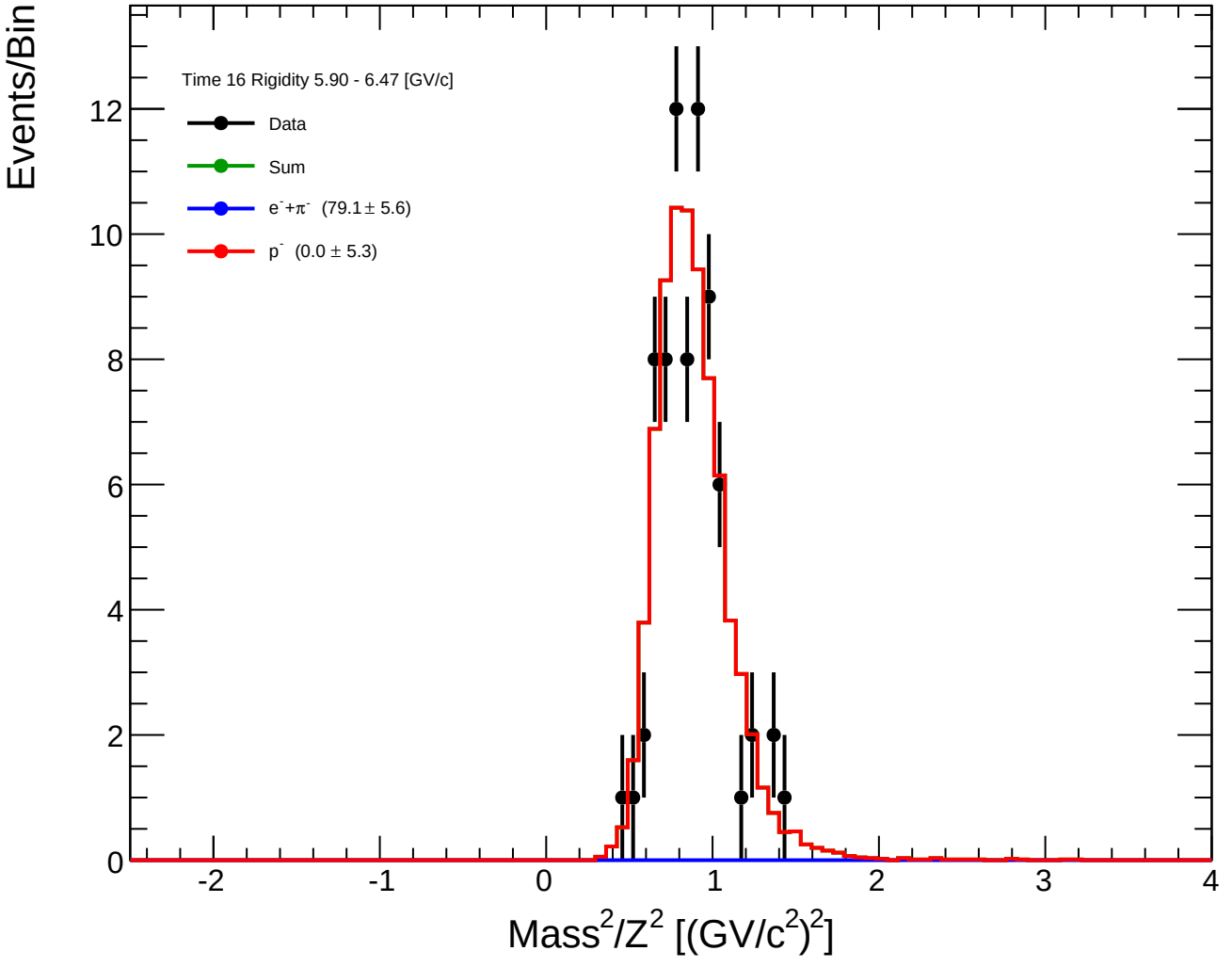

Time 15 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (431.5 ± 15.7)
p⁻ (87.6 ± 12.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

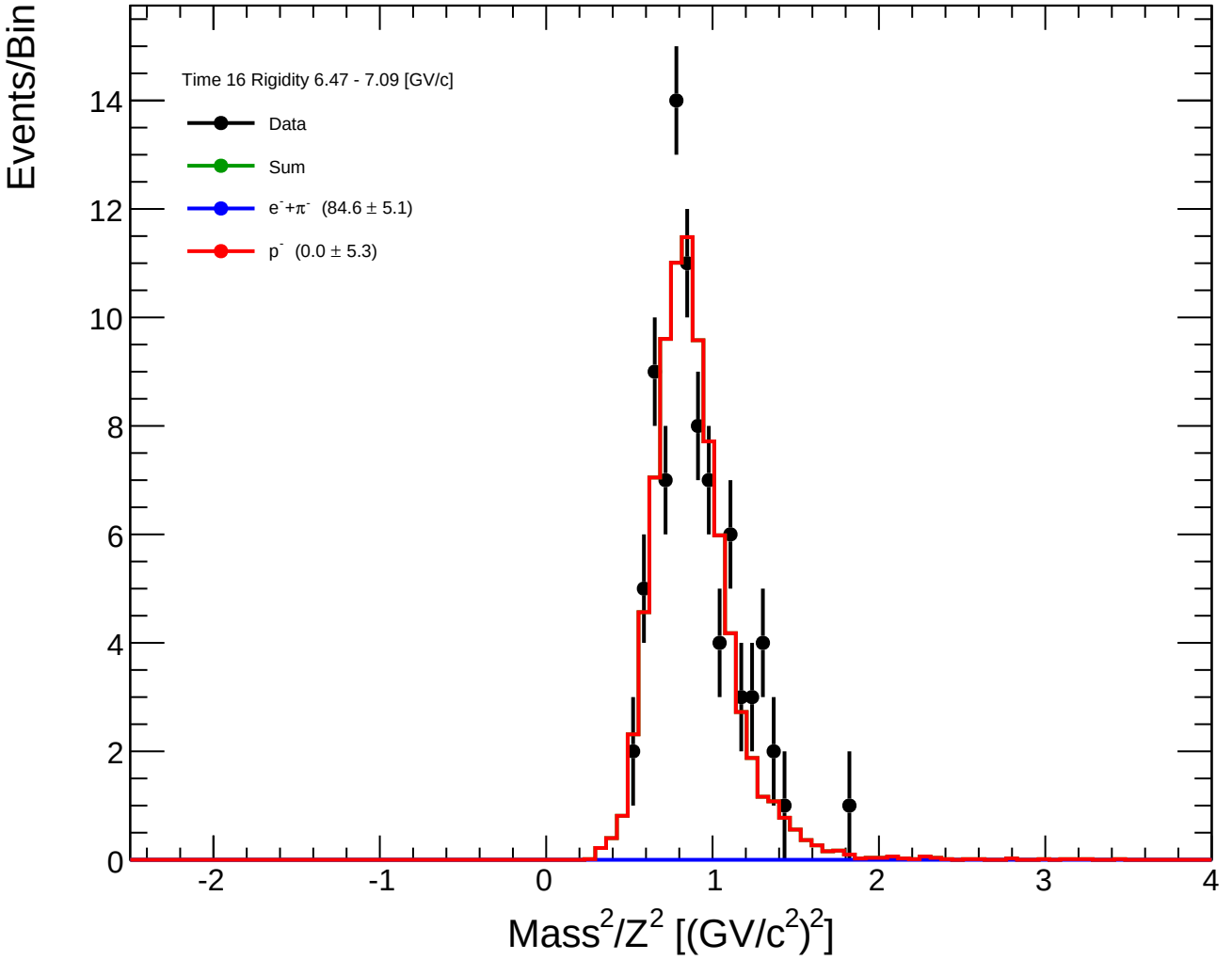

Time 16 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (8.3 ± 3.6)
p⁻ (0.0 ± 4.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-2
-1
0
1
2
3
4

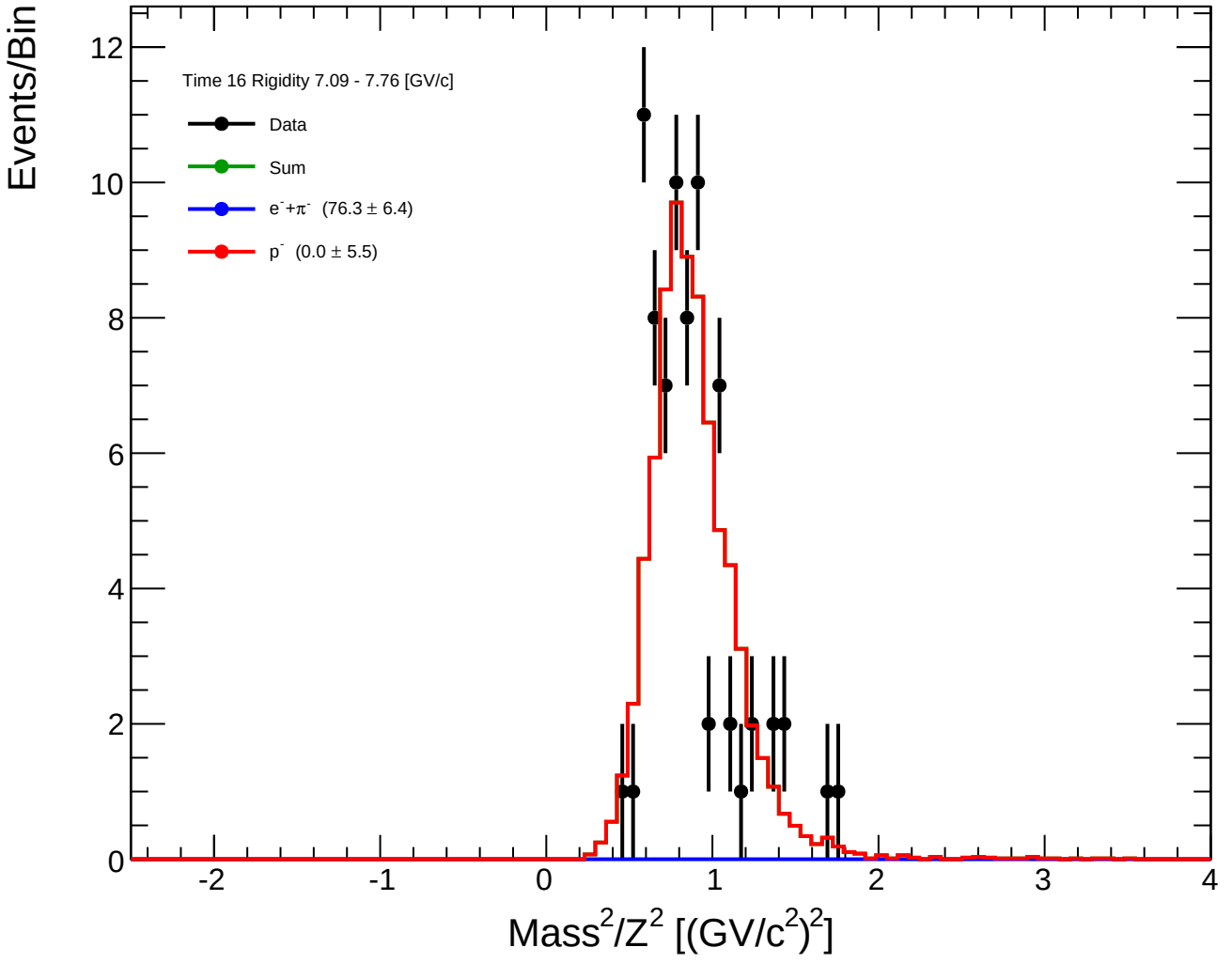

Events/Bin
Time 16 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (46.7 ± 5.1)
p⁻ (5.1± 6.6)
Mass²/Z² [(GV/c²)²]
0
1
2
3
4
5
6
7
8
9
-2
-1
0
1
2
3
4

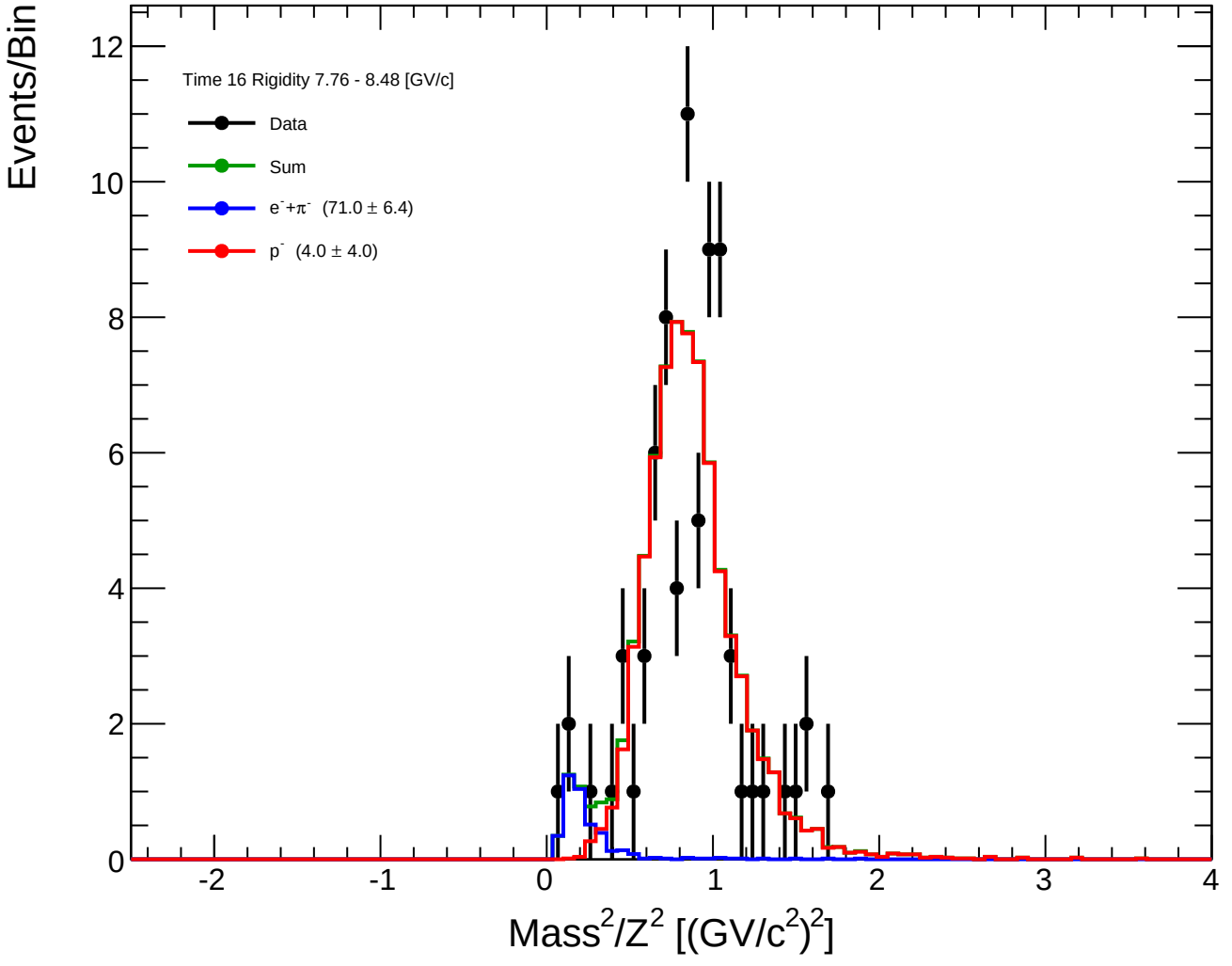

Time 16 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (120.2 ± 8.7)
p⁻ (0.0 ± 10.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
22
24
-2
-1
0
1
2
3
4

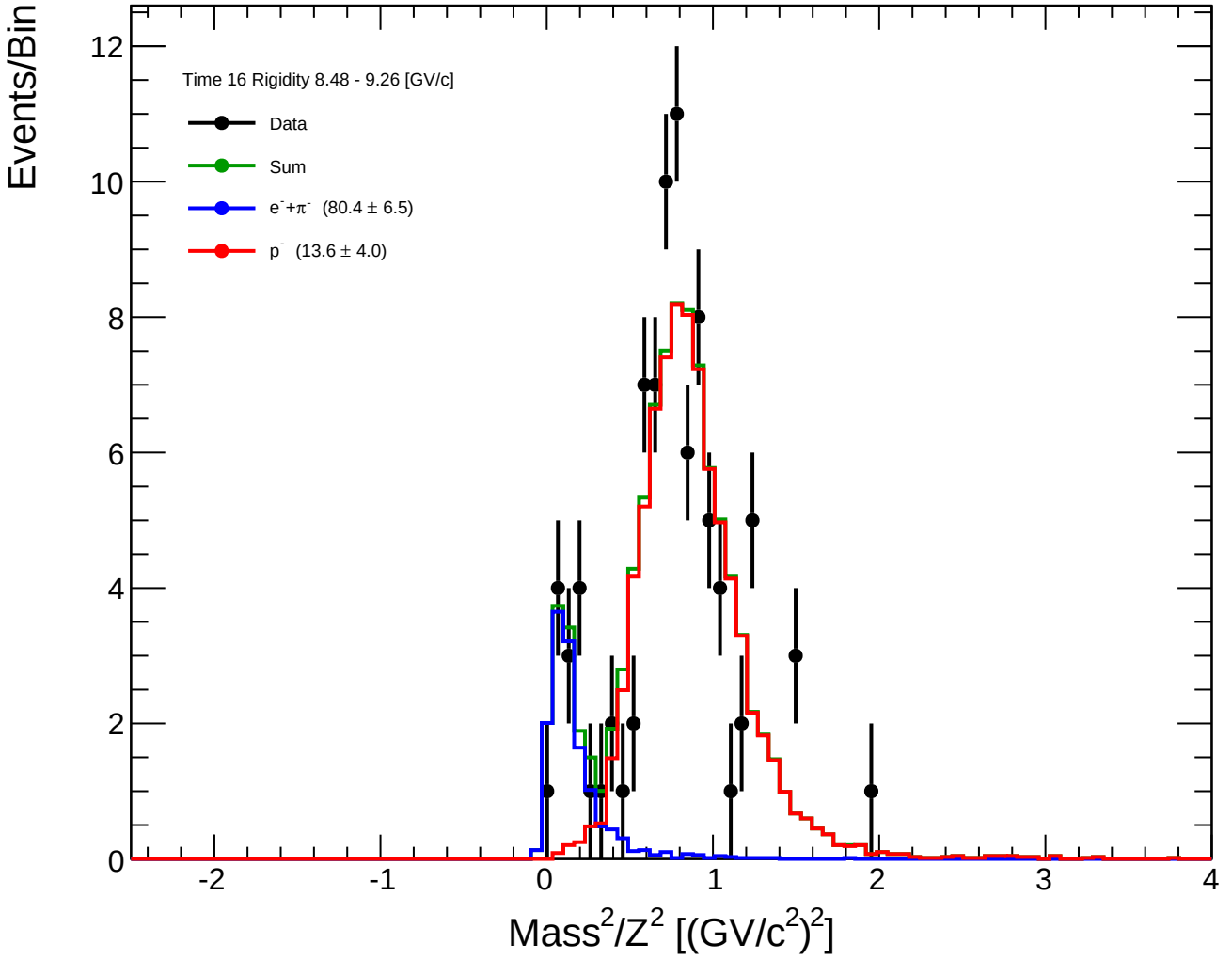

Time 16 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (94.6 ± 7.9)
p⁻ (0.0 ± 8.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
-2
-1
0
1
2
3
4

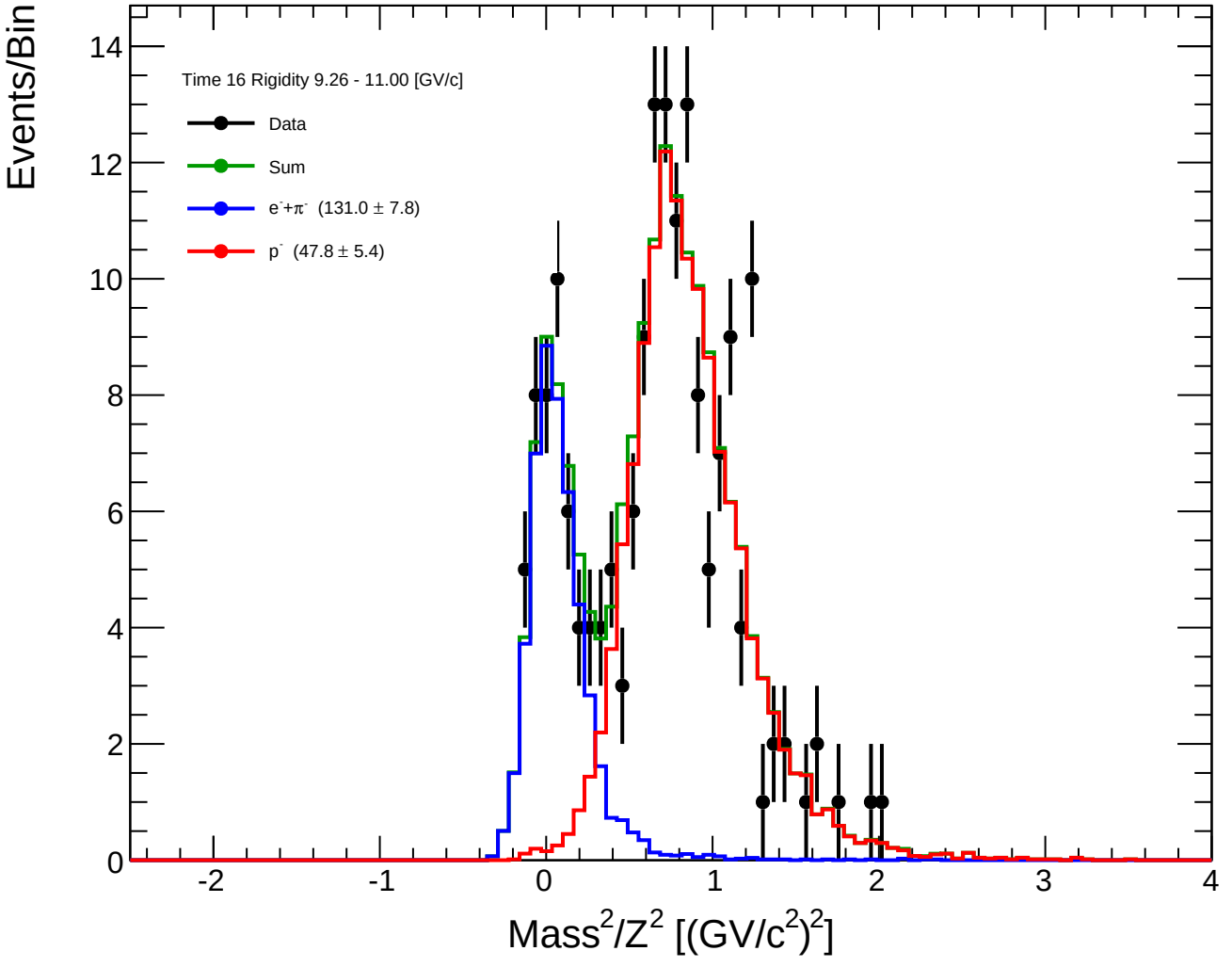

Time 16 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (79.1± 5.6)
p⁻ (0.0 ± 5.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
-2
-1
0
1
2
3
4

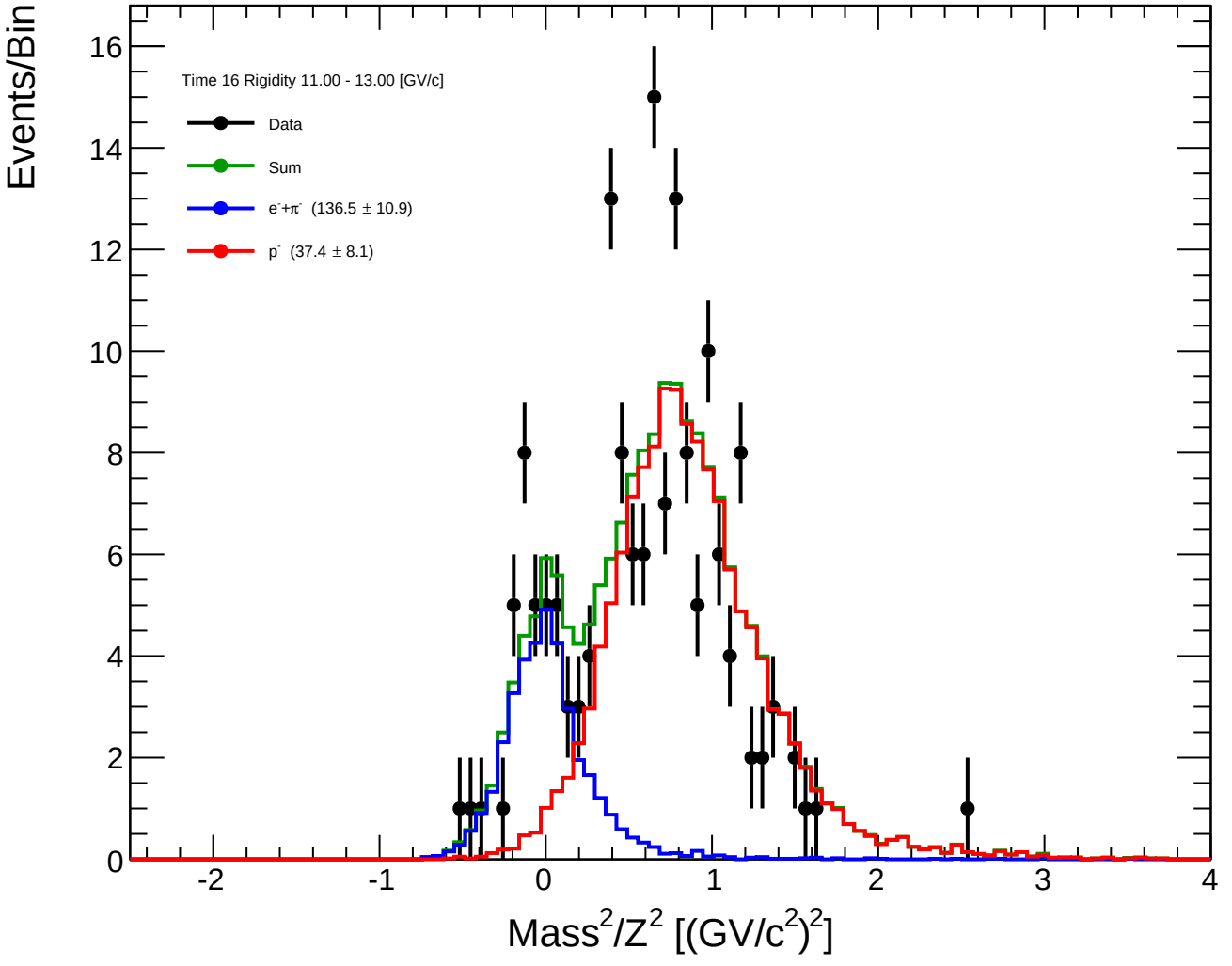

Time 16 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (84.6 ± 5.1)
p⁻ (0.0 ± 5.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
-2
-1
0
1
2
3
4

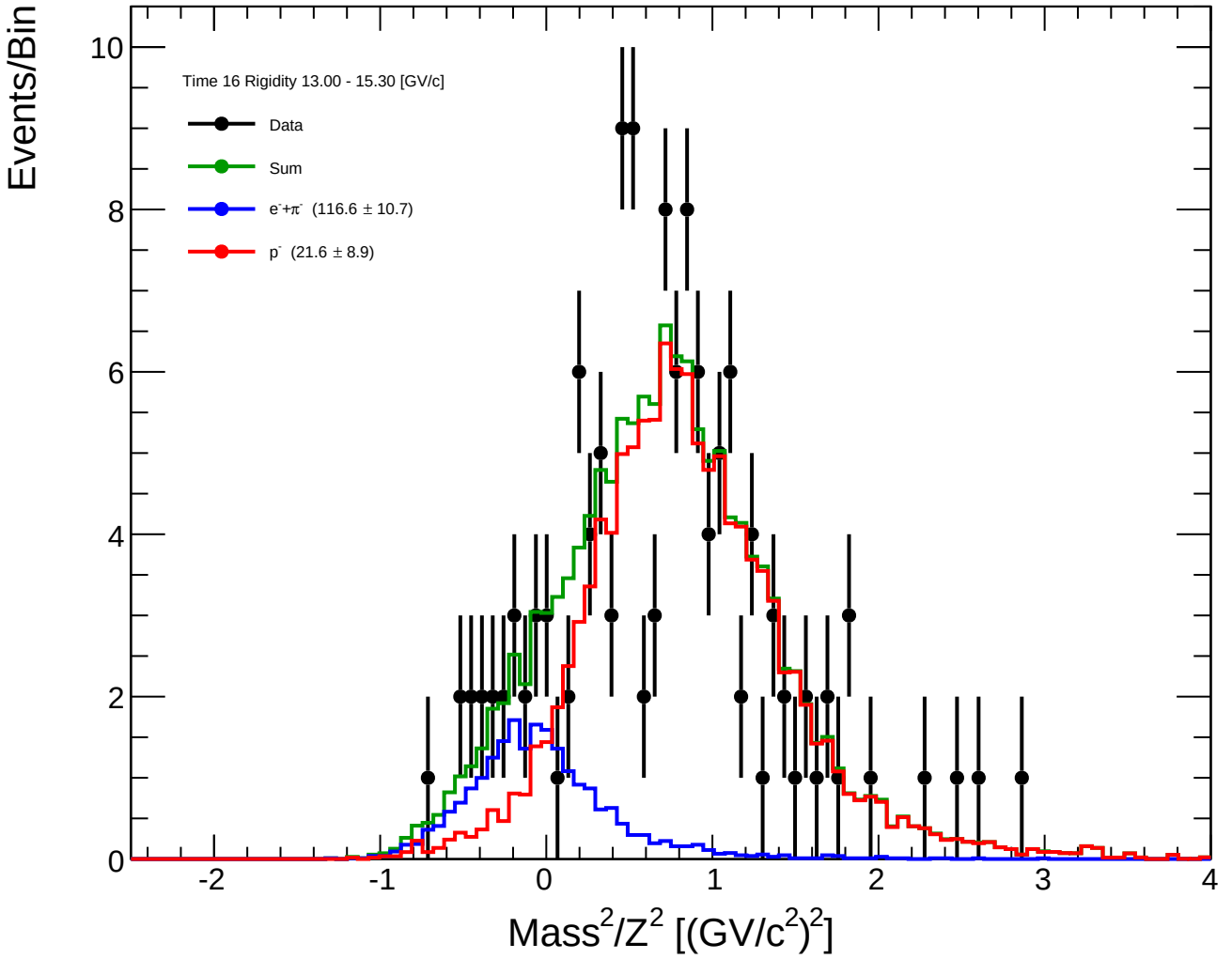

Time 16 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (76.3 ± 6.4)
p⁻ (0.0 ± 5.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
-2
-1
0
1
2
3
4

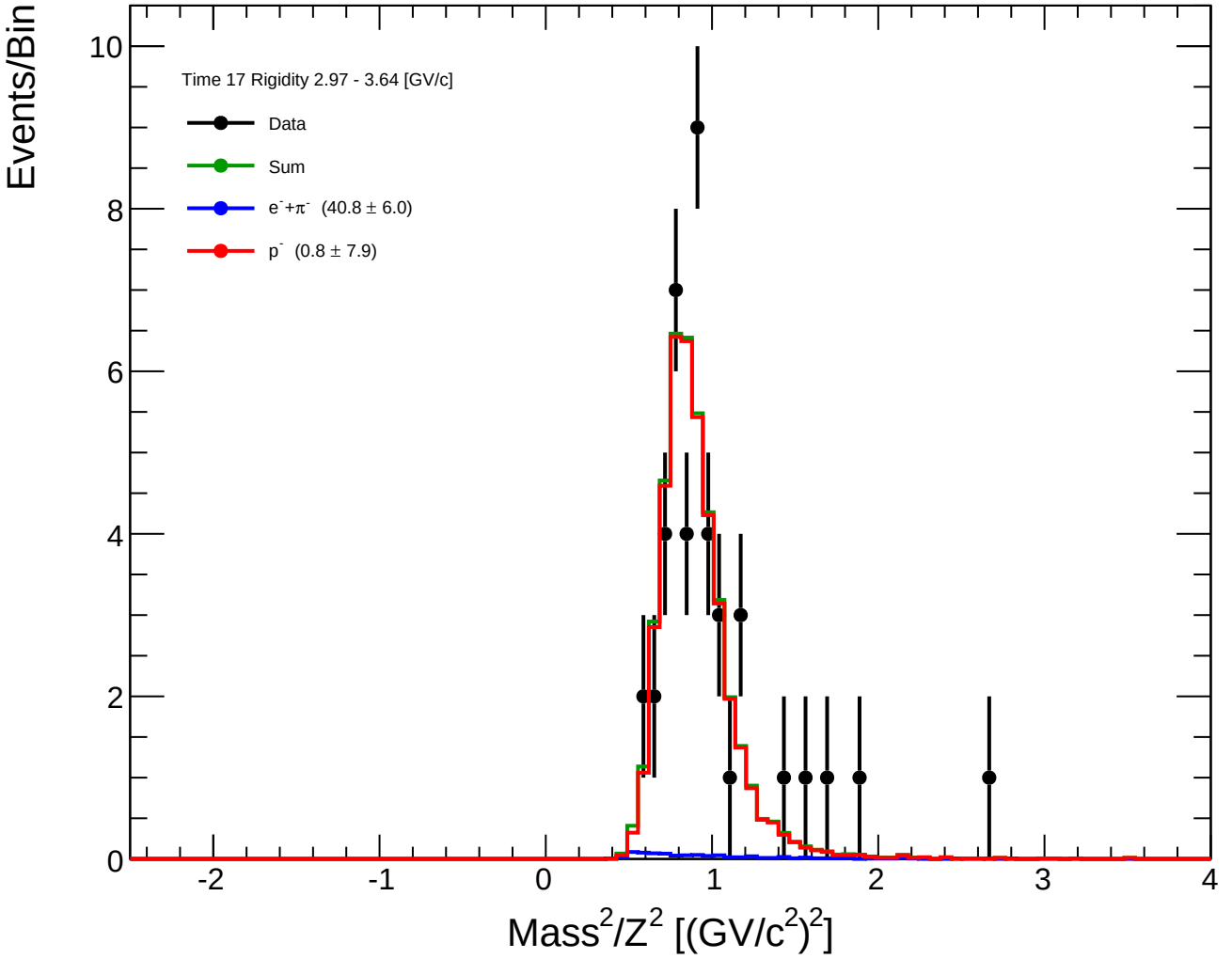

Time 16 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (71.0 ± 6.4)
p⁻ (4.0 ± 4.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
-2
-1
0
1
2
3
4

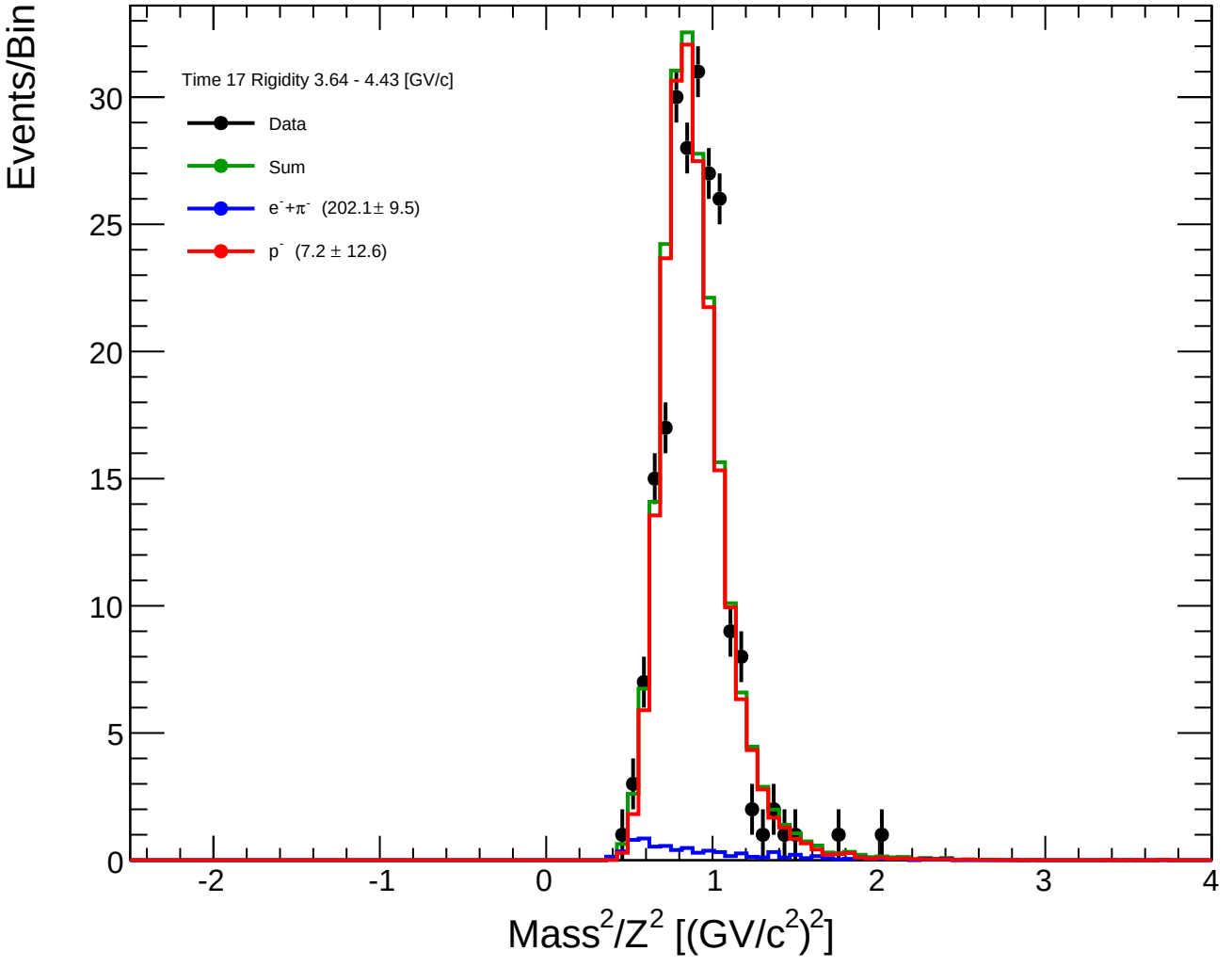

Events/Bin
Time 16 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (80.4 ± 6.5)
p⁻ (13.6 ± 4.0)
0
2
4
6
8
10
12
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

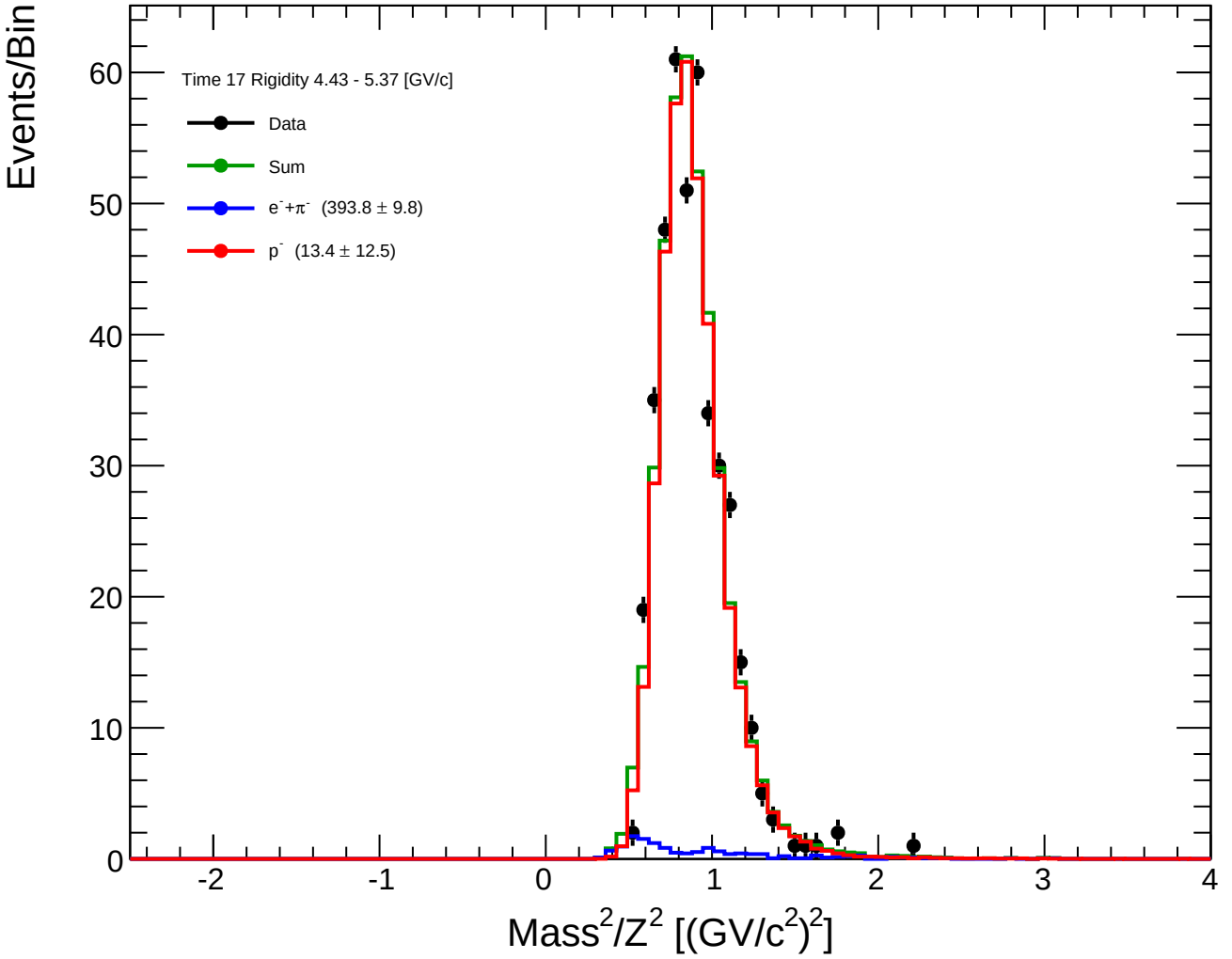

Time 16 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (131.0 ± 7.8)
p⁻ (47.8 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
-2
-1
0
1
2
3
4

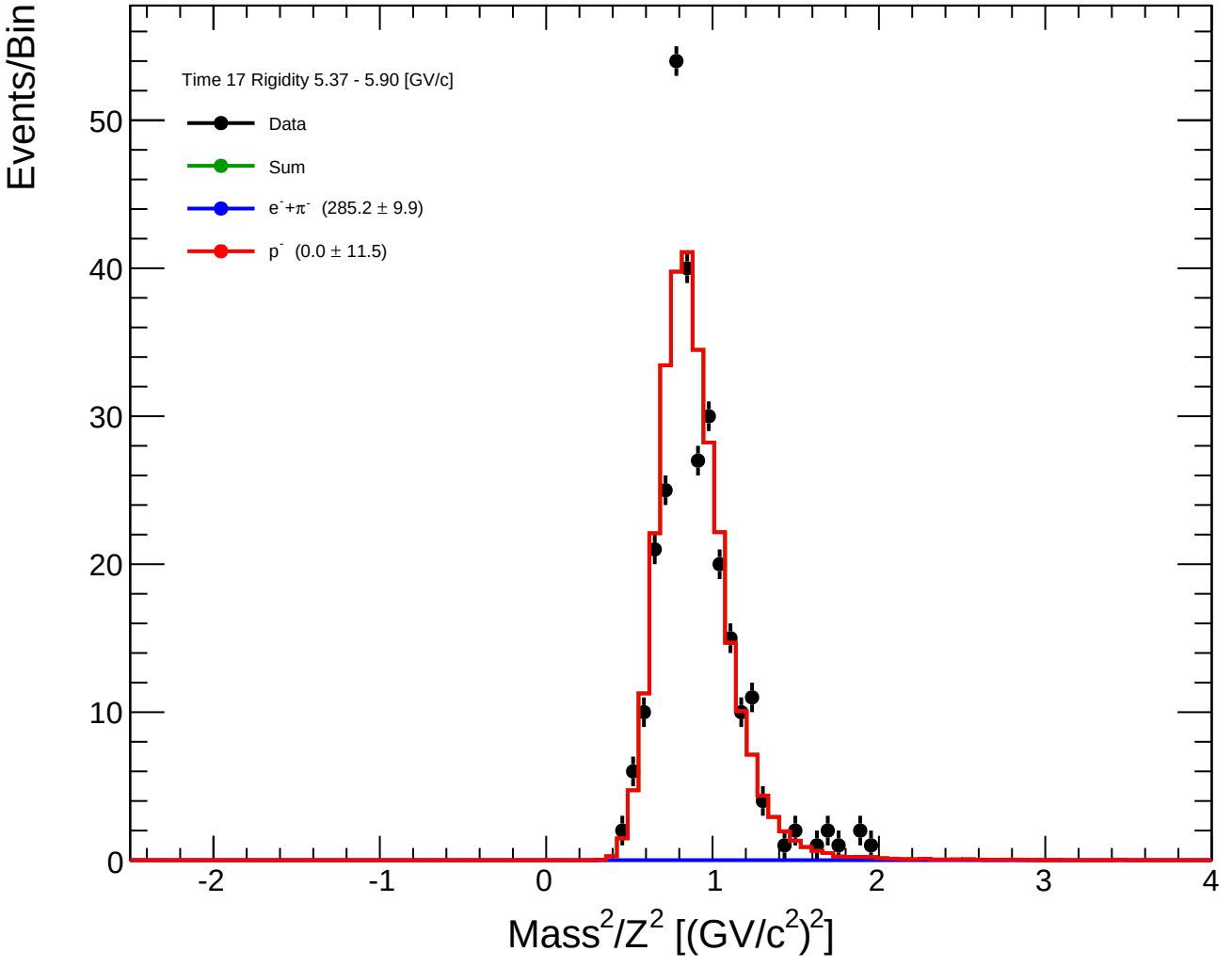

Time 16 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (136.5 ± 10.9)
p⁻ (37.4 ± 8.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
-2
-1
0
1
2
3
4

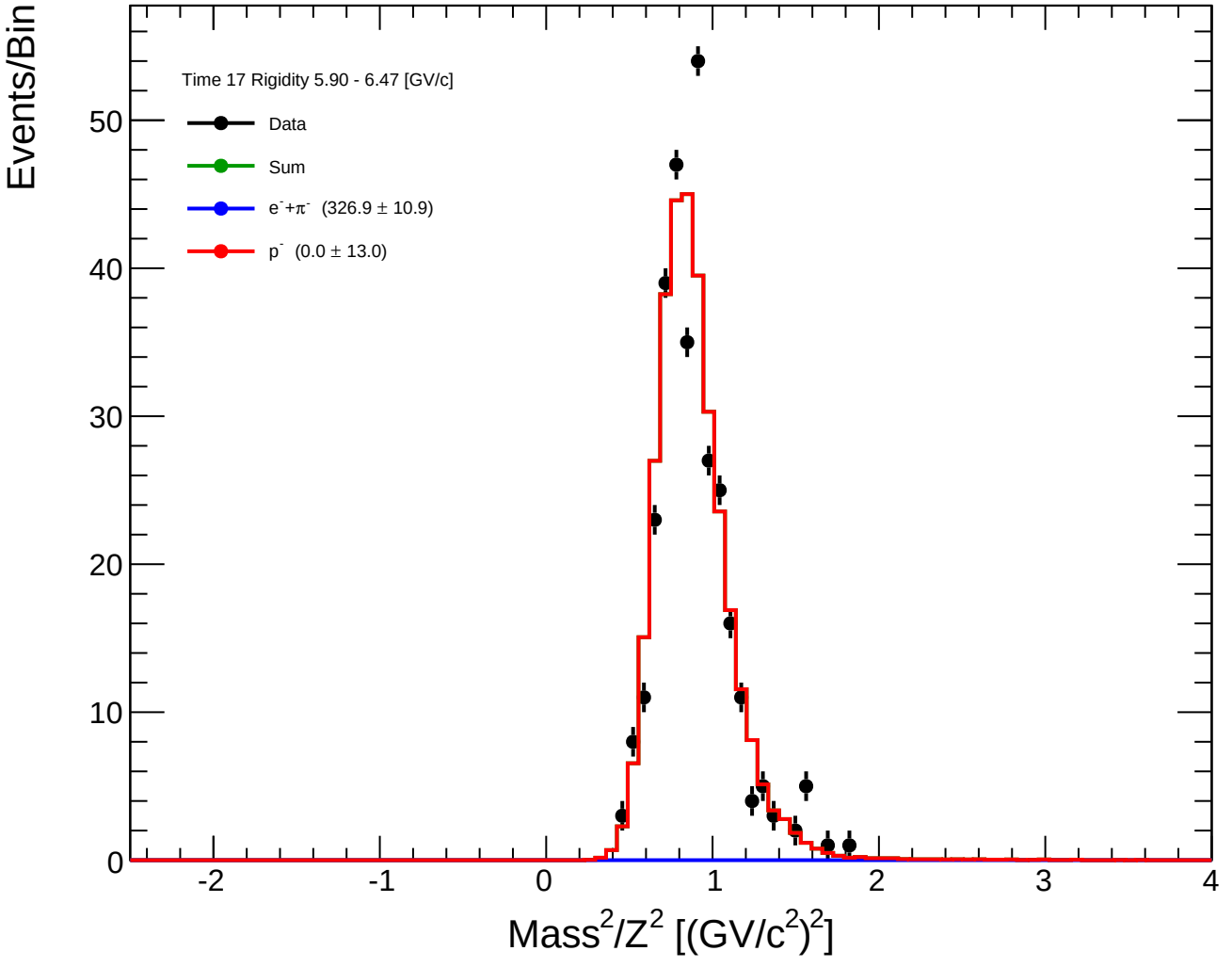

Events/Bin
Time 16 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (116.6 ± 10.7)
p⁻ (21.6 ± 8.9)
Mass²/Z² [(GV/c²)²]

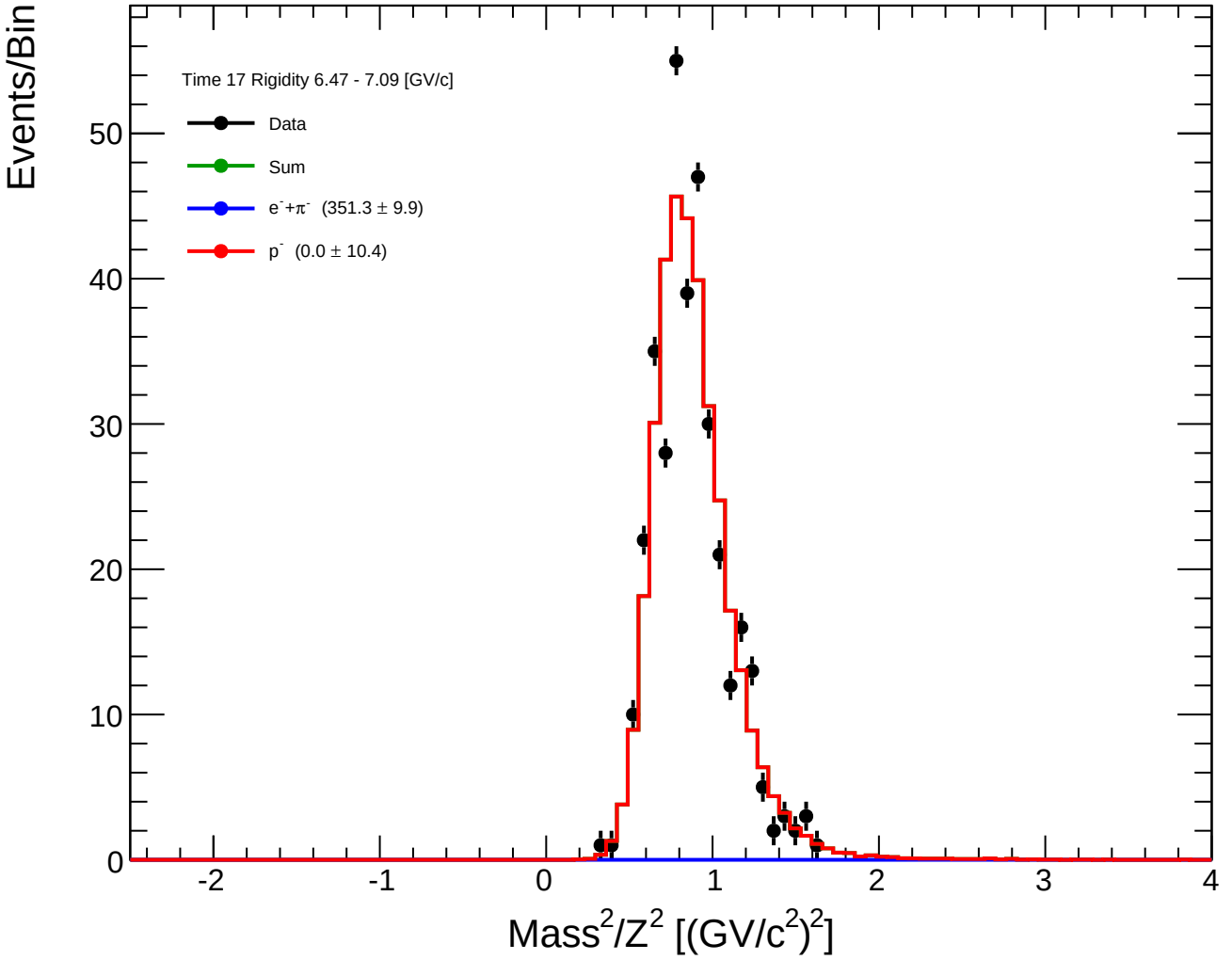

Events/Bin
Time 17 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (40.8 ± 6.0)
p⁻ (0.8 ± 7.9)
Mass²/Z² [(GV/c²)²]

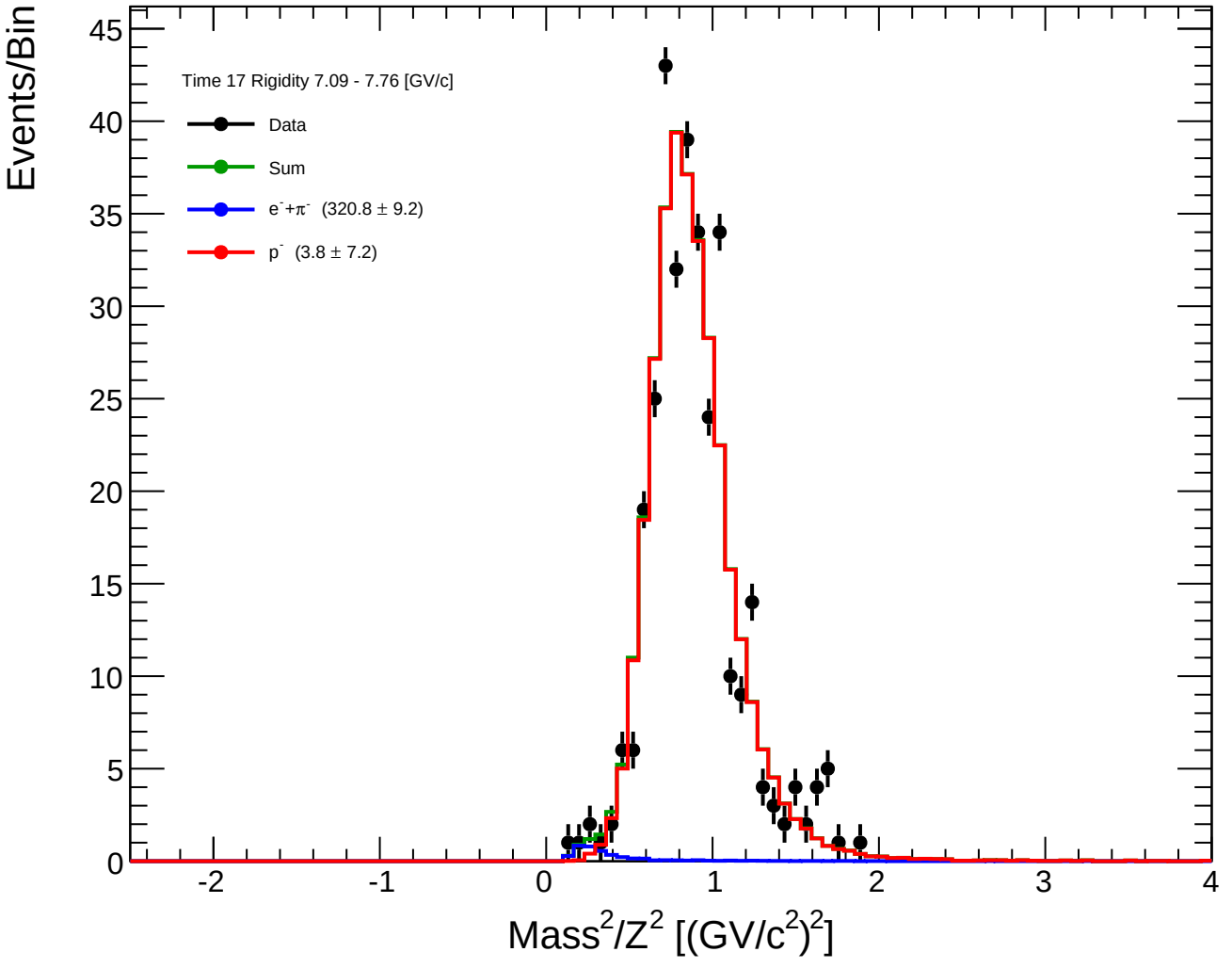

Time 17 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (202.1± 9.5)
p⁻ (7.2 ± 12.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

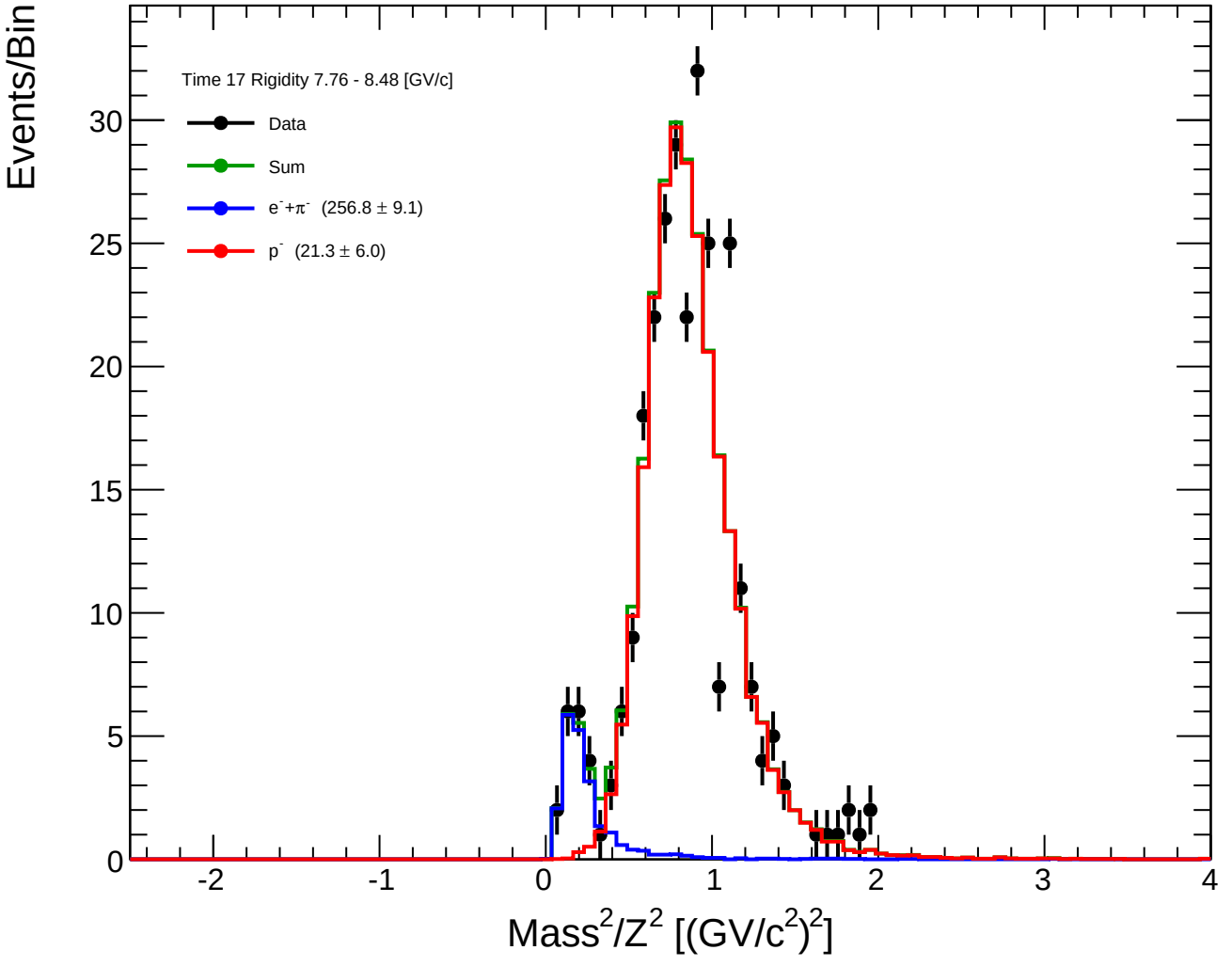

Time 17 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (393.8 ± 9.8)
p⁻ (13.4 ± 12.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

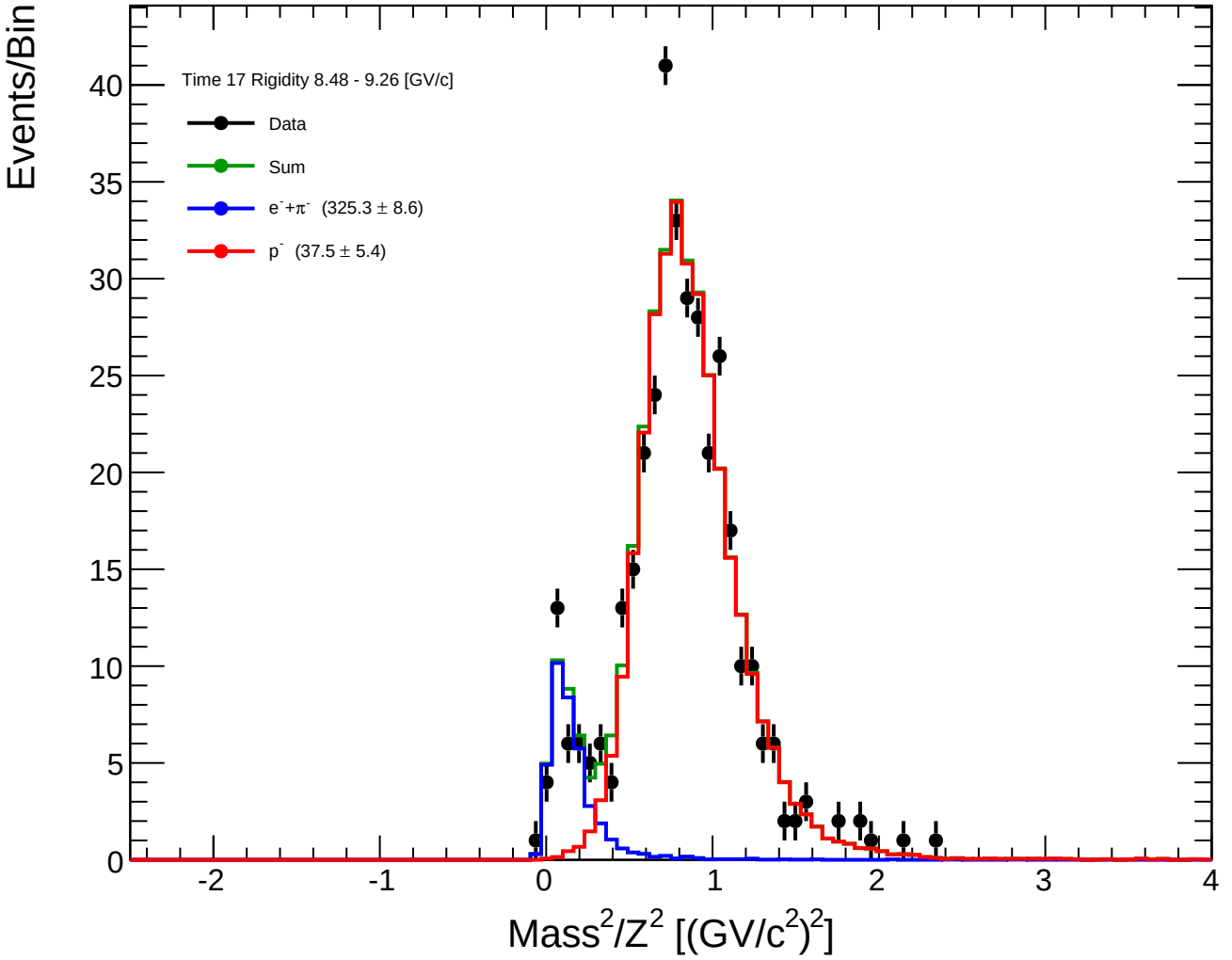

Time 17 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (285.2 ± 9.9)
p⁻ (0.0 ± 11.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

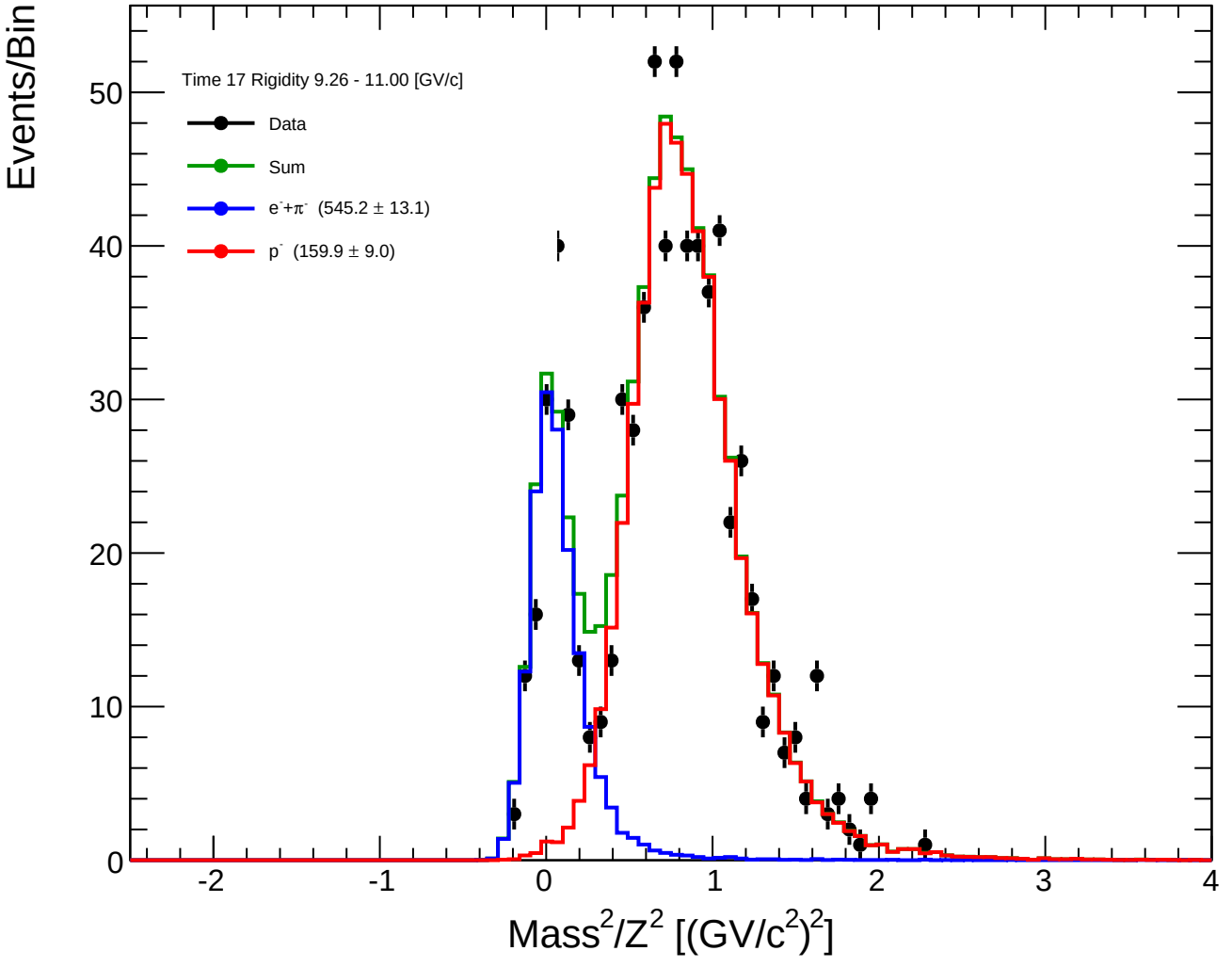

Time 17 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (326.9 ± 10.9)
p⁻ (0.0 ± 13.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

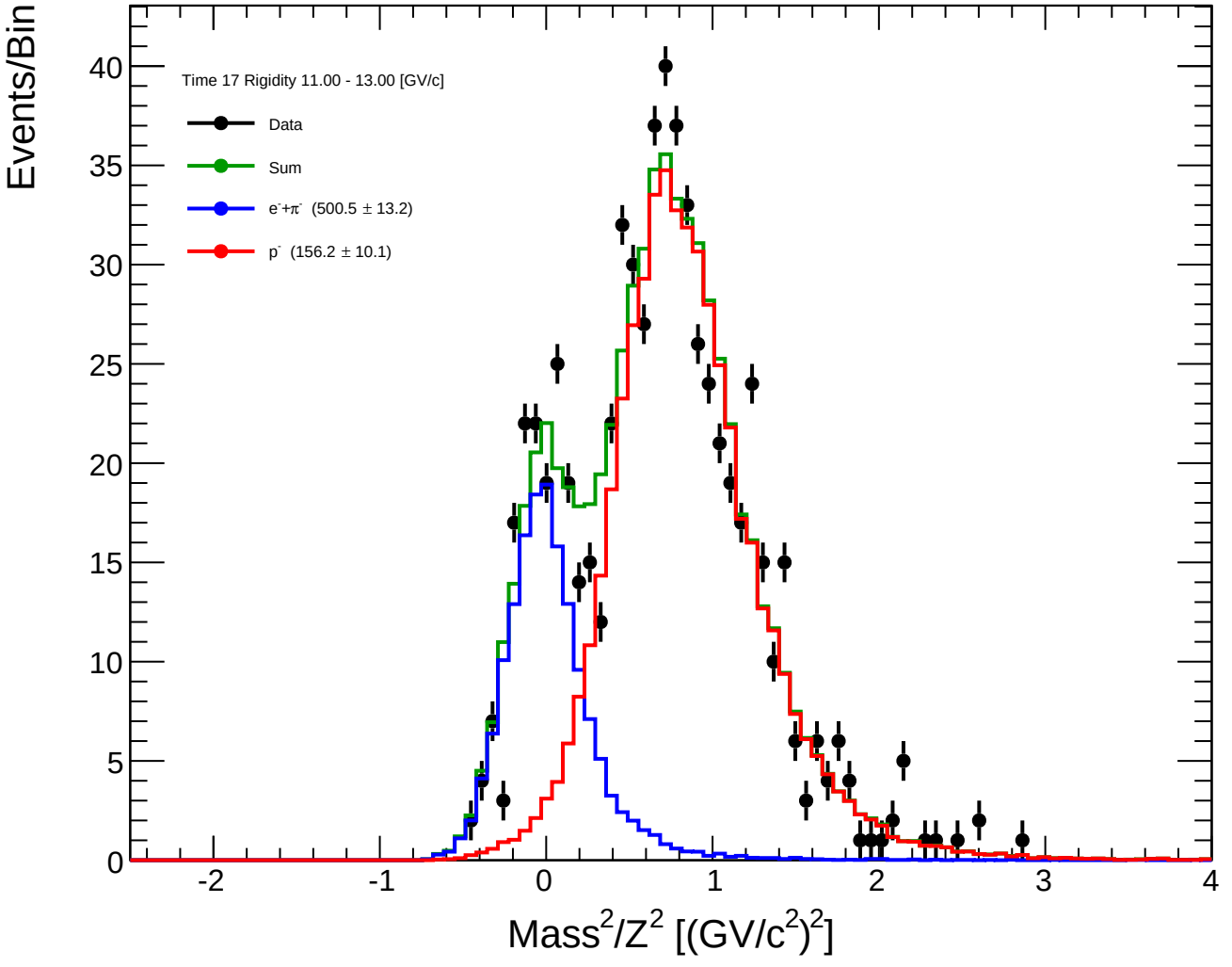

Time 17 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (351.3 ± 9.9)
p⁻ (0.0 ± 10.4)
Events/Bin
0
10
20
30
40
50
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

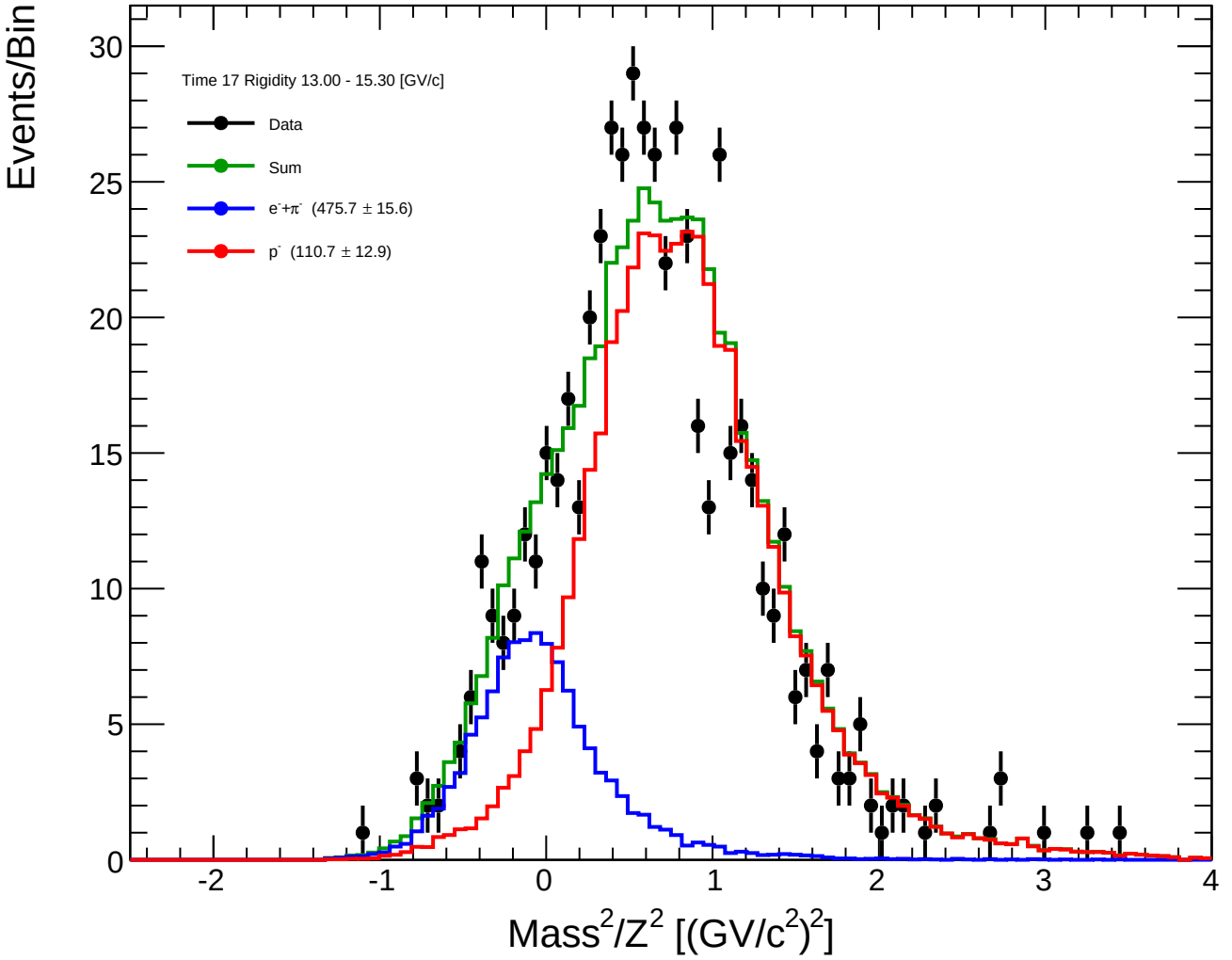

Time 17 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (320.8 ± 9.2)
p⁻ (3.8 ± 7.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

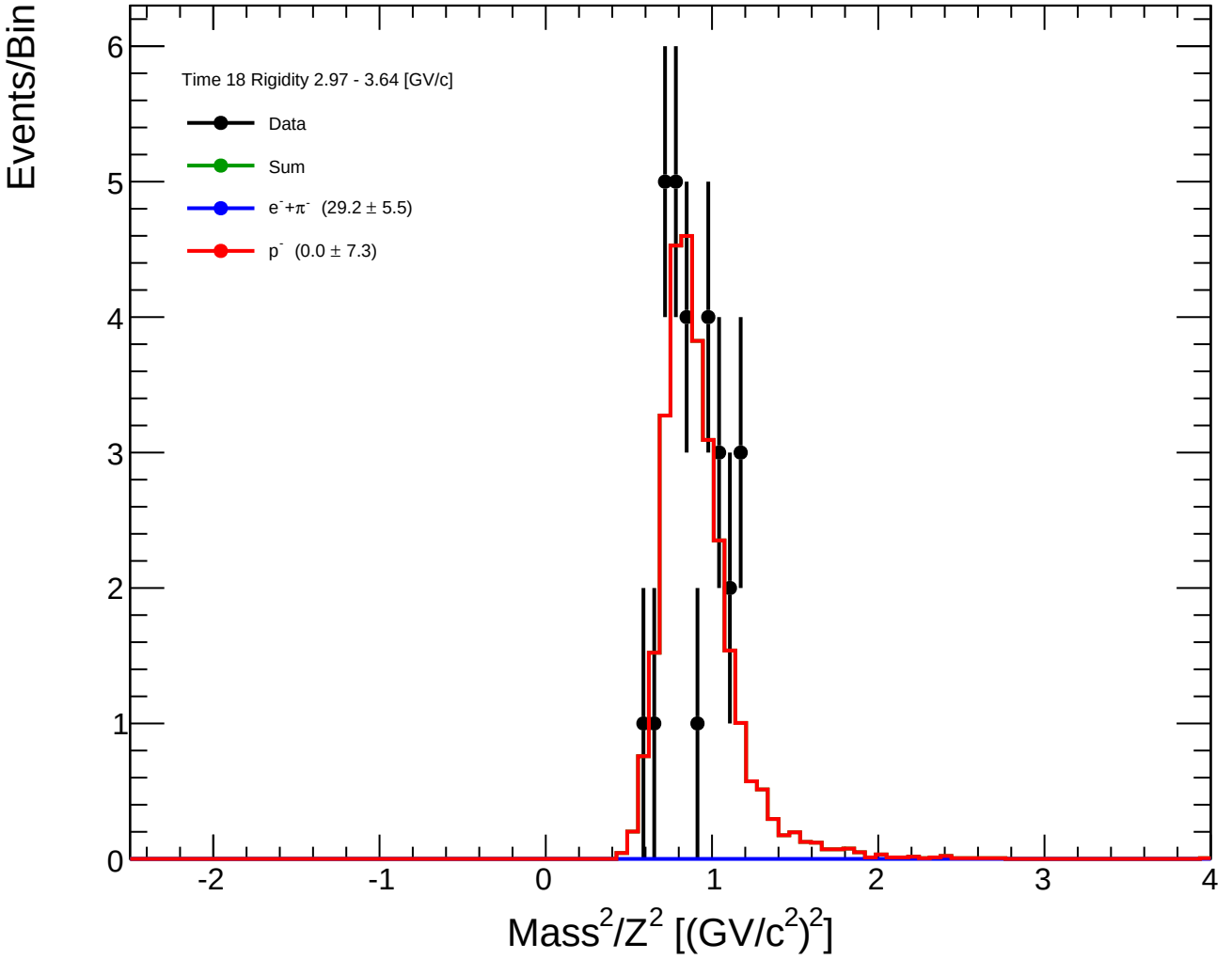

Time 17 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (256.8 ± 9.1)
p⁻ (21.3 ± 6.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

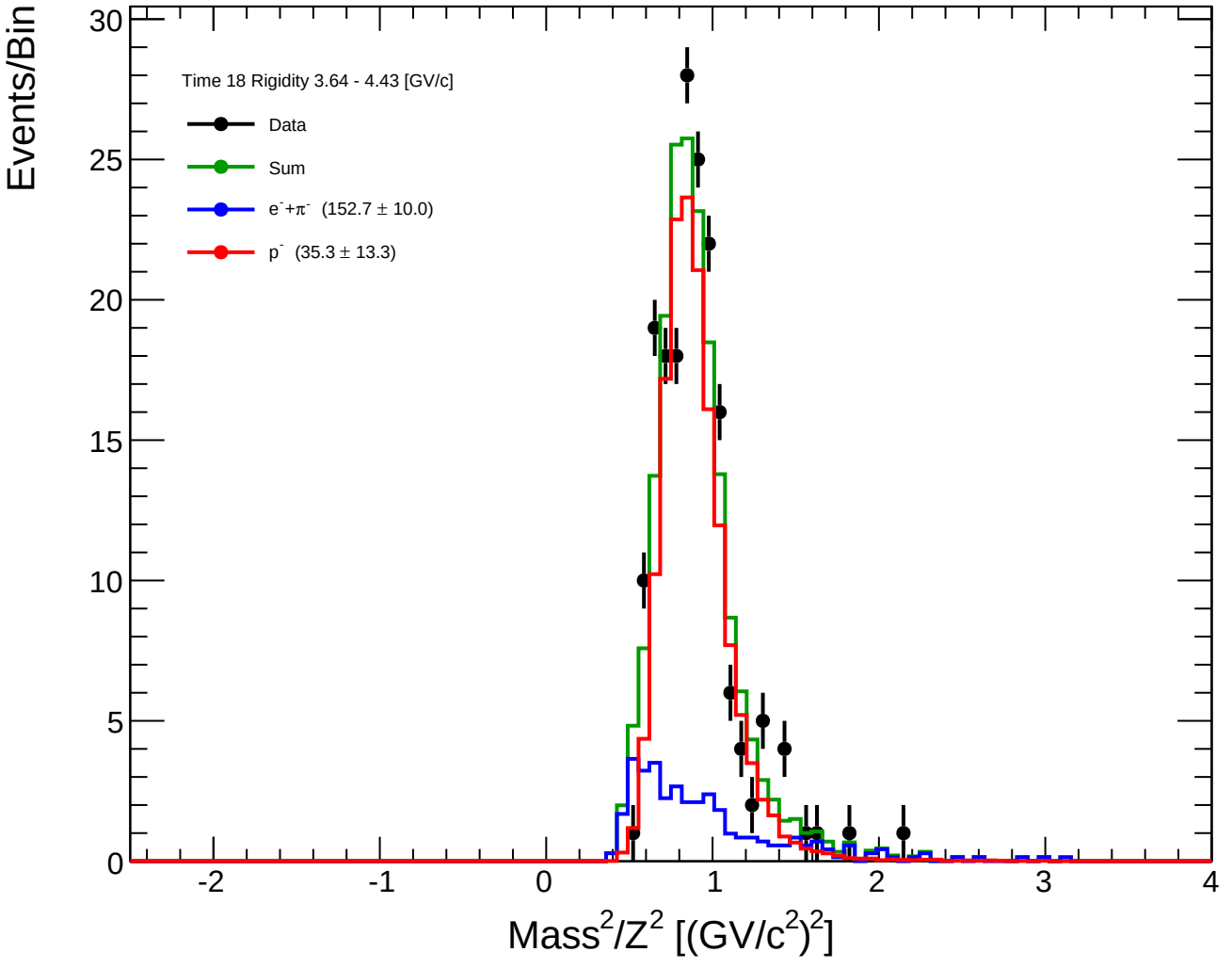

Time 17 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (325.3 ± 8.6)
p⁻ (37.5 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

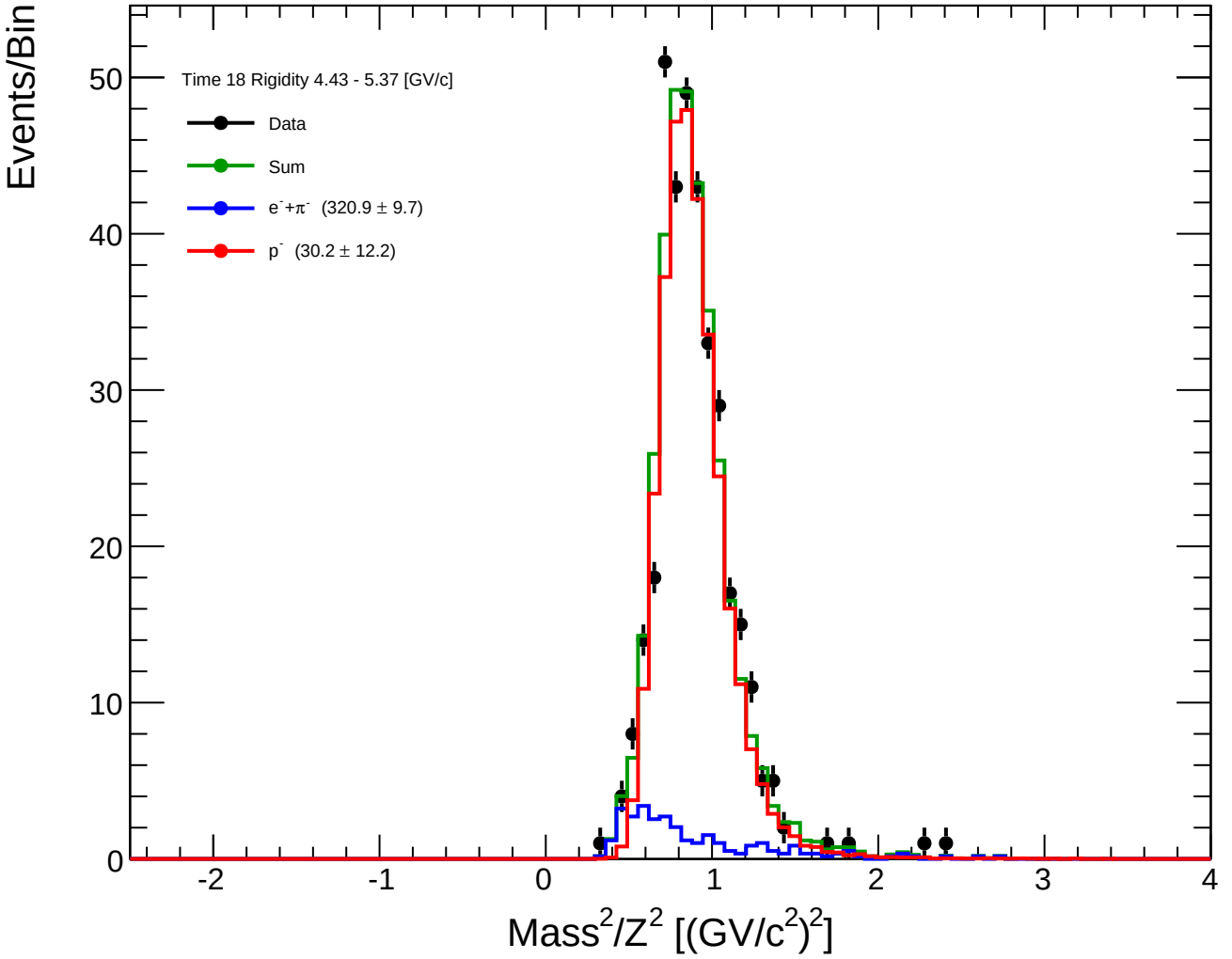

Time 17 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (545.2 ± 13.1)
p⁻ (159.9 ± 9.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

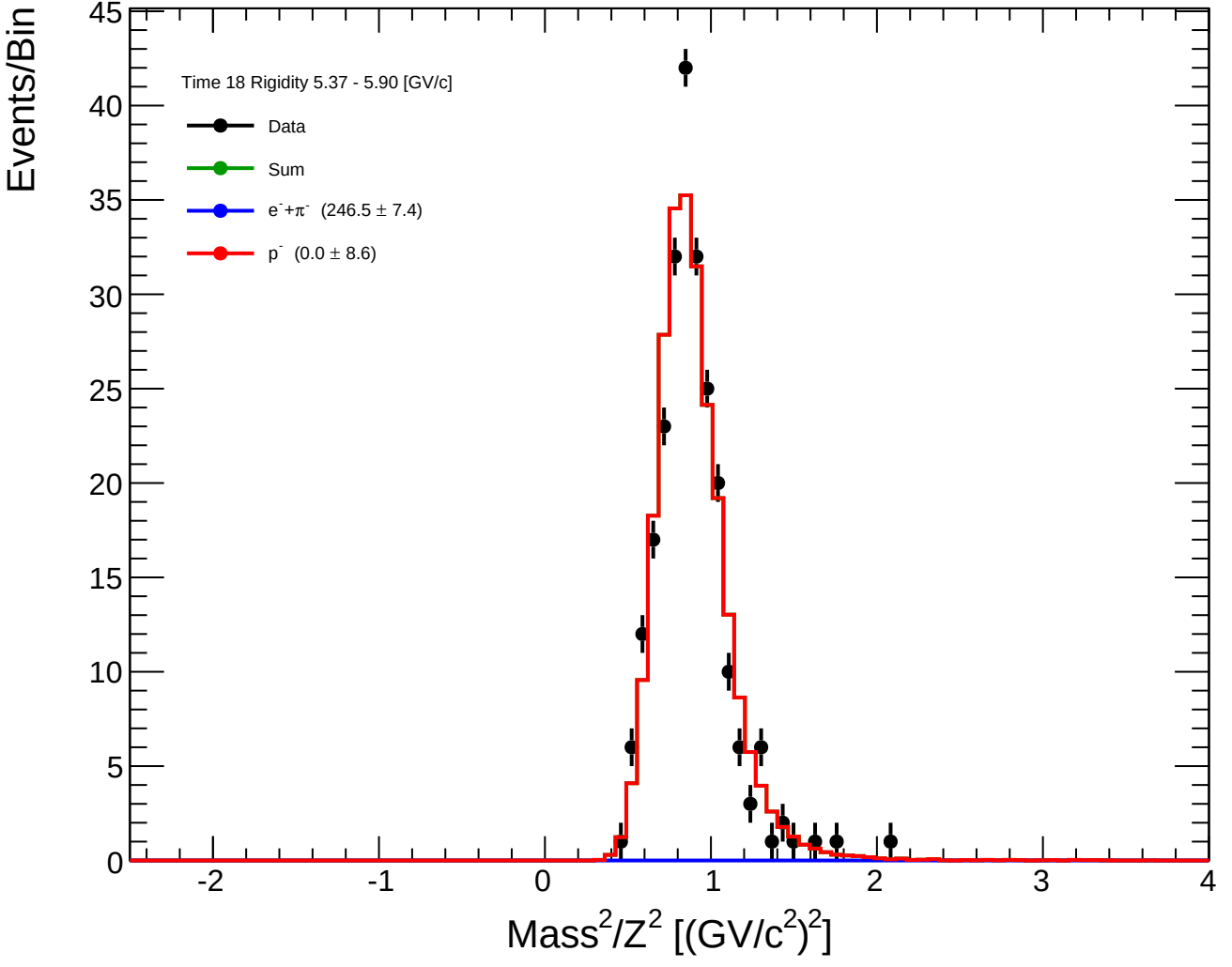

Time 17 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (500.5 ± 13.2)
p⁻ (156.2 ± 10.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

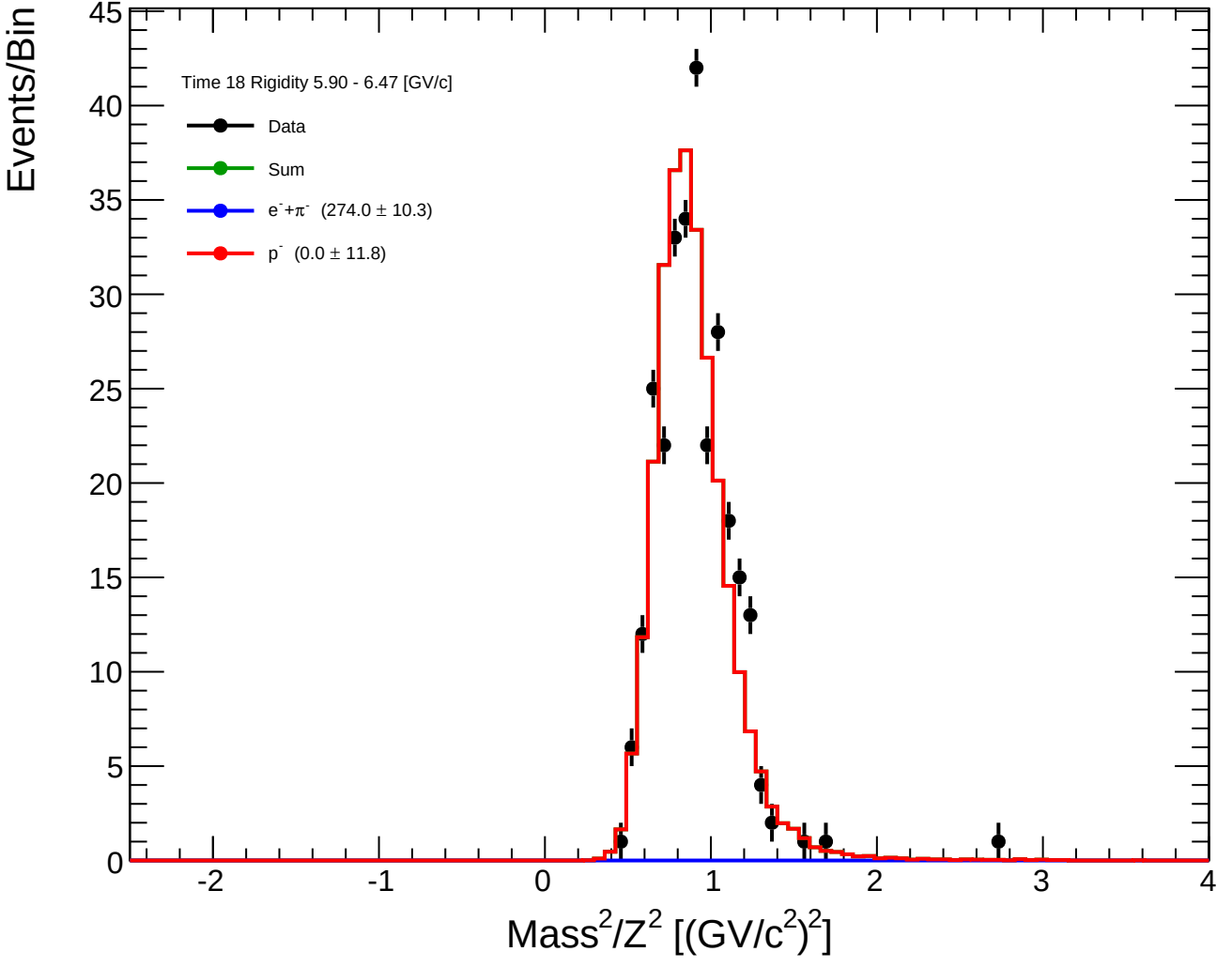

Time 17 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (475.7 ± 15.6)
p⁻ (110.7 ± 12.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

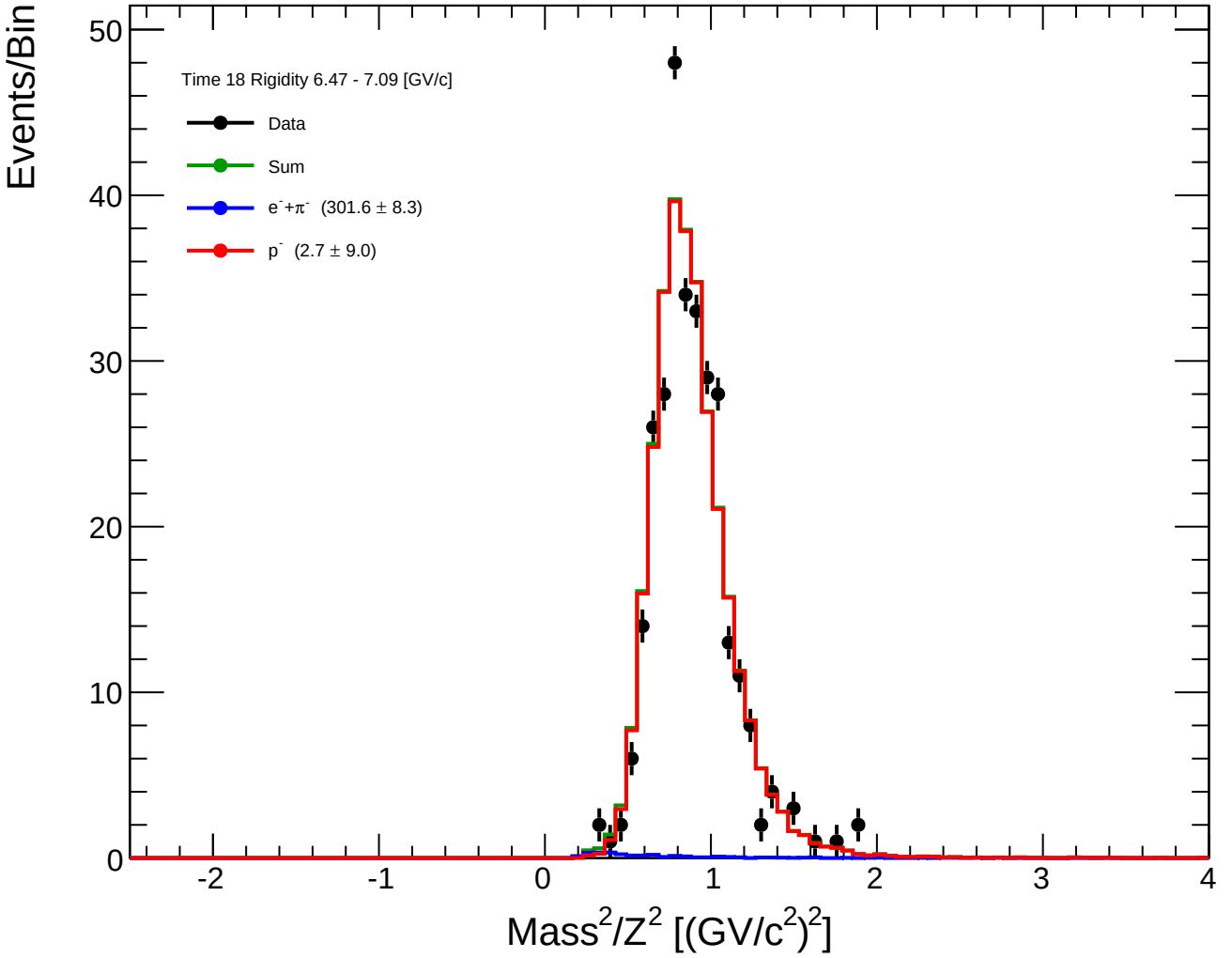

Events/Bin
Time 18 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (29.2 ± 5.5)
p⁻ (0.0 ± 7.3)
0
1
2
3
4
5
6
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

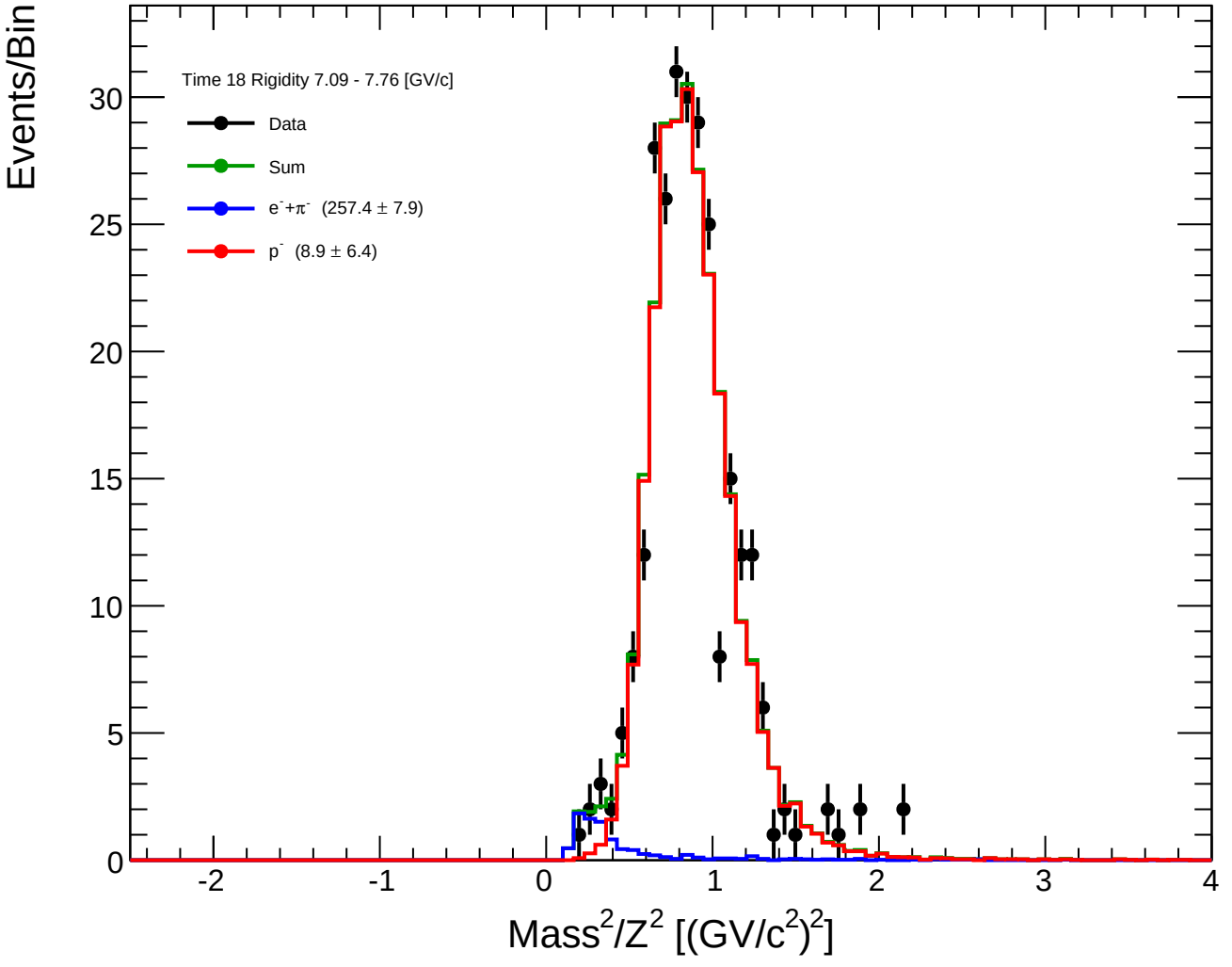

Time 18 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (152.7 ± 10.0)
p⁻ (35.3 ± 13.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

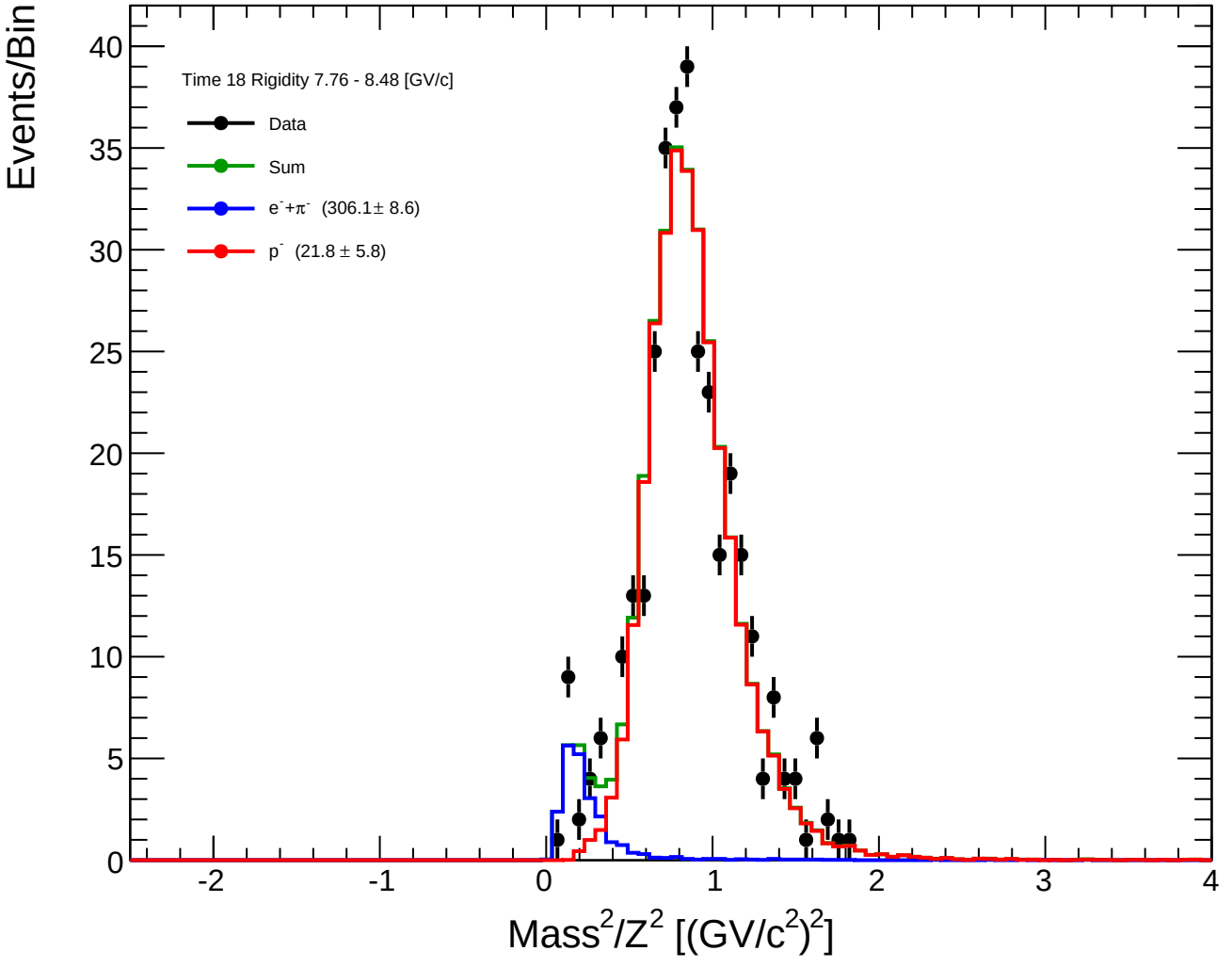

Time 18 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (320.9 ± 9.7)
p⁻ (30.2 ± 12.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

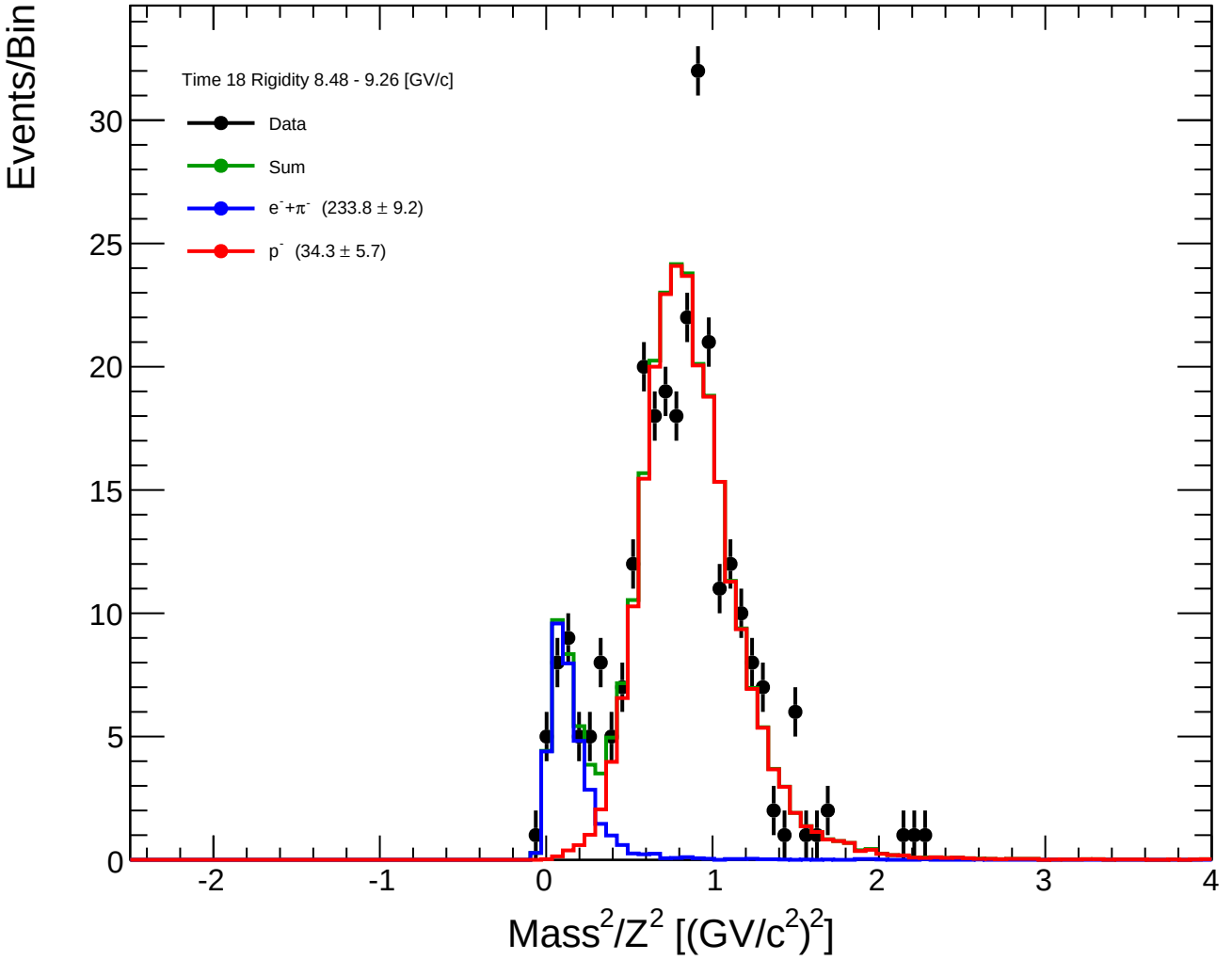

Time 18 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (246.5 ± 7.4)
p⁻ (0.0 ± 8.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

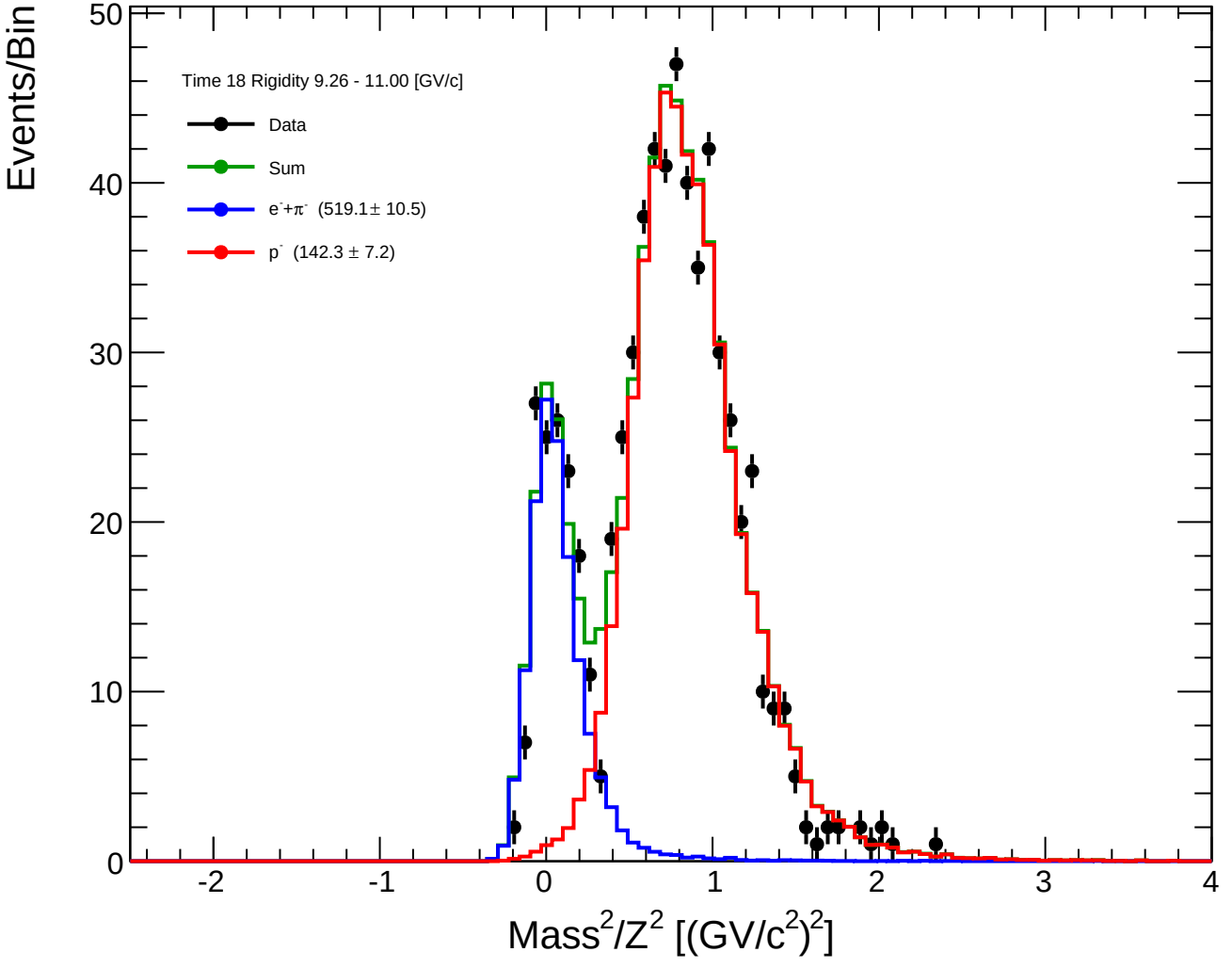

Time 18 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (274.0 ± 10.3)
p⁻ (0.0 ± 11.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

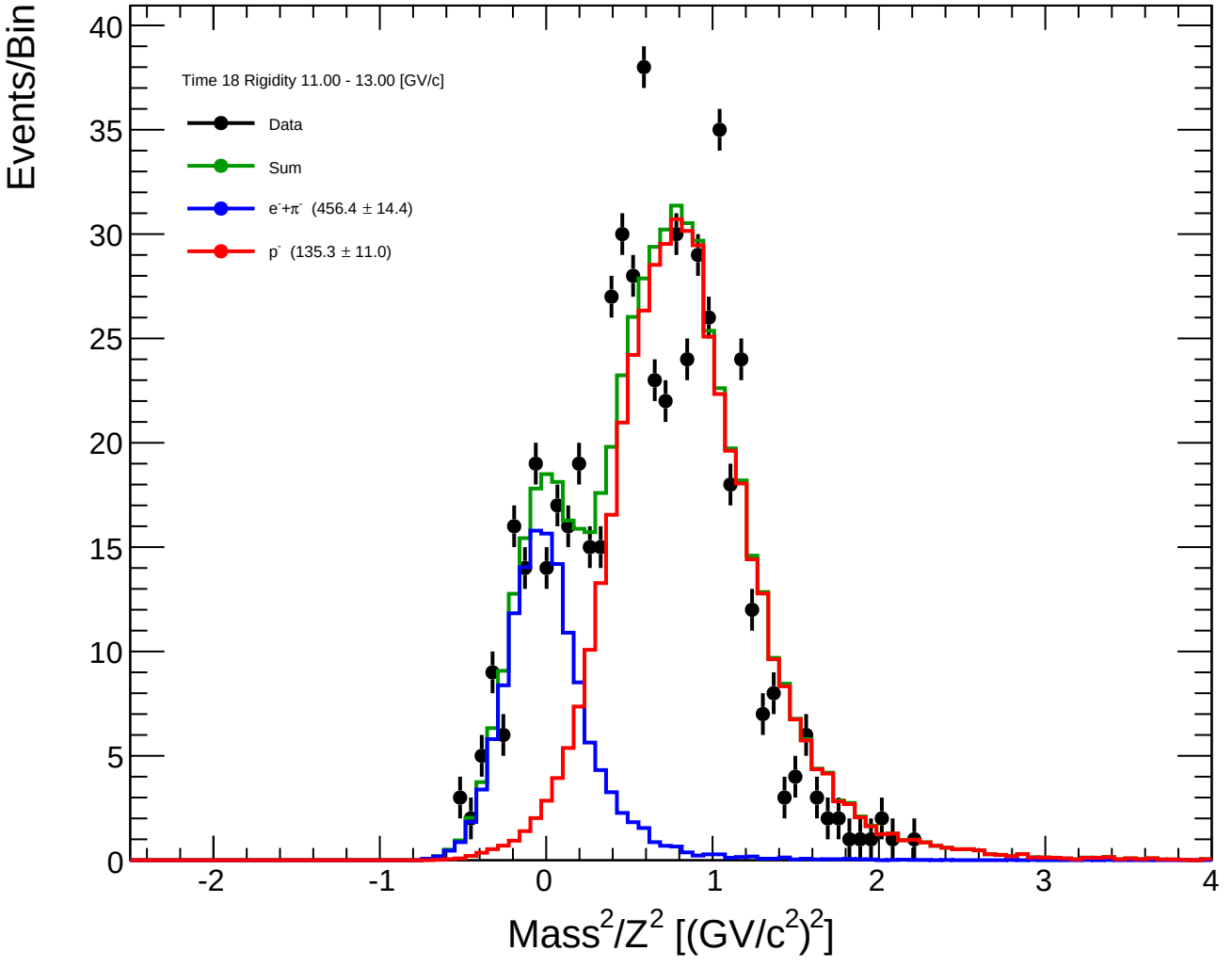

Time 18 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (301.6 ± 8.3)
p⁻ (2.7 ± 9.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

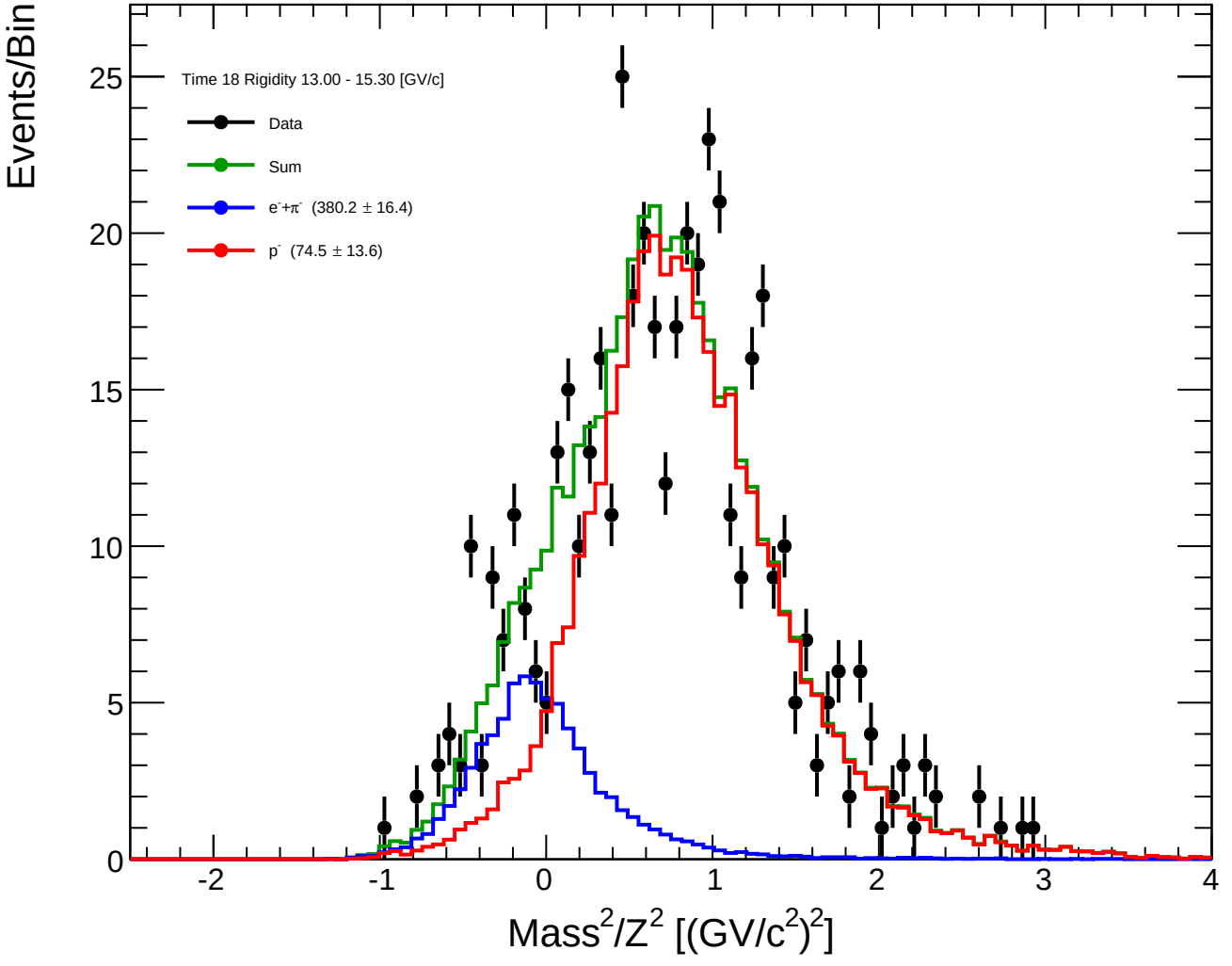

Time 18 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (257.4 ± 7.9)
p⁻ (8.9 ± 6.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

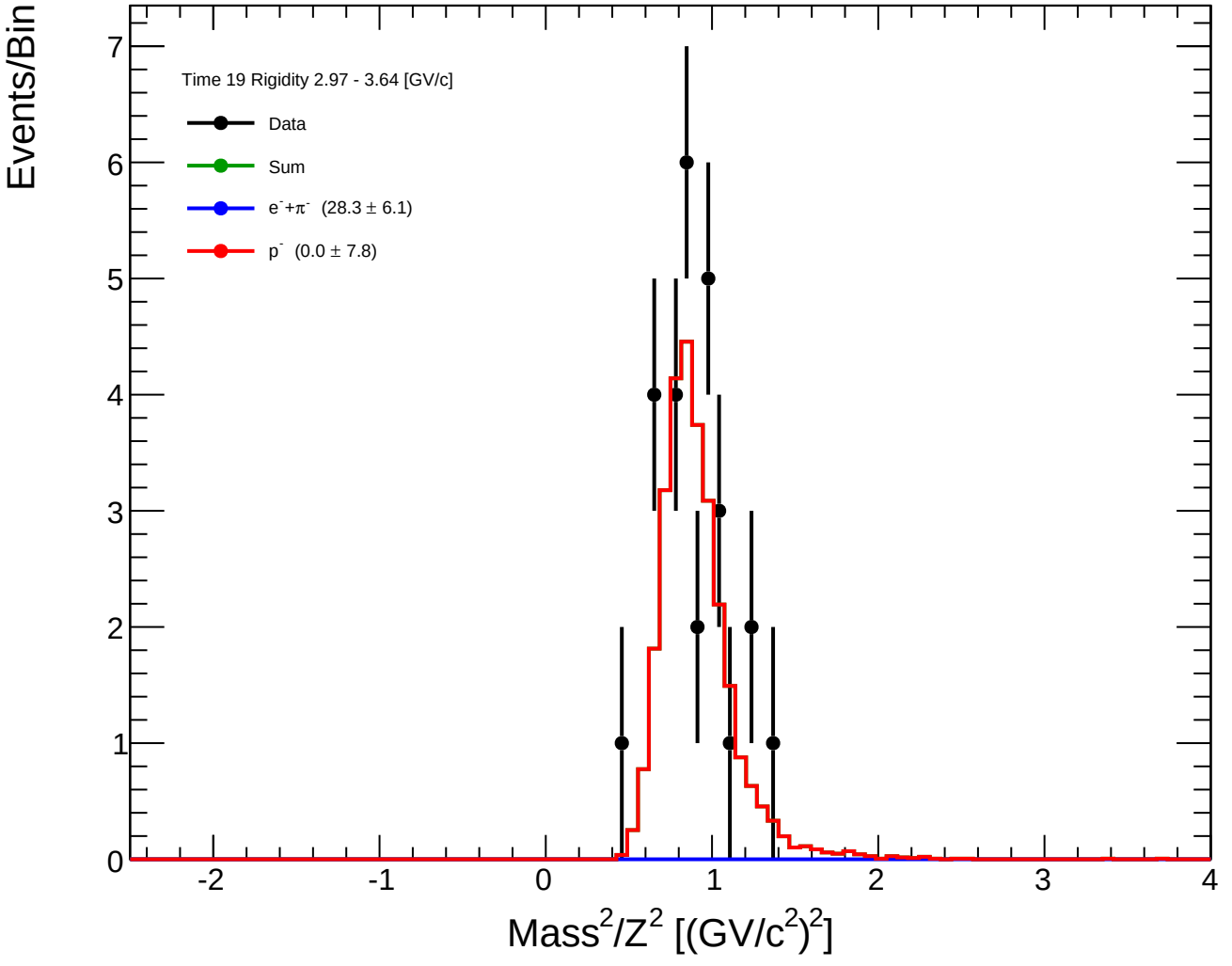

Time 18 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (306.1± 8.6)
p⁻ (21.8 ± 5.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

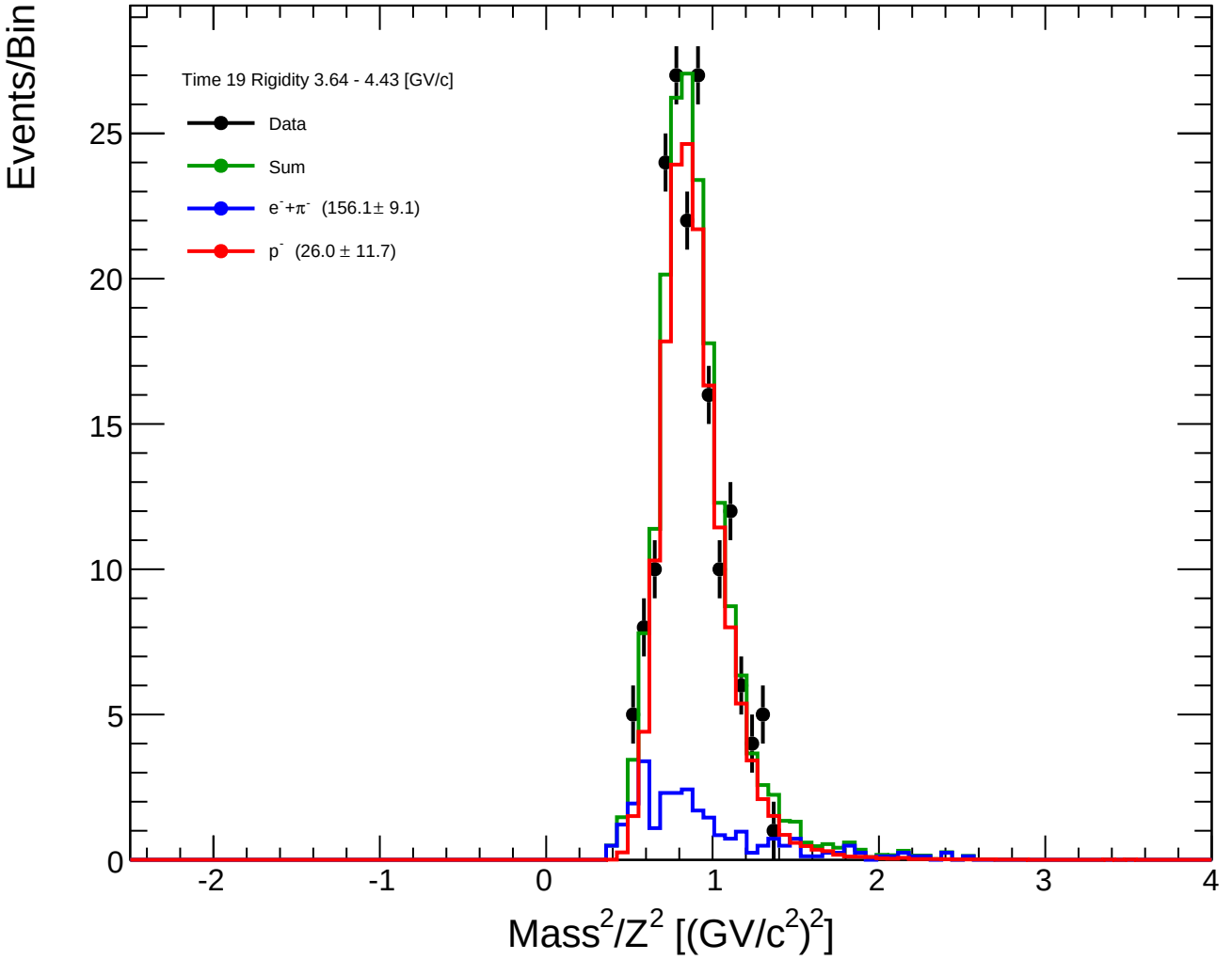

Time 18 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (233.8 ± 9.2)
p⁻ (34.3 ± 5.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

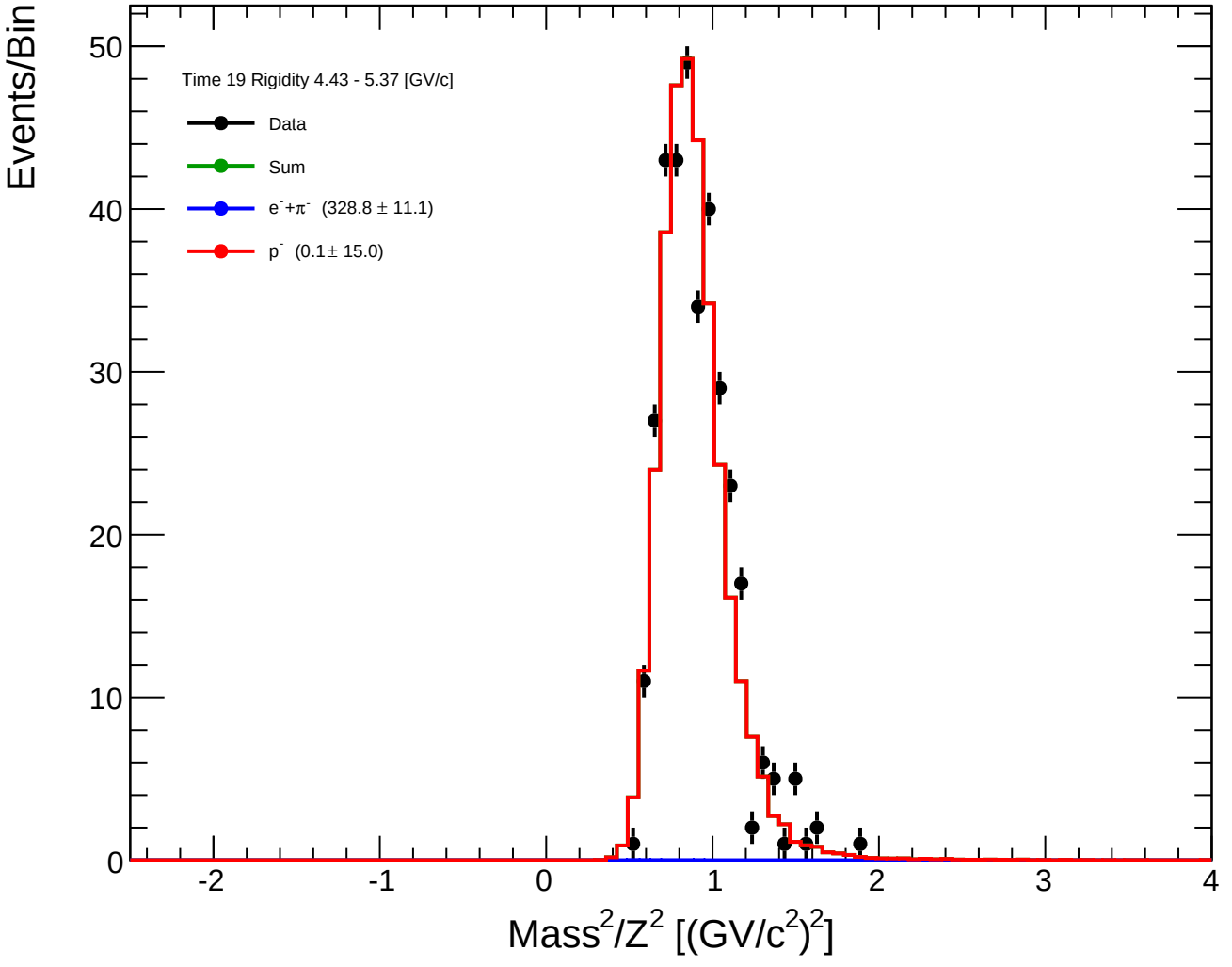

Time 18 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (519.1± 10.5)
p⁻ (142.3 ± 7.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

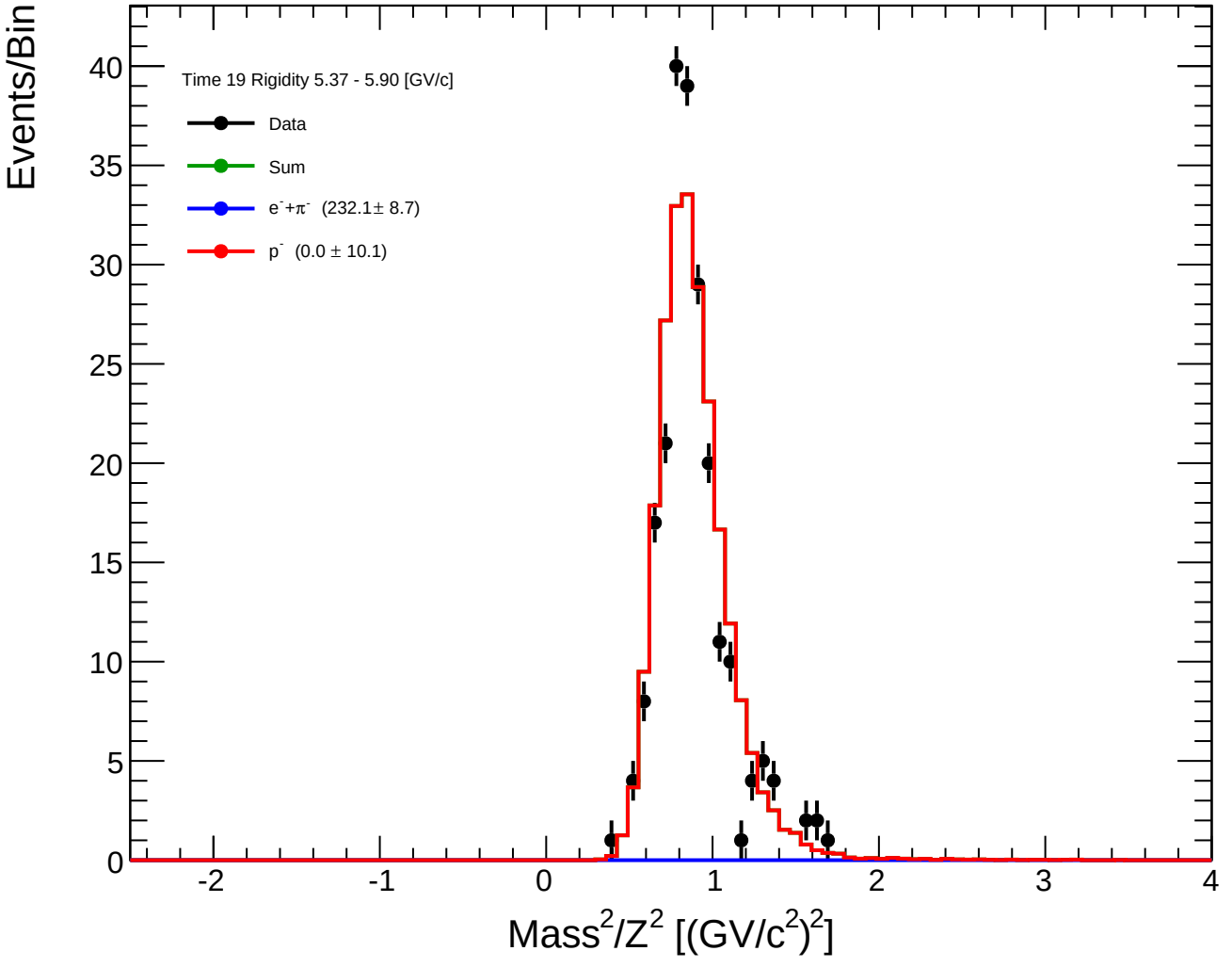

Time 18 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (456.4 ± 14.4)
p⁻ (135.3 ± 11.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

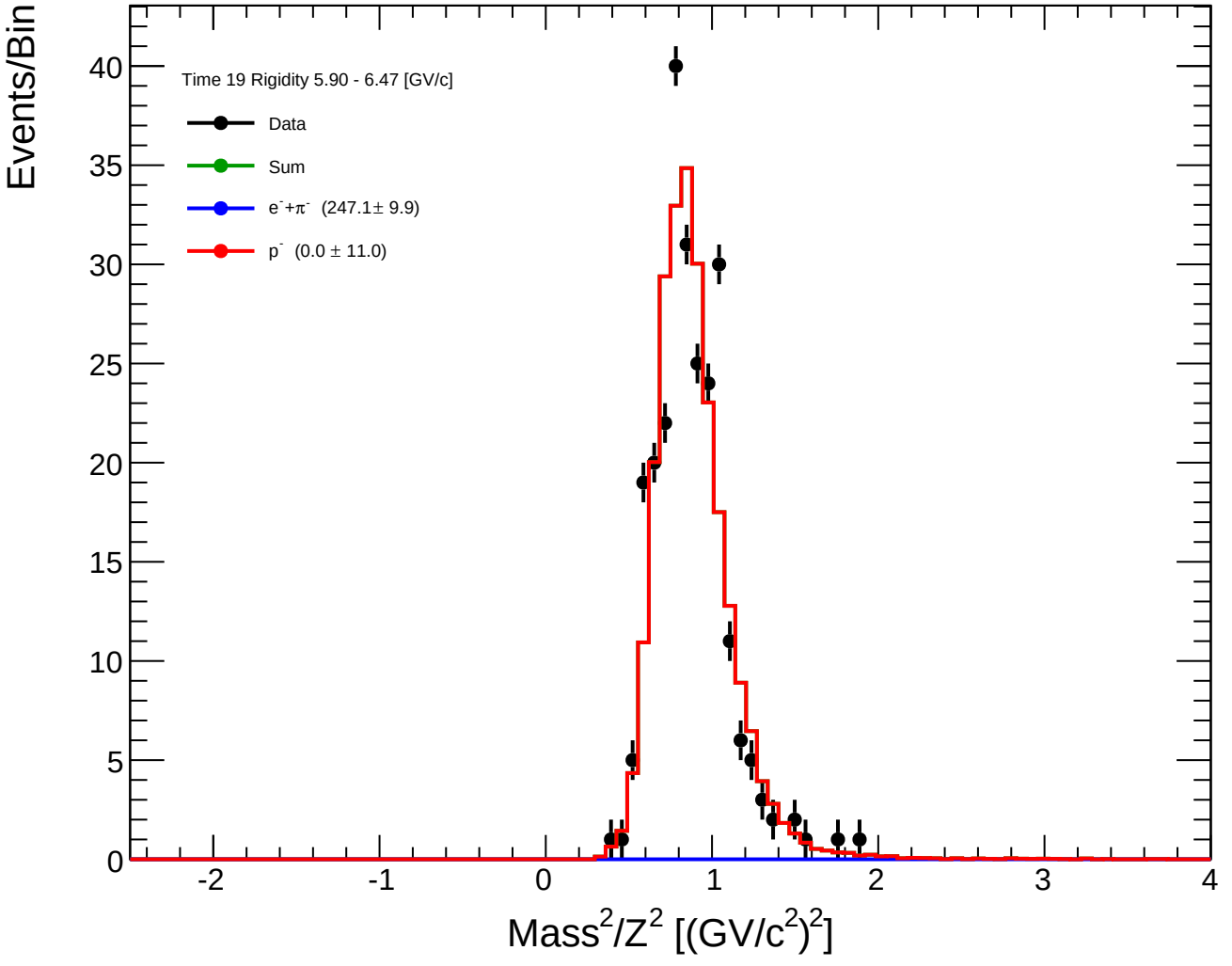

Time 18 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (380.2 ± 16.4)
p⁻ (74.5 ± 13.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

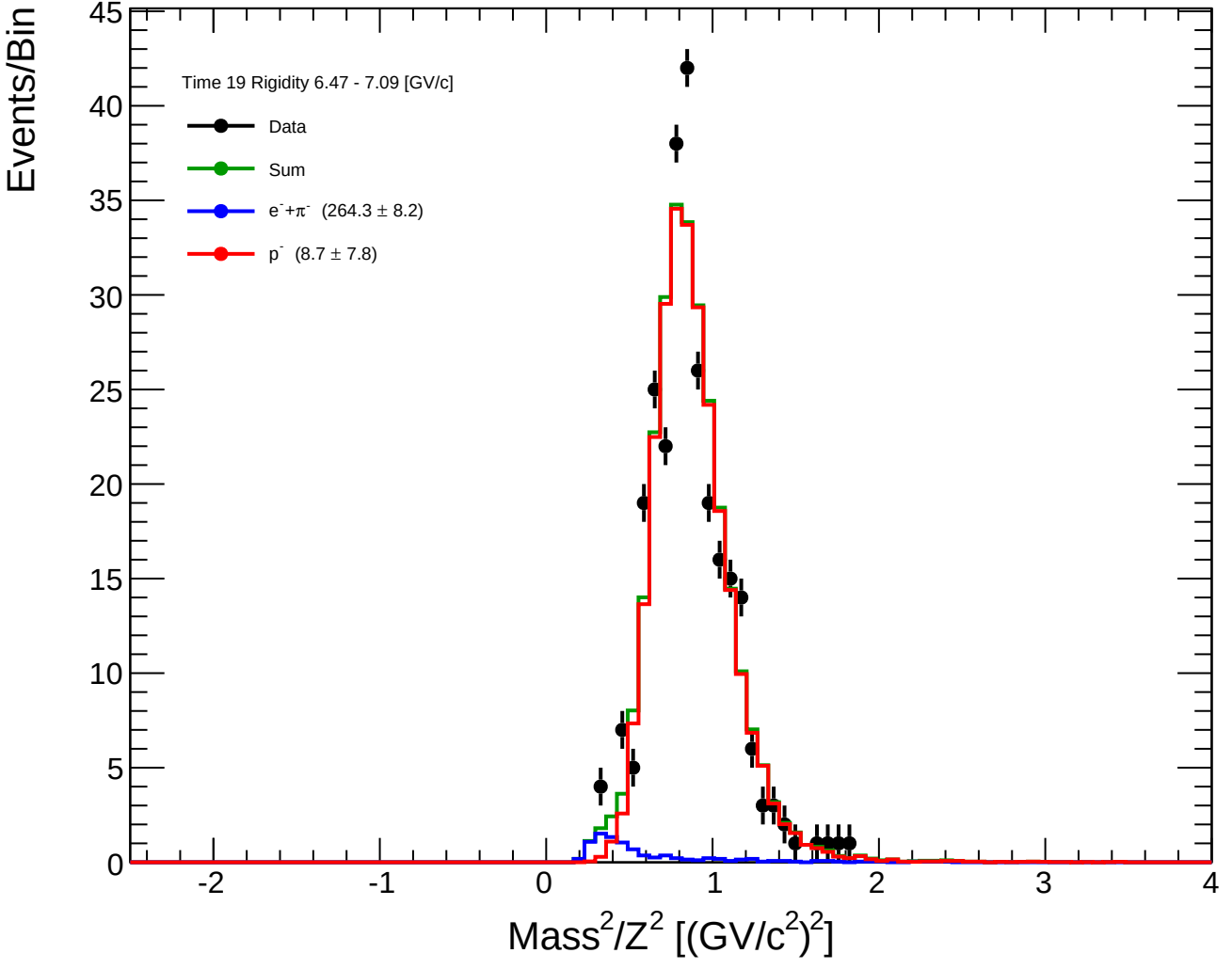

Events/Bin
Time 19 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (28.3 ± 6.1)
p⁻ (0.0 ± 7.8)
0
1
2
3
4
5
6
7
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

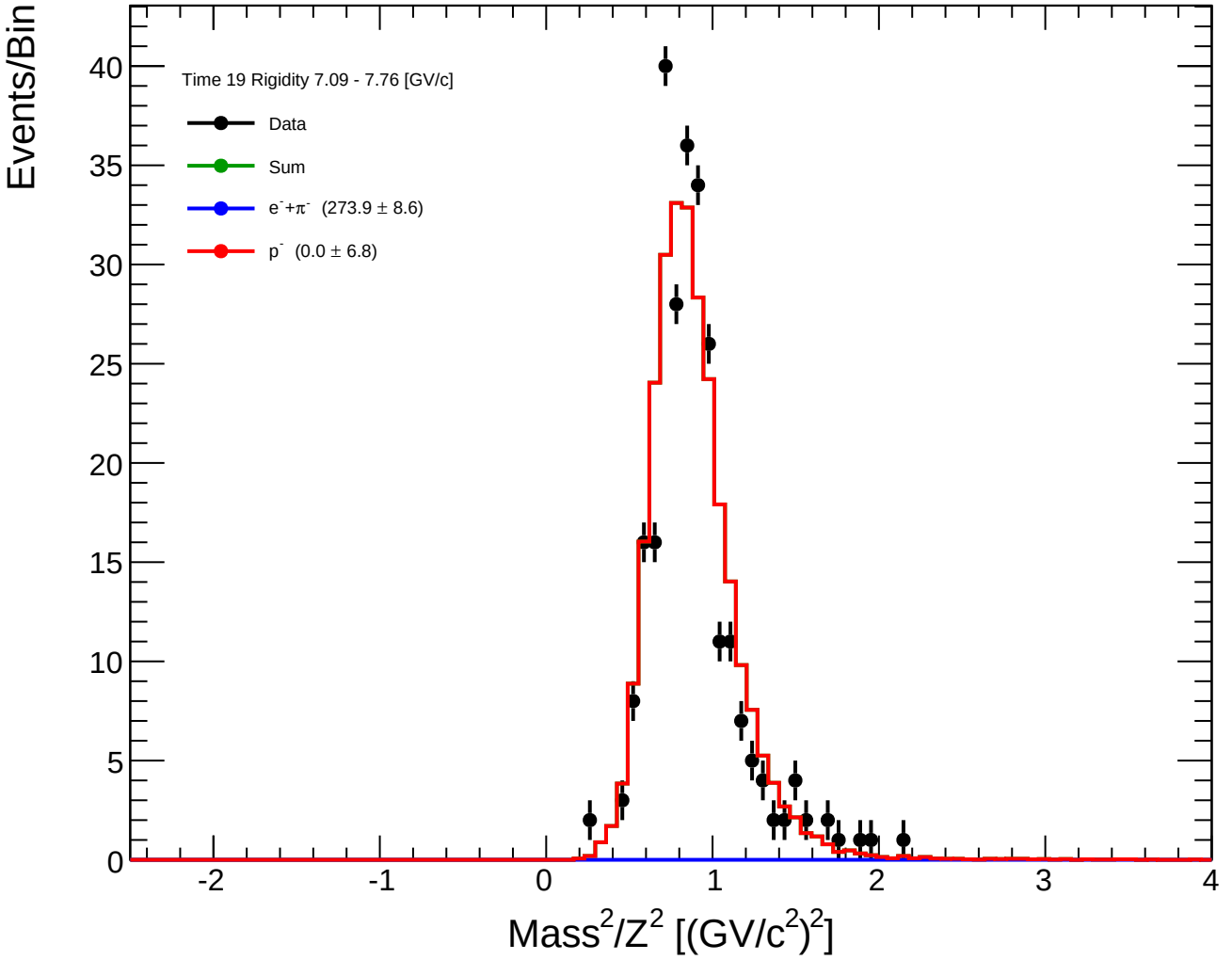

Time 19 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (156.1± 9.1)
p⁻ (26.0 ± 11.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

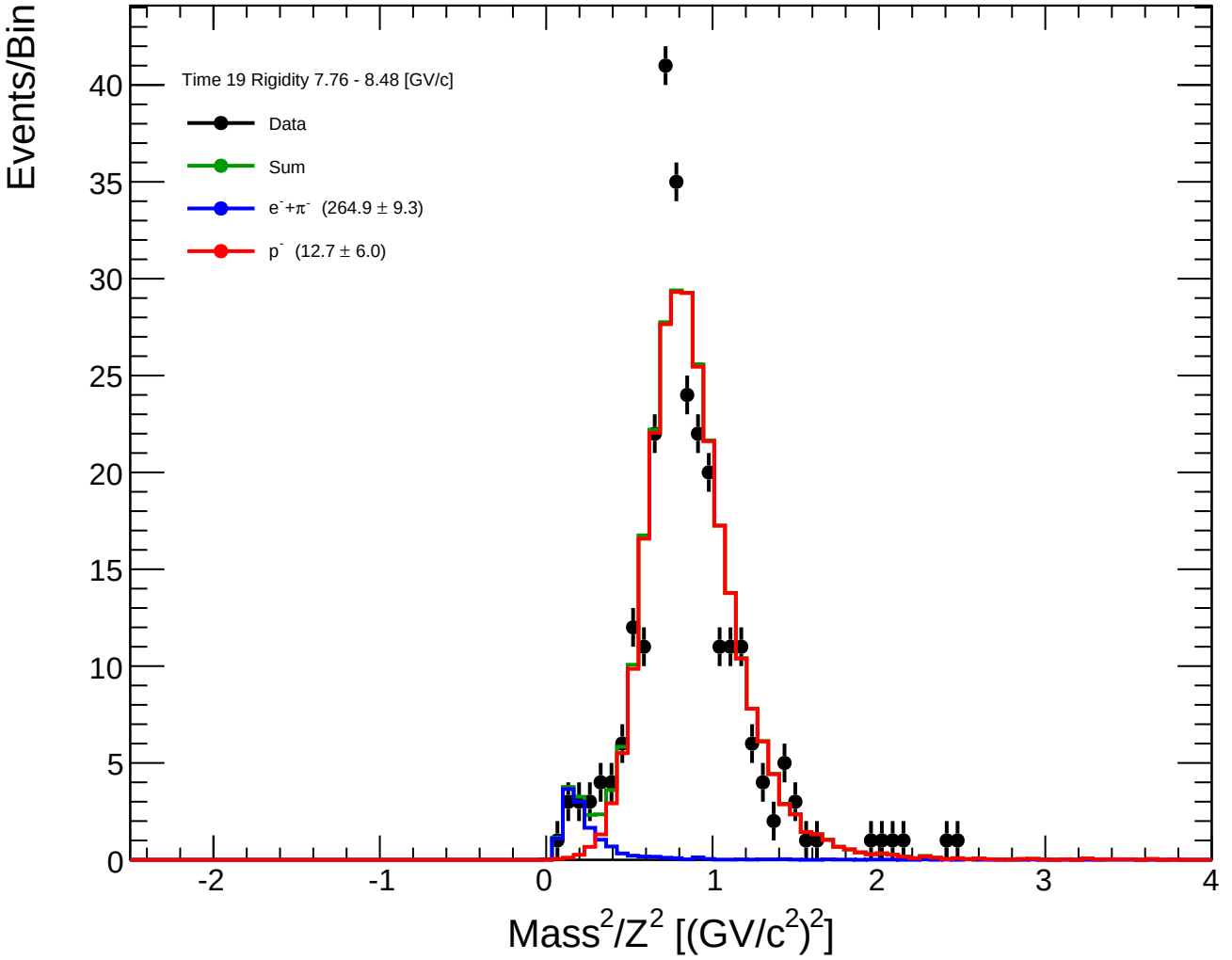

Time 19 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (328.8 ± 11.1)
p⁻ (0.1± 15.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

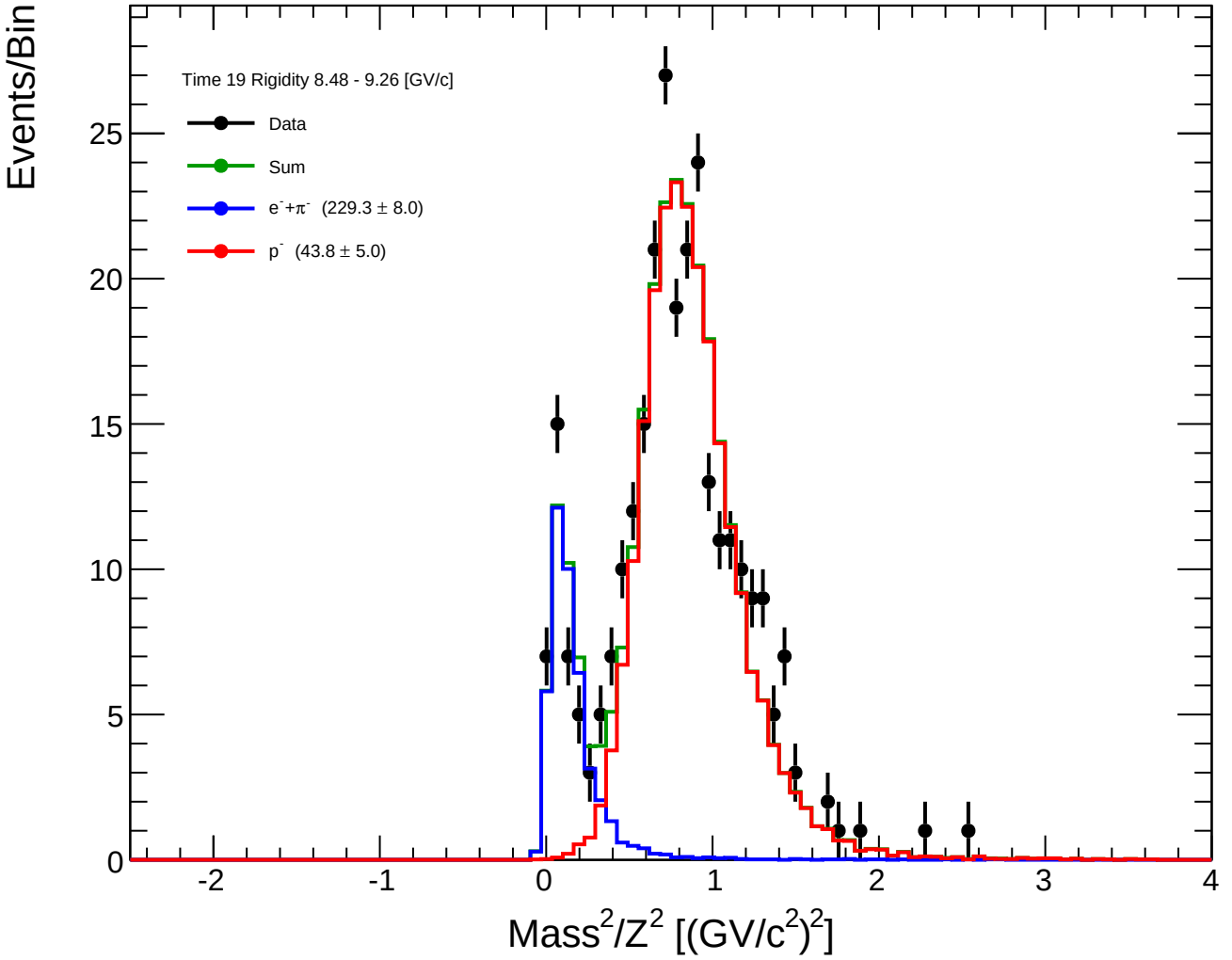

Time 19 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (232.1± 8.7)
p⁻ (0.0 ± 10.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

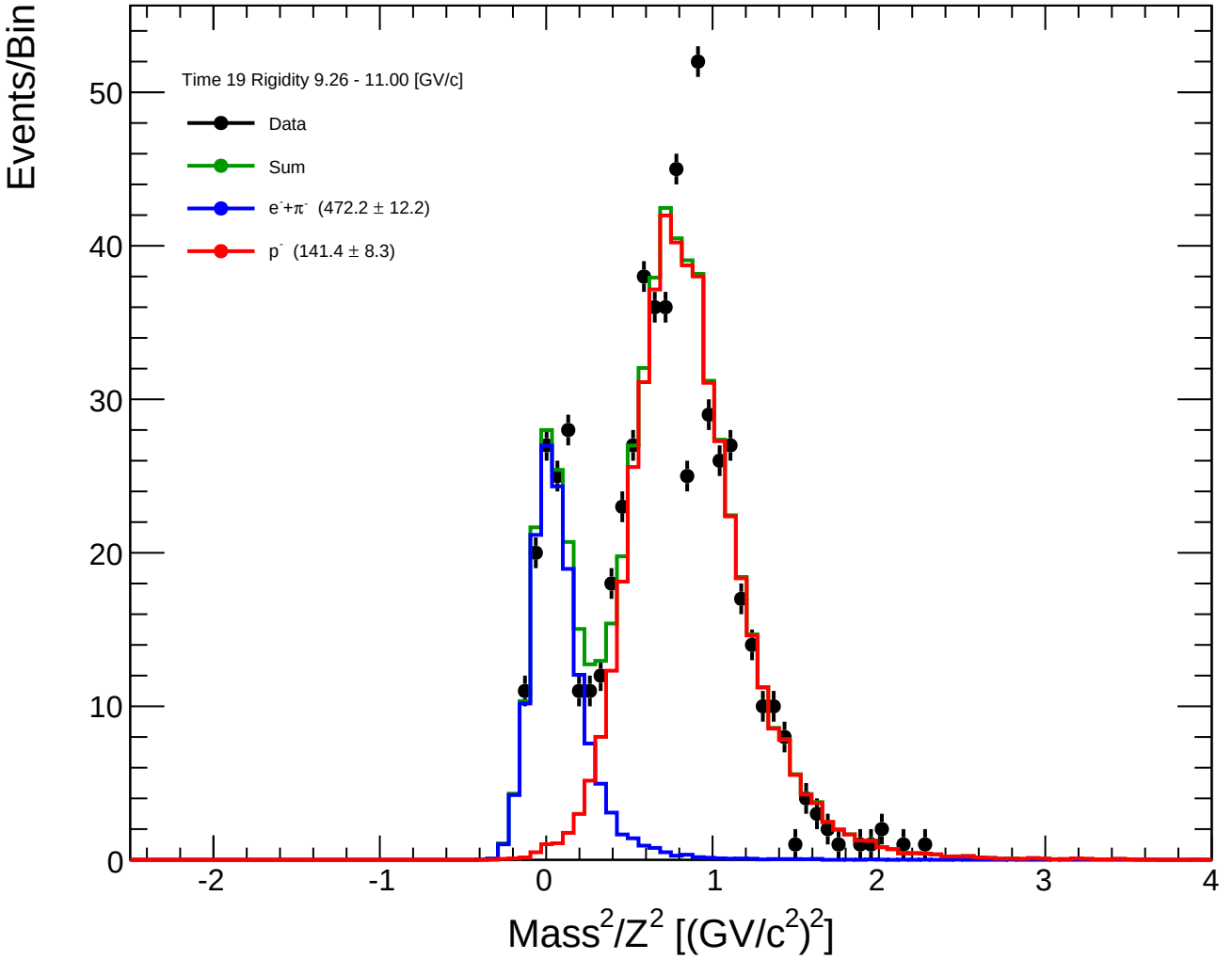

Time 19 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (247.1± 9.9)
p⁻ (0.0 ± 11.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

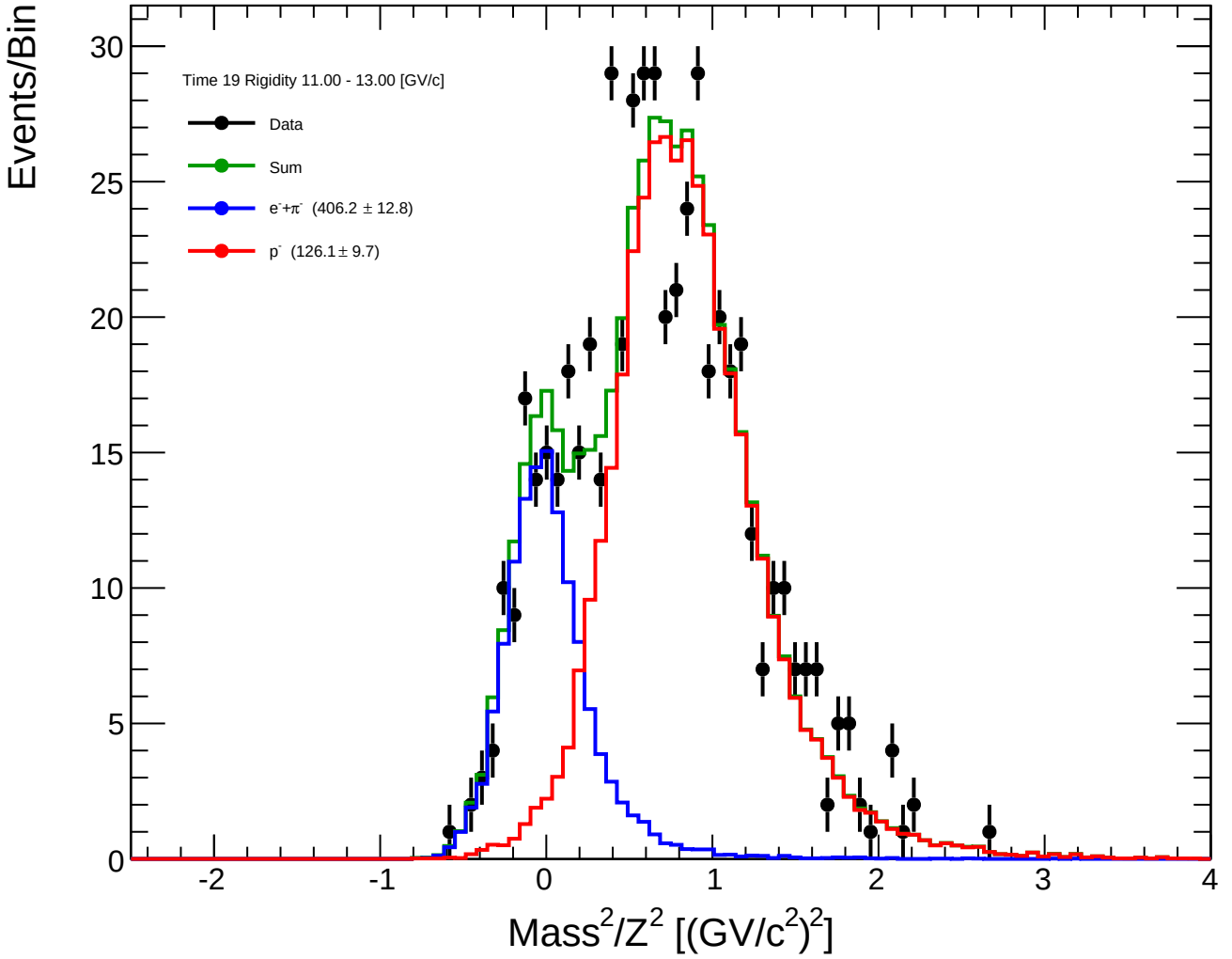

Time 19 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (264.3 ± 8.2)
p⁻ (8.7 ± 7.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

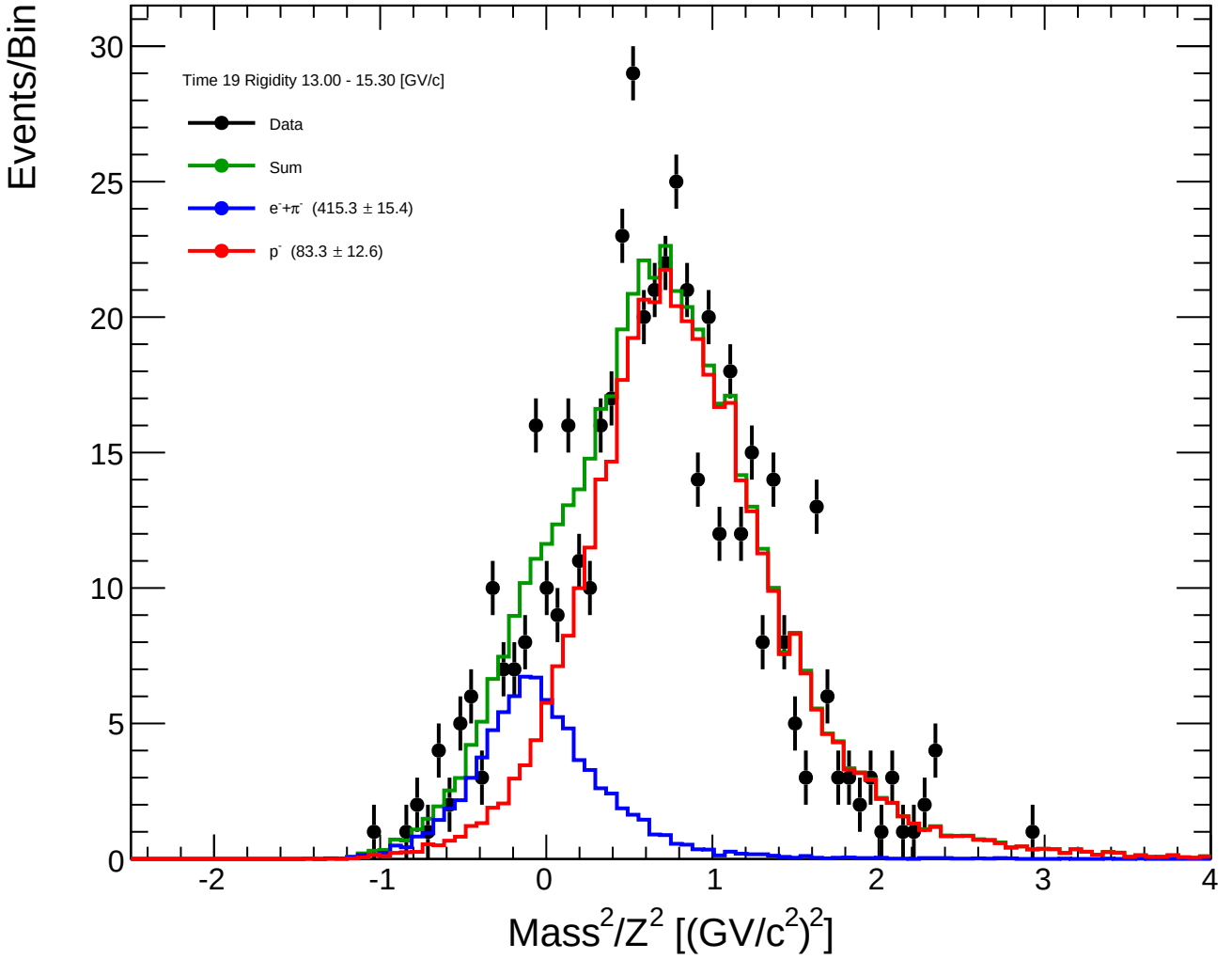

Time 19 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (273.9 ± 8.6)
p⁻ (0.0 ± 6.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

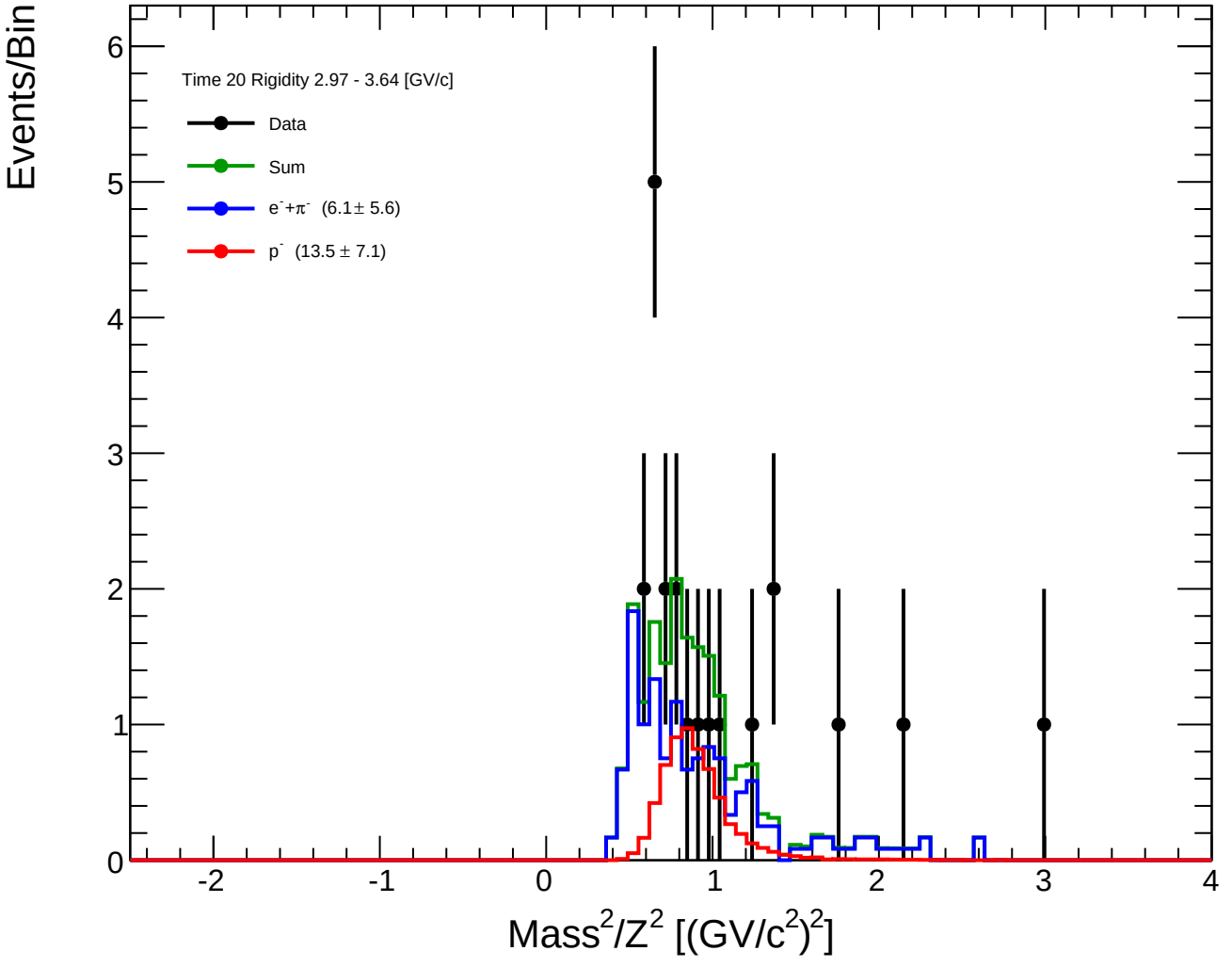

Time 19 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (264.9 ± 9.3)
p⁻ (12.7 ± 6.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

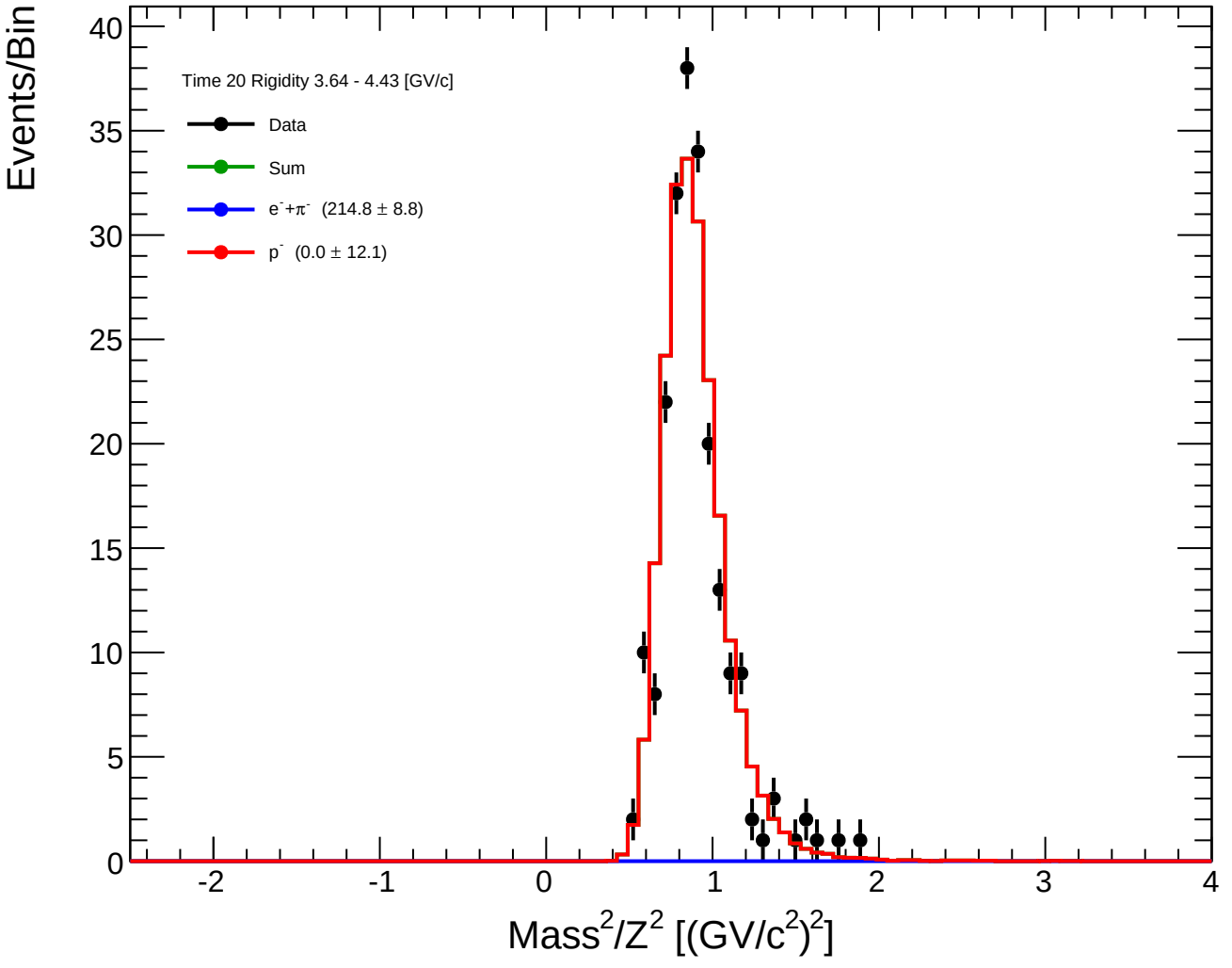

Time 19 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (229.3 ± 8.0)
p⁻ (43.8 ± 5.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

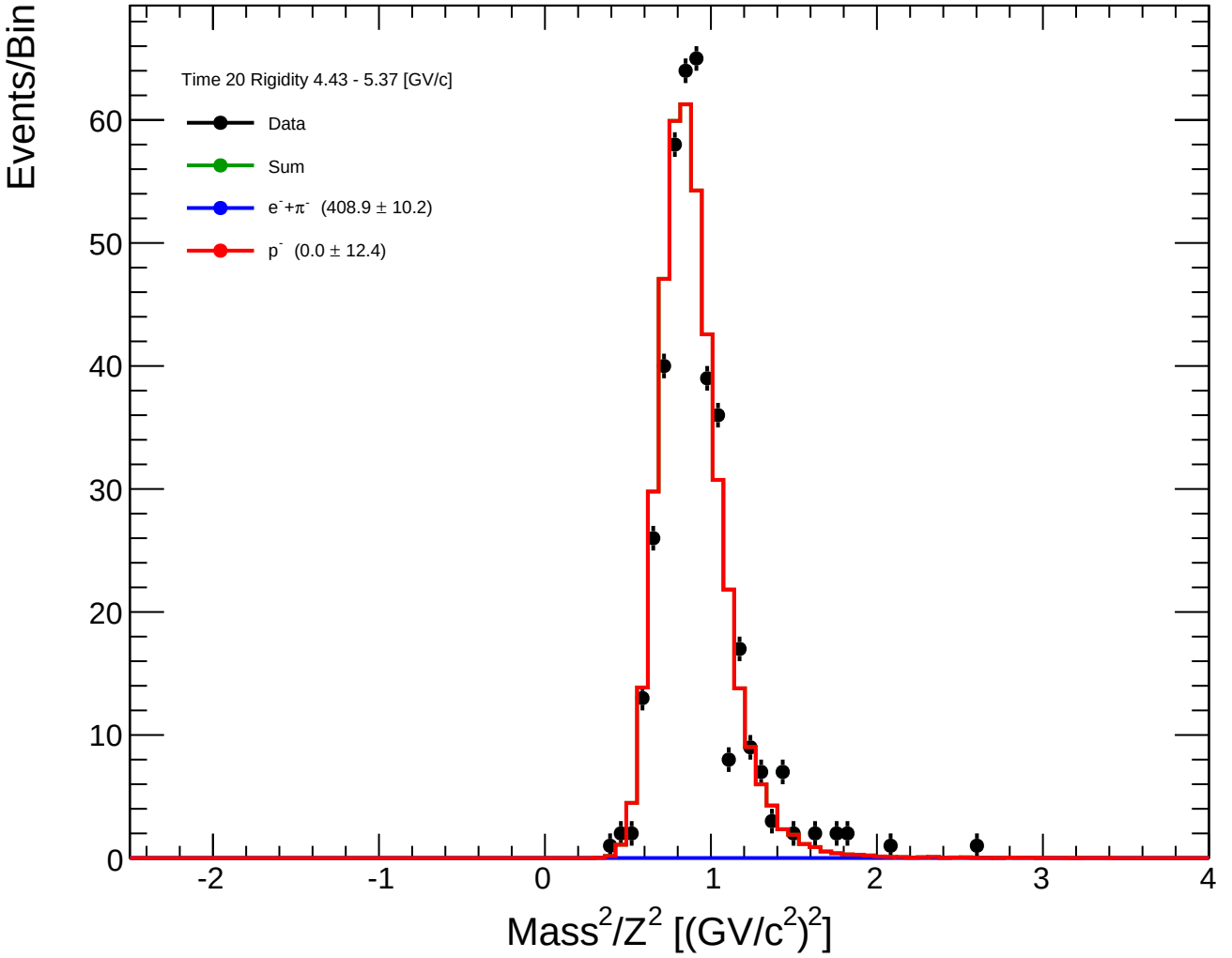

Time 19 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (472.2 ± 12.2)
p⁻ (141.4 ± 8.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

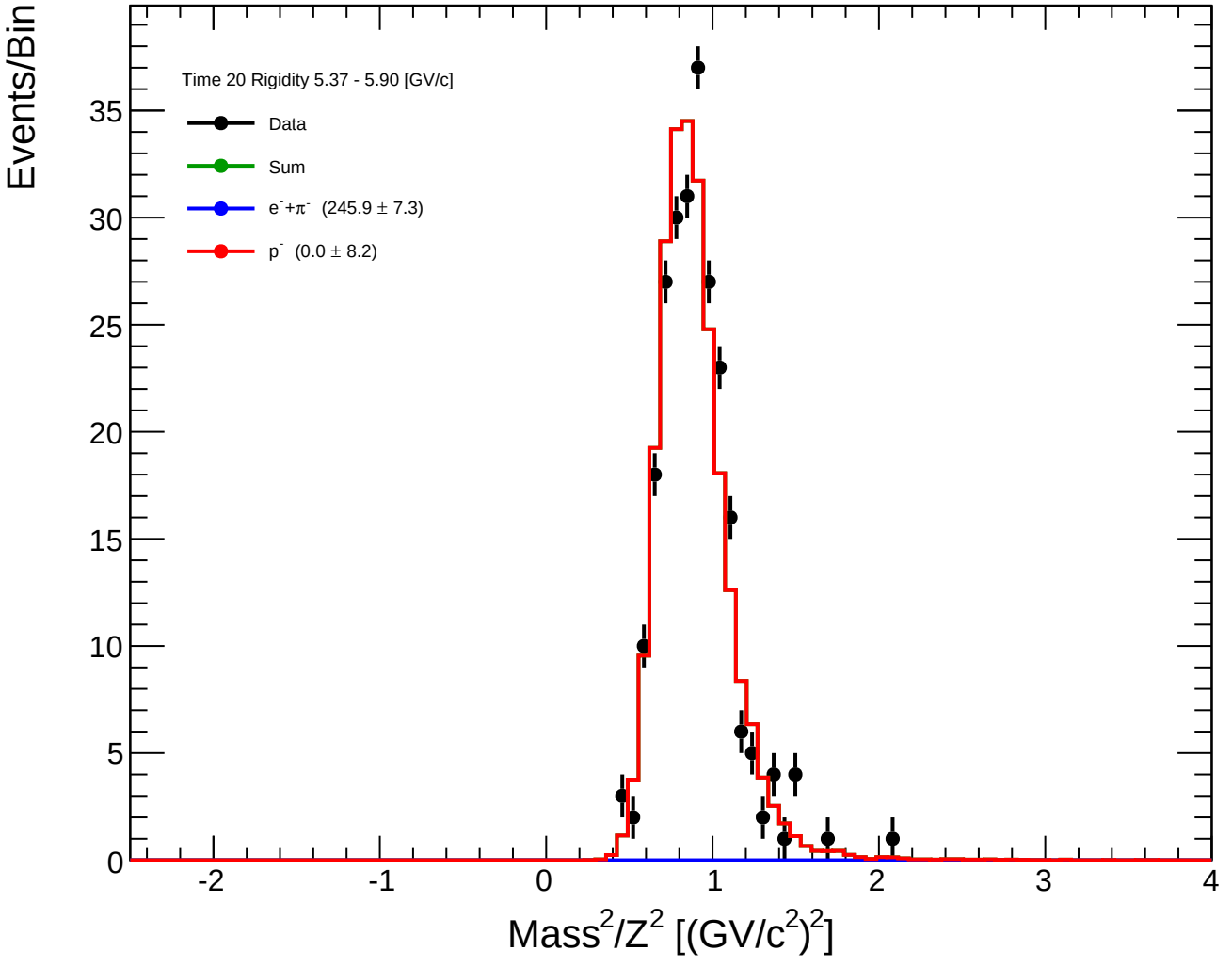

Time 19 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (406.2 ± 12.8)
p⁻ (126.1± 9.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

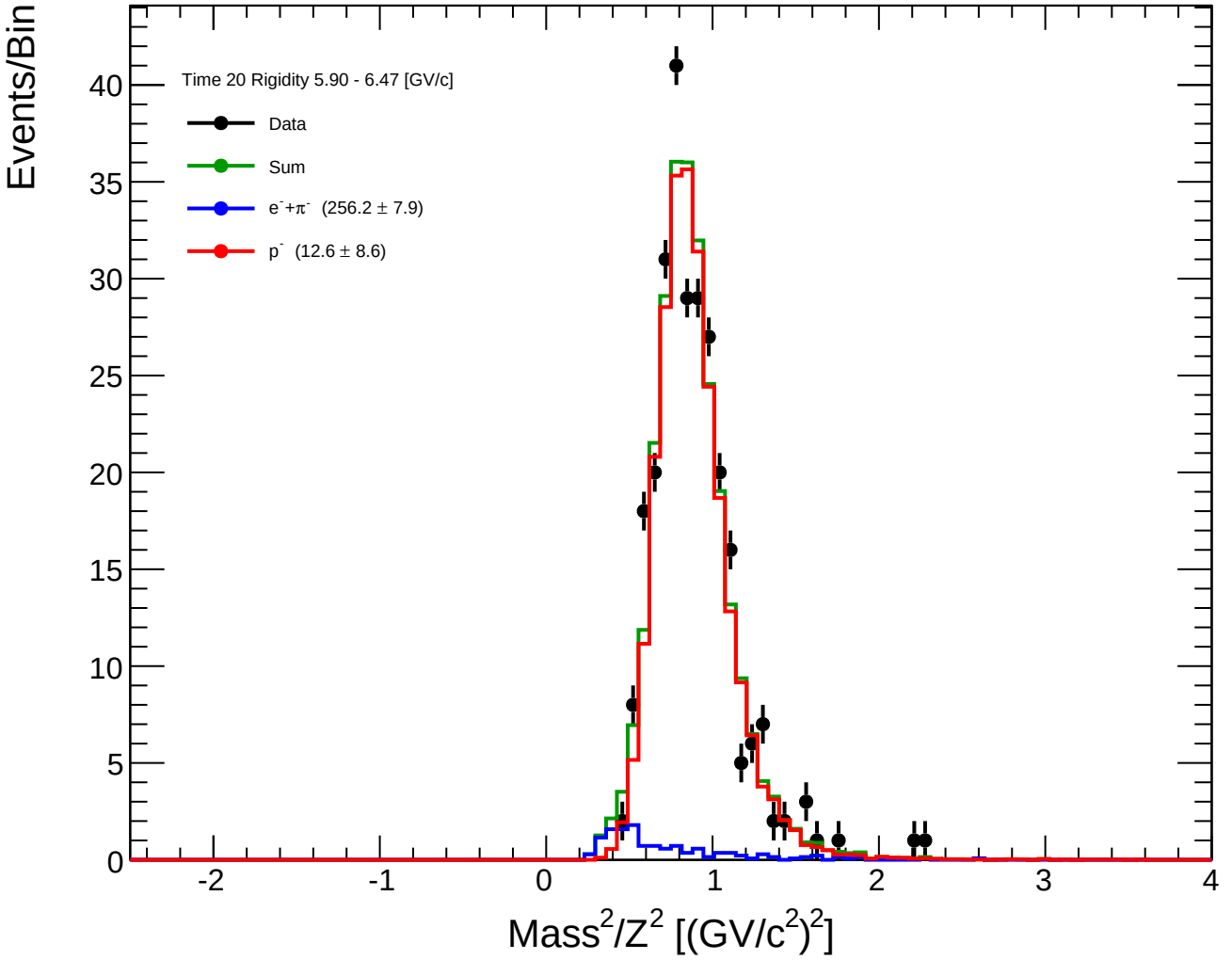

Time 19 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (415.3 ± 15.4)
p⁻ (83.3 ± 12.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

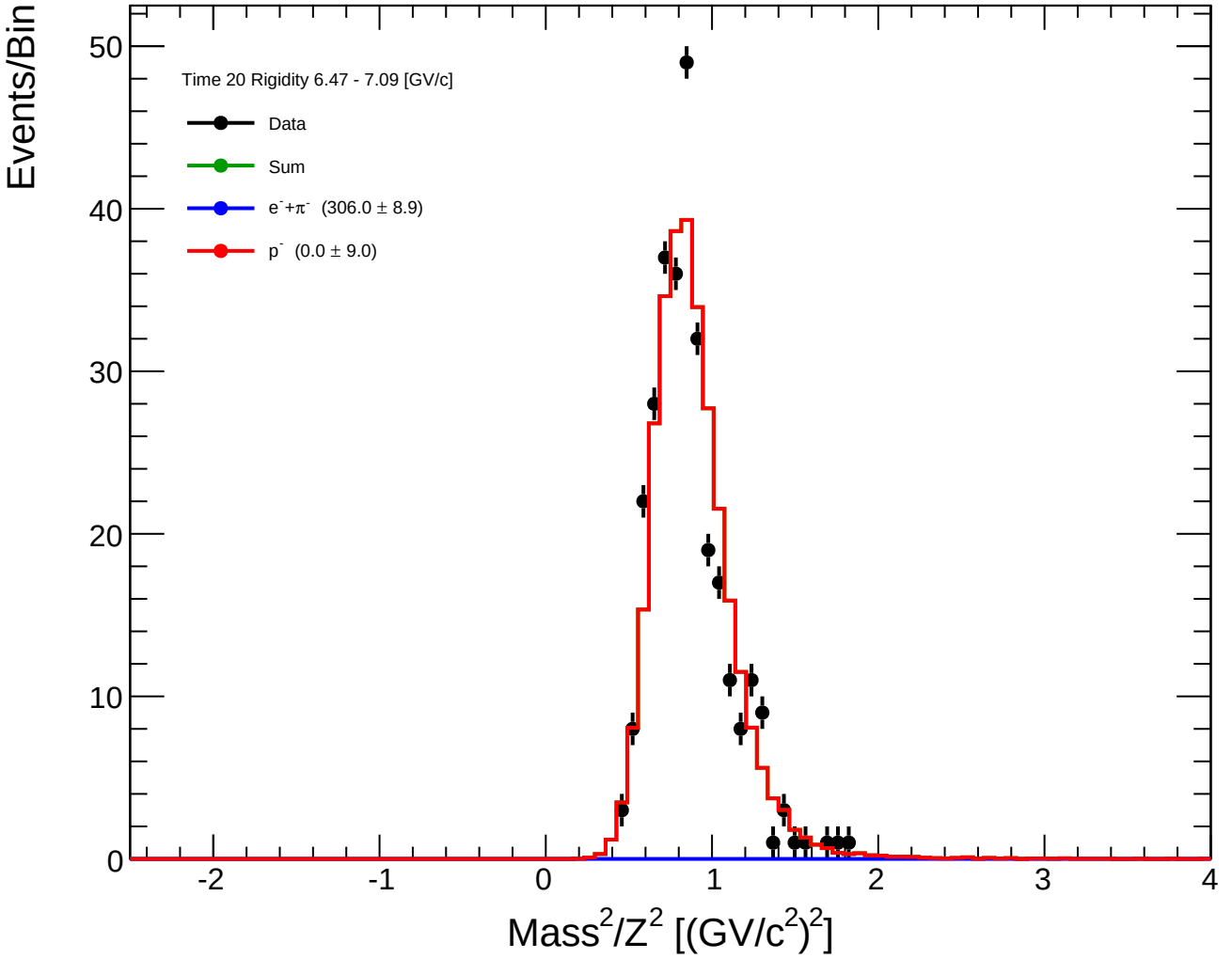

Events/Bin
Time 20 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (6.1± 5.6)
p⁻ (13.5 ± 7.1)
0
1
2
3
4
5
6
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

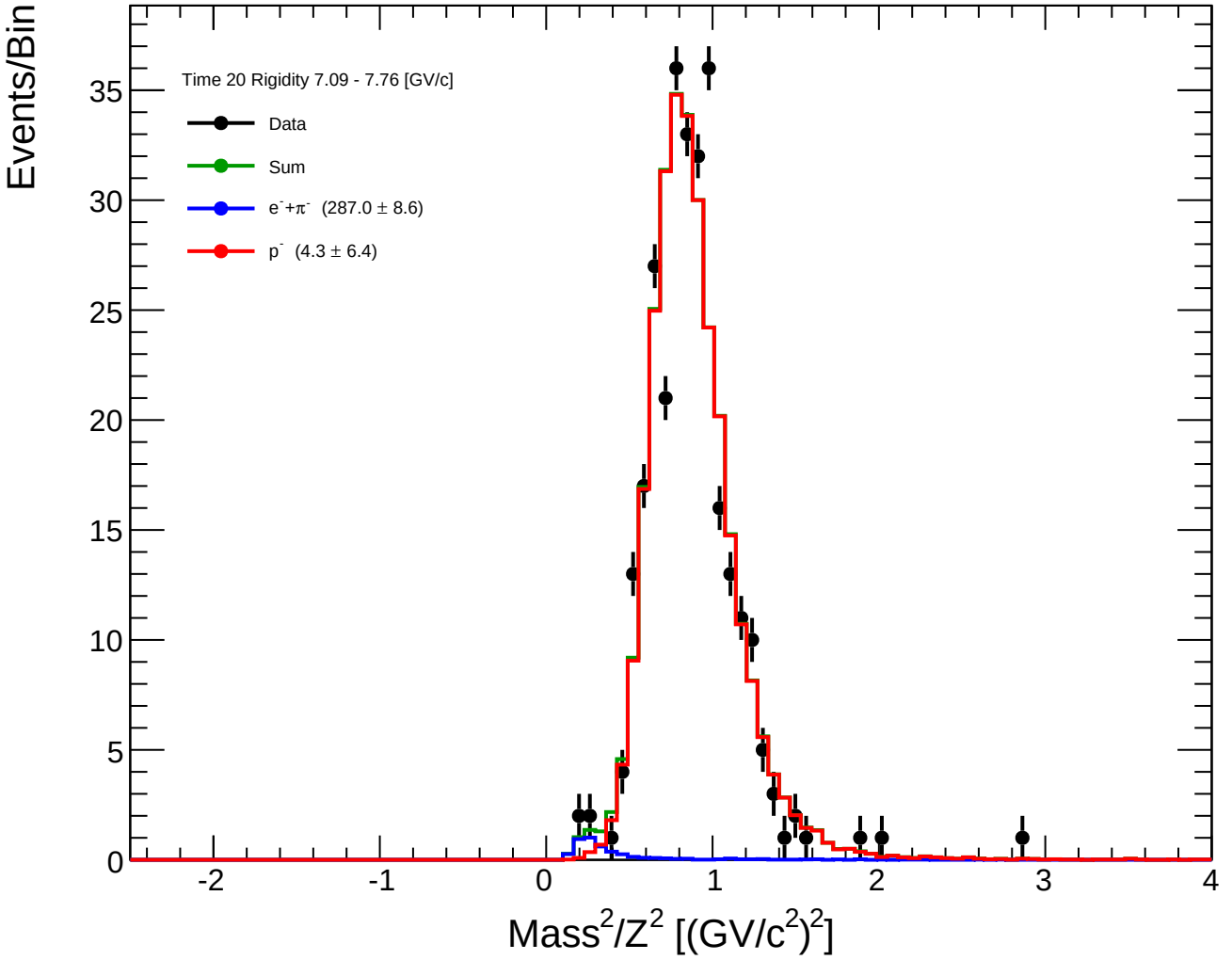

Time 20 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (214.8 ± 8.8)
p⁻ (0.0 ± 12.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

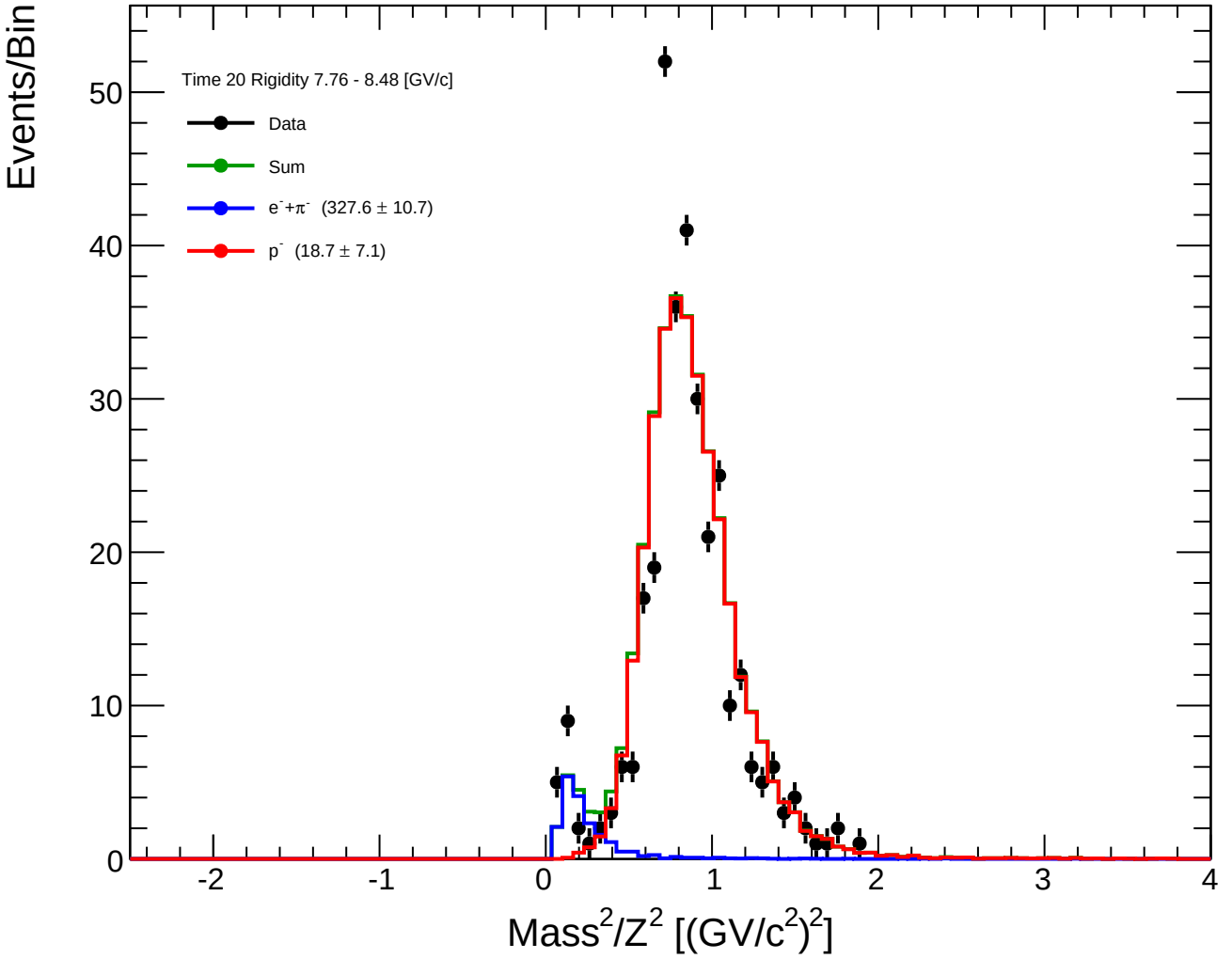

Time 20 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (408.9 ± 10.2)
p⁻ (0.0 ± 12.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

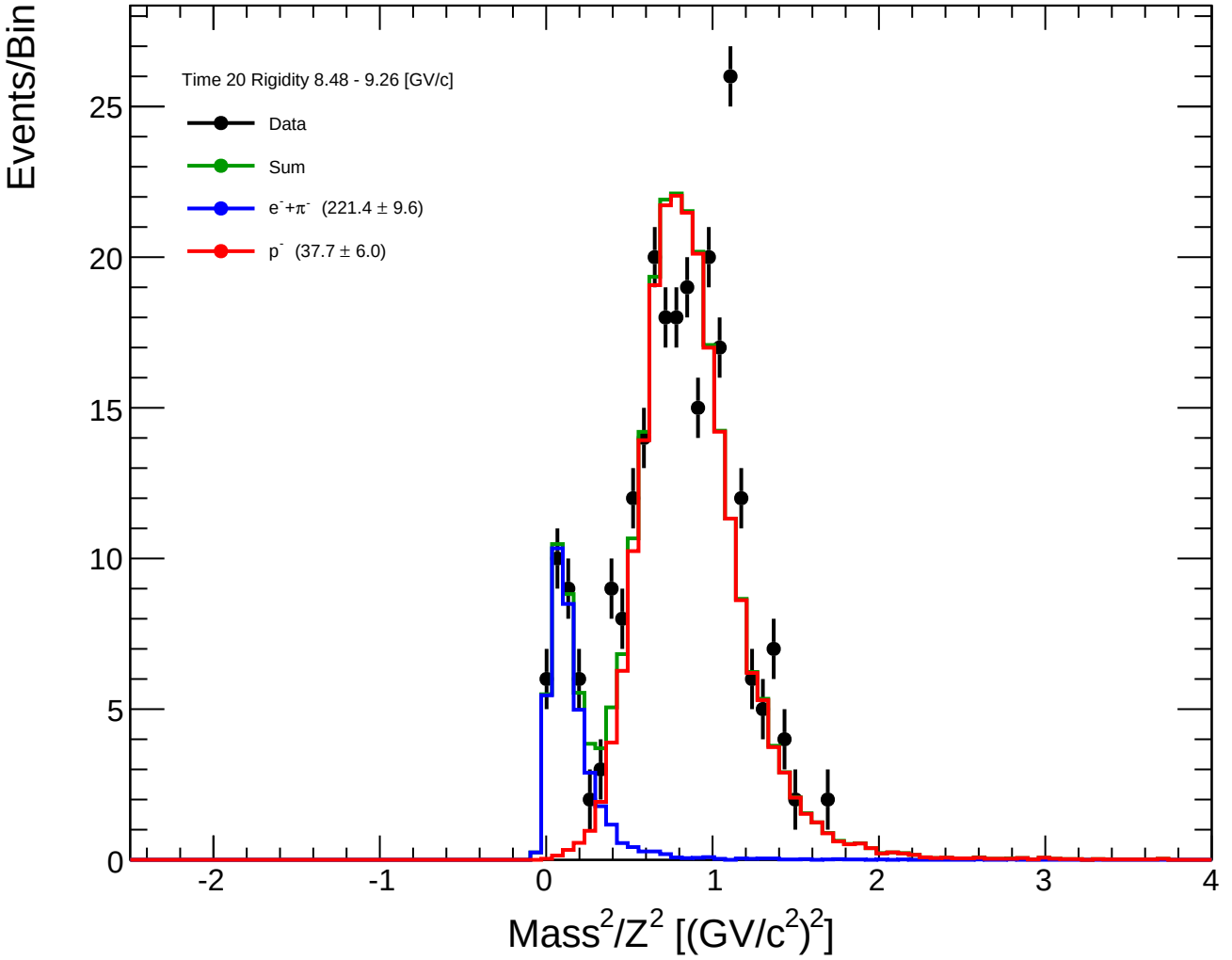

Time 20 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (245.9 ± 7.3)
p⁻ (0.0 ± 8.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

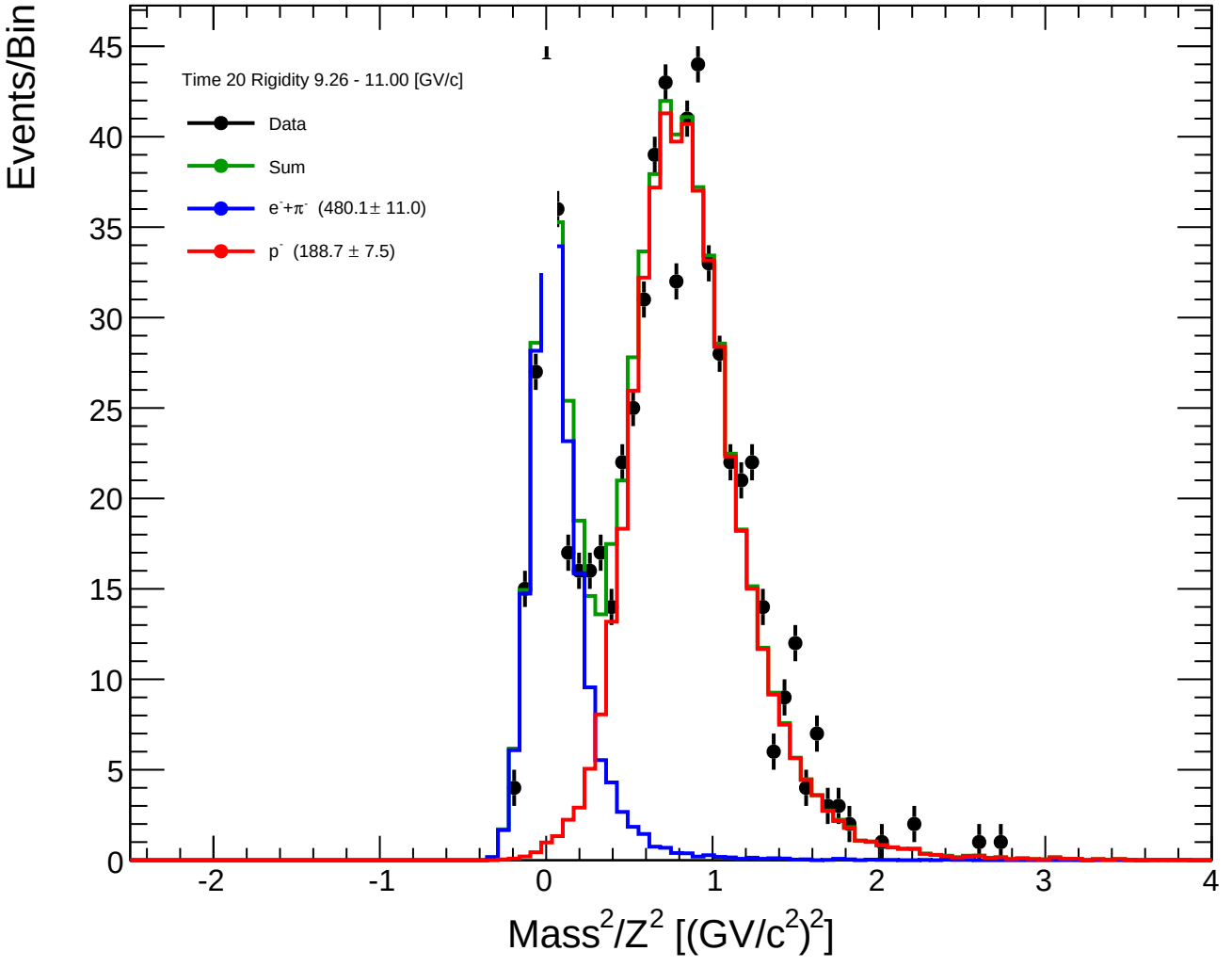

Time 20 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (256.2 ± 7.9)
p⁻ (12.6 ± 8.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

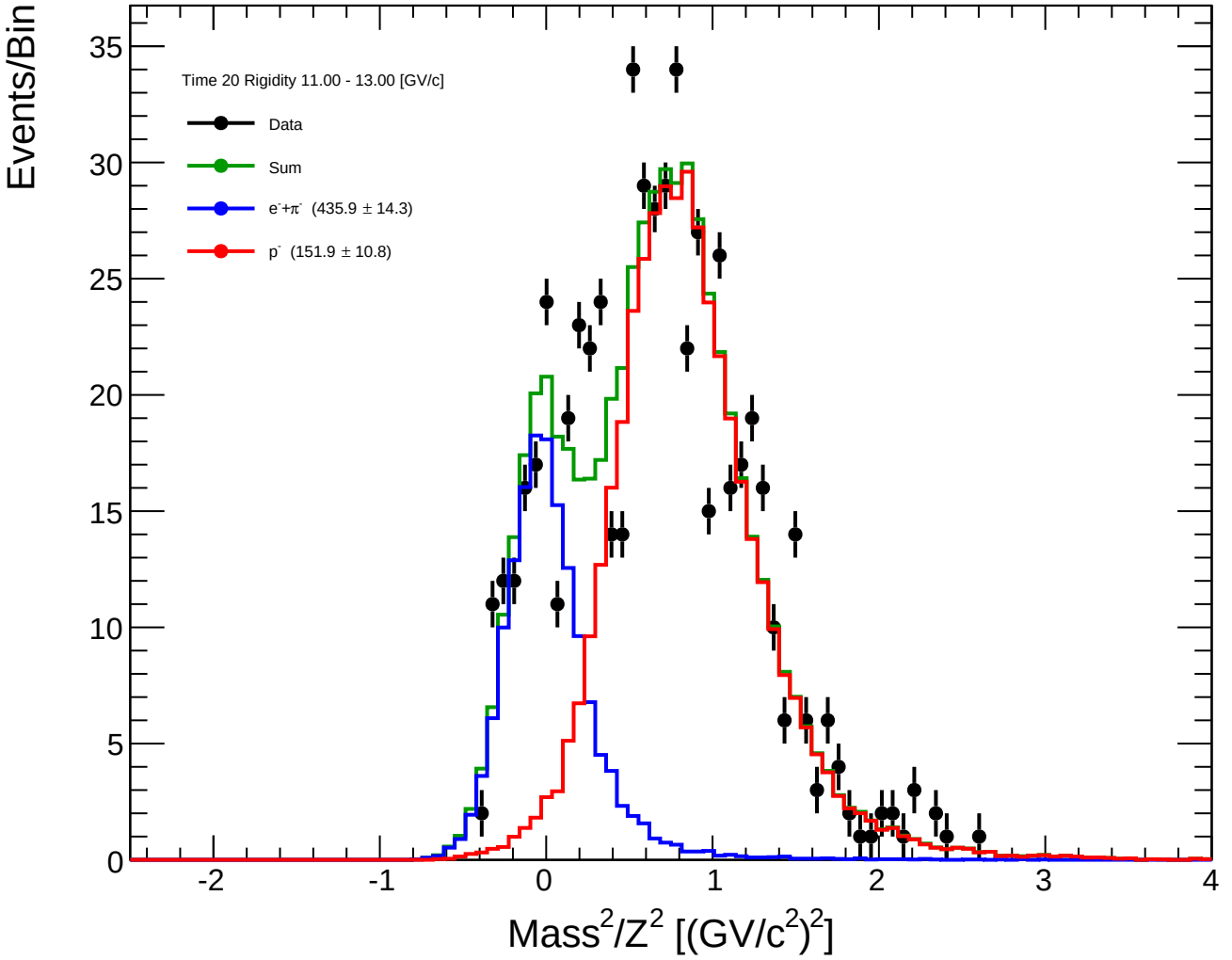

Time 20 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (306.0 ± 8.9)
p⁻ (0.0 ± 9.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

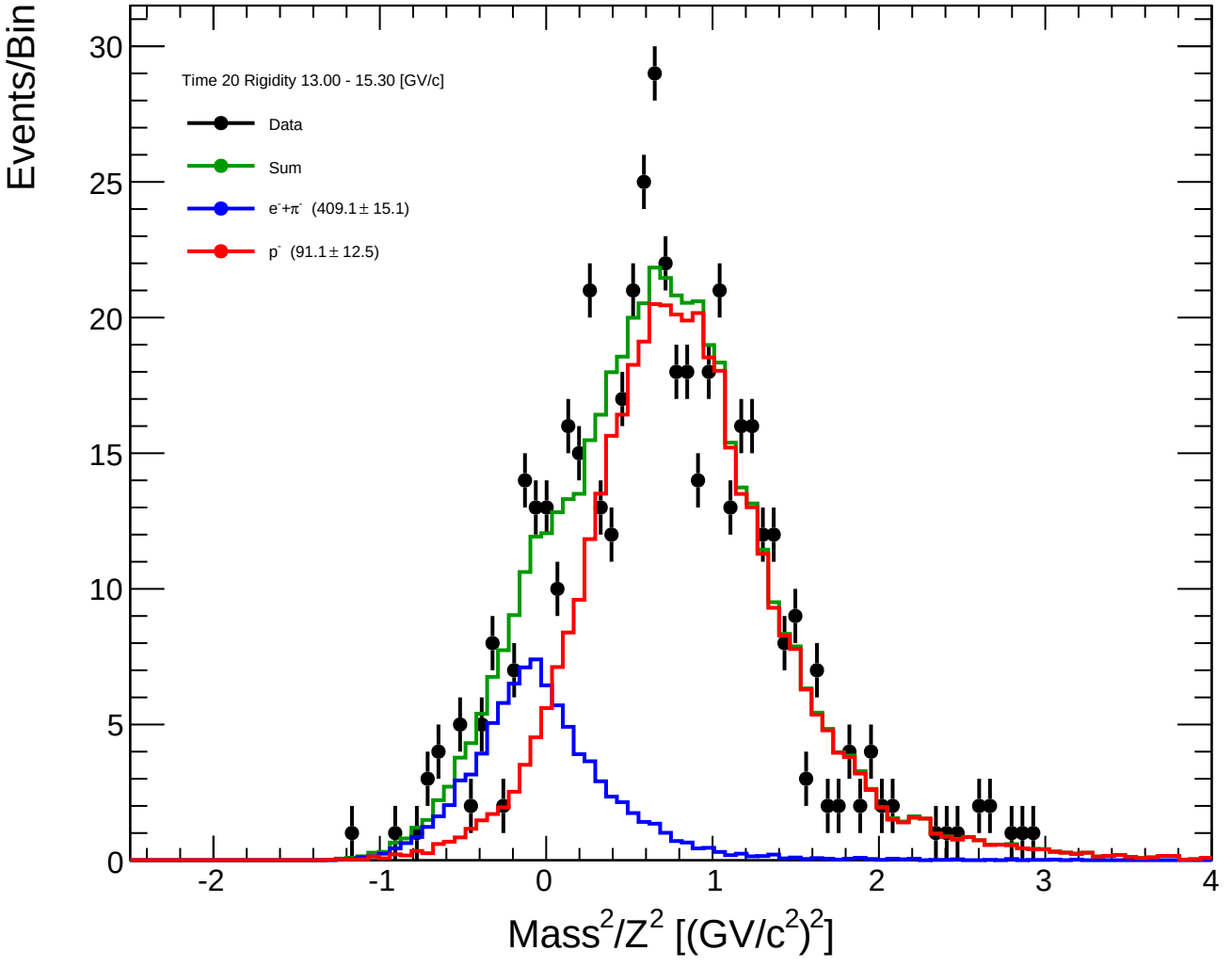

Time 20 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (287.0 ± 8.6)
p⁻ (4.3 ± 6.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

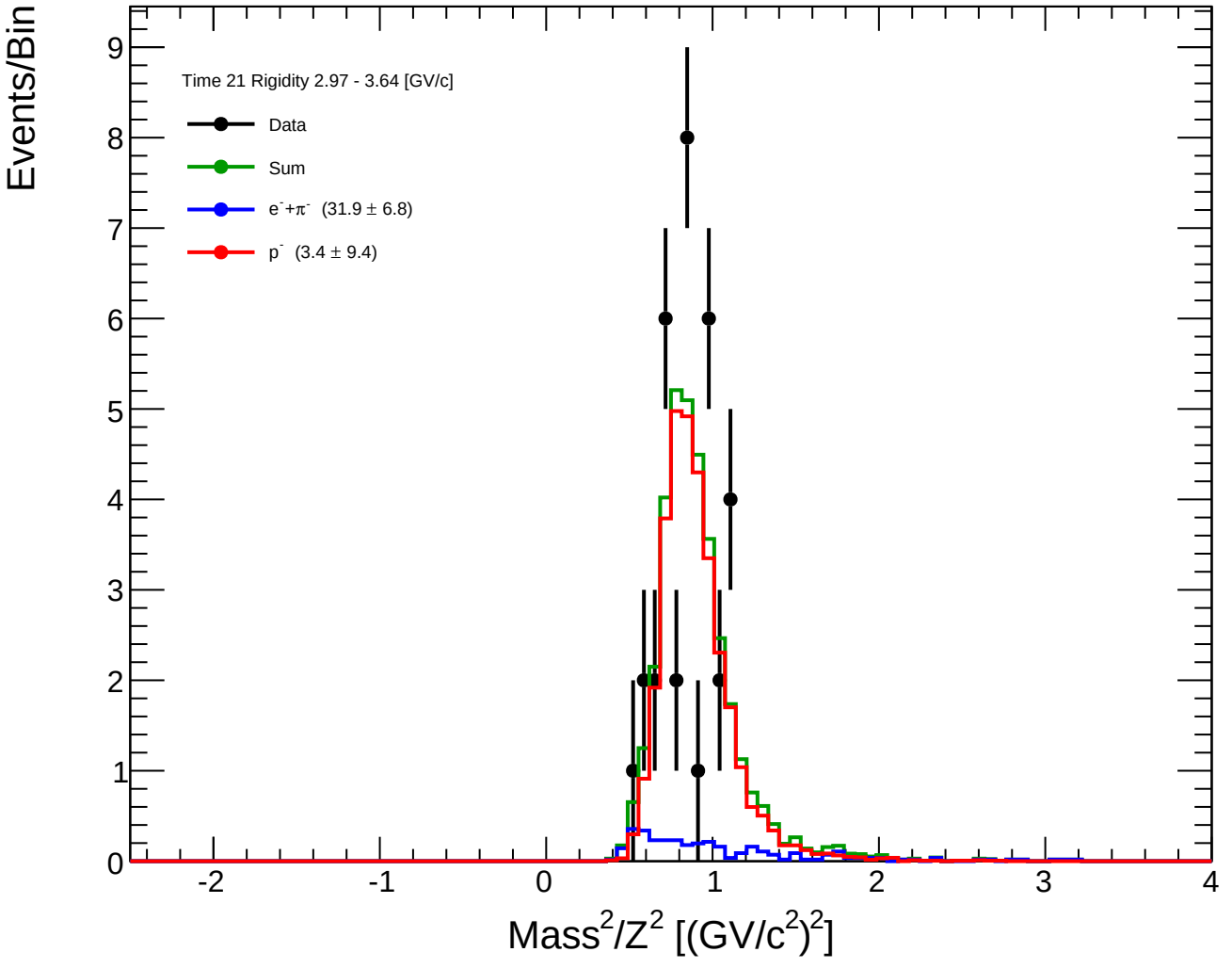

Time 20 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (327.6 ± 10.7)
p⁻ (18.7 ± 7.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

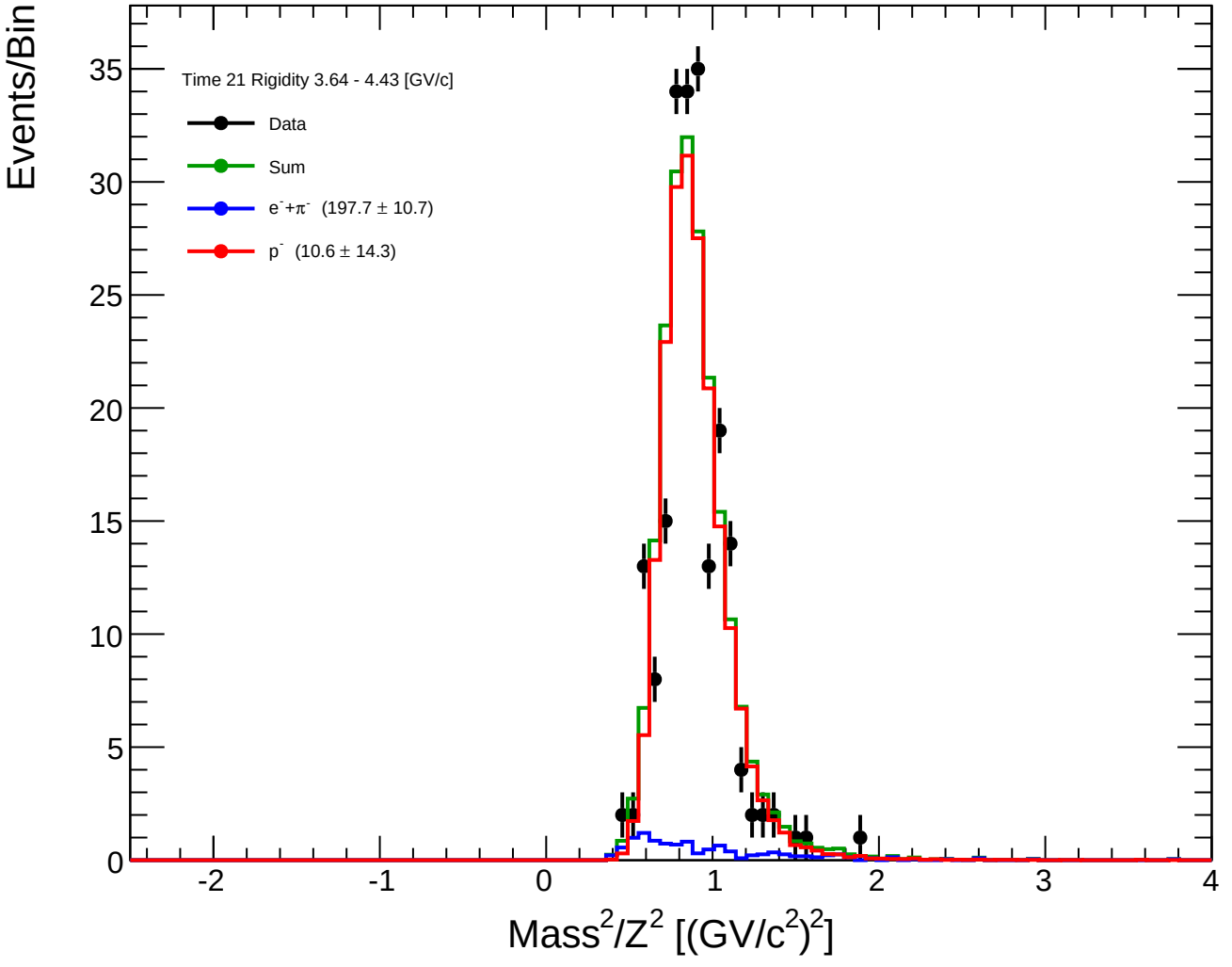

Time 20 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (221.4 ± 9.6)
p⁻ (37.7 ± 6.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

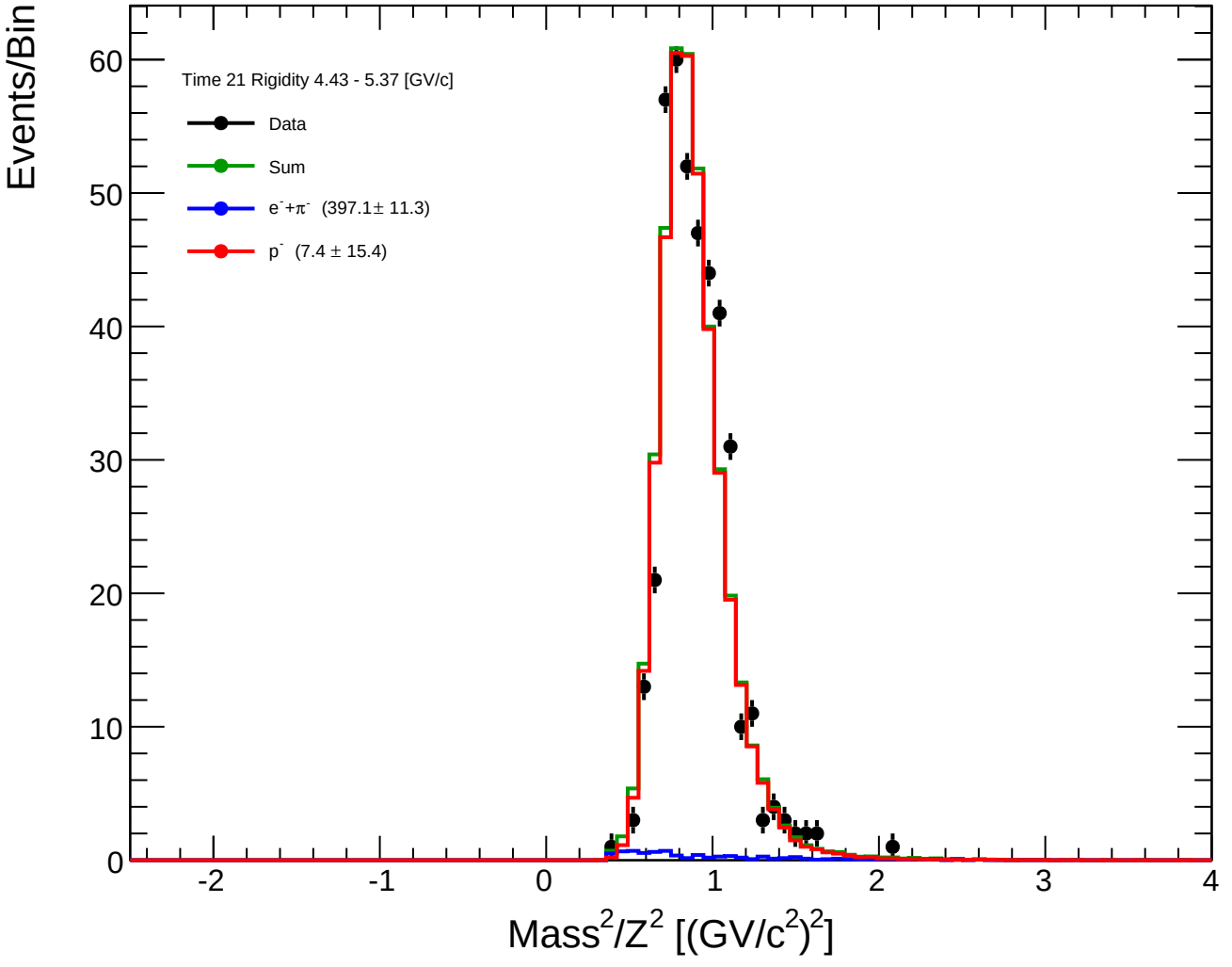

Time 20 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (480.1± 11.0)
p⁻ (188.7 ± 7.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

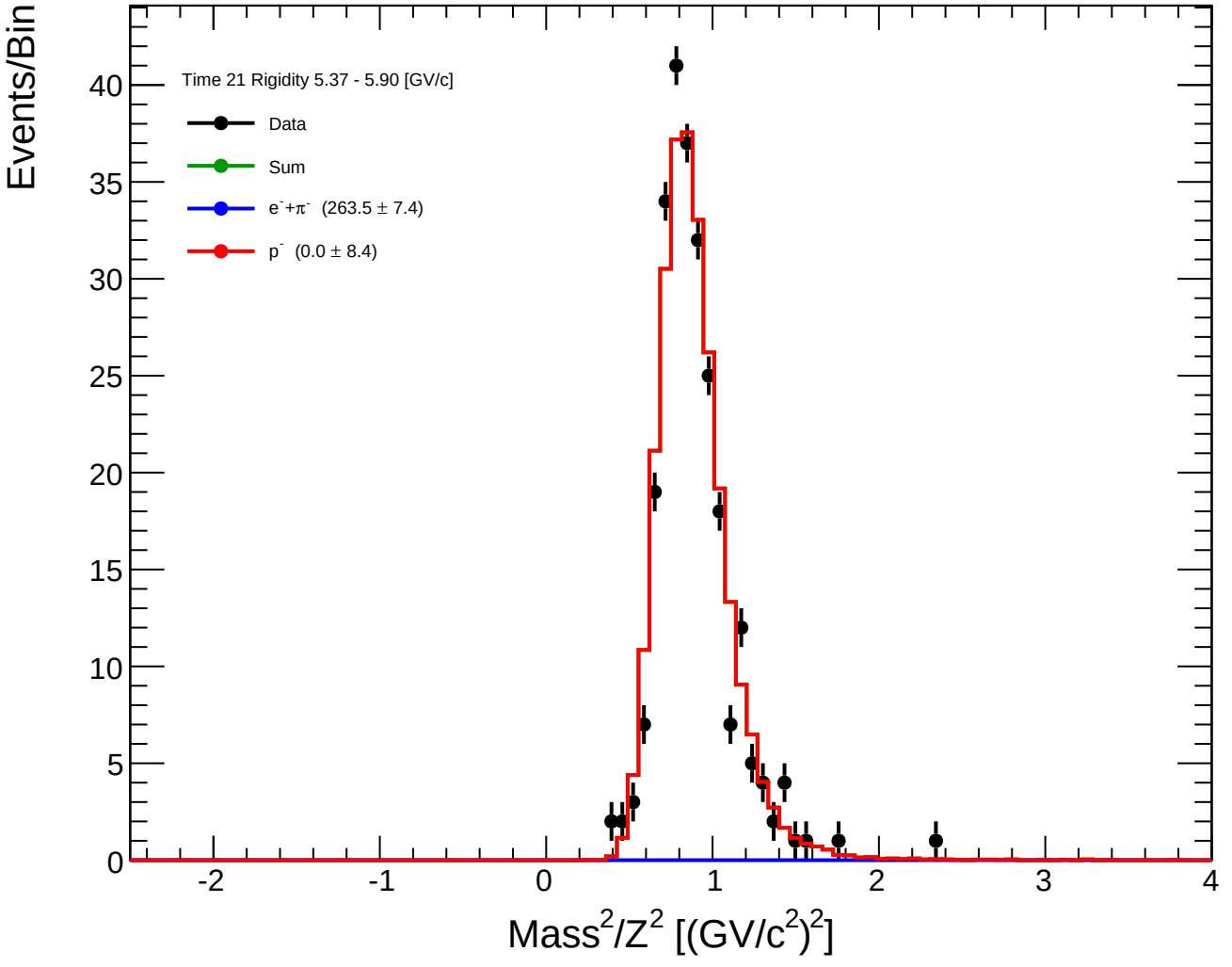

Time 20 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (435.9 ± 14.3)
p⁻ (151.9 ± 10.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

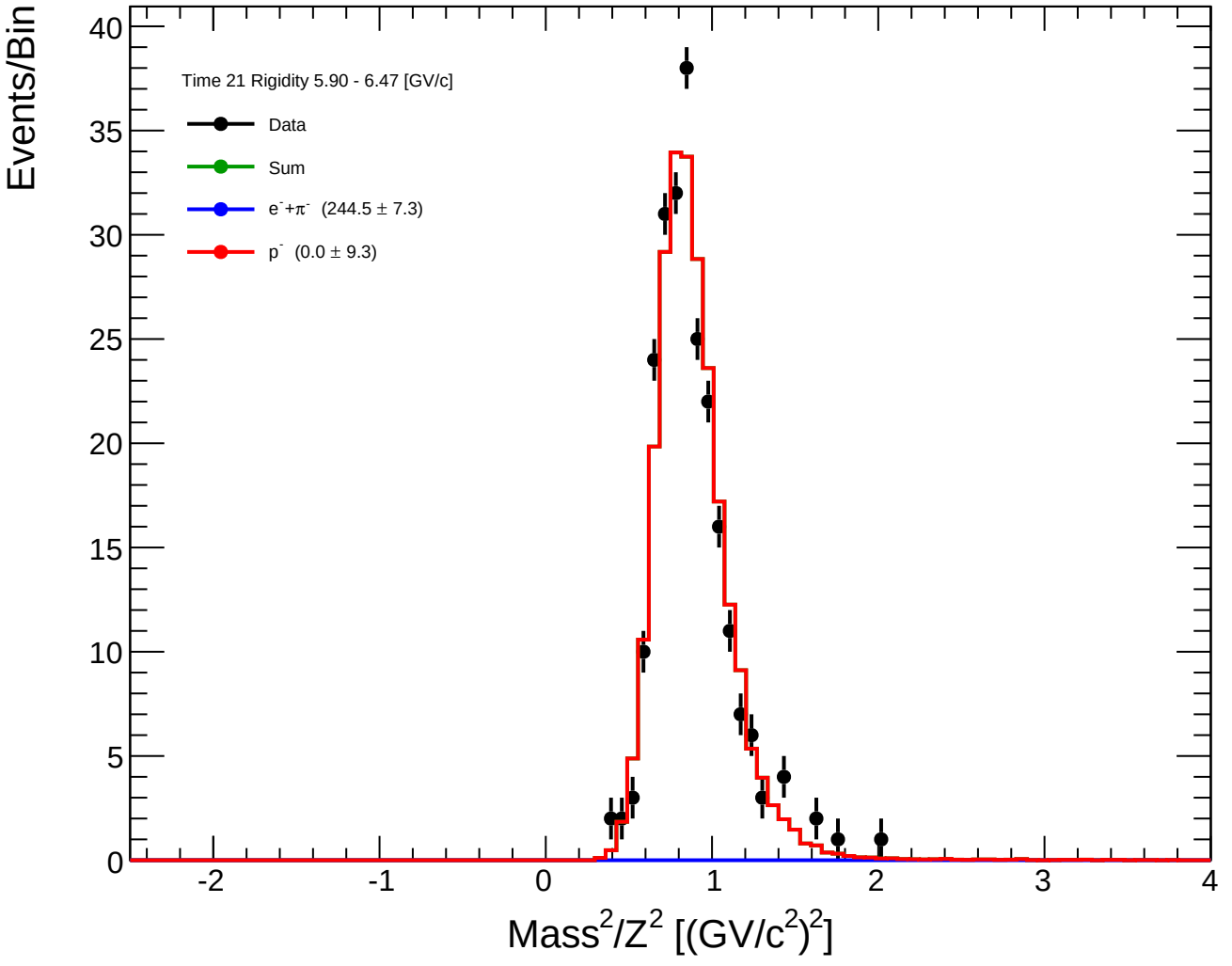

Time 20 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (409.1 ± 15.1)
p⁻ (91.1 ± 12.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

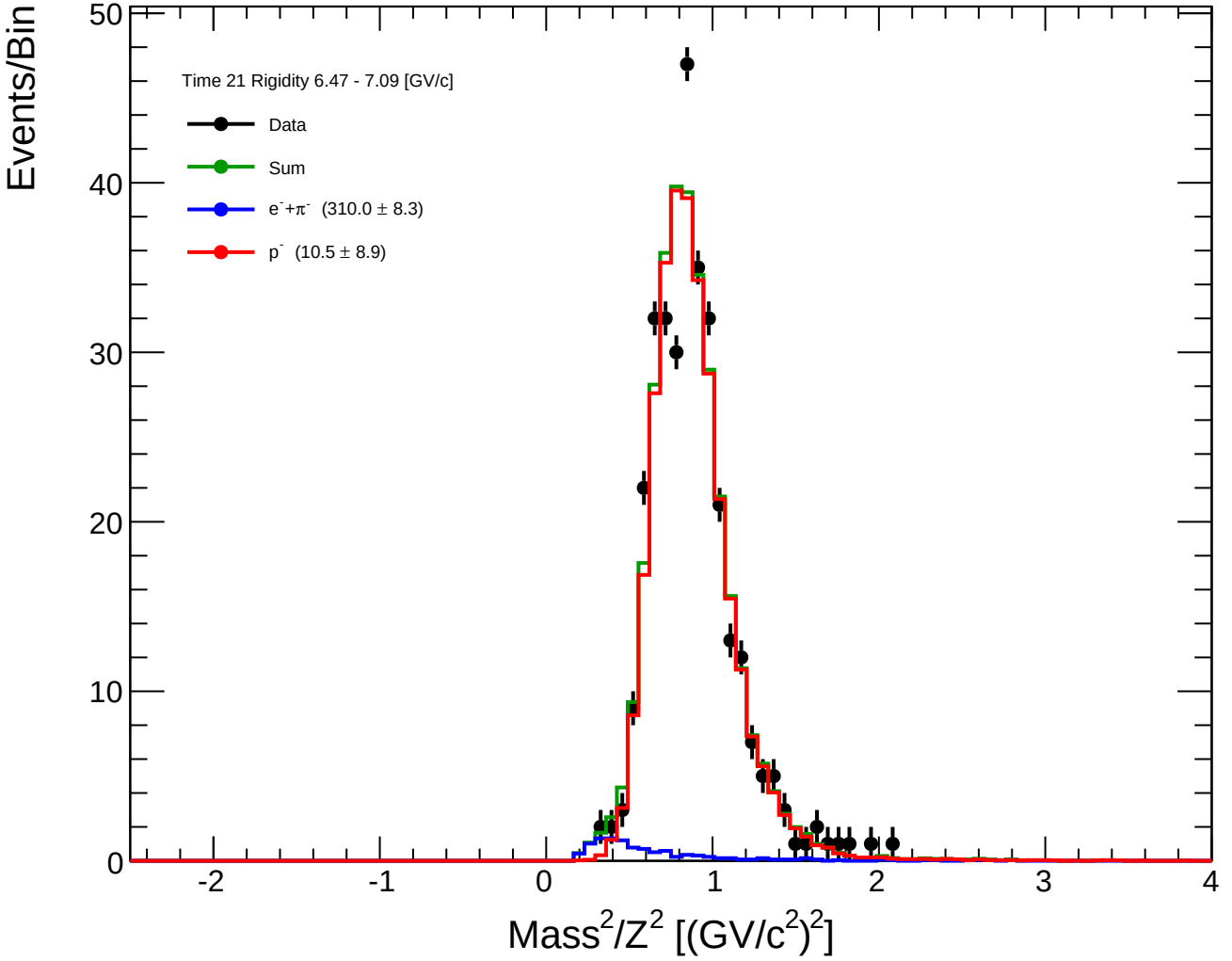

Time 21 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (31.9 ± 6.8)
p⁻ (3.4 ± 9.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
1
2
3
4
5
6
7
8
9
-2
-1
0
1
2
3
4

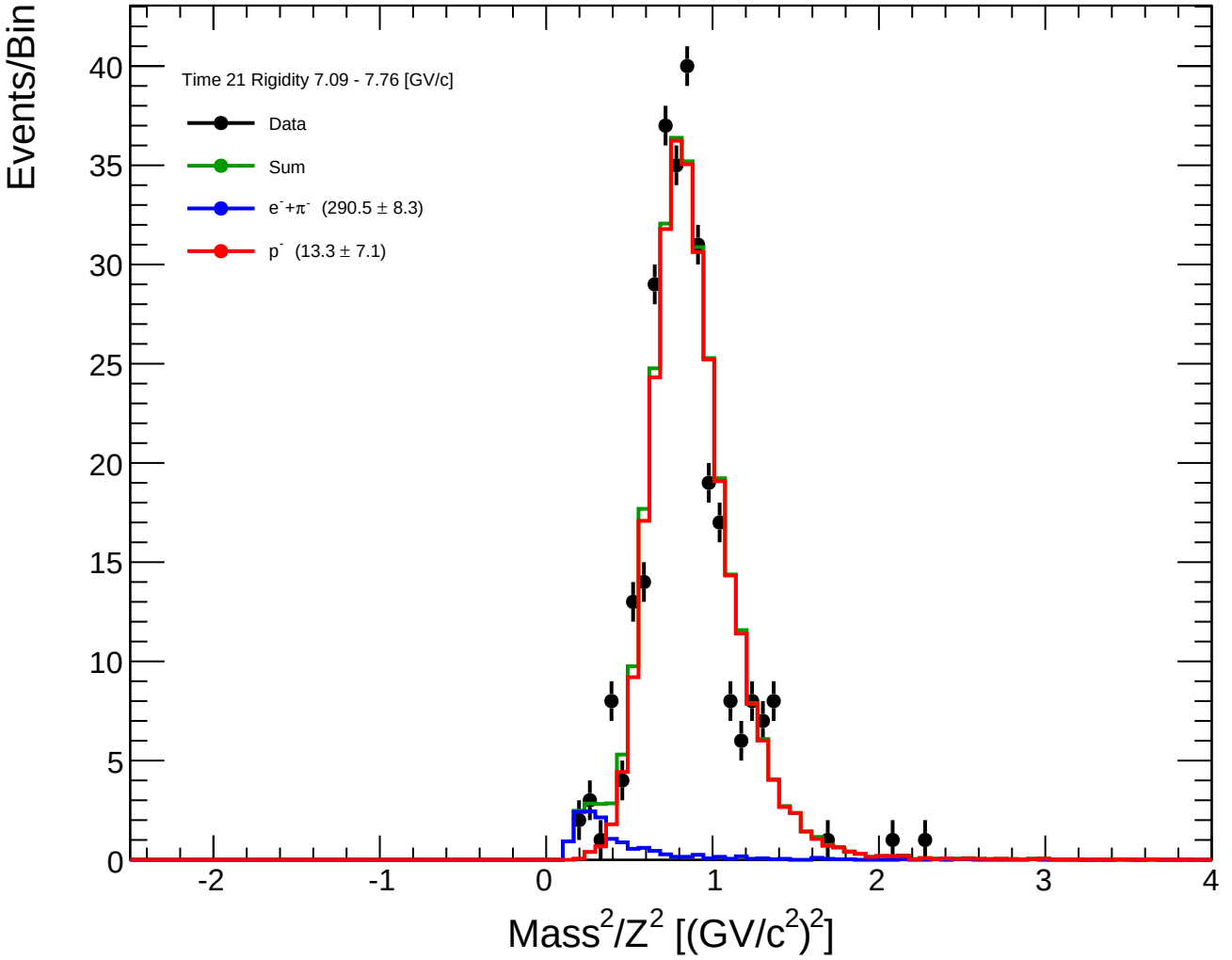

Time 21 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (197.7 ± 10.7)
p⁻ (10.6 ± 14.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

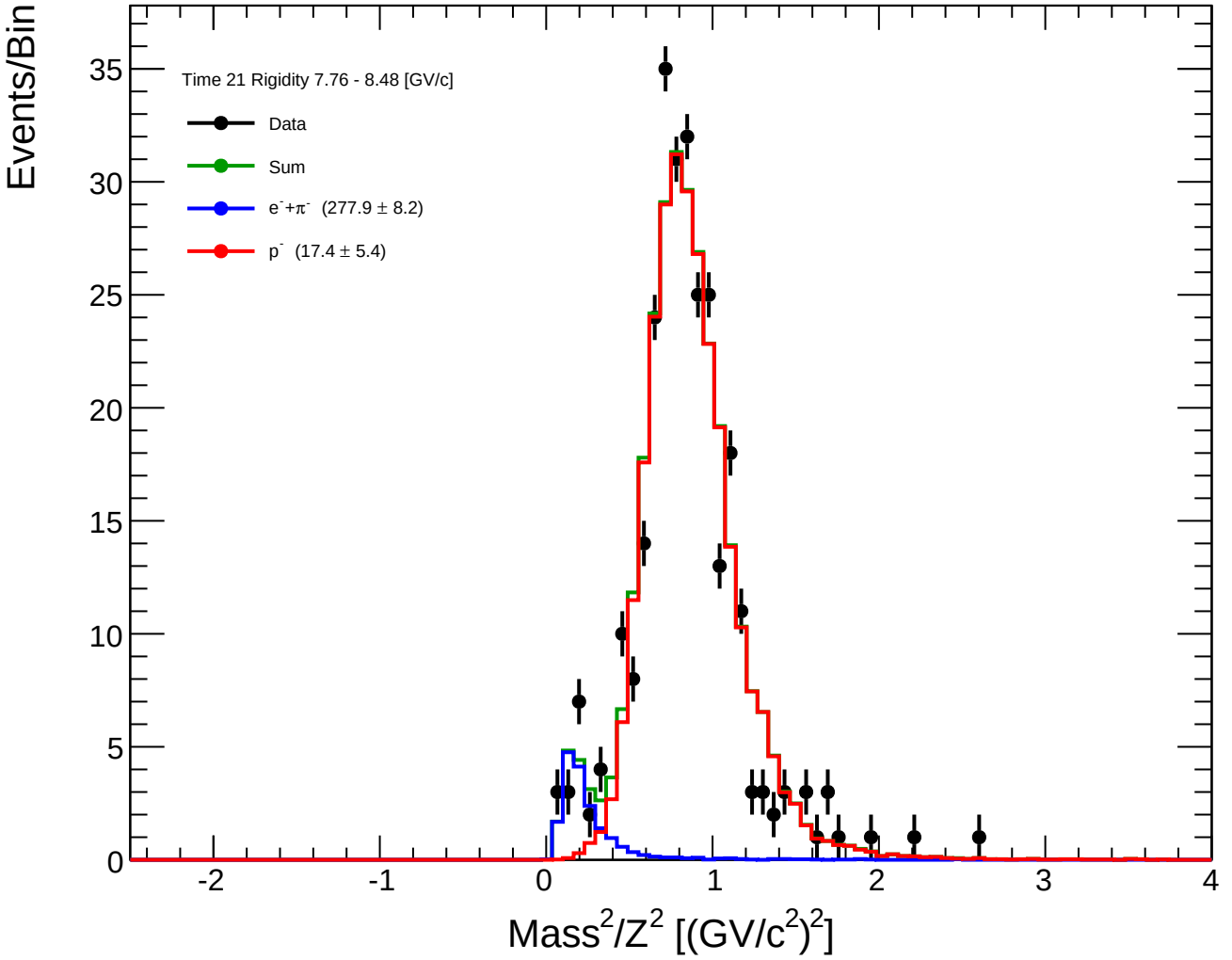

Time 21 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (397.1± 11.3)
p⁻ (7.4 ± 15.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

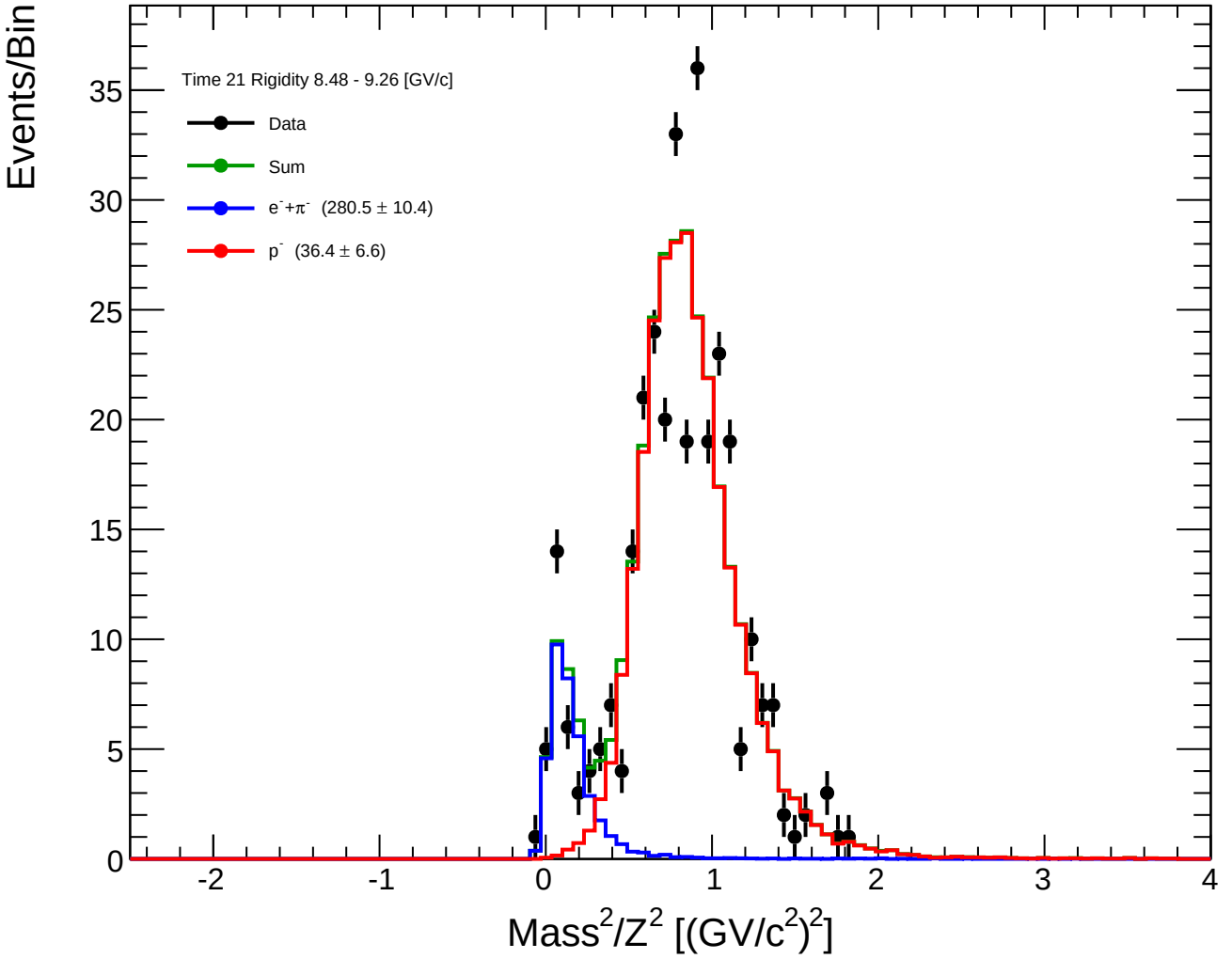

Time 21 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (263.5 ± 7.4)
p⁻ (0.0 ± 8.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

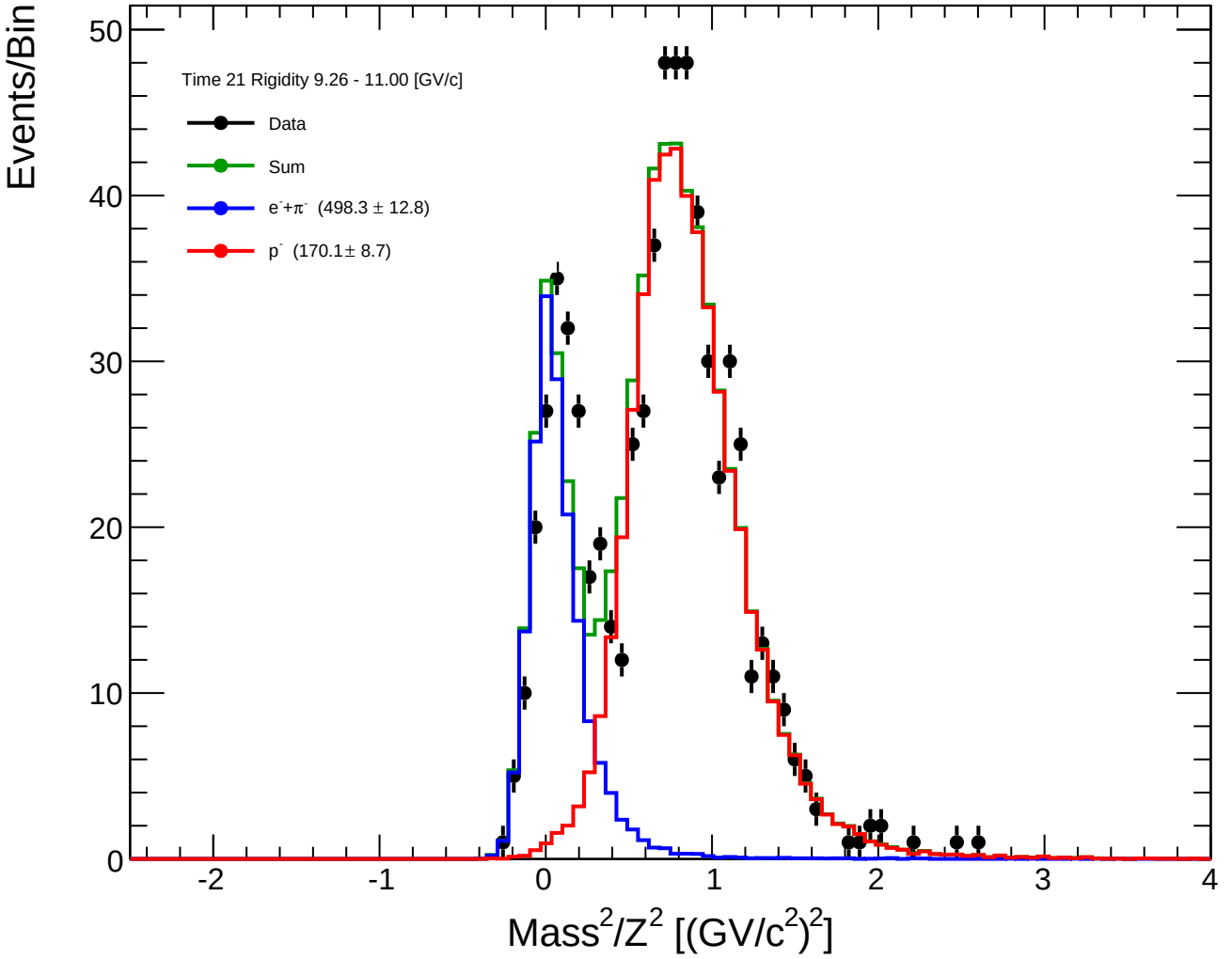

Time 21 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (244.5 ± 7.3)
p⁻ (0.0 ± 9.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

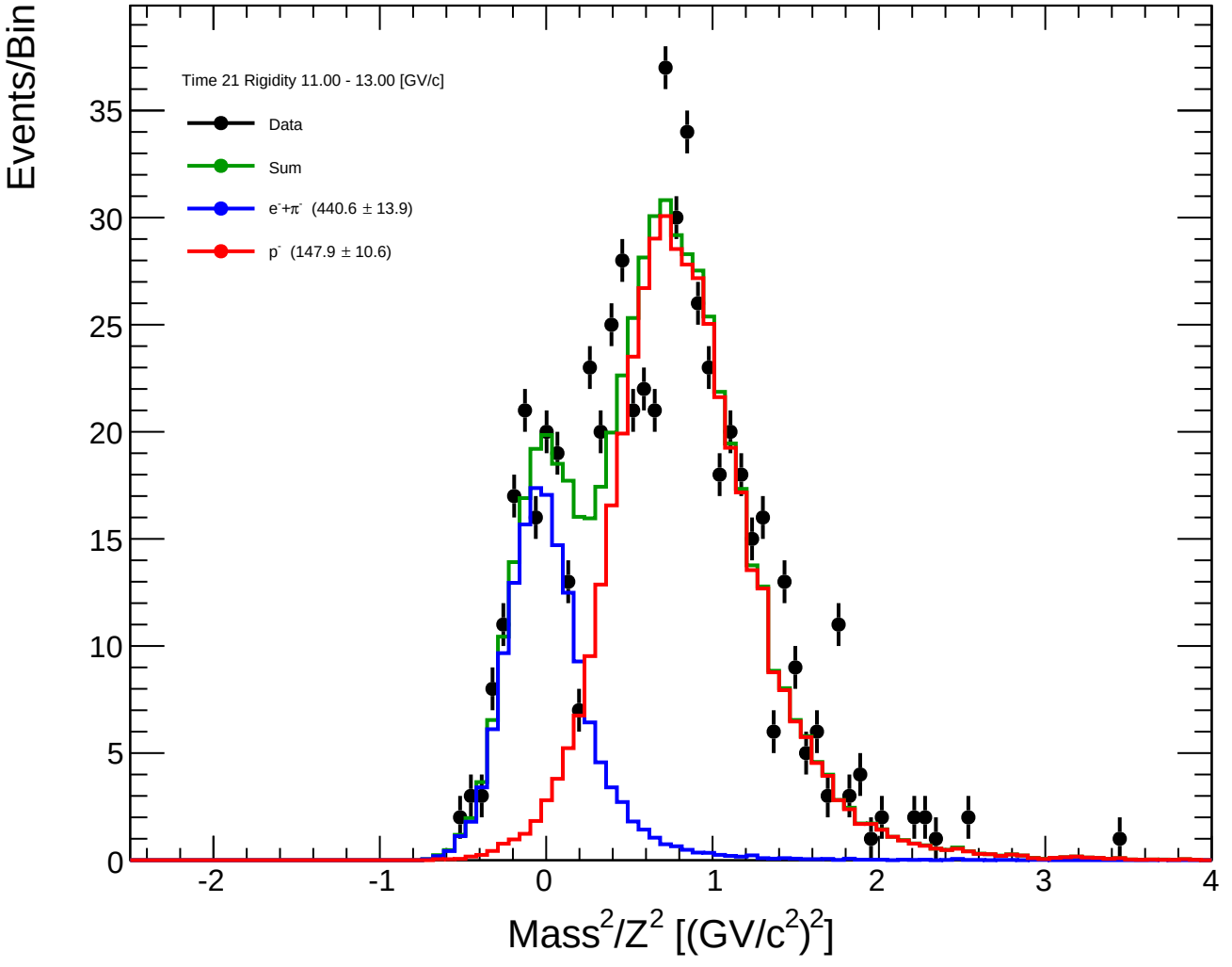

Time 21 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (310.0 ± 8.3)
p⁻ (10.5 ± 8.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

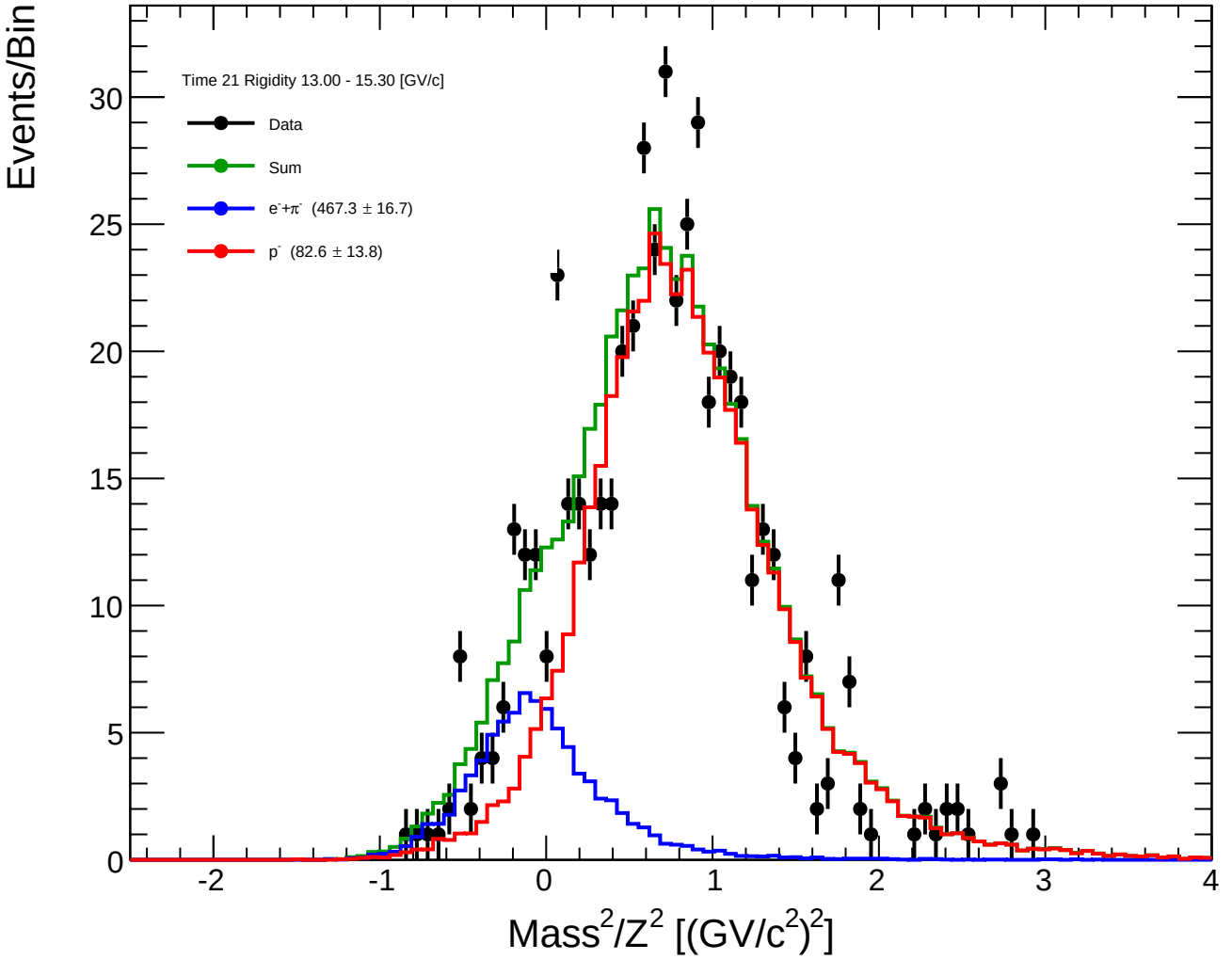

Time 21 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (290.5 ± 8.3)
p⁻ (13.3 ± 7.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

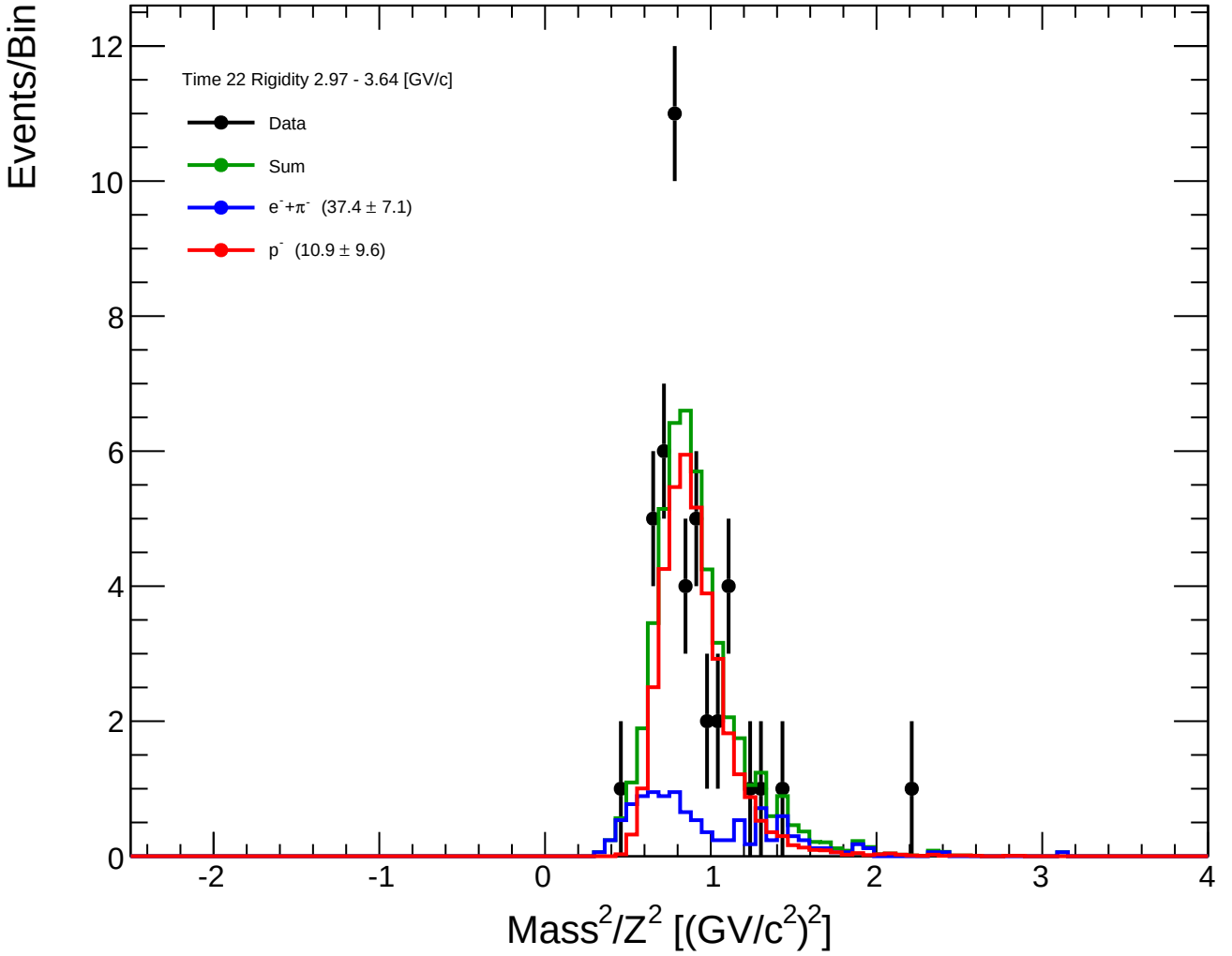

Time 21 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (277.9 ± 8.2)
p⁻ (17.4 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

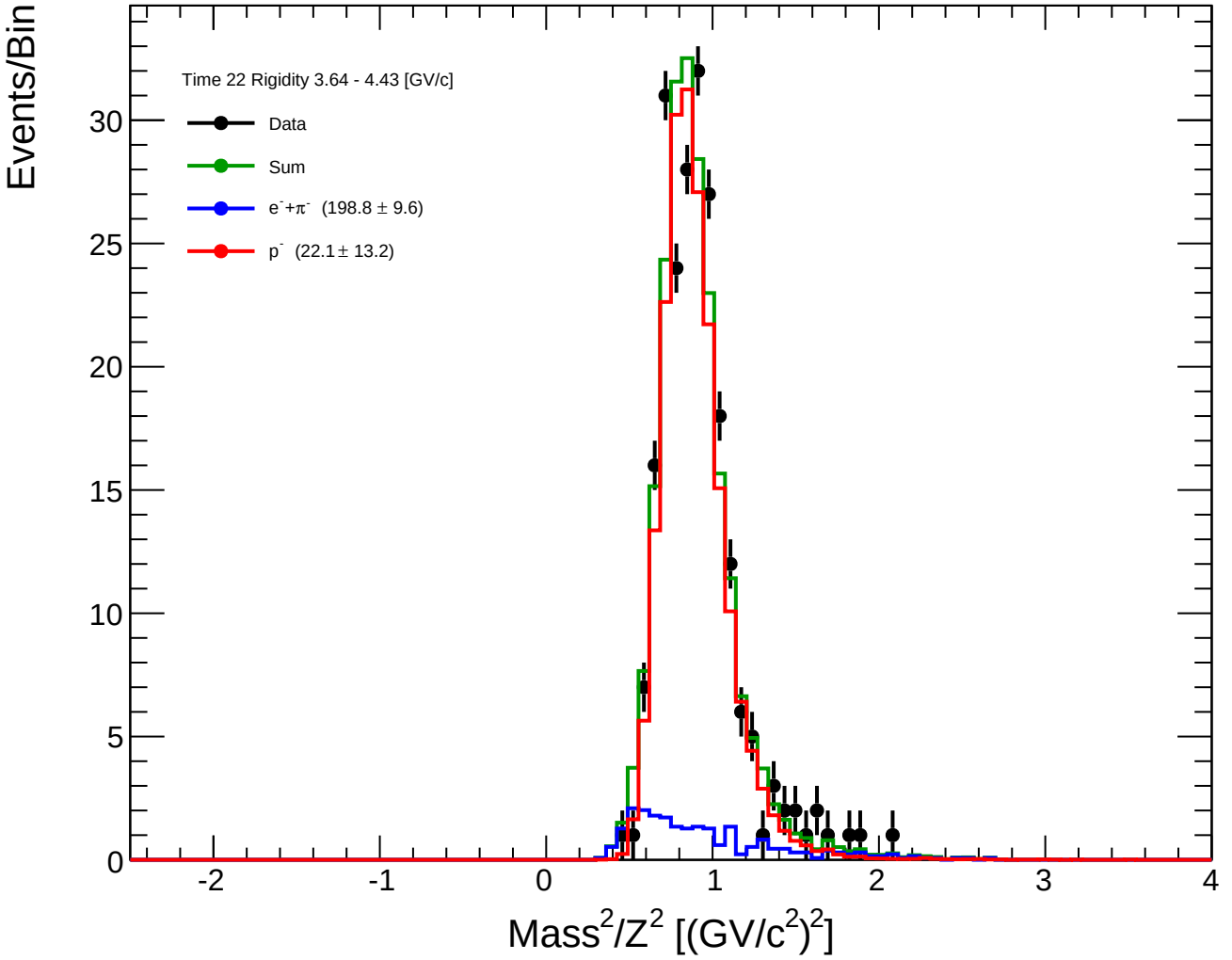

Time 21 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (280.5 ± 10.4)
p⁻ (36.4 ± 6.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

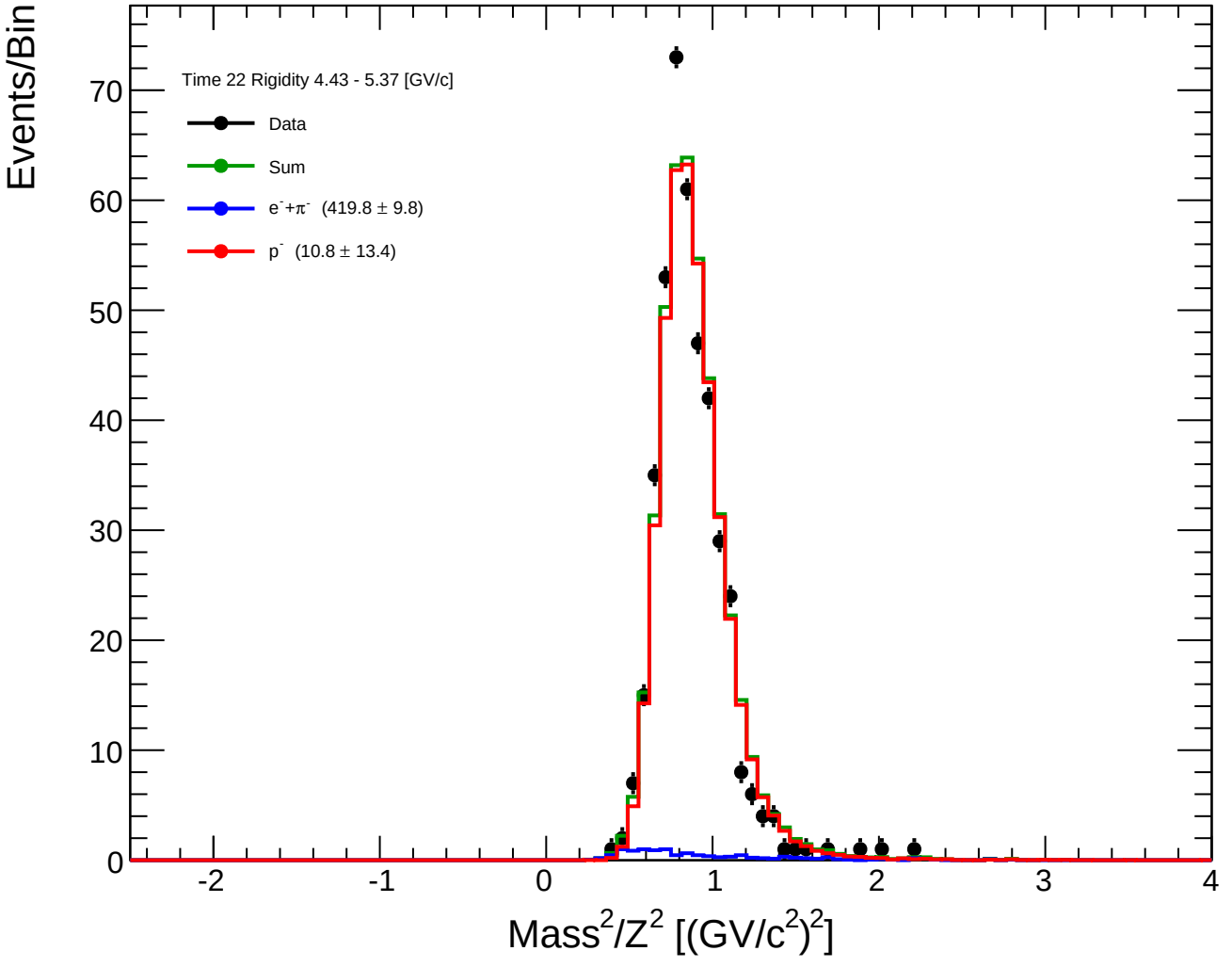

Time 21 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (498.3 ± 12.8)
p⁻ (170.1± 8.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

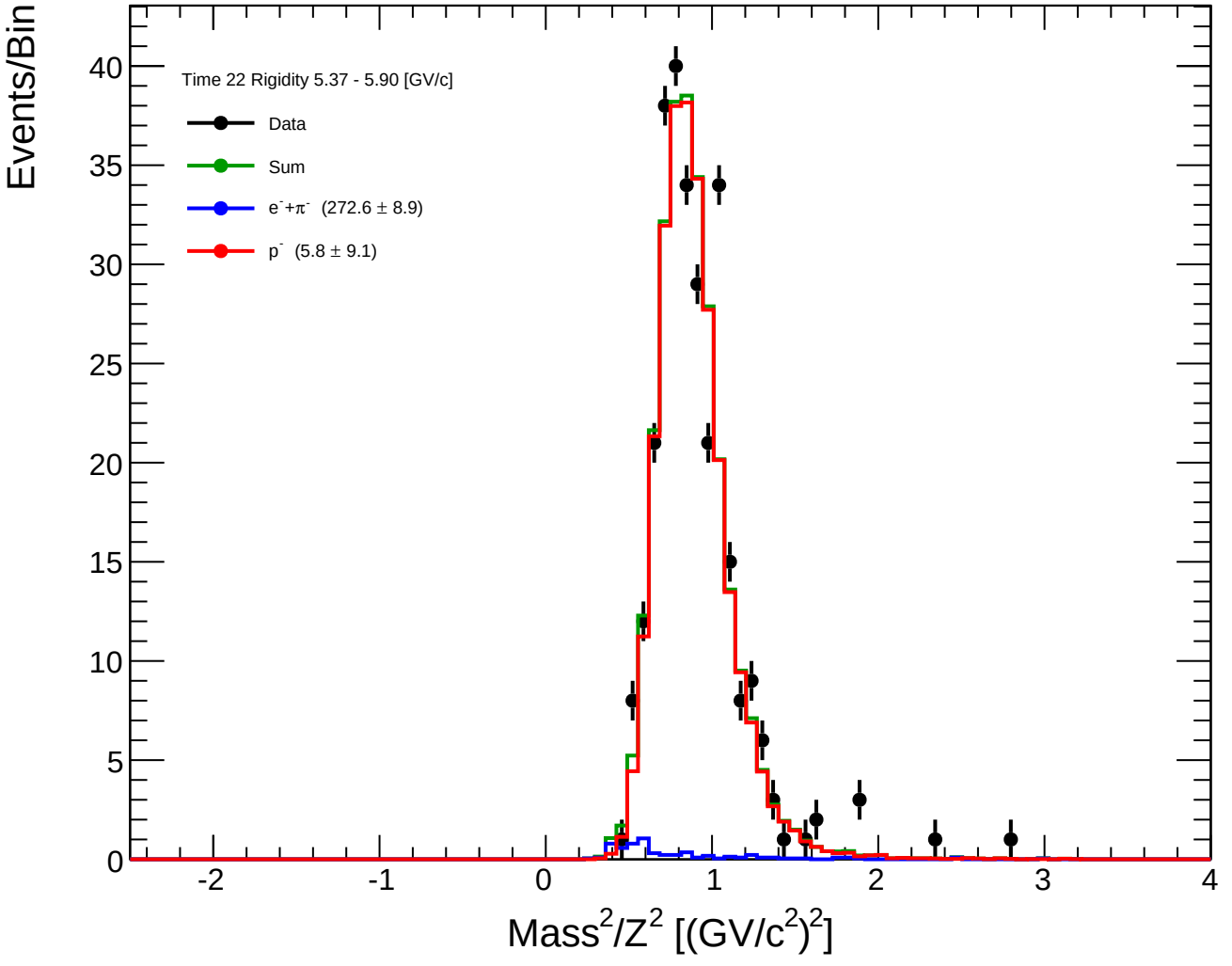

Time 21 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (440.6 ± 13.9)
p⁻ (147.9 ± 10.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

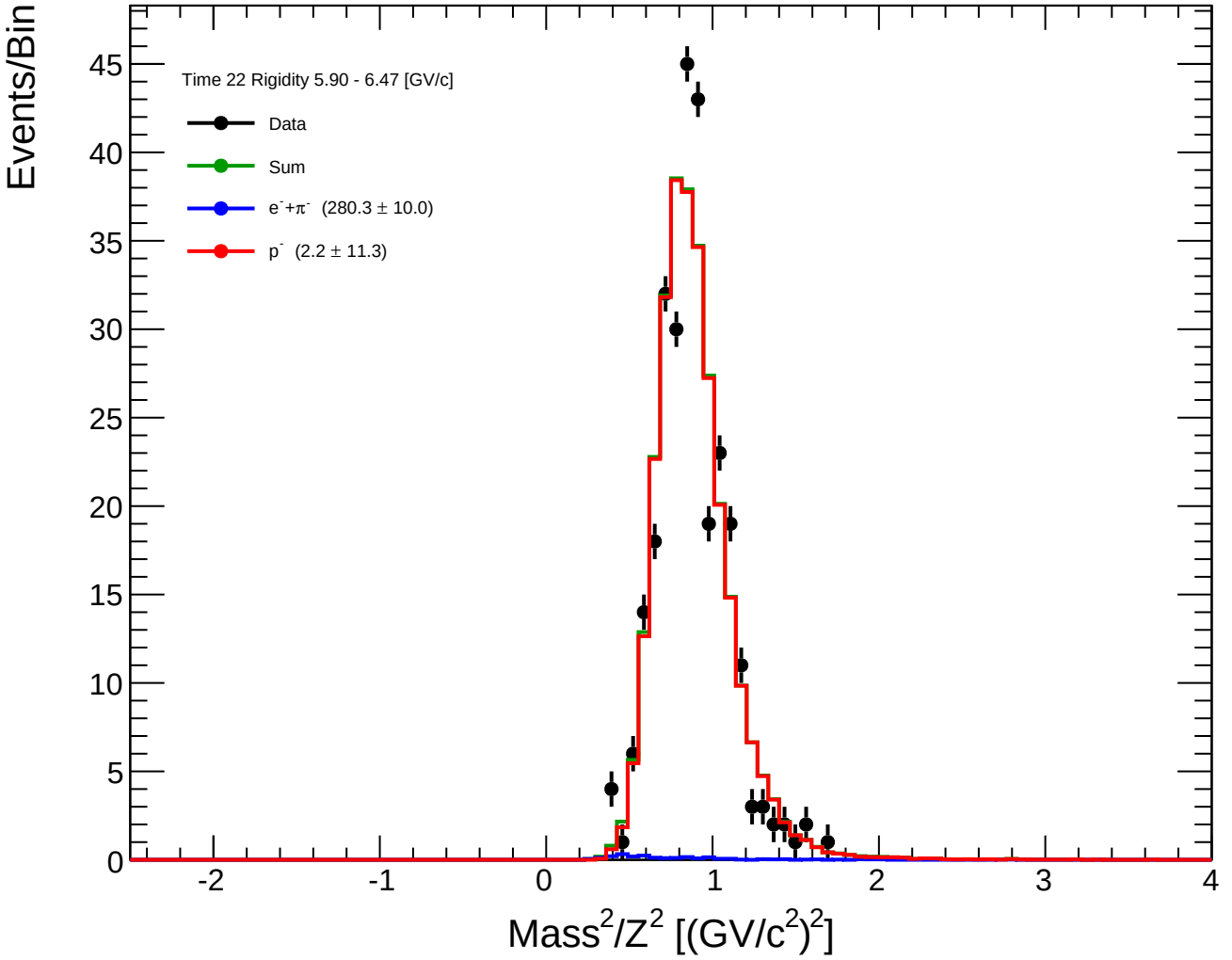

Time 21 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (467.3 ± 16.7)
p⁻ (82.6 ± 13.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

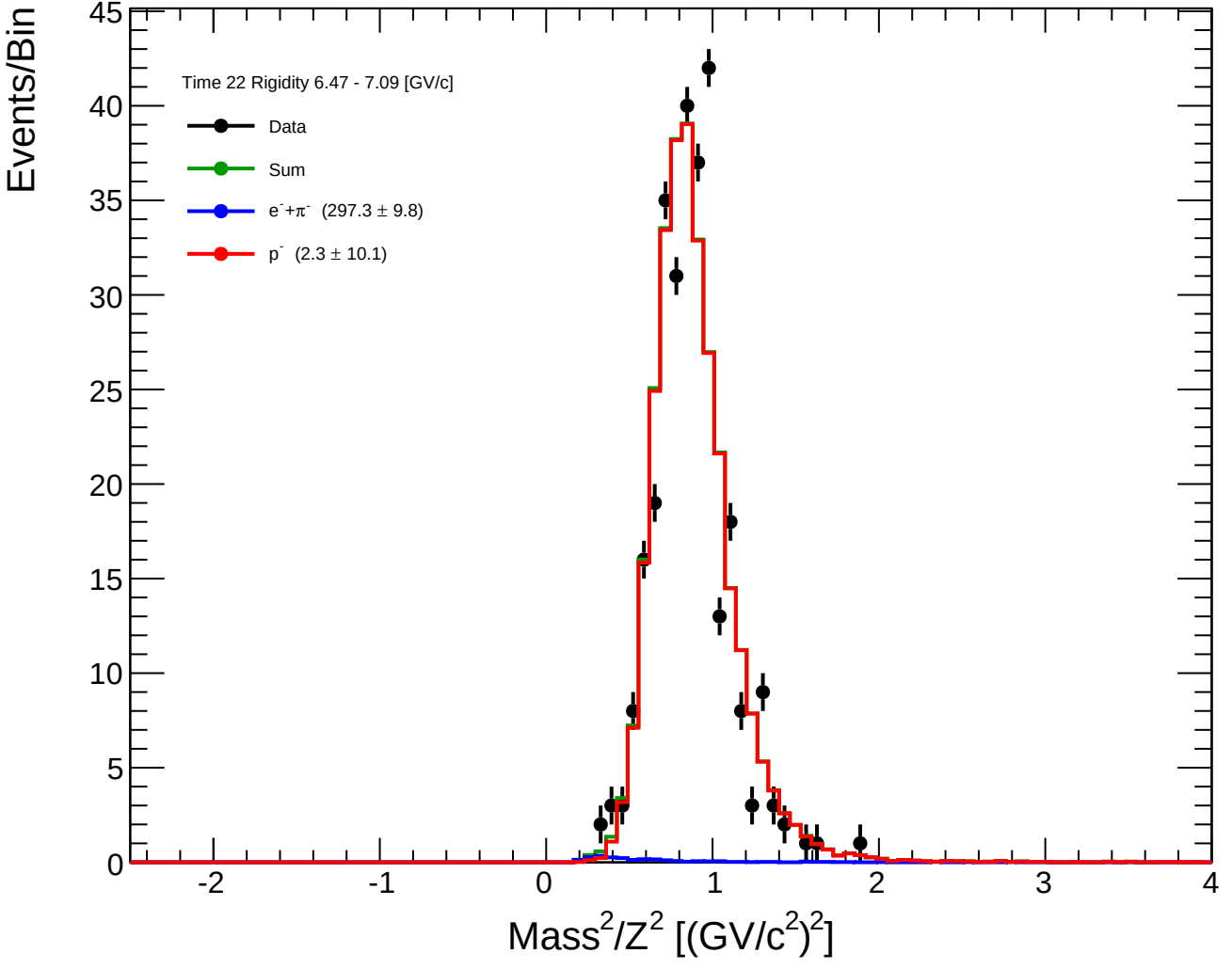

Events/Bin
Time 22 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (37.4 ± 7.1)
p⁻ (10.9 ± 9.6)
0
2
4
6
8
10
12
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

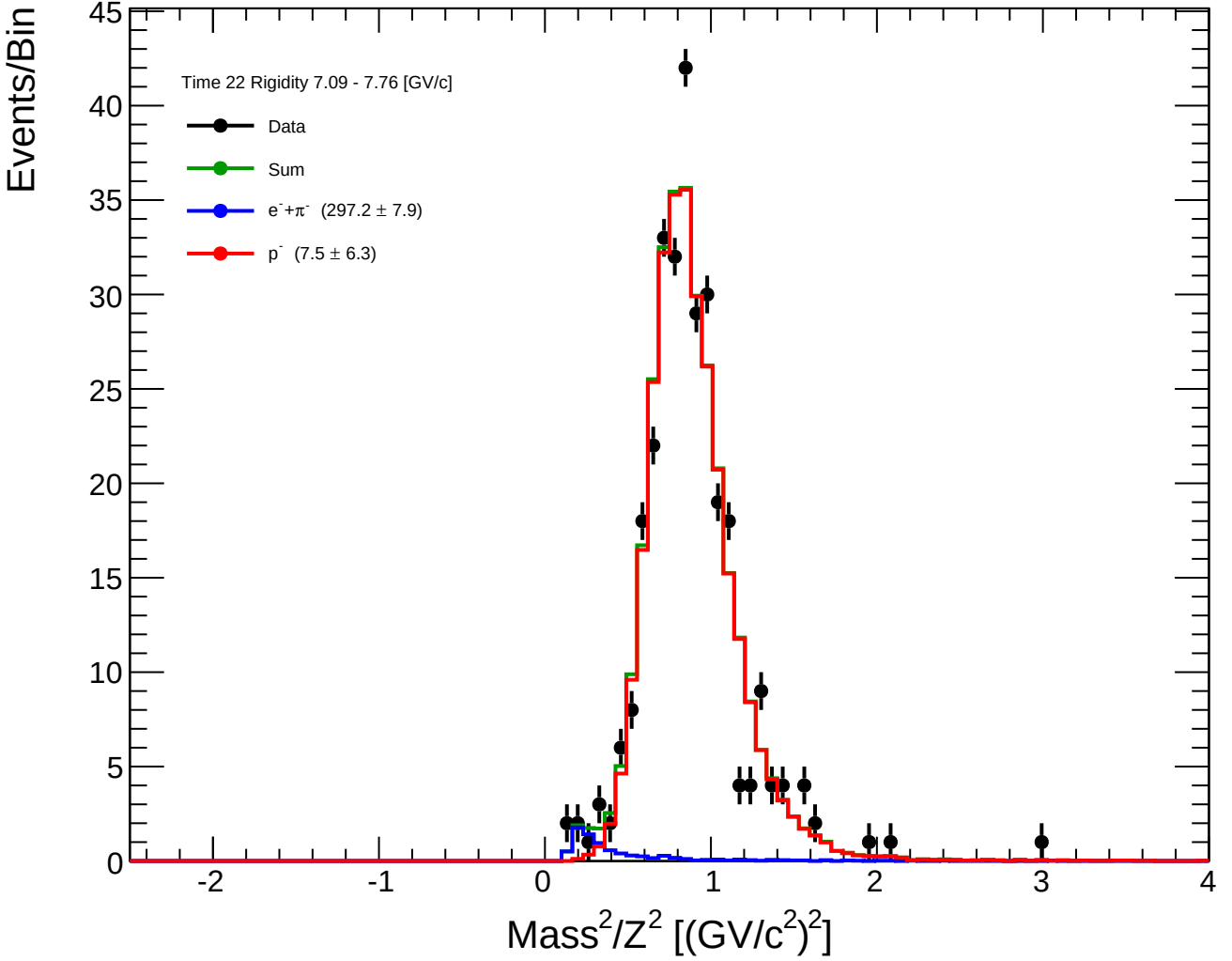

Time 22 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (198.8 ± 9.6)
p⁻ (22.1± 13.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

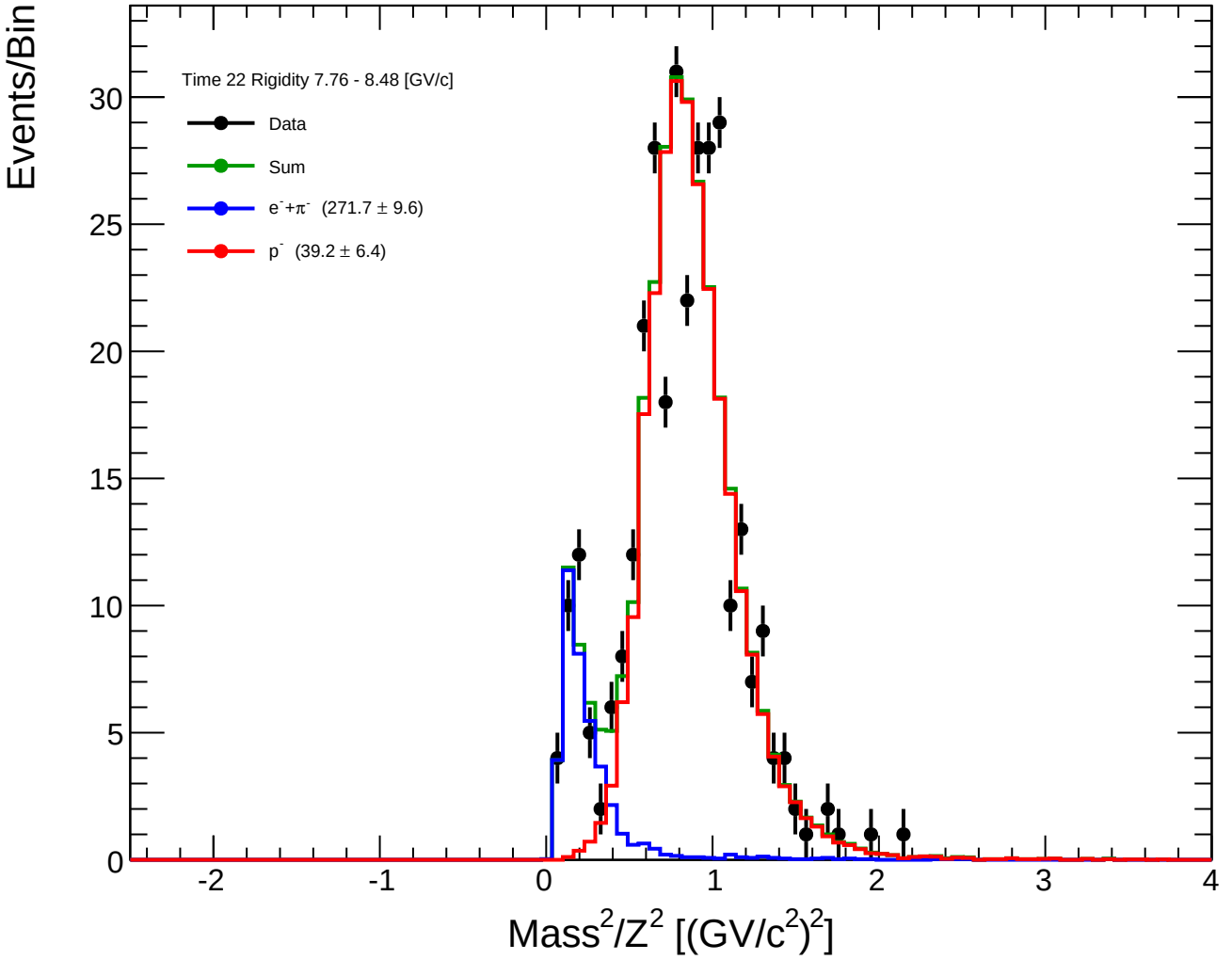

Time 22 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (419.8 ± 9.8)
p⁻ (10.8 ± 13.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

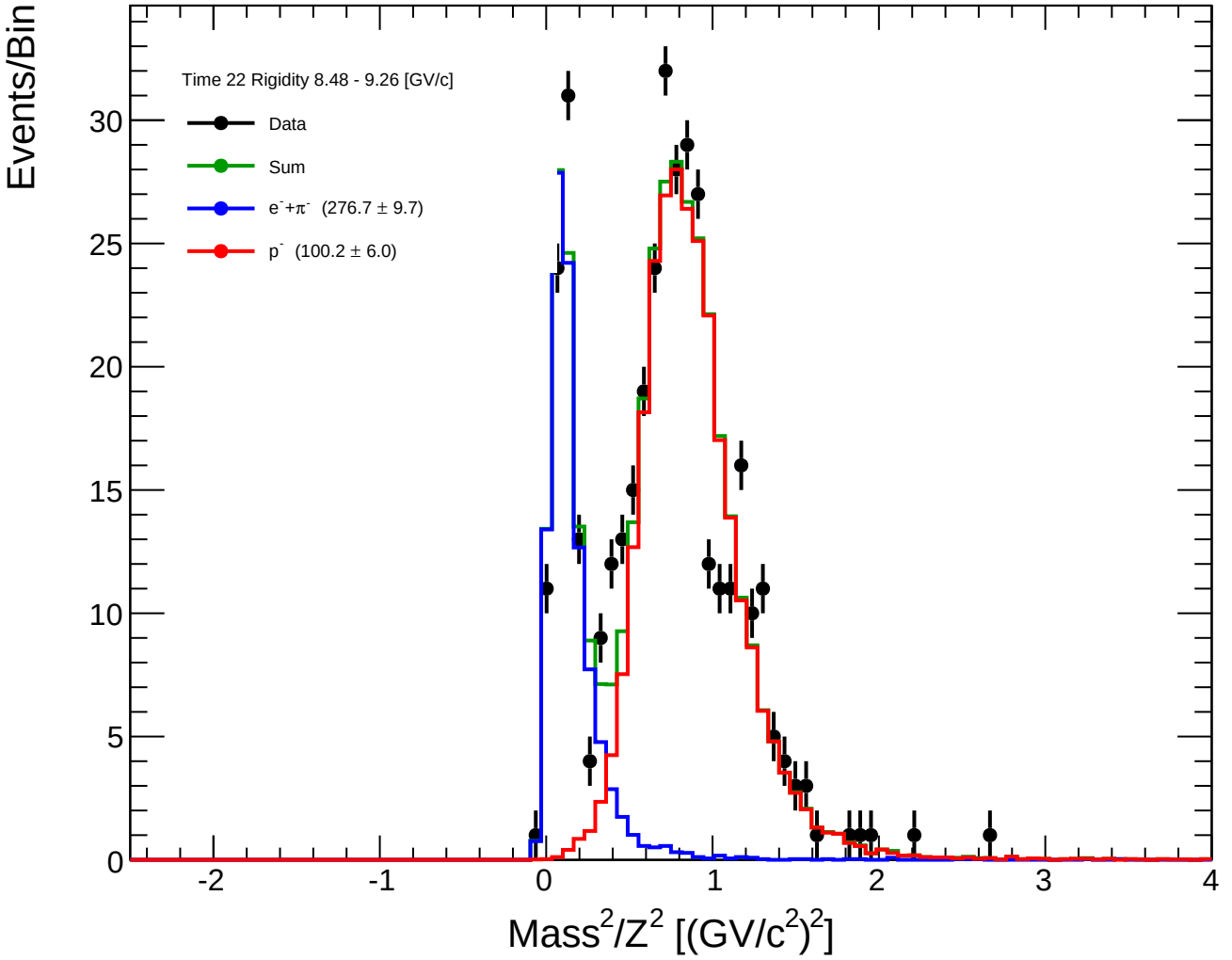

Time 22 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (272.6 ± 8.9)
p⁻ (5.8 ± 9.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

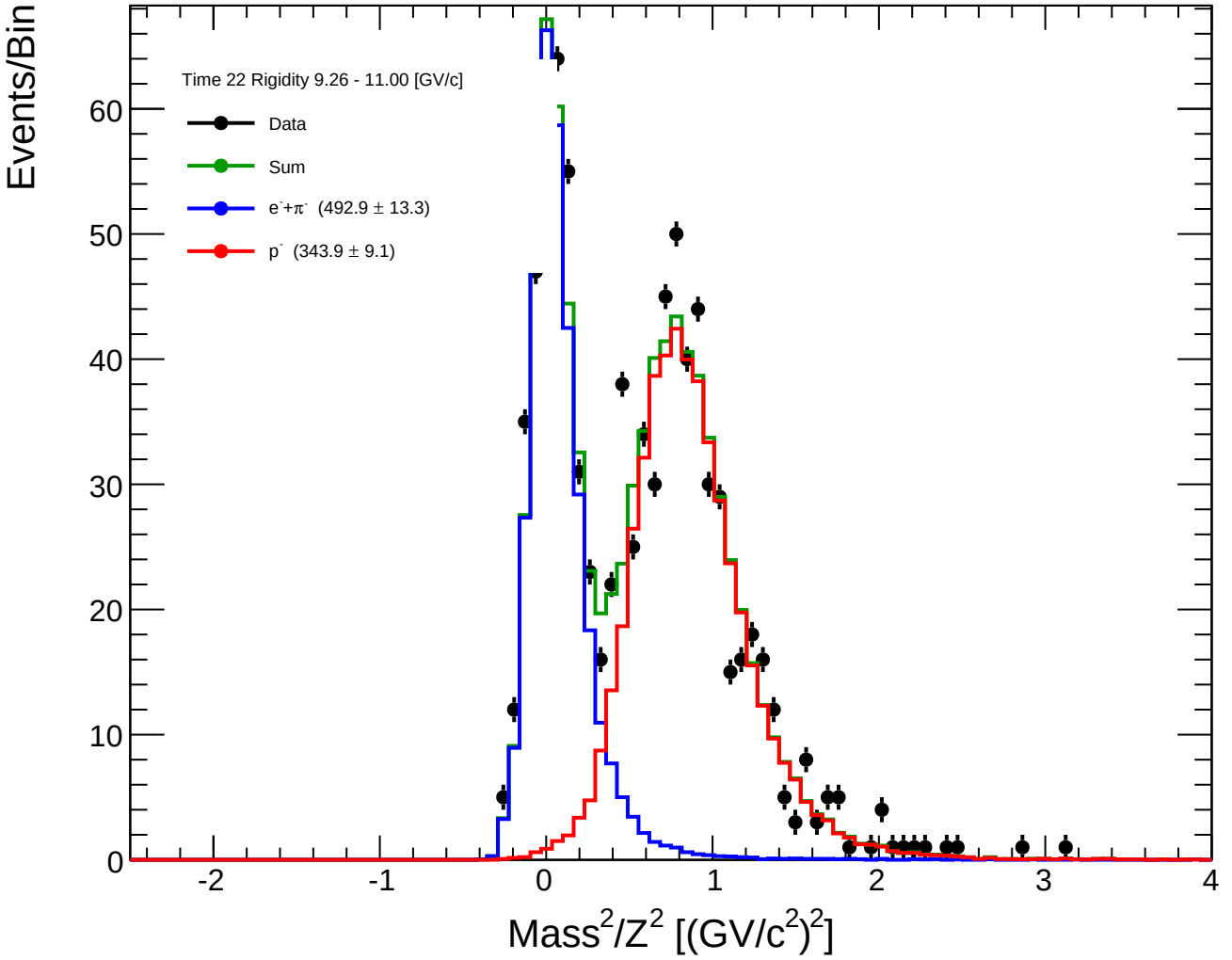

Time 22 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (280.3 ± 10.0)
p⁻ (2.2 ± 11.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

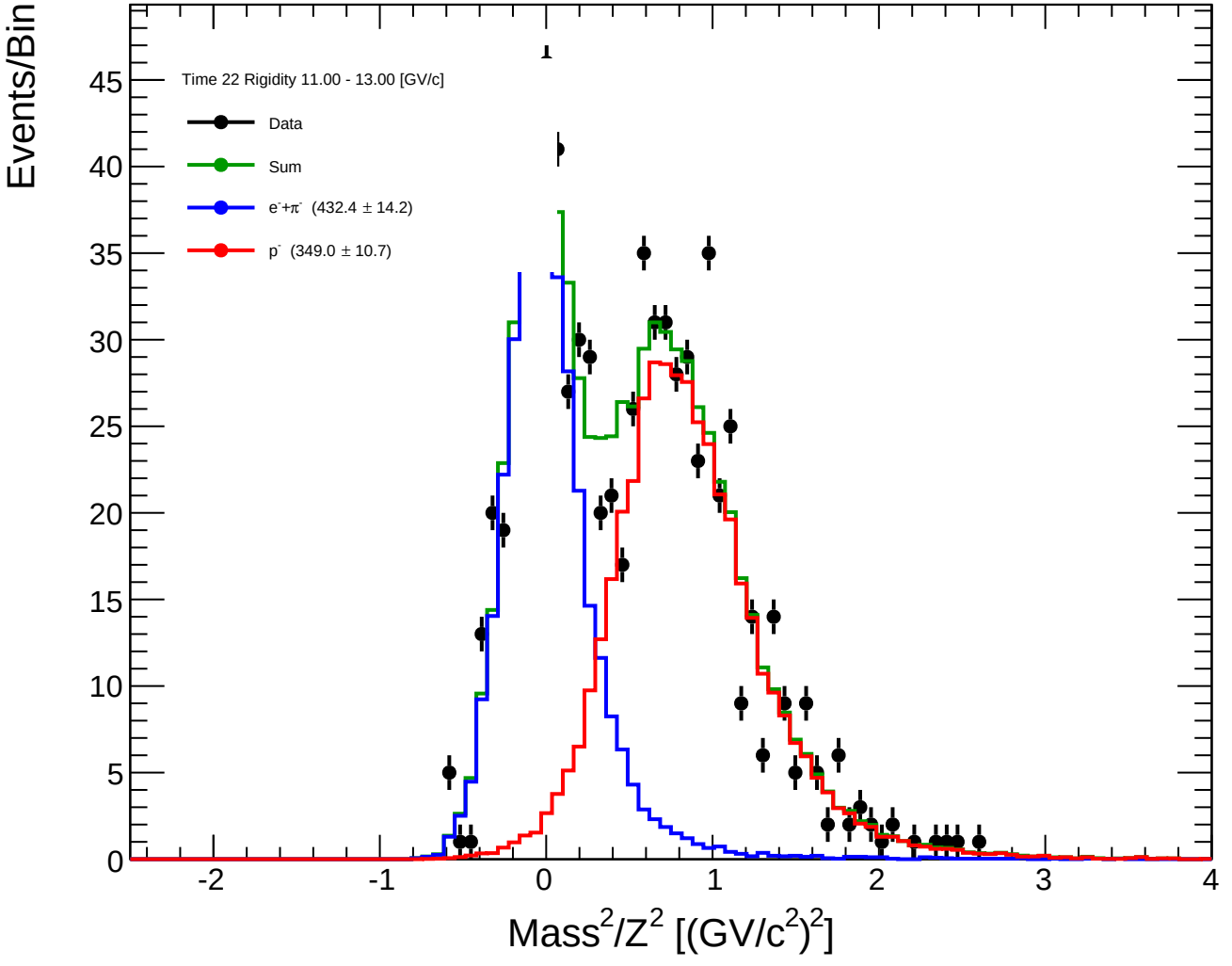

Time 22 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (297.3 ± 9.8)
p⁻ (2.3 ± 10.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

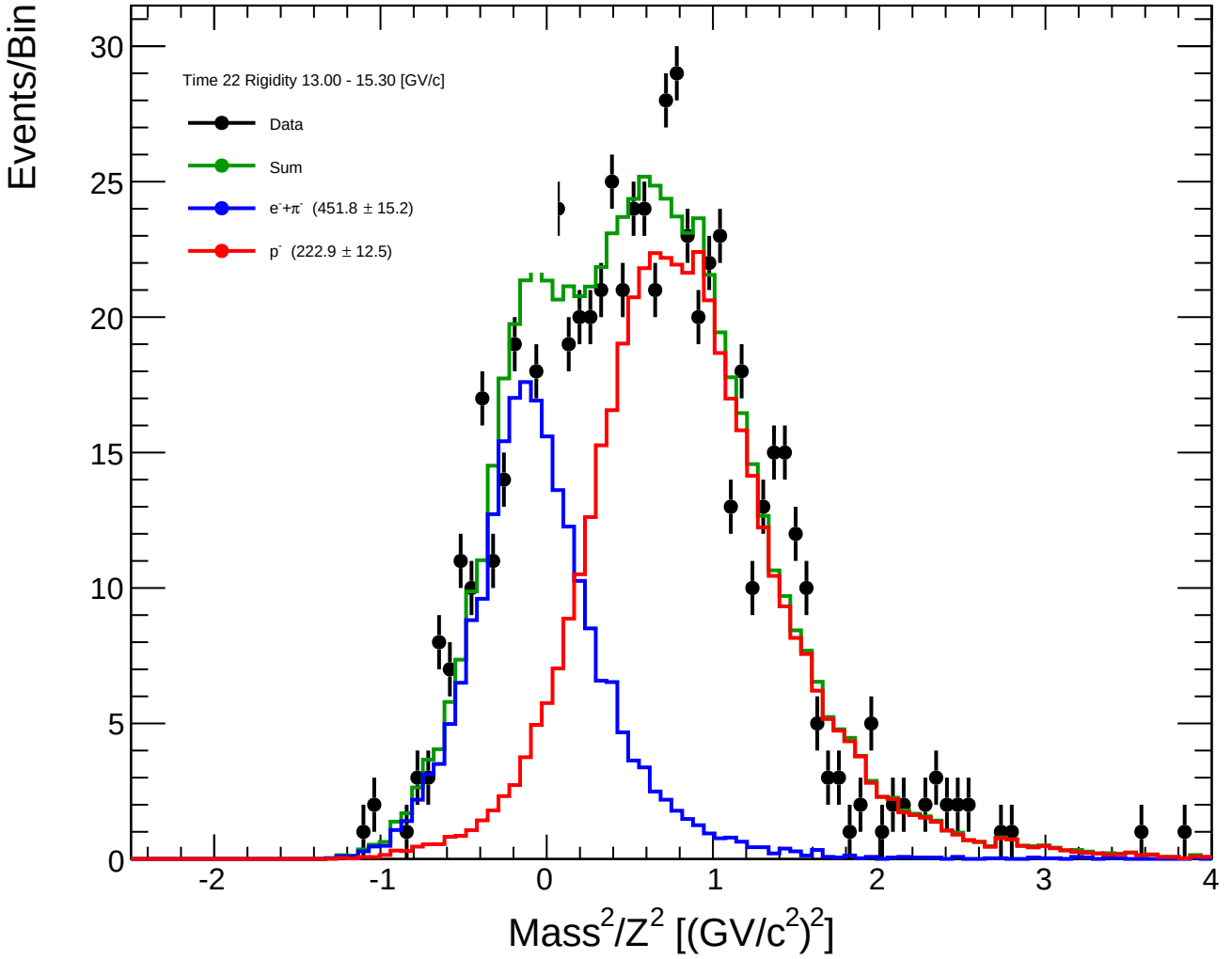

Time 22 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (297.2 ± 7.9)
p⁻ (7.5 ± 6.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

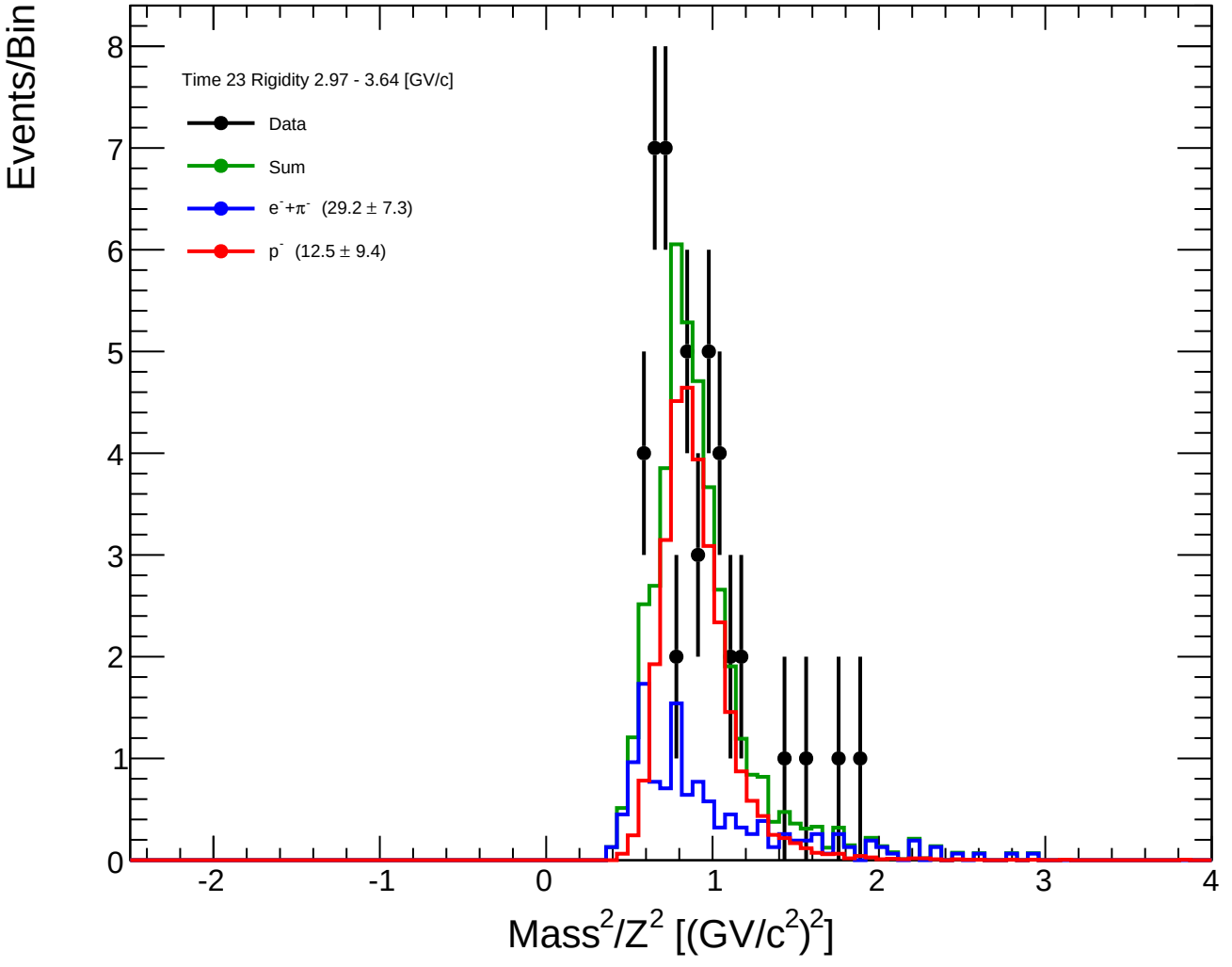

Time 22 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (271.7 ± 9.6)
p⁻ (39.2 ± 6.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

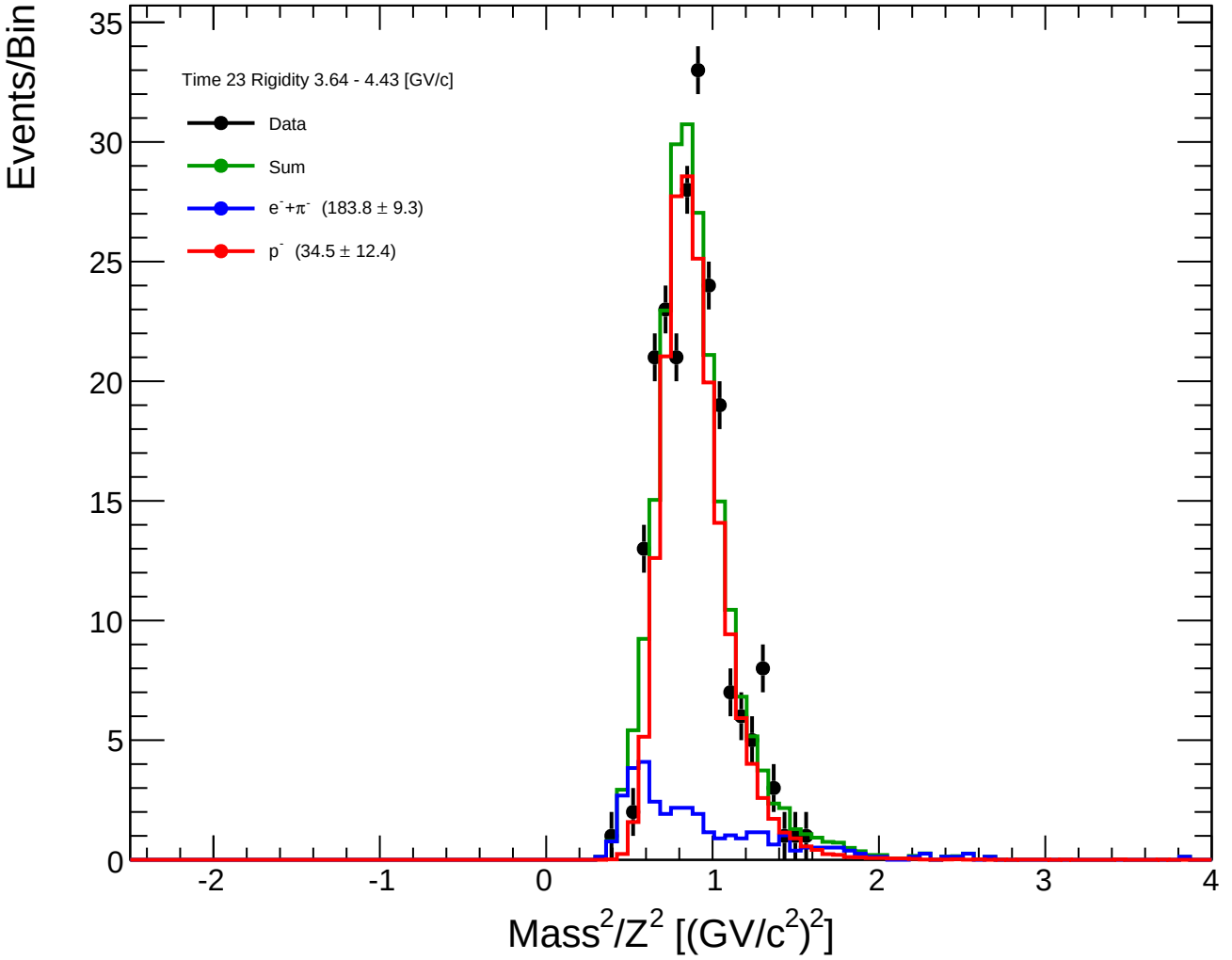

Time 22 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (276.7 ± 9.7)
p⁻ (100.2 ± 6.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

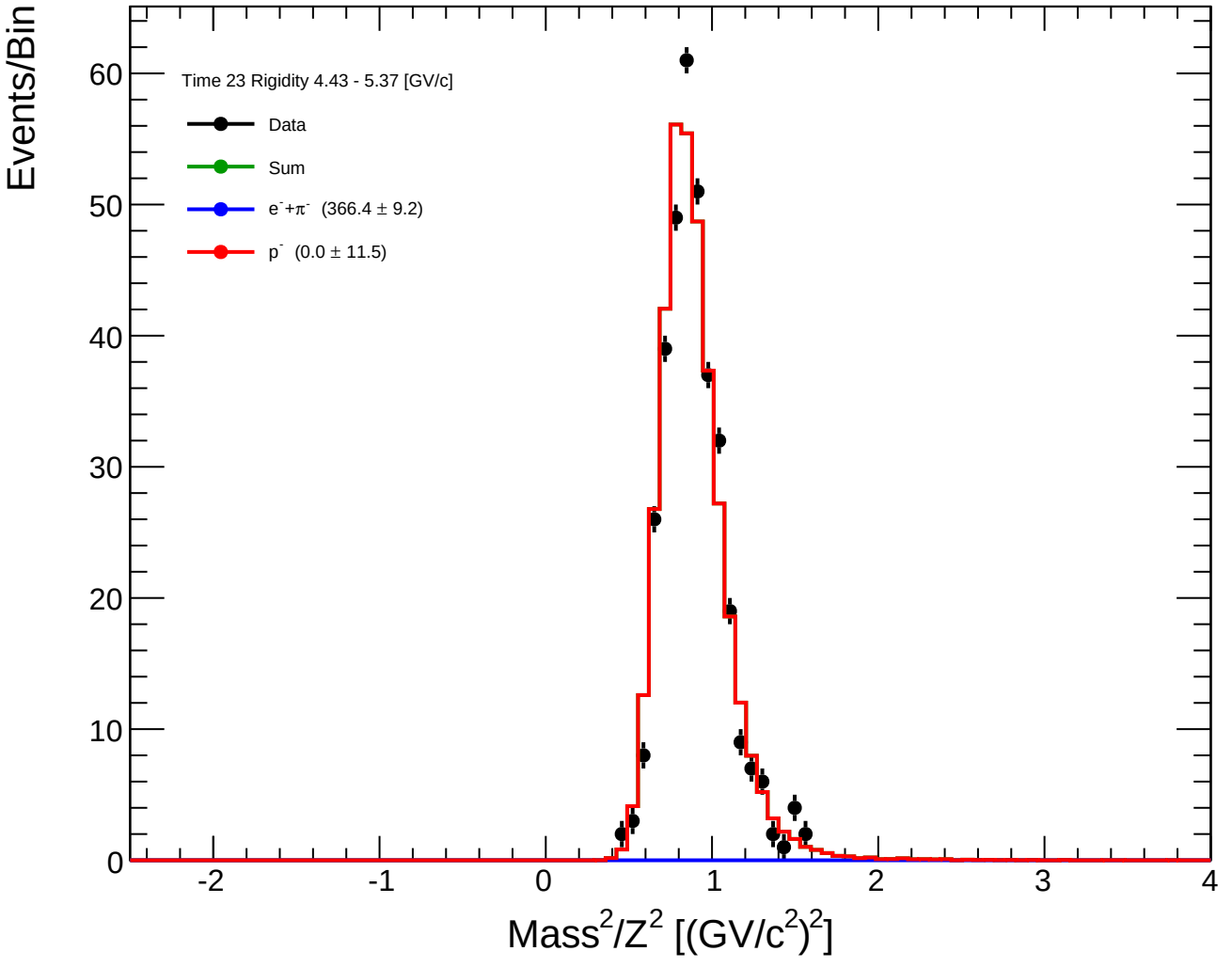

Time 22 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (492.9 ± 13.3)
p⁻ (343.9 ± 9.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

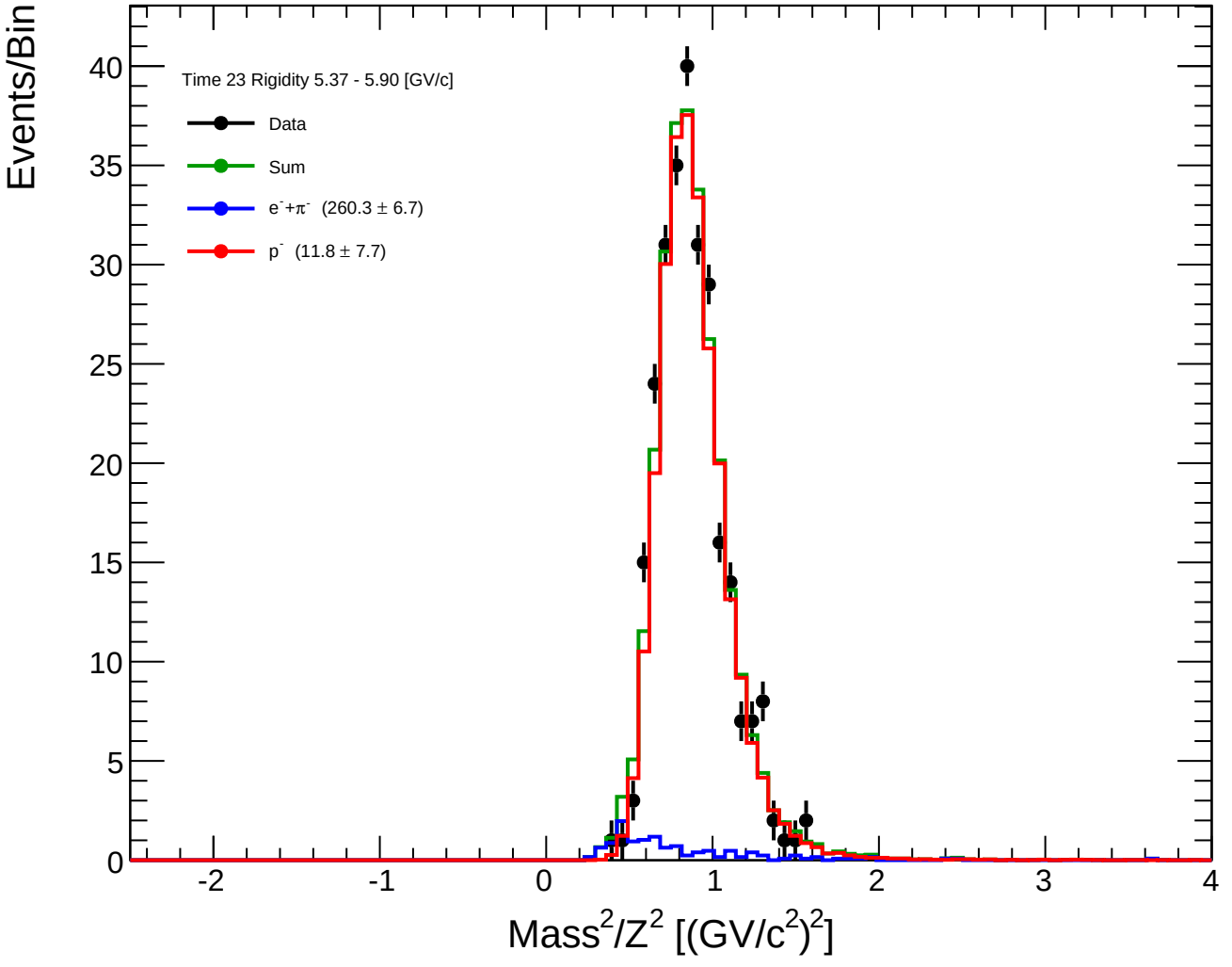

Time 22 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (432.4 ± 14.2)
p⁻ (349.0 ± 10.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

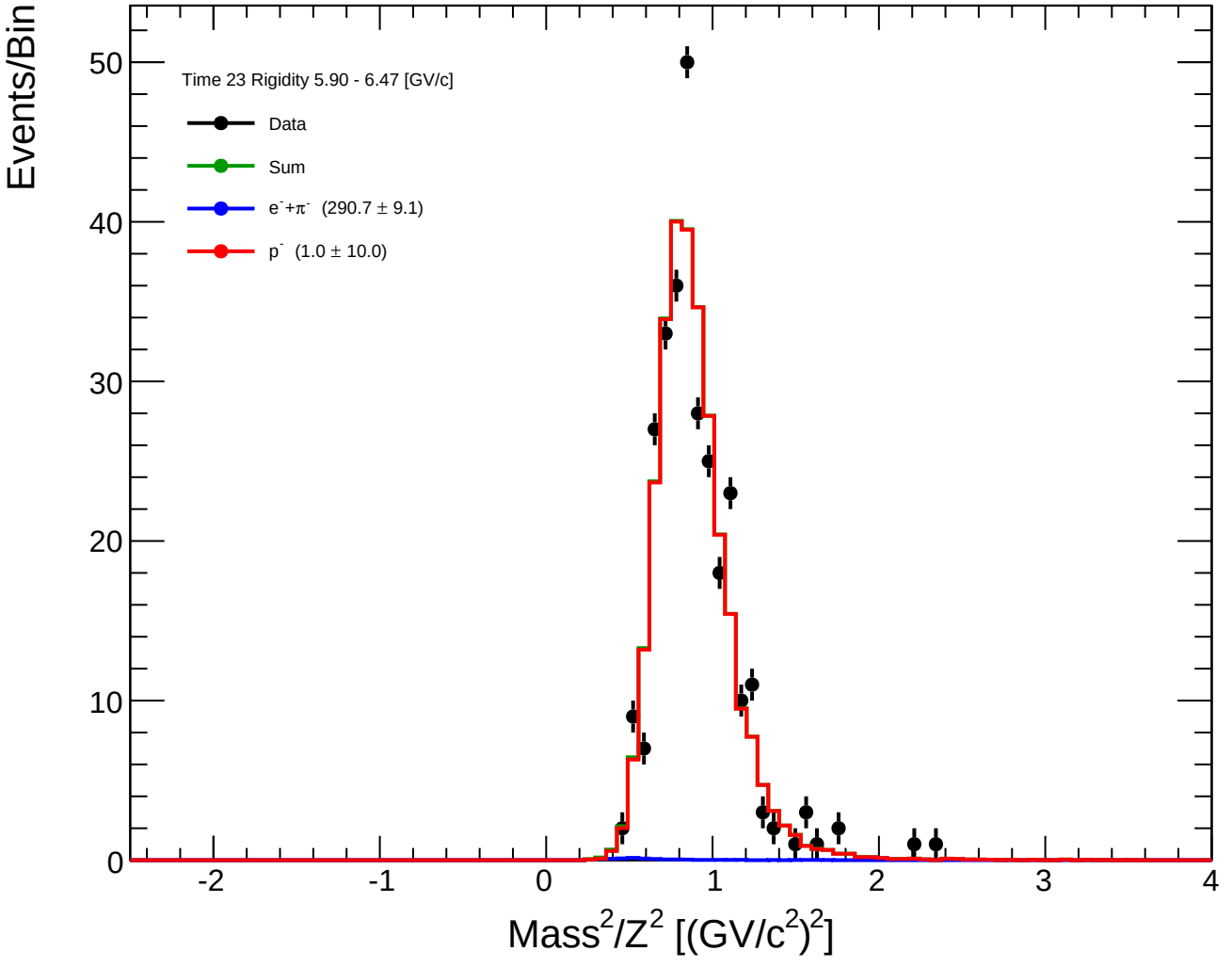

Time 22 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (451.8 ± 15.2)
p⁻ (222.9 ± 12.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

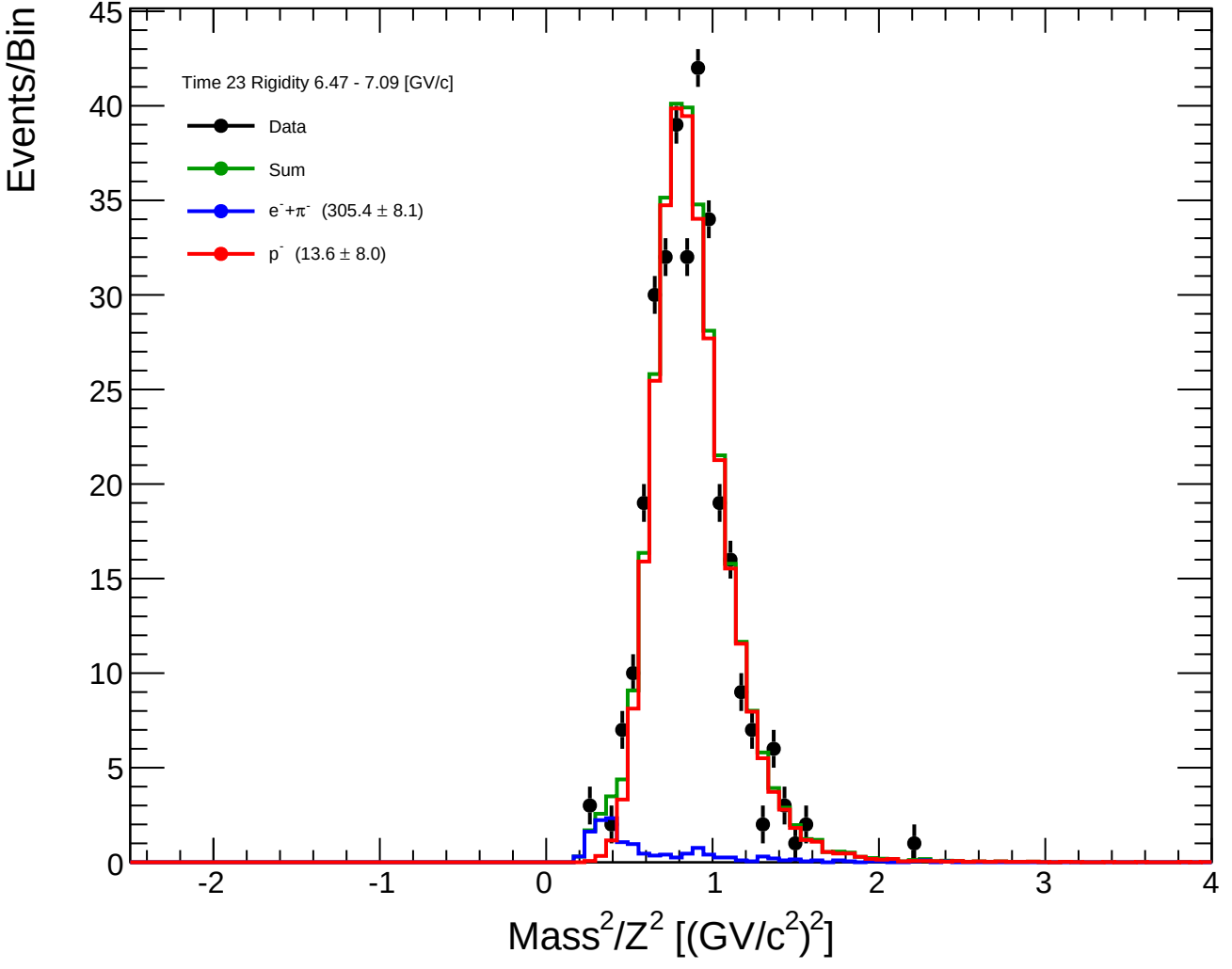

Time 23 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (29.2 ± 7.3)
p⁻ (12.5 ± 9.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
1
2
3
4
5
6
7
8
-2
-1
0
1
2
3
4

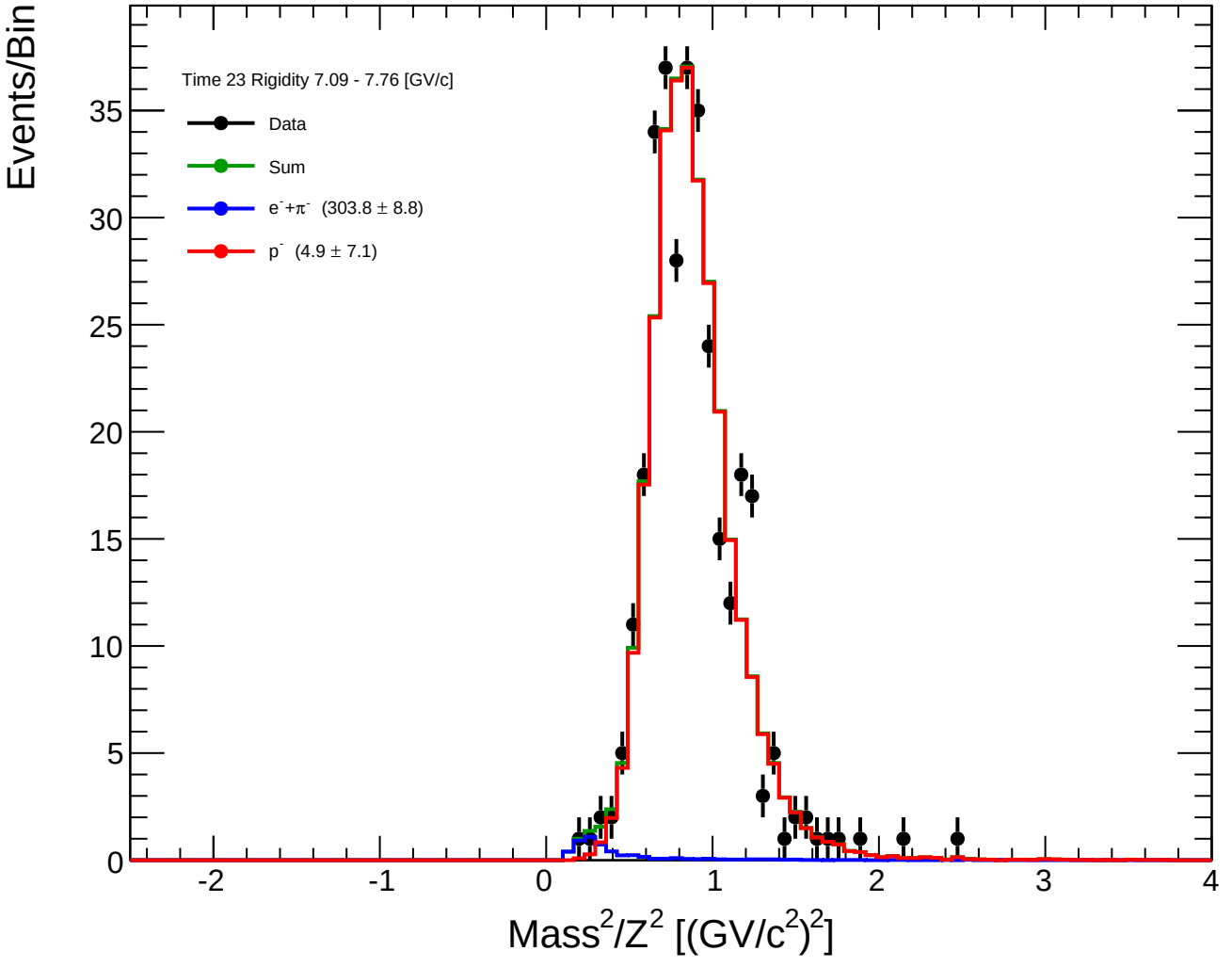

Time 23 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (183.8 ± 9.3)
p⁻ (34.5 ± 12.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

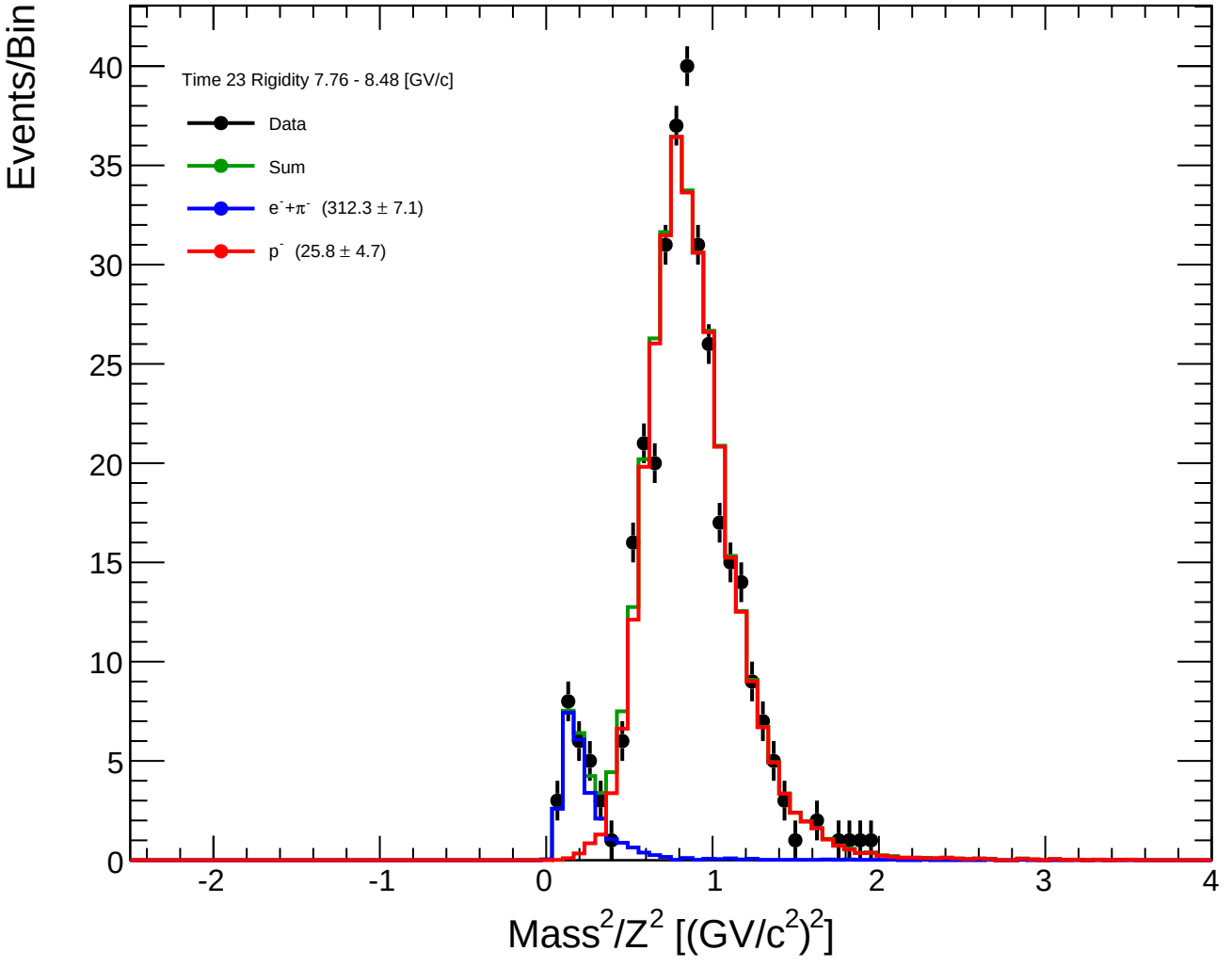

Time 23 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (366.4 ± 9.2)
p⁻ (0.0 ± 11.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

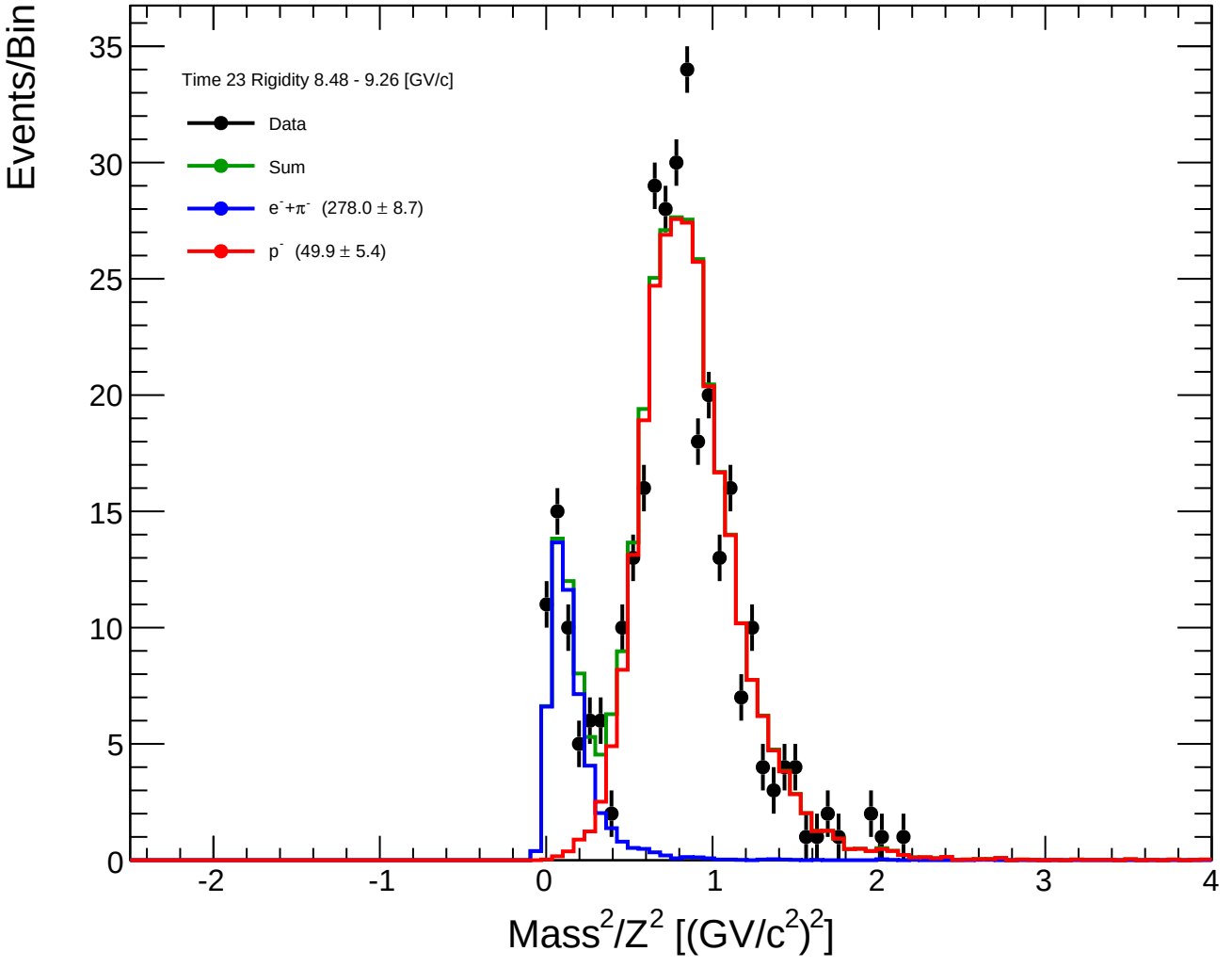

Time 23 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (260.3 ± 6.7)
p⁻ (11.8 ± 7.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

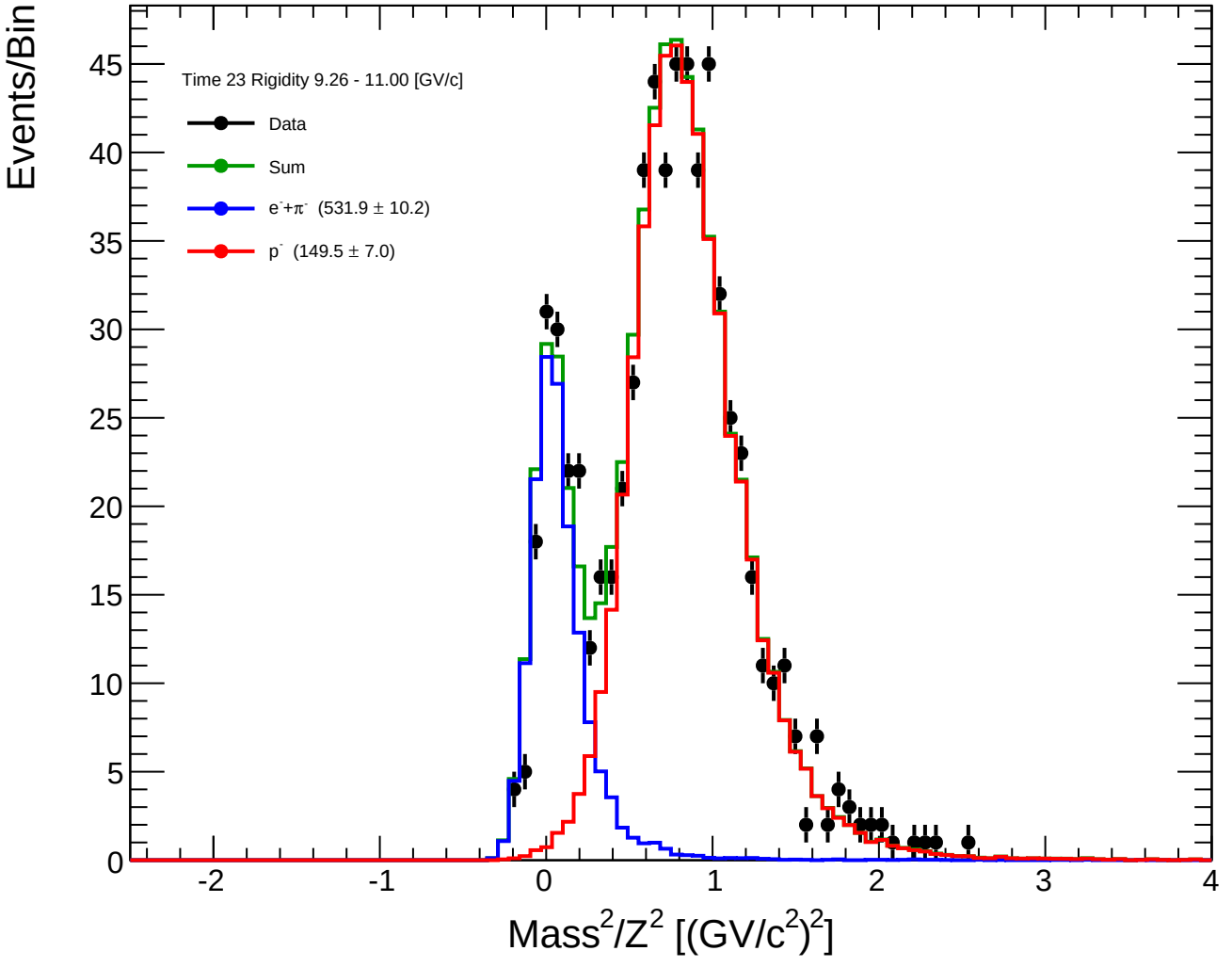

Time 23 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (290.7 ± 9.1)
p⁻ (1.0 ± 10.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

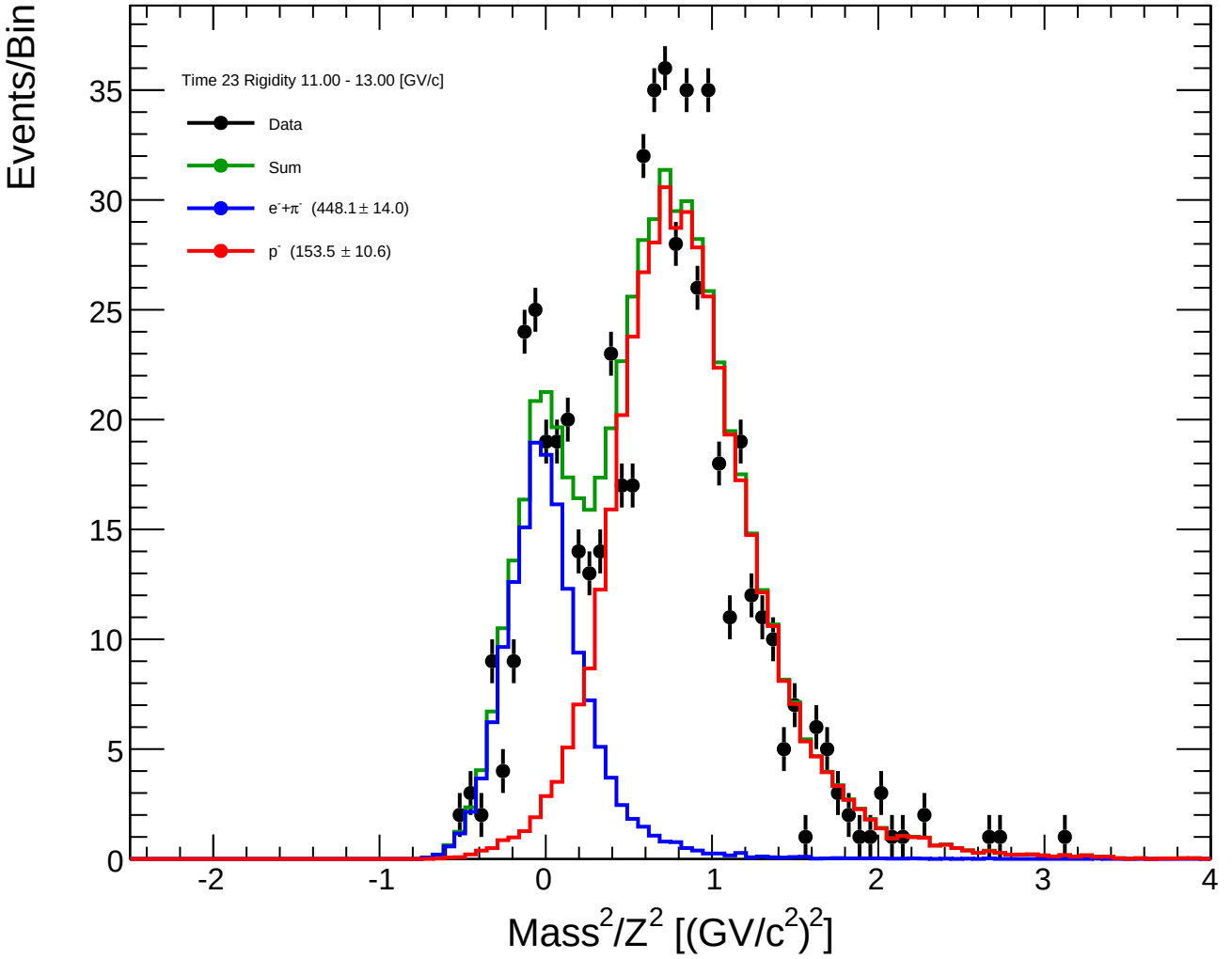

Time 23 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (305.4 ± 8.1)
p⁻ (13.6 ± 8.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

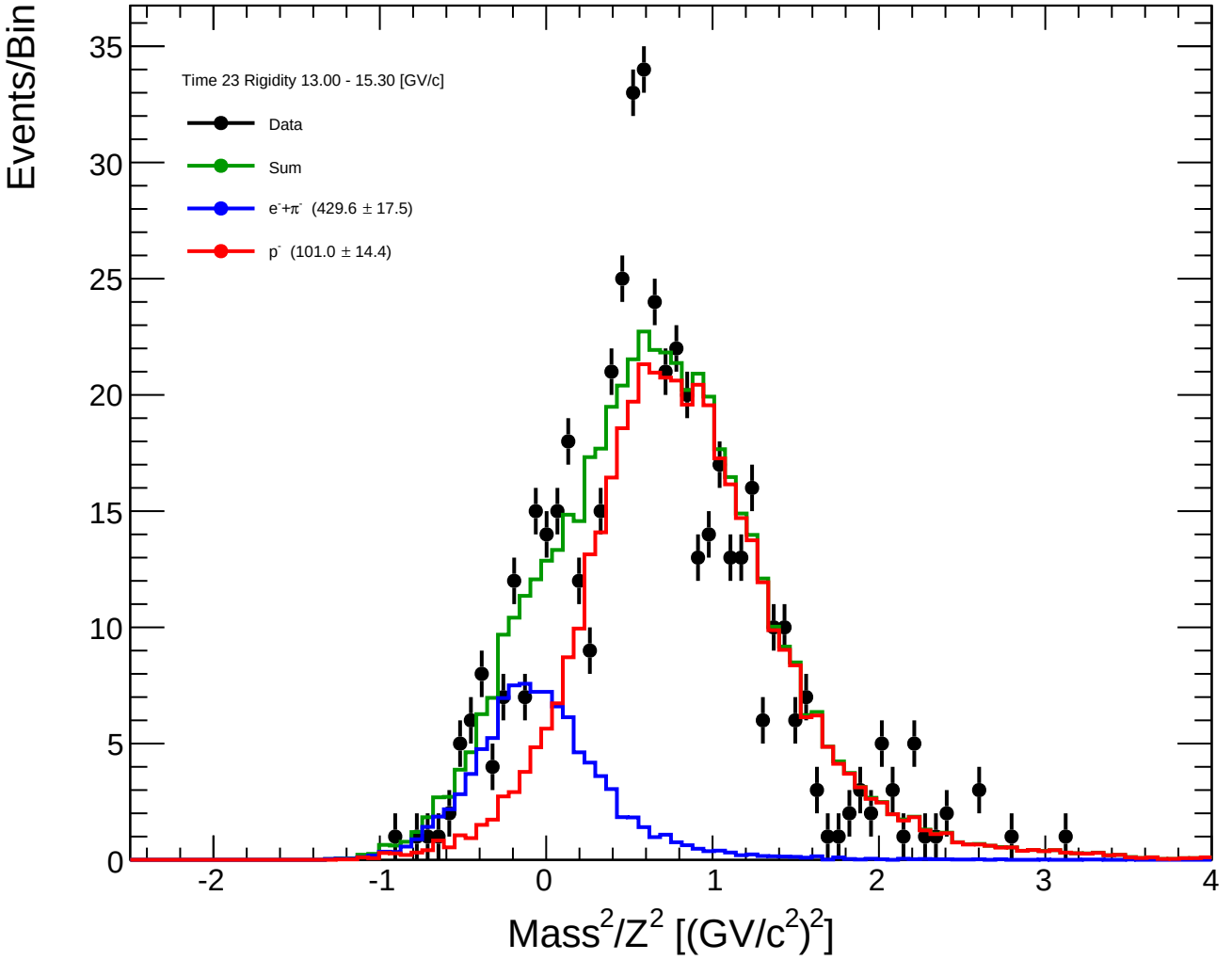

Time 23 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (303.8 ± 8.8)
p⁻ (4.9 ± 7.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

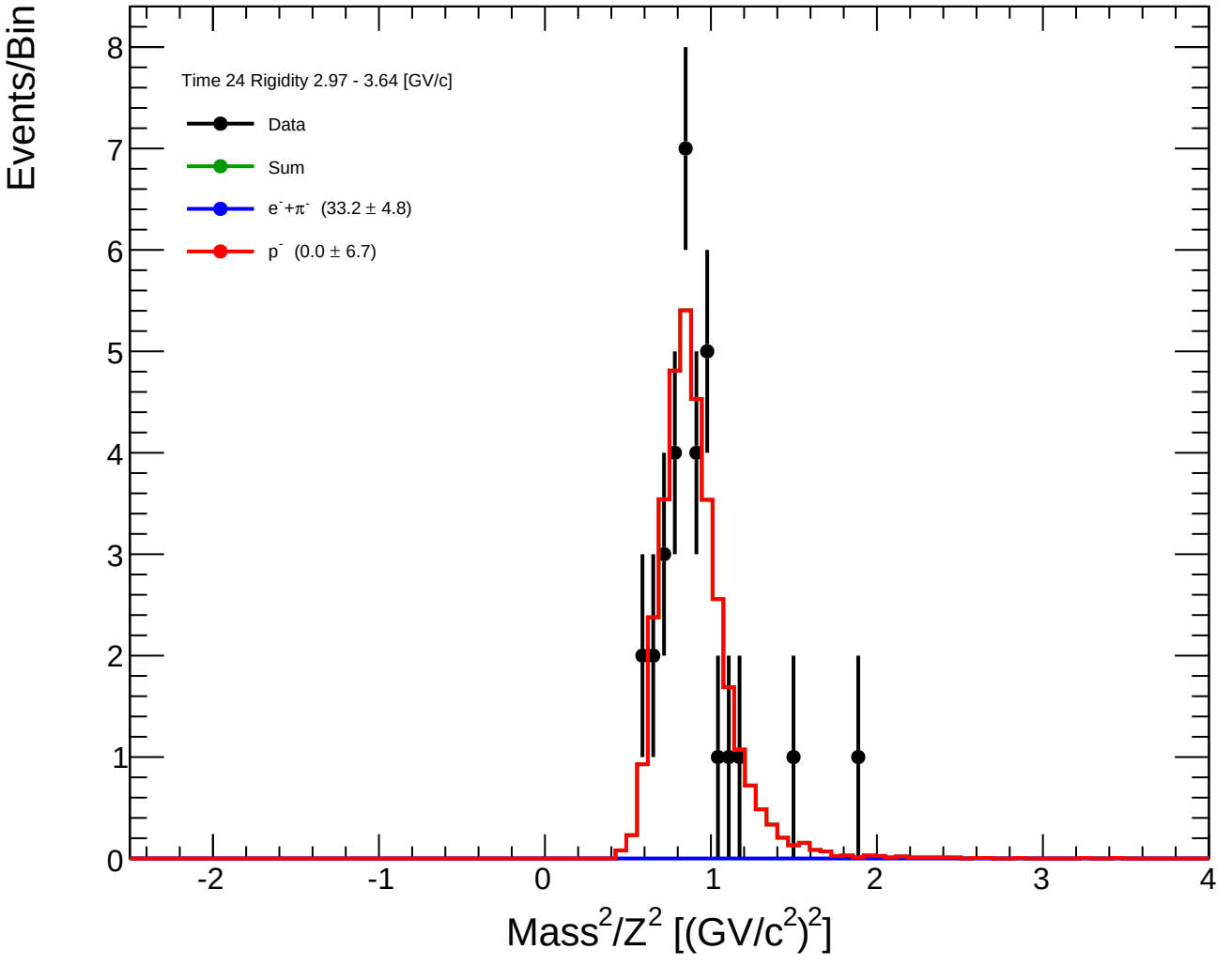

Time 23 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (312.3 ± 7.1)
p⁻ (25.8 ± 4.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

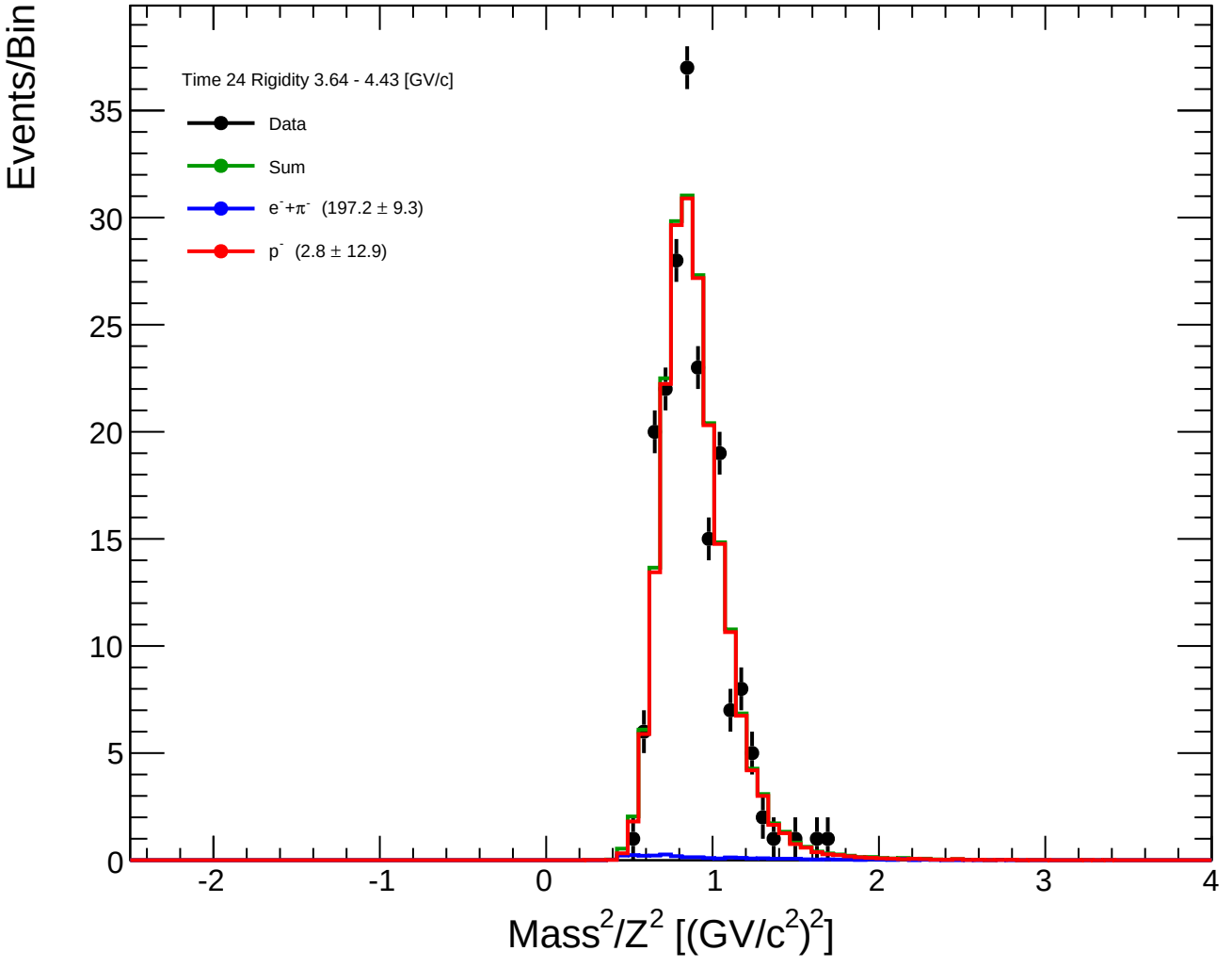

Time 23 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (278.0 ± 8.7)
p⁻ (49.9 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

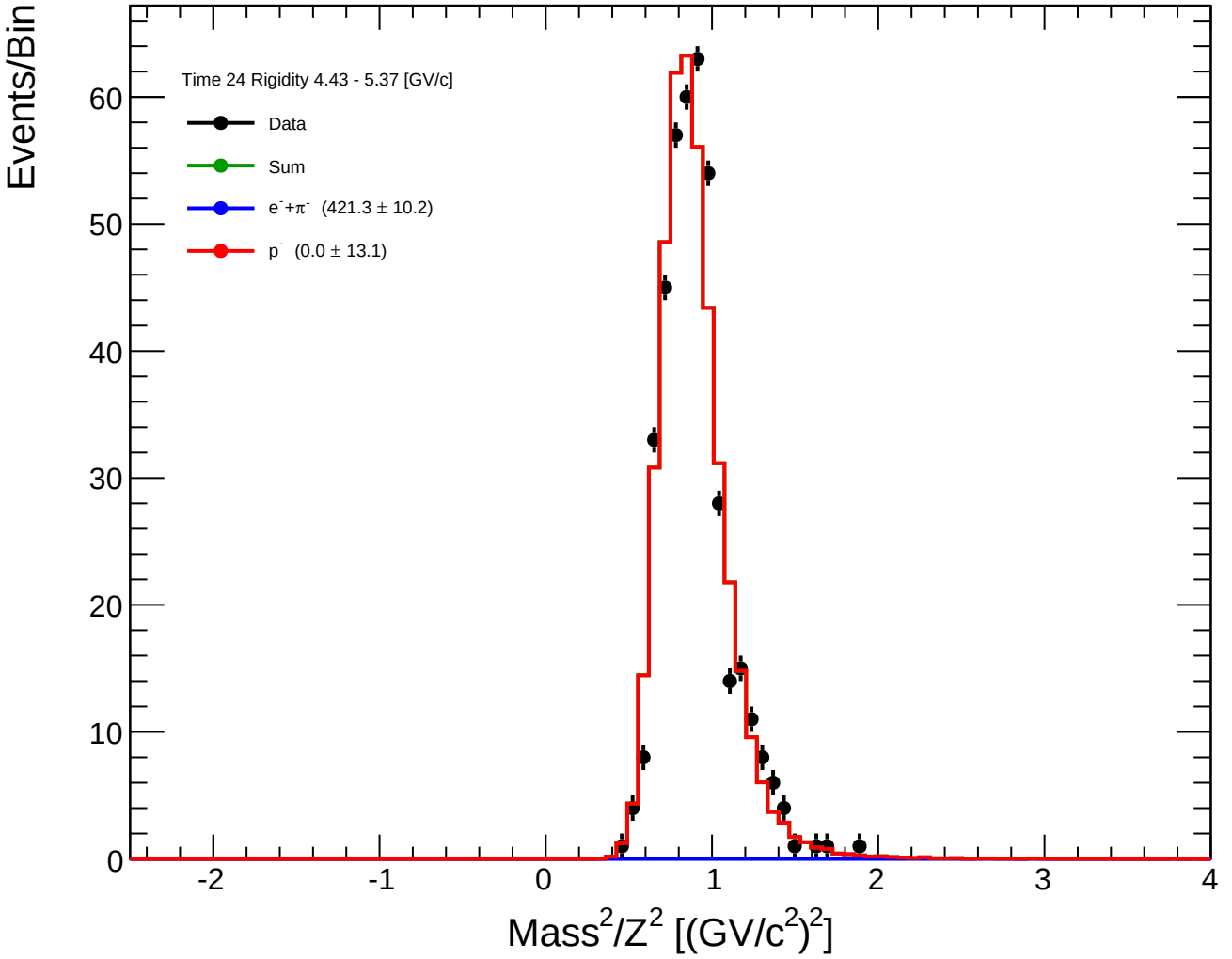

Time 23 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (531.9 ± 10.2)
p⁻ (149.5 ± 7.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

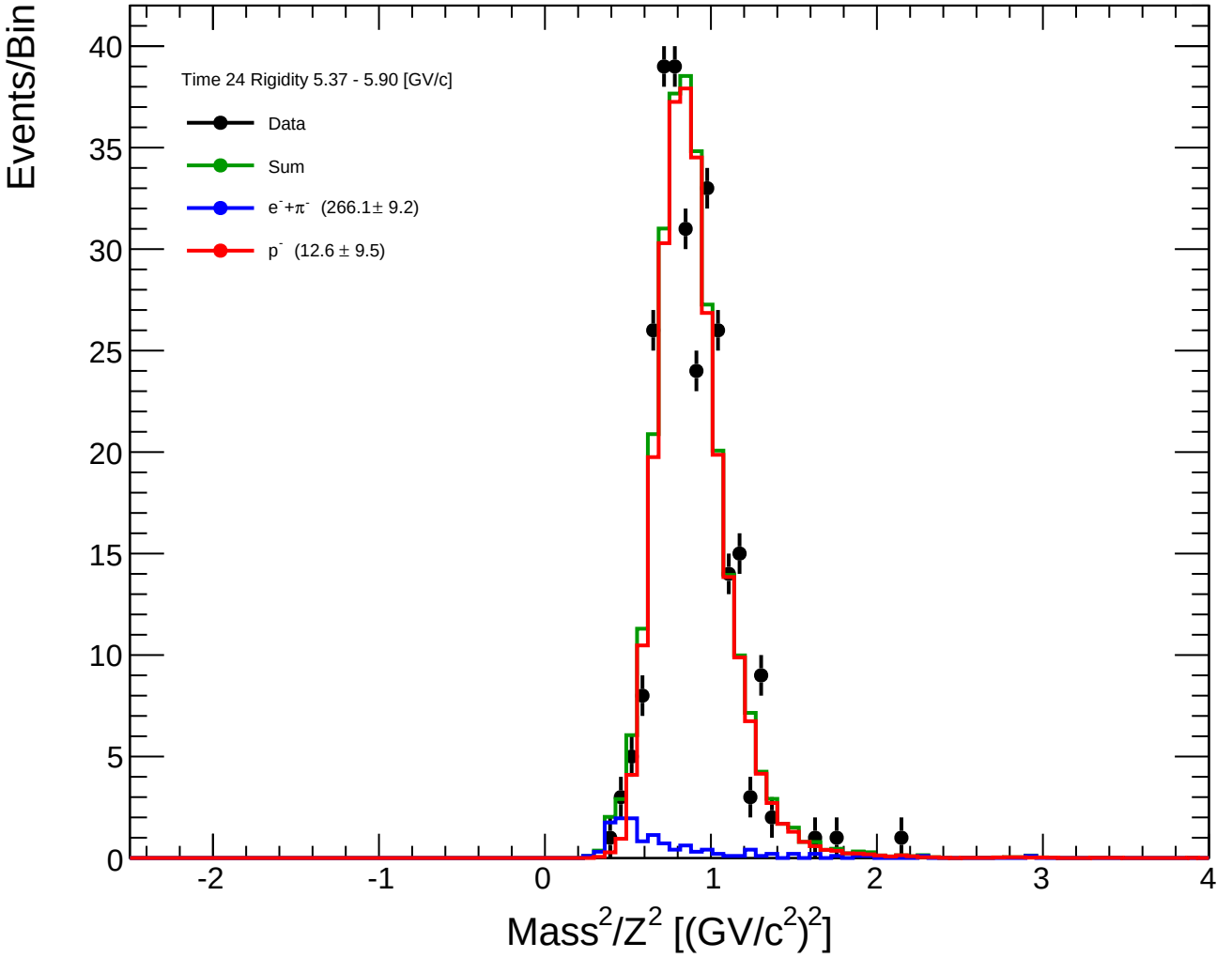

Time 23 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (448.1 ± 14.0)
p⁻ (153.5 ± 10.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

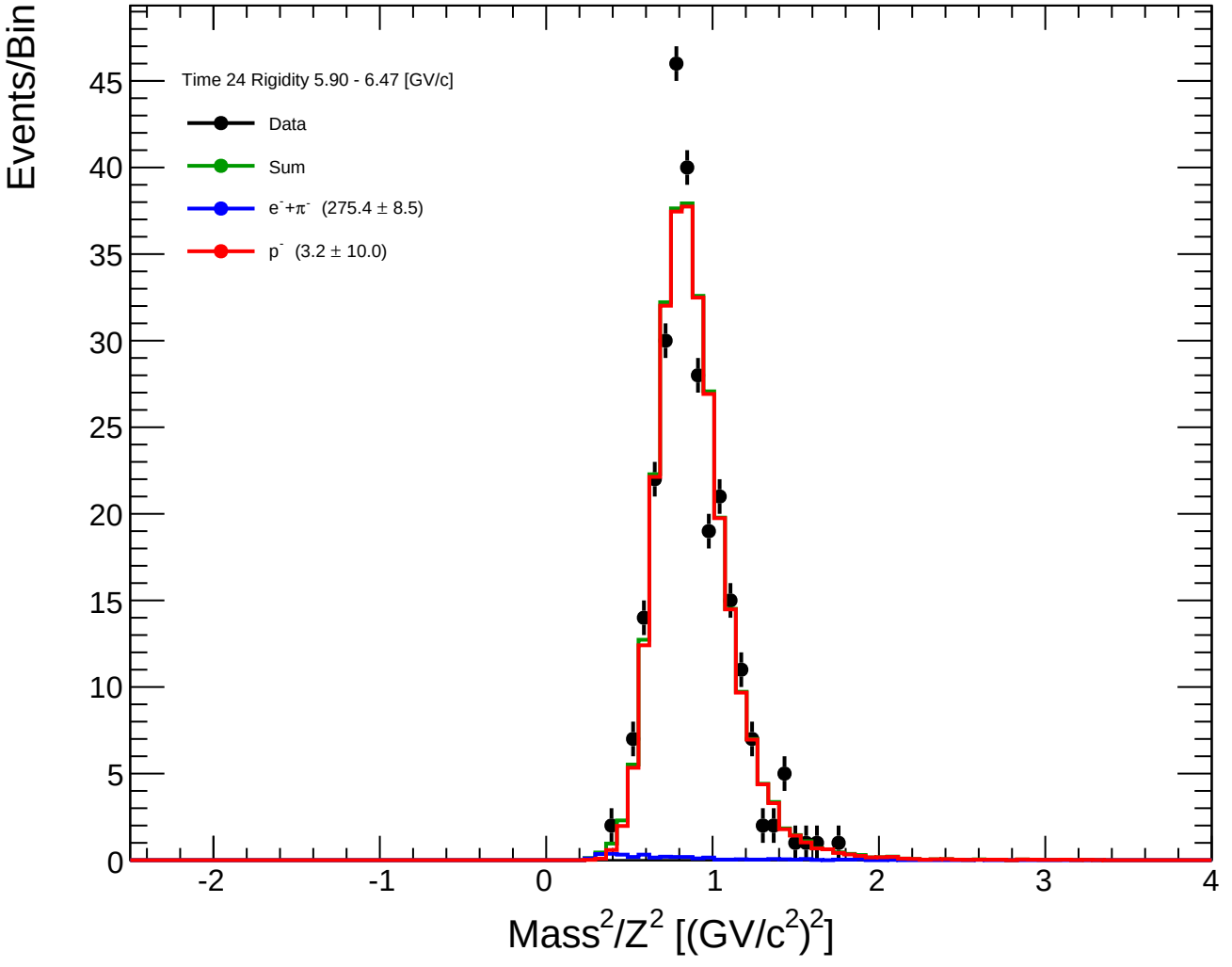

Time 23 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (429.6 ± 17.5)
p⁻ (101.0 ± 14.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

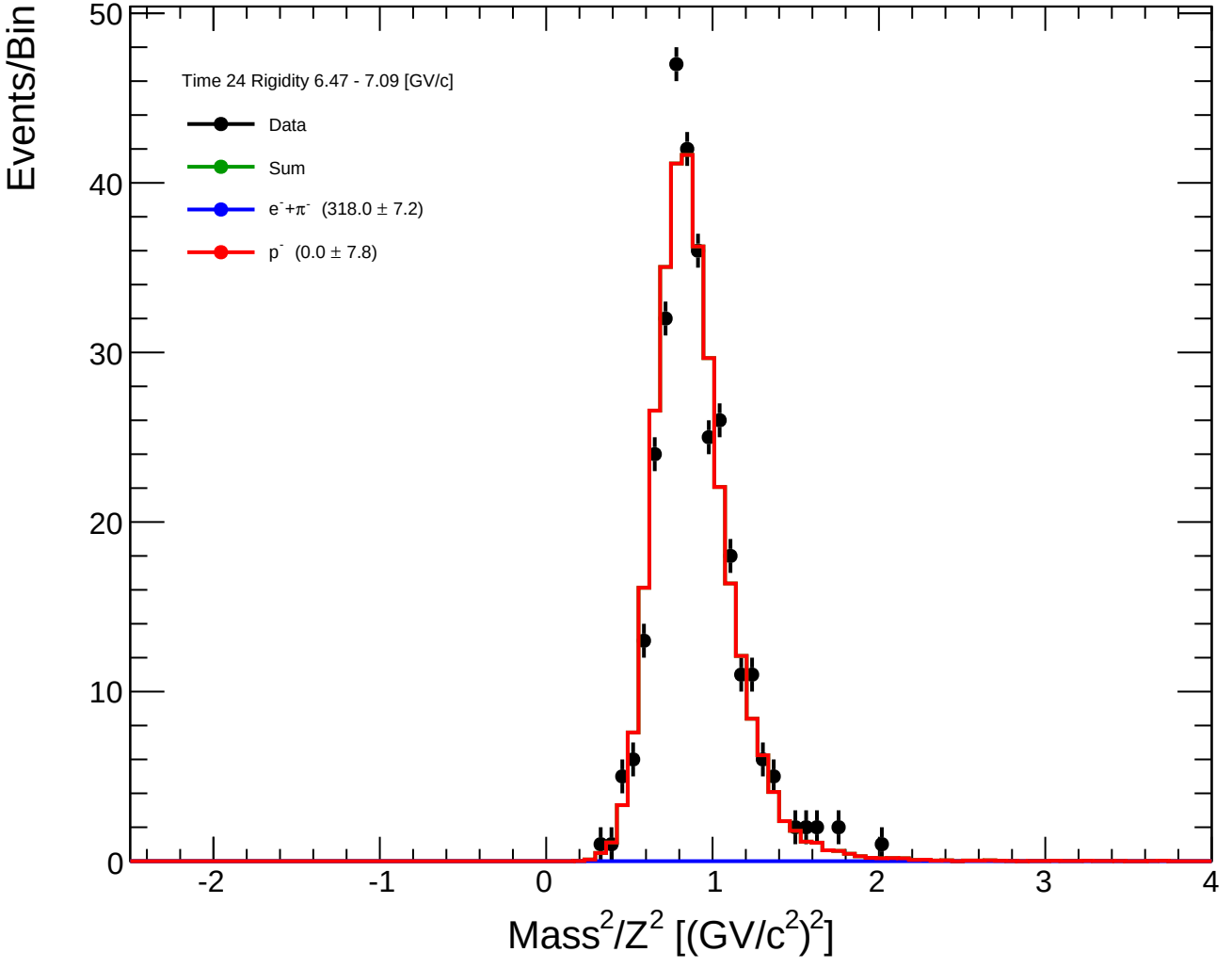

Time 24 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (33.2 ± 4.8)
p⁻ (0.0 ± 6.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
1
2
3
4
5
6
7
8
-2
-1
0
1
2
3
4

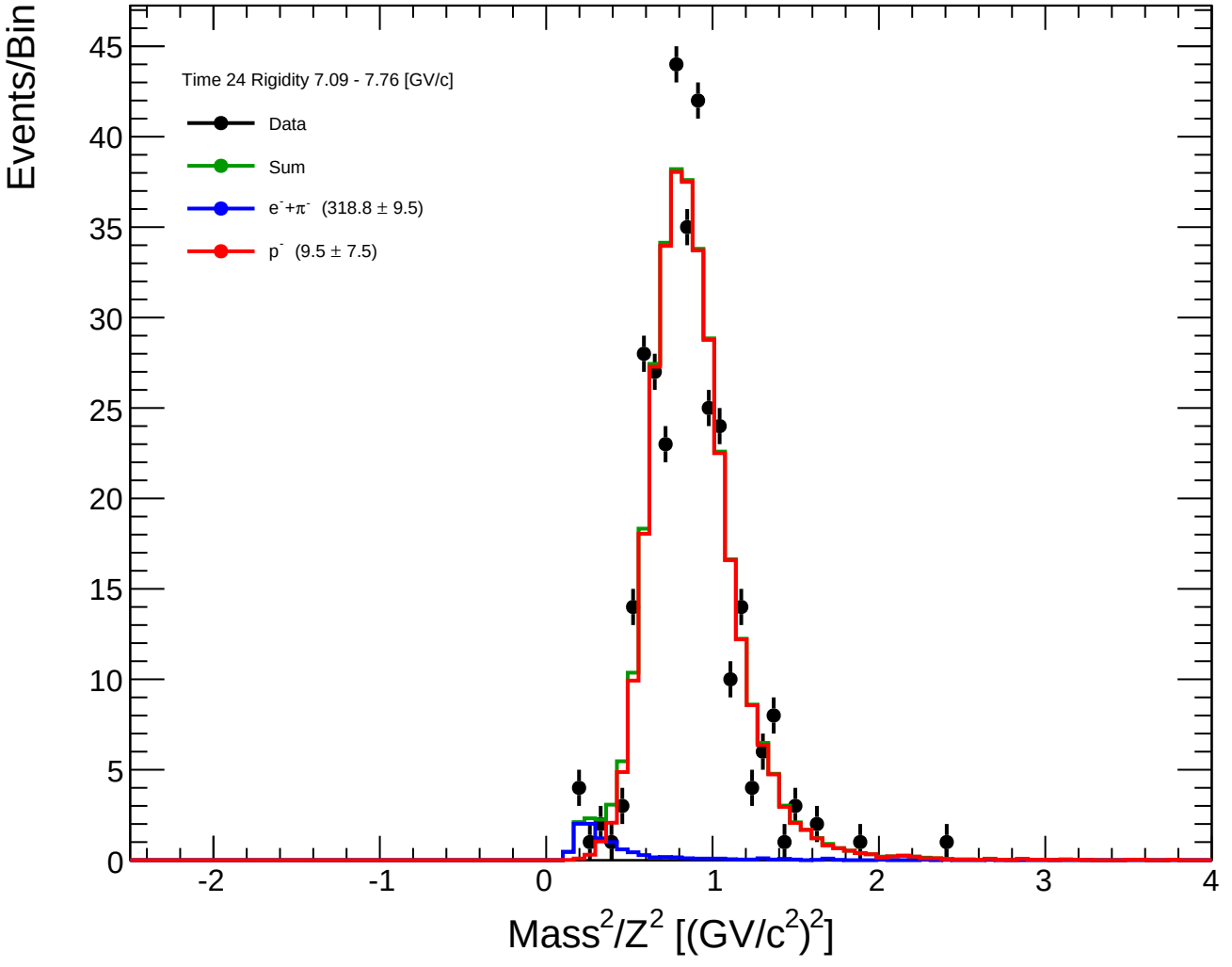

Time 24 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (197.2 ± 9.3)
p⁻ (2.8 ± 12.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

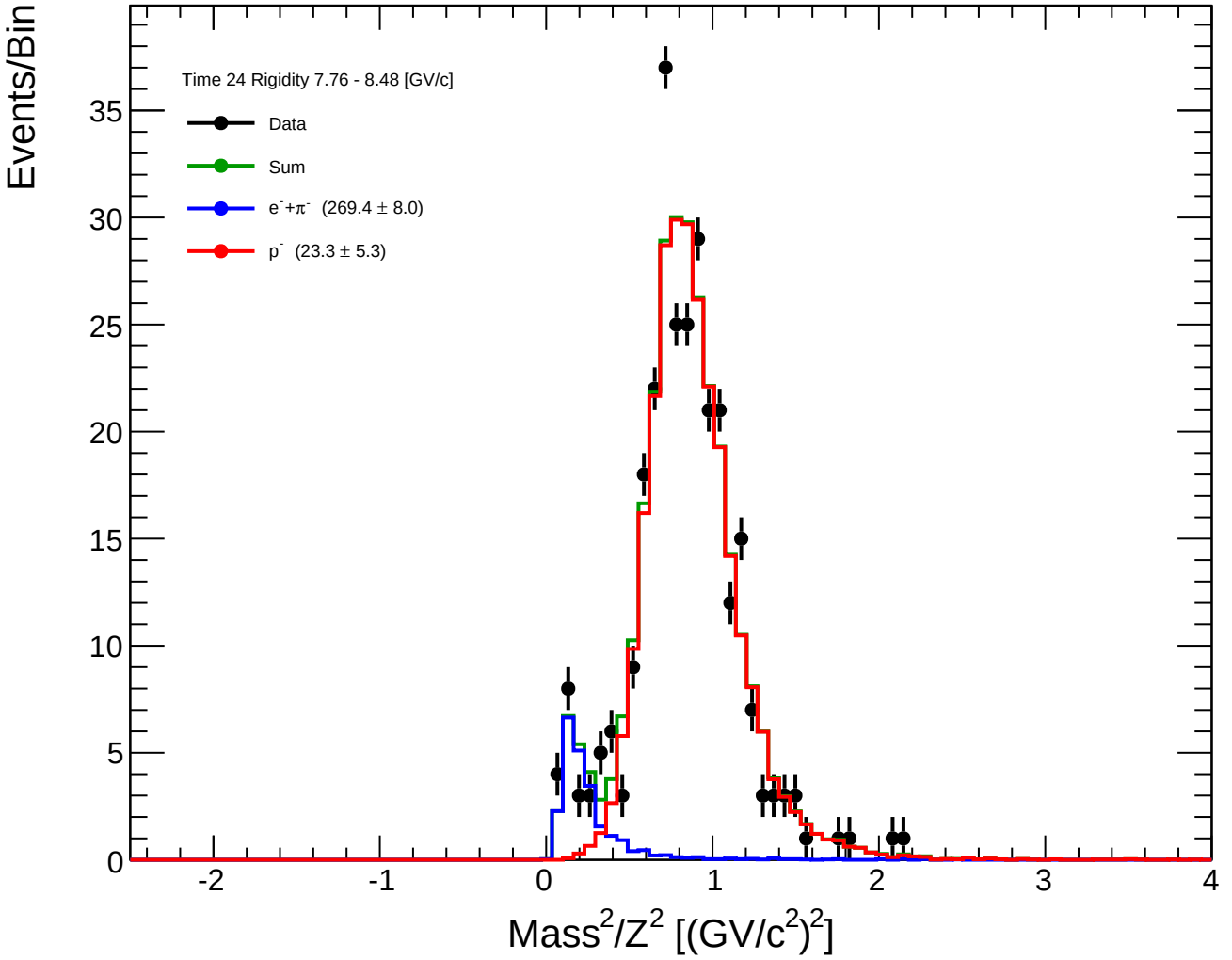

Time 24 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (421.3 ± 10.2)
p⁻ (0.0 ± 13.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

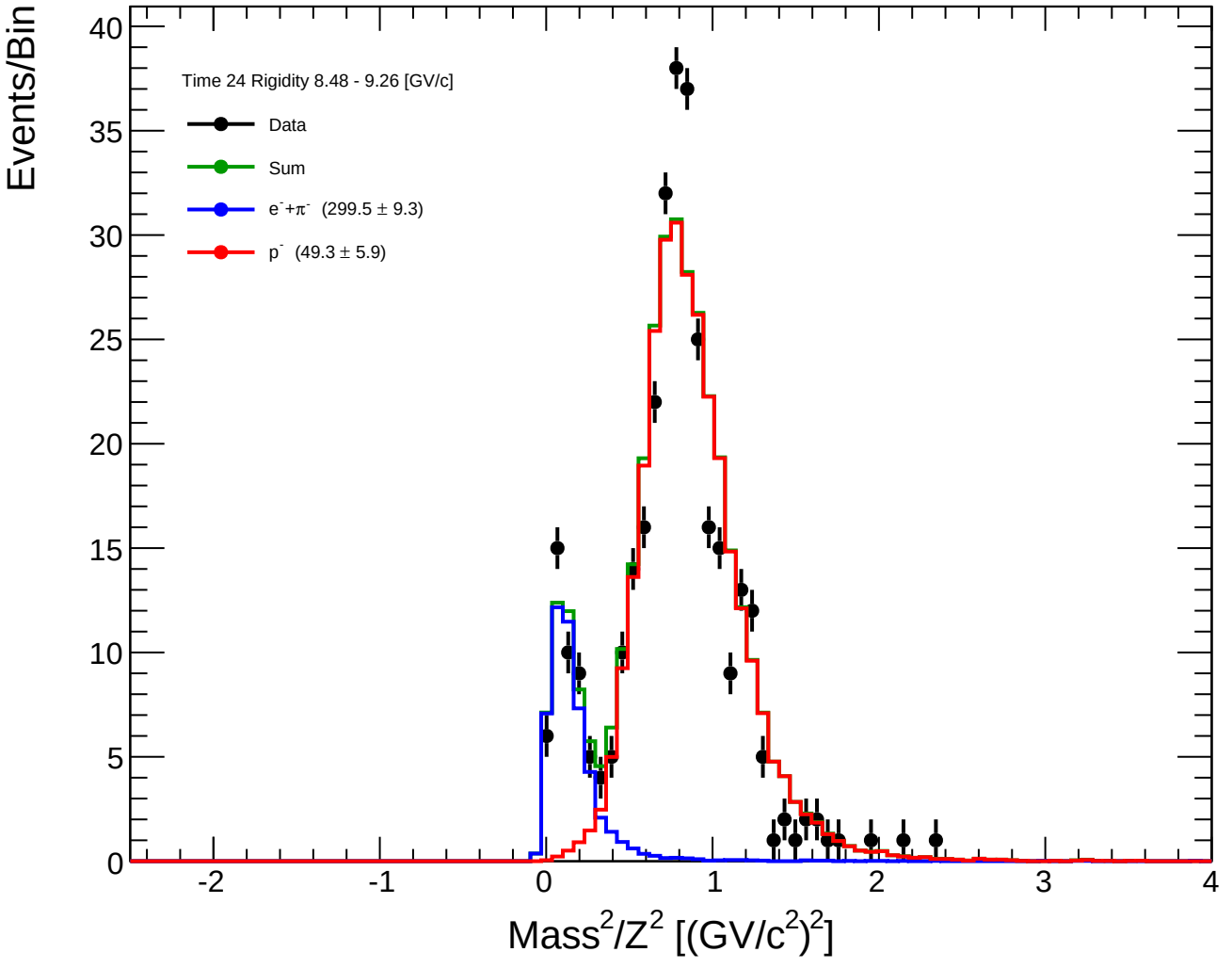

Time 24 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (266.1± 9.2)
p⁻ (12.6 ± 9.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

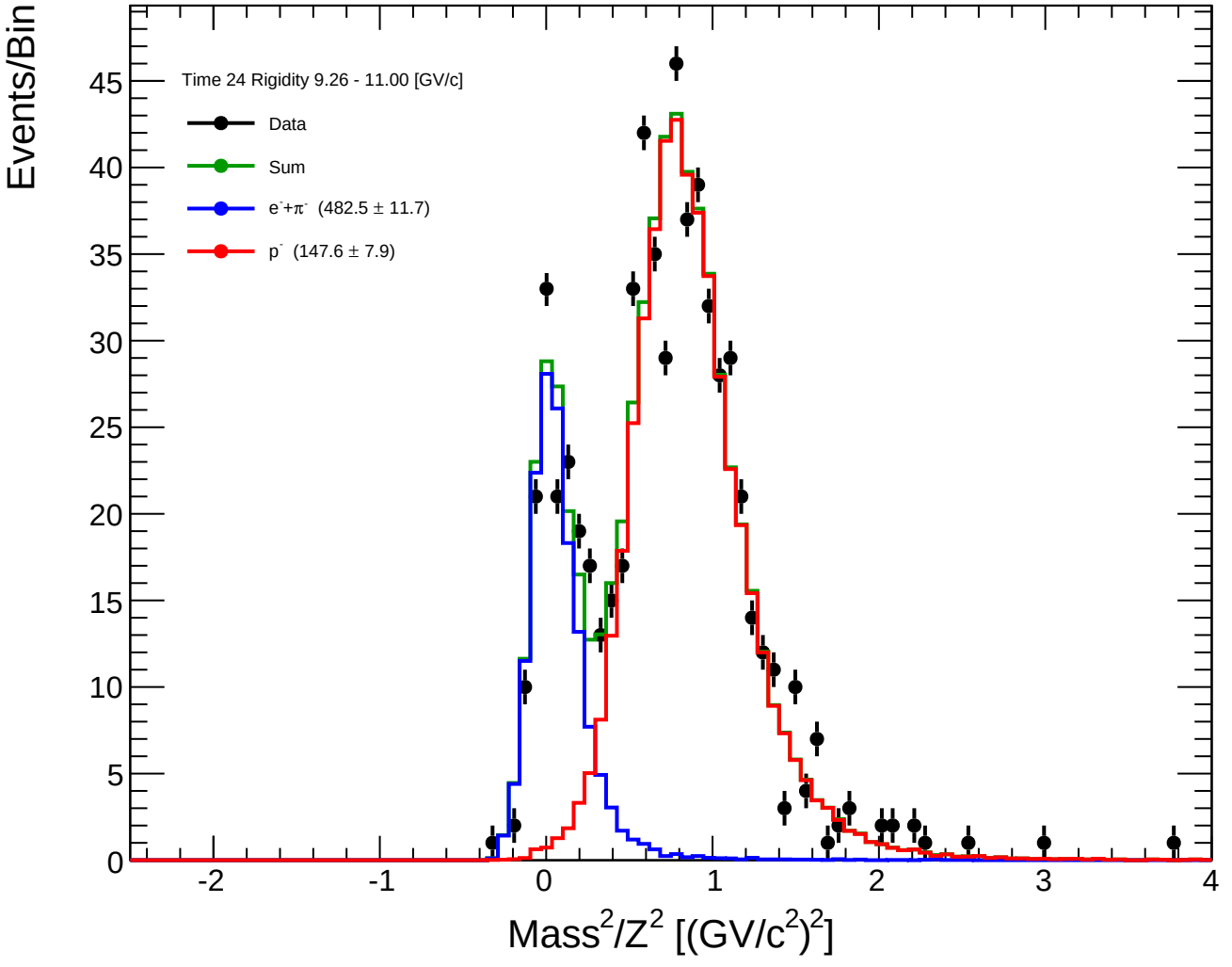

Time 24 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (275.4 ± 8.5)
p⁻ (3.2 ± 10.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

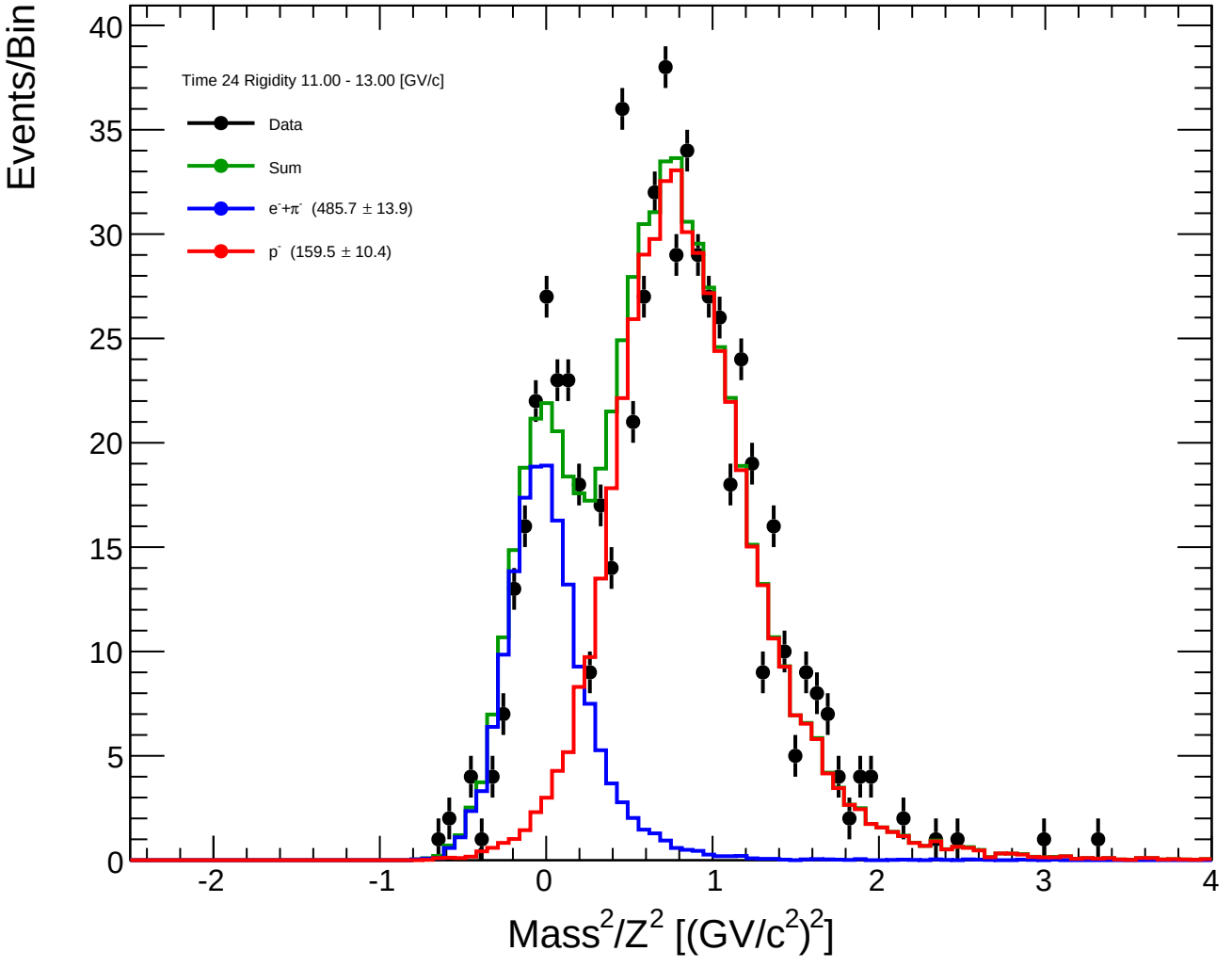

Time 24 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (318.0 ± 7.2)
p⁻ (0.0 ± 7.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

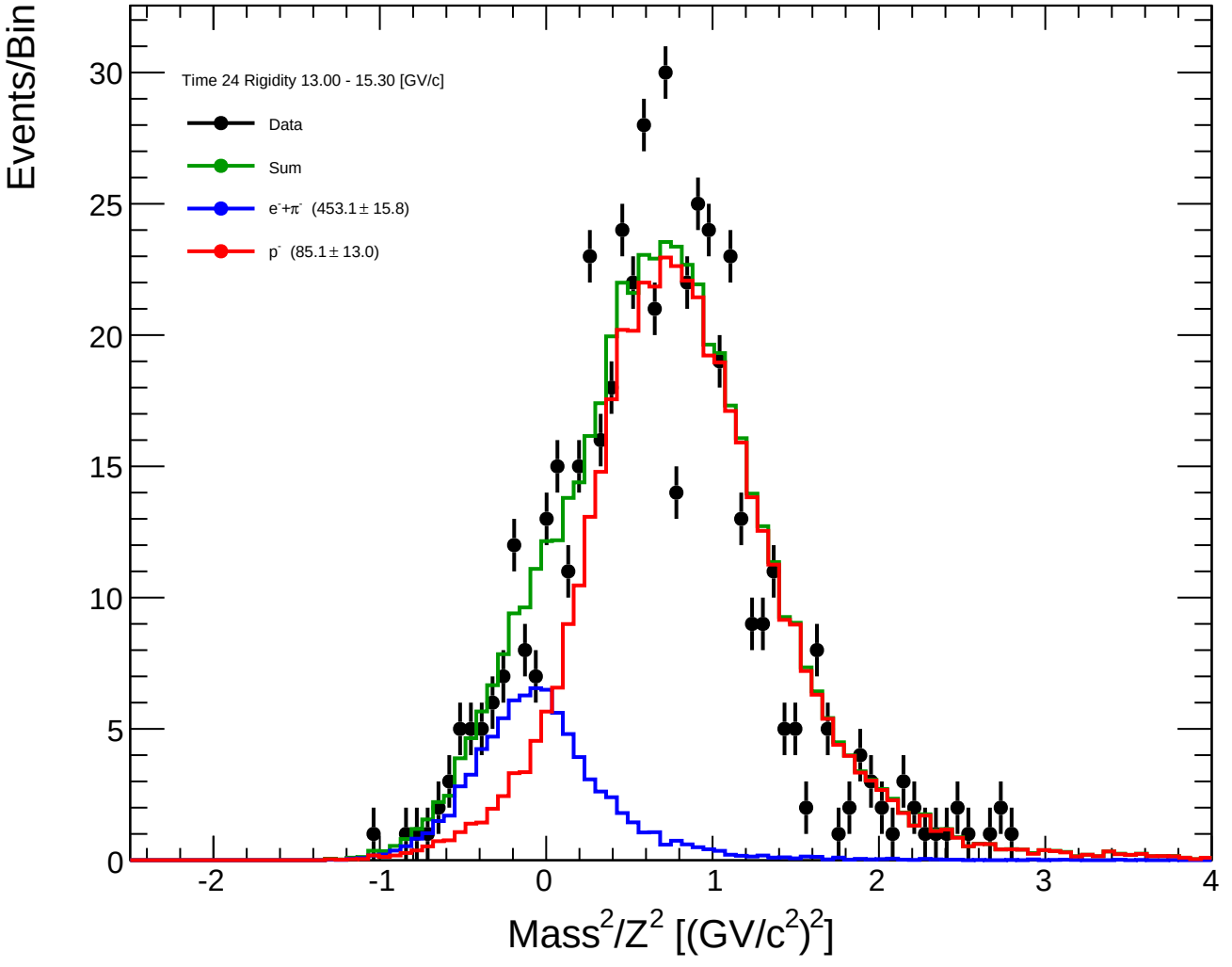

Time 24 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (318.8 ± 9.5)
p⁻ (9.5 ± 7.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

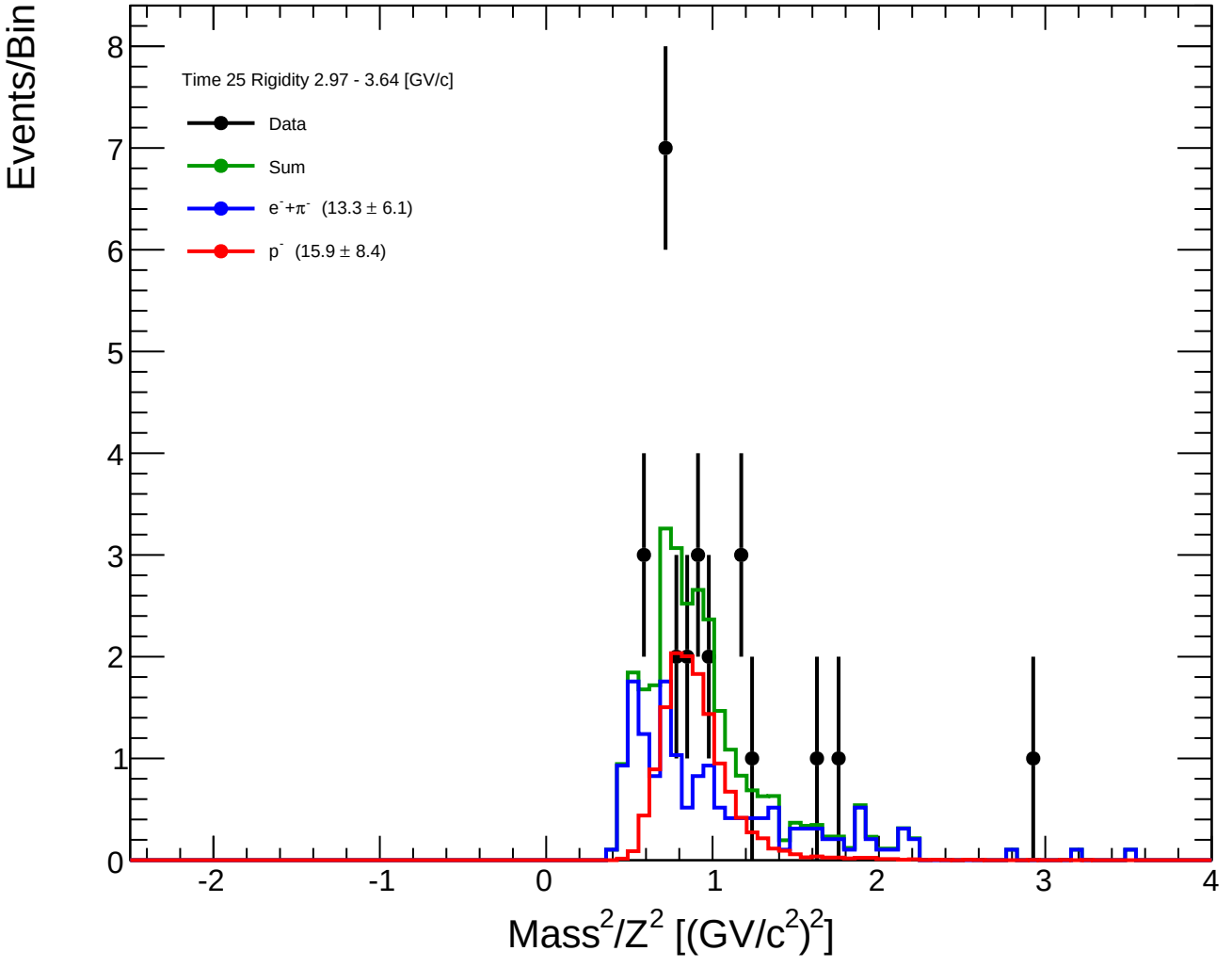

Time 24 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (269.4 ± 8.0)
p⁻ (23.3 ± 5.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

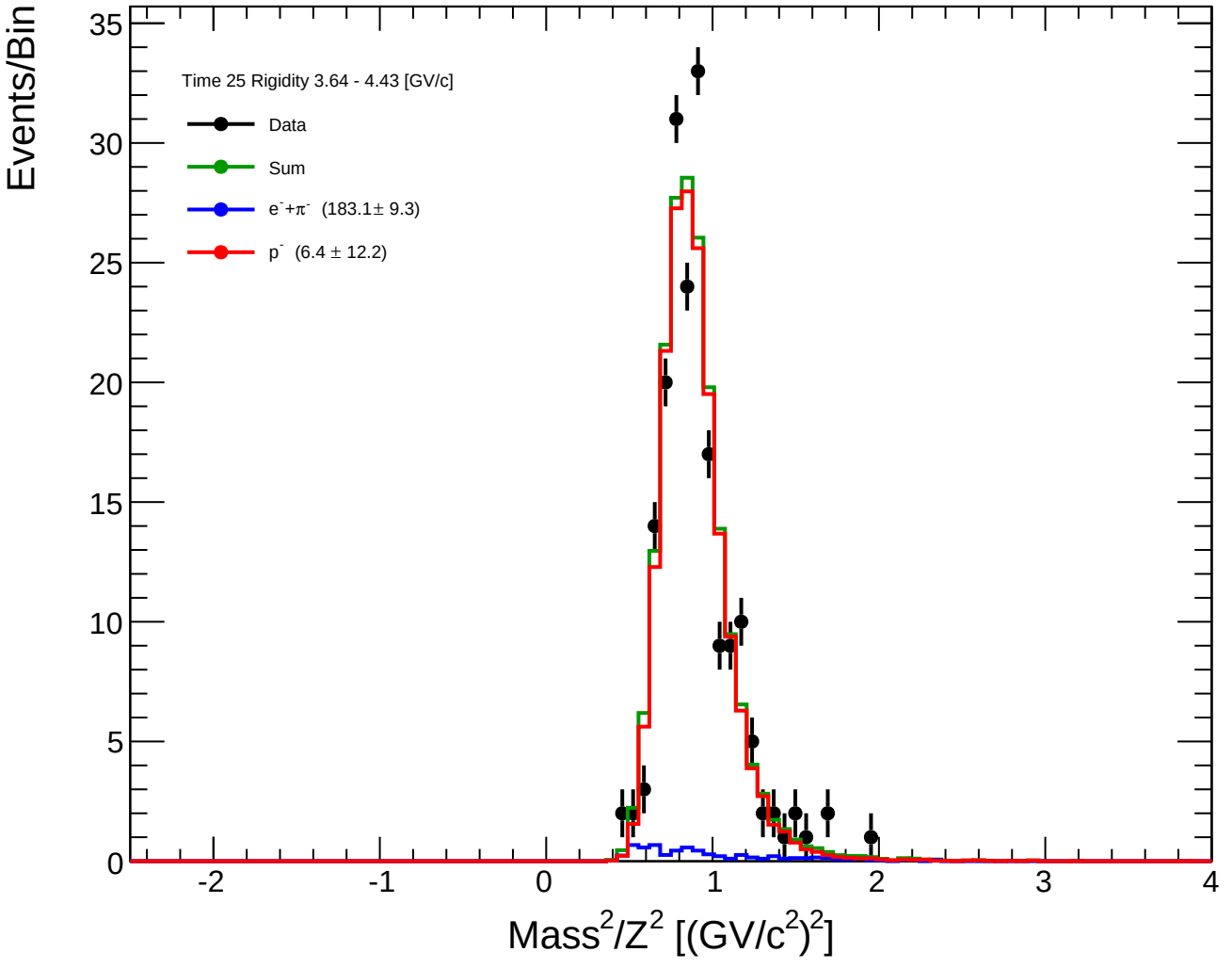

Time 24 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (299.5 ± 9.3)
p⁻ (49.3 ± 5.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

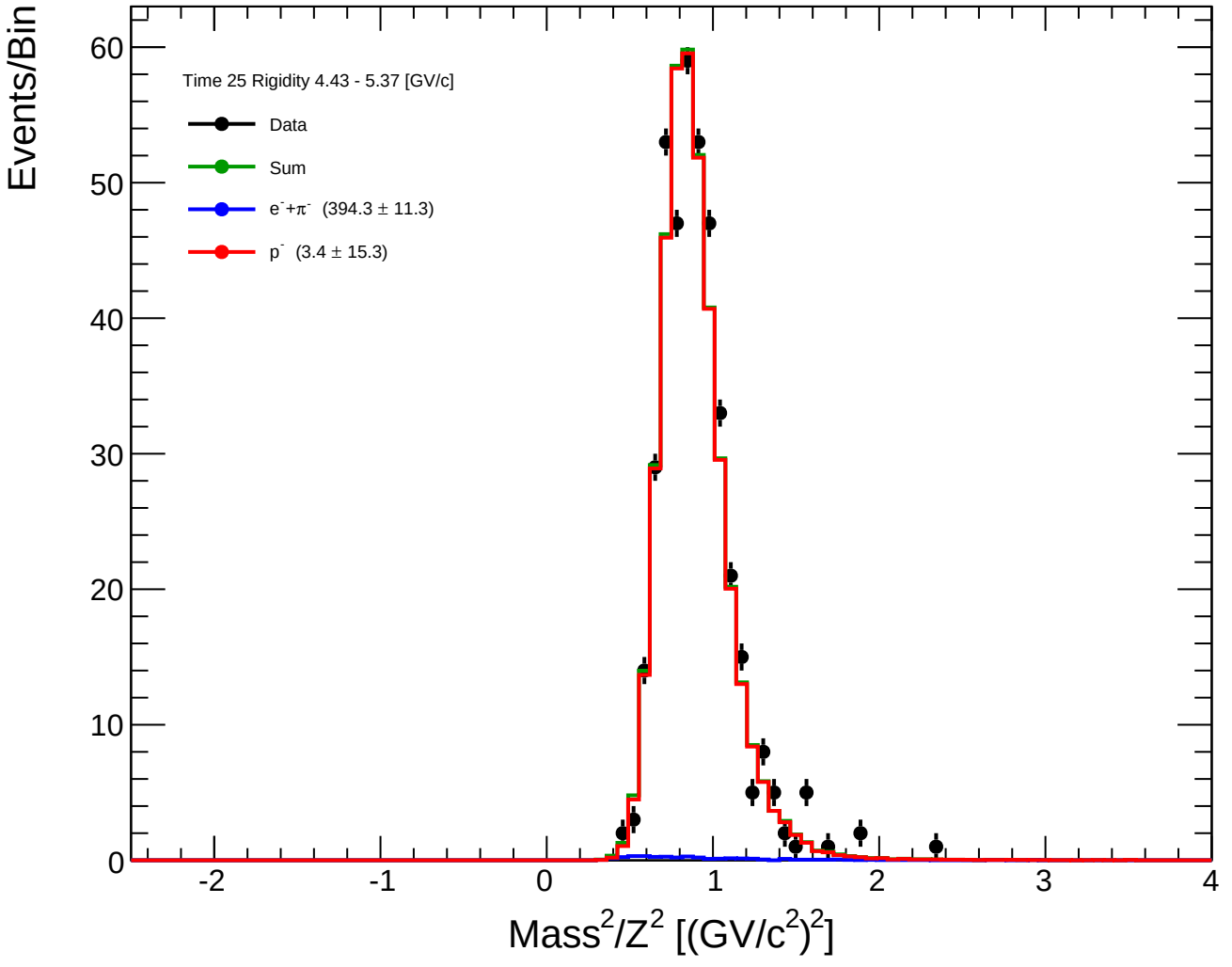

Time 24 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (482.5 ± 11.7)
p⁻ (147.6 ± 7.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

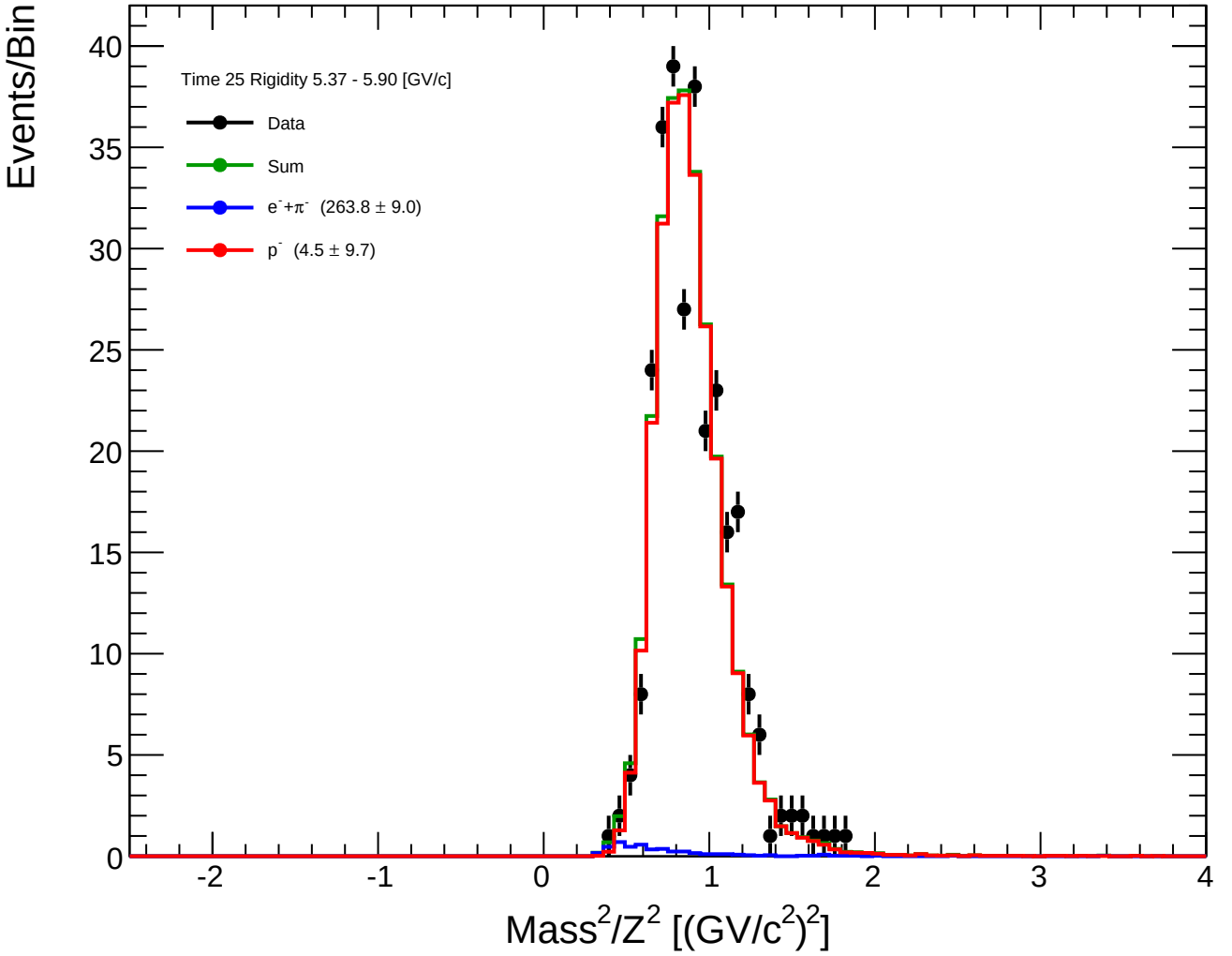

Time 24 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (485.7 ± 13.9)
p⁻ (159.5 ± 10.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

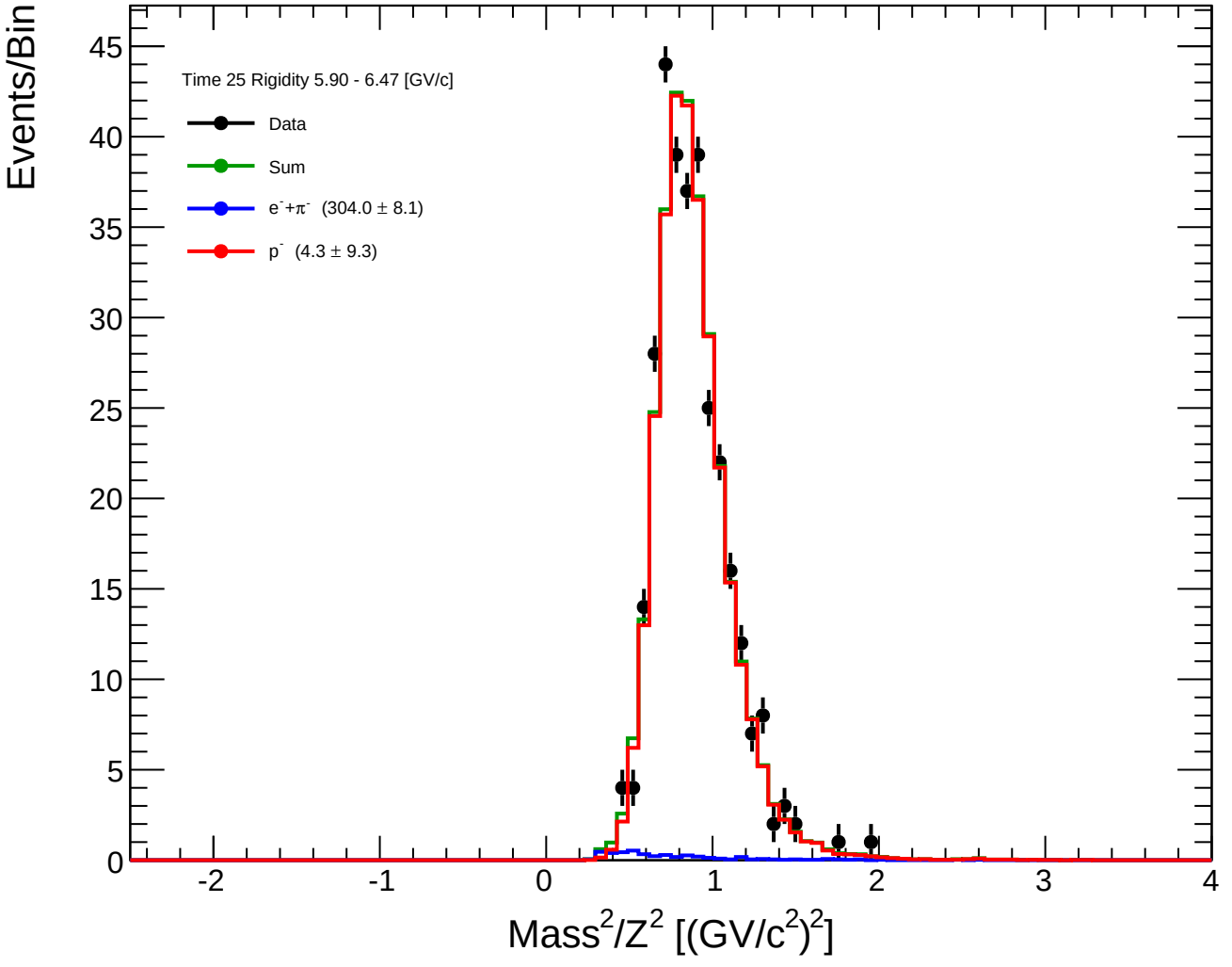

Time 24 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (453.1 ± 15.8)
p⁻ (85.1 ± 13.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

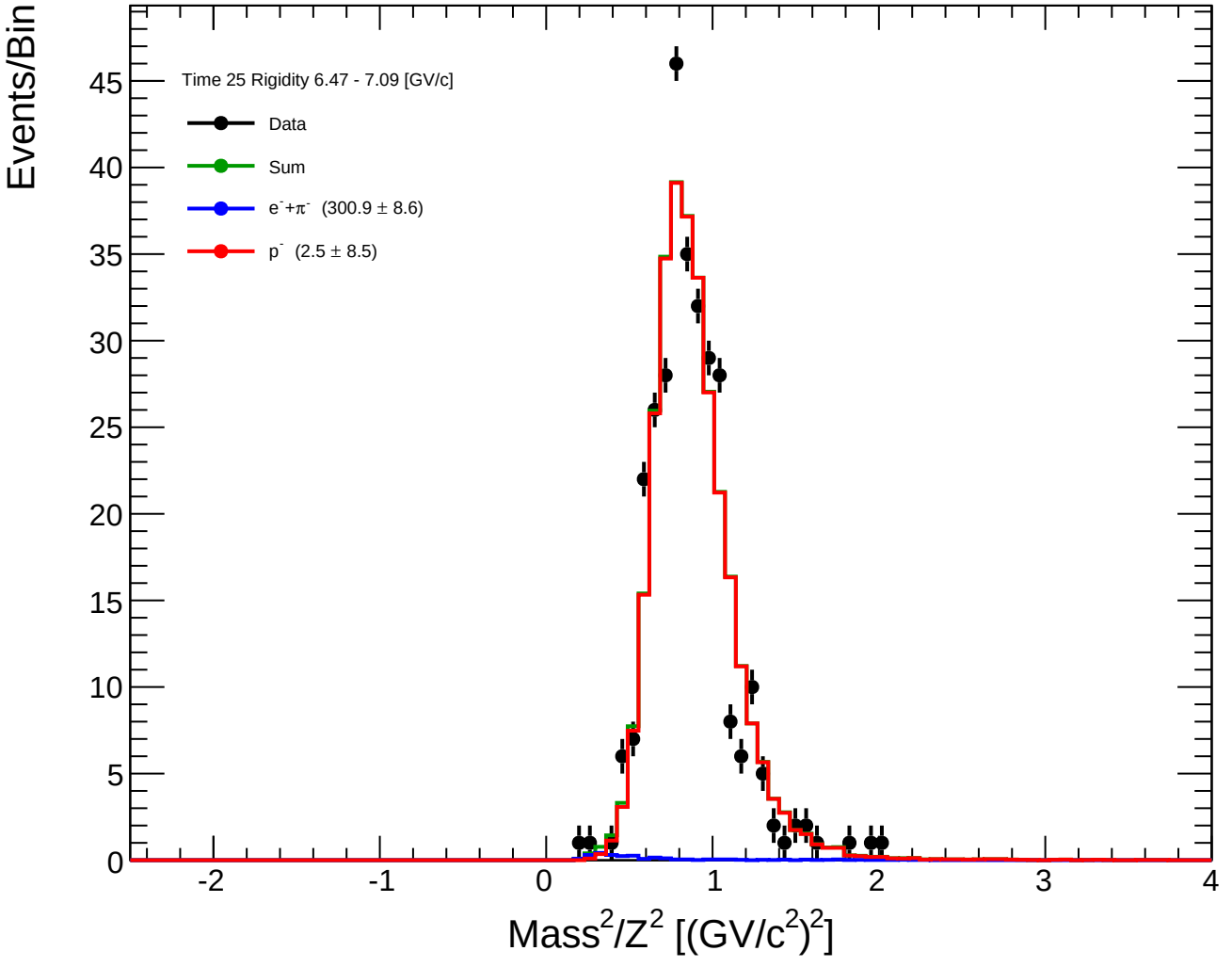

Time 25 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (13.3 ± 6.1)
p⁻ (15.9 ± 8.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
1
2
3
4
5
6
7
8
-2
-1
0
1
2
3
4

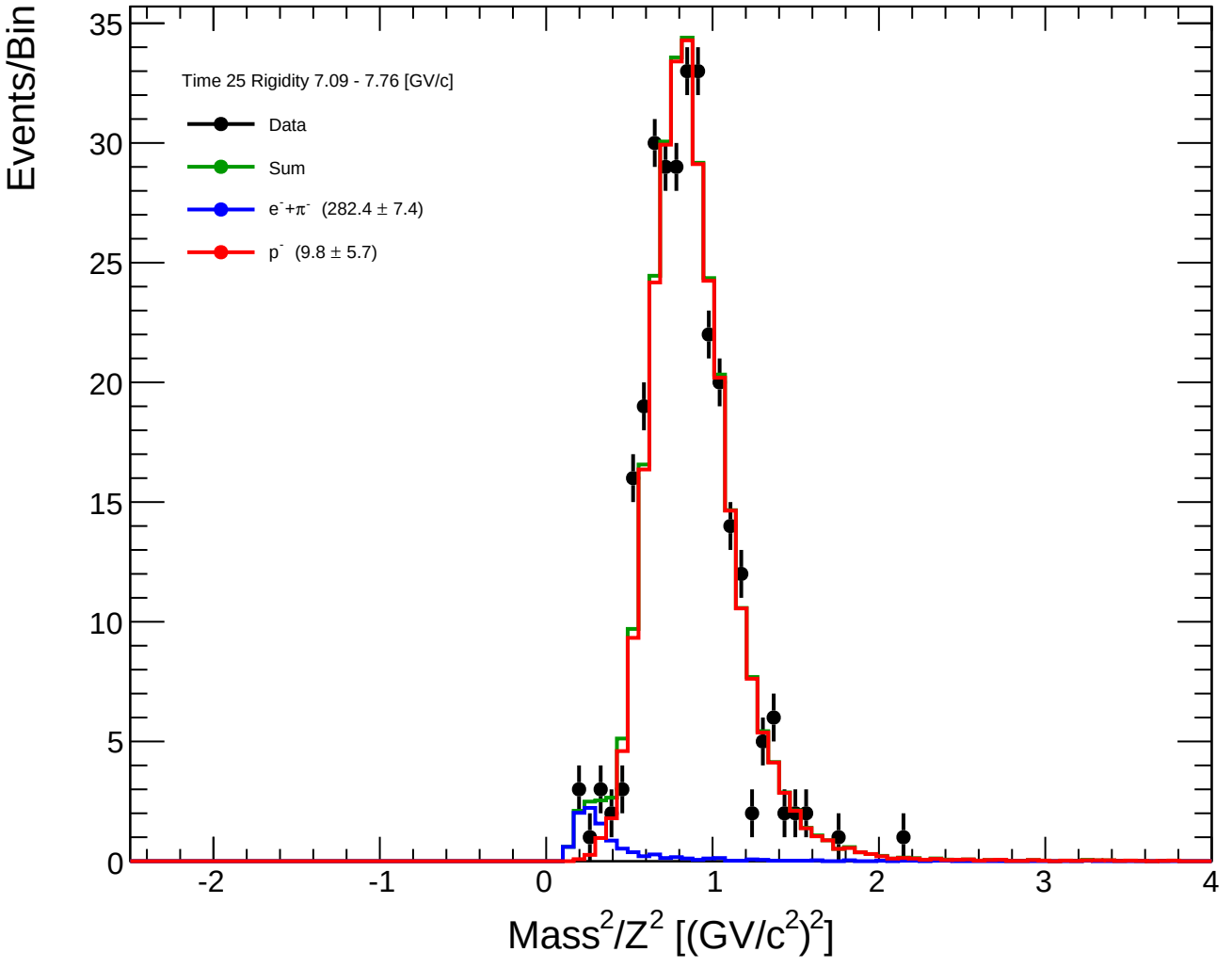

Time 25 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (183.1± 9.3)
p⁻ (6.4 ± 12.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

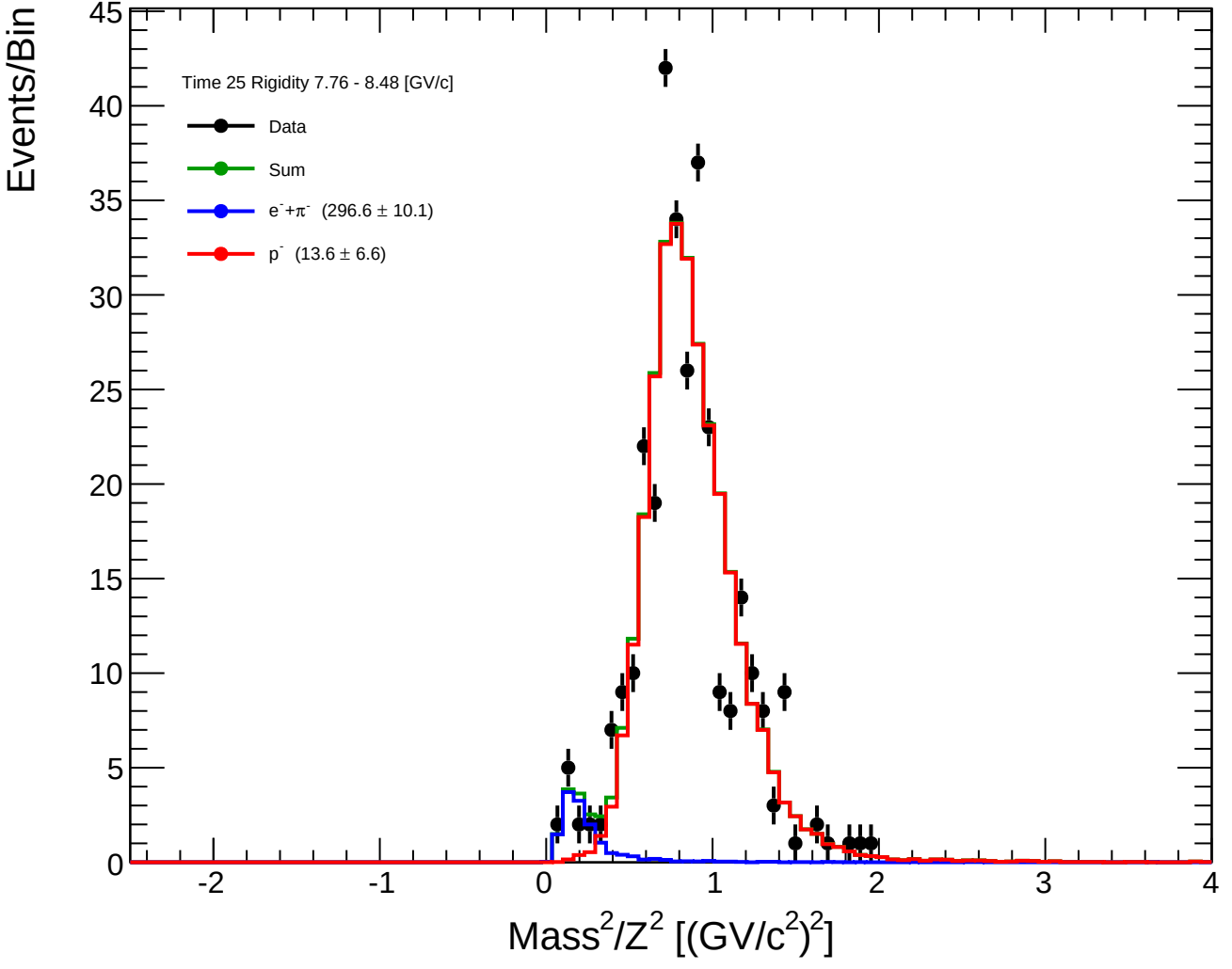

Time 25 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (394.3 ± 11.3)
p⁻ (3.4 ± 15.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

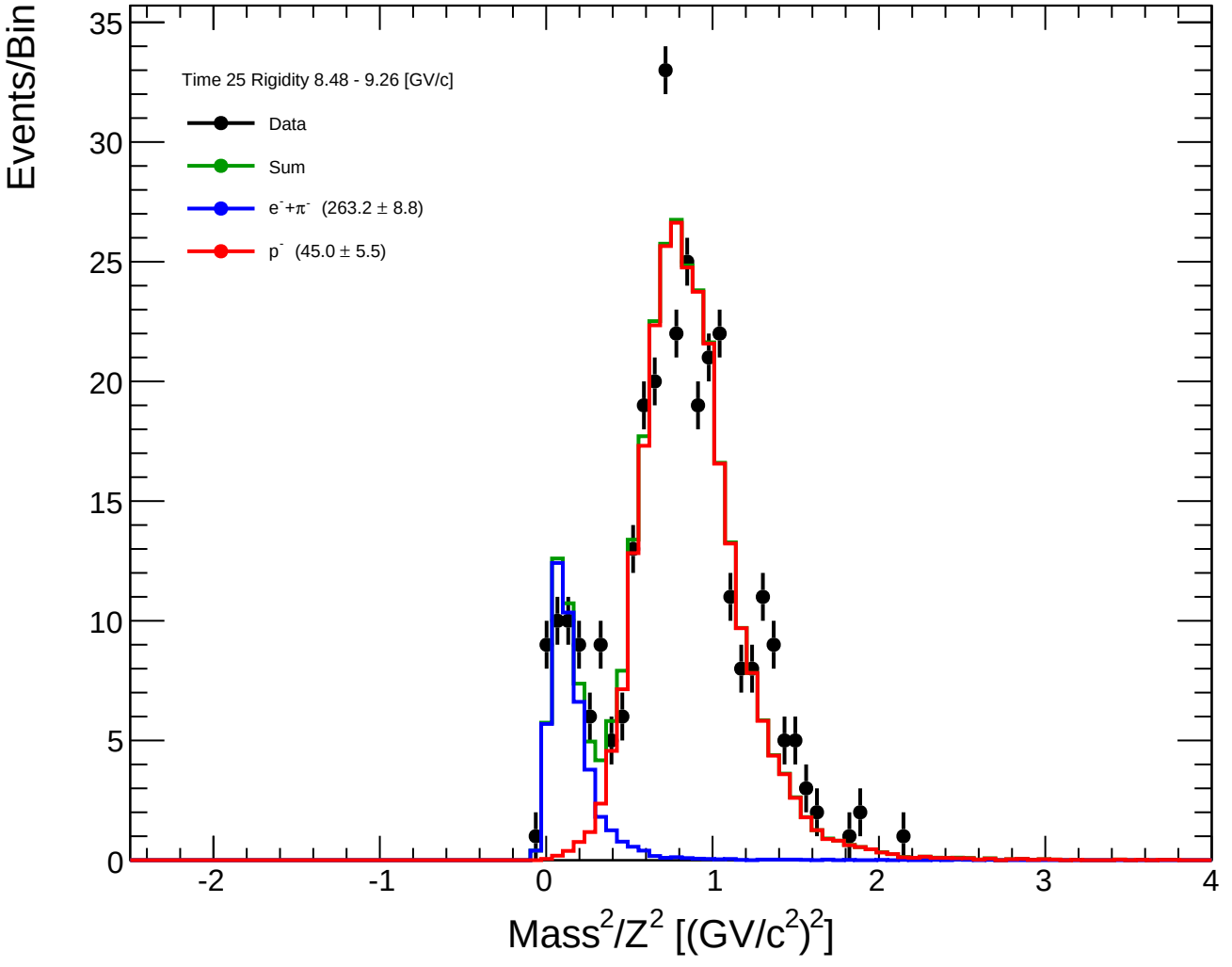

Time 25 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (263.8 ± 9.0)
p⁻ (4.5 ± 9.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

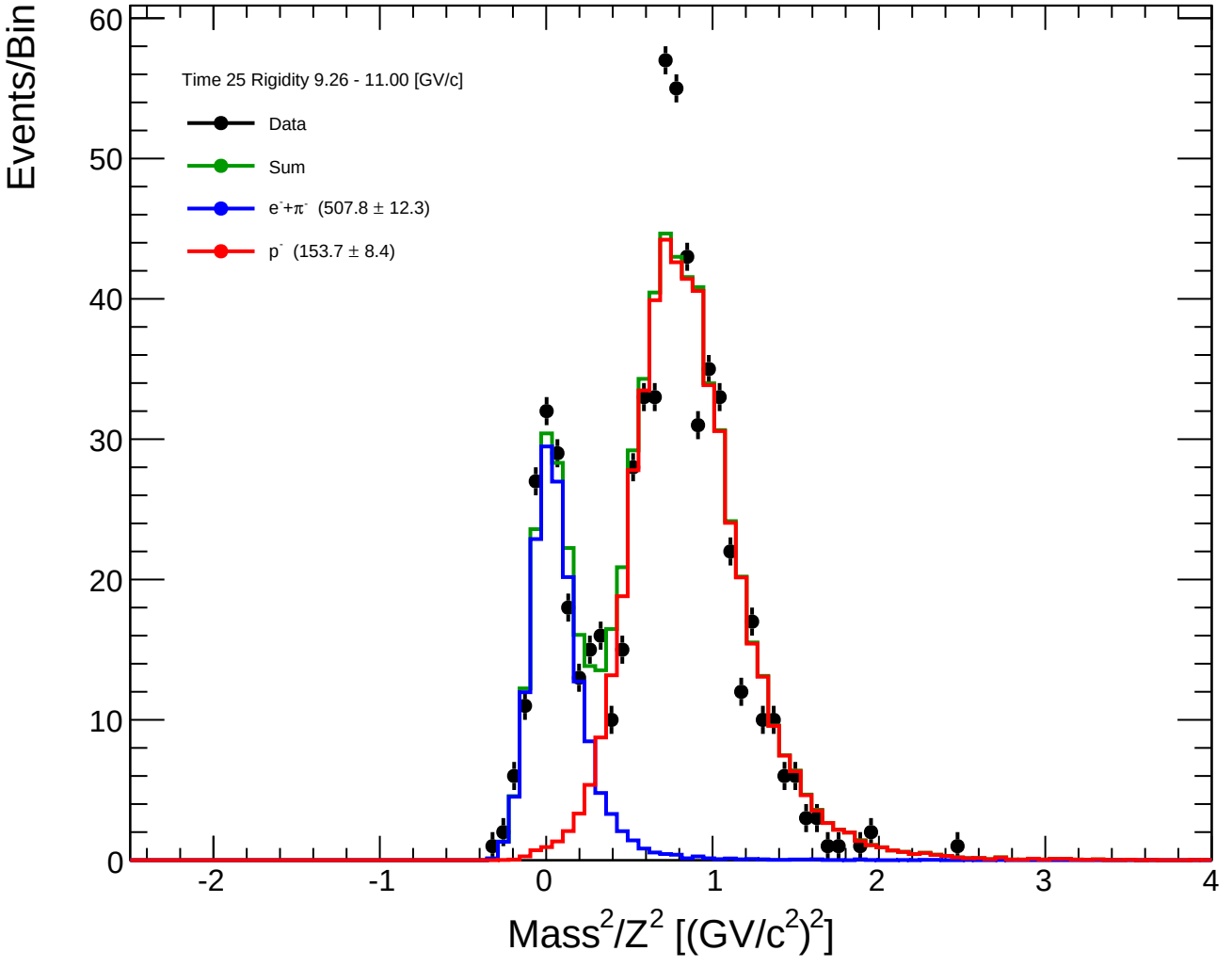

Time 25 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (304.0 ± 8.1)
p⁻ (4.3 ± 9.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

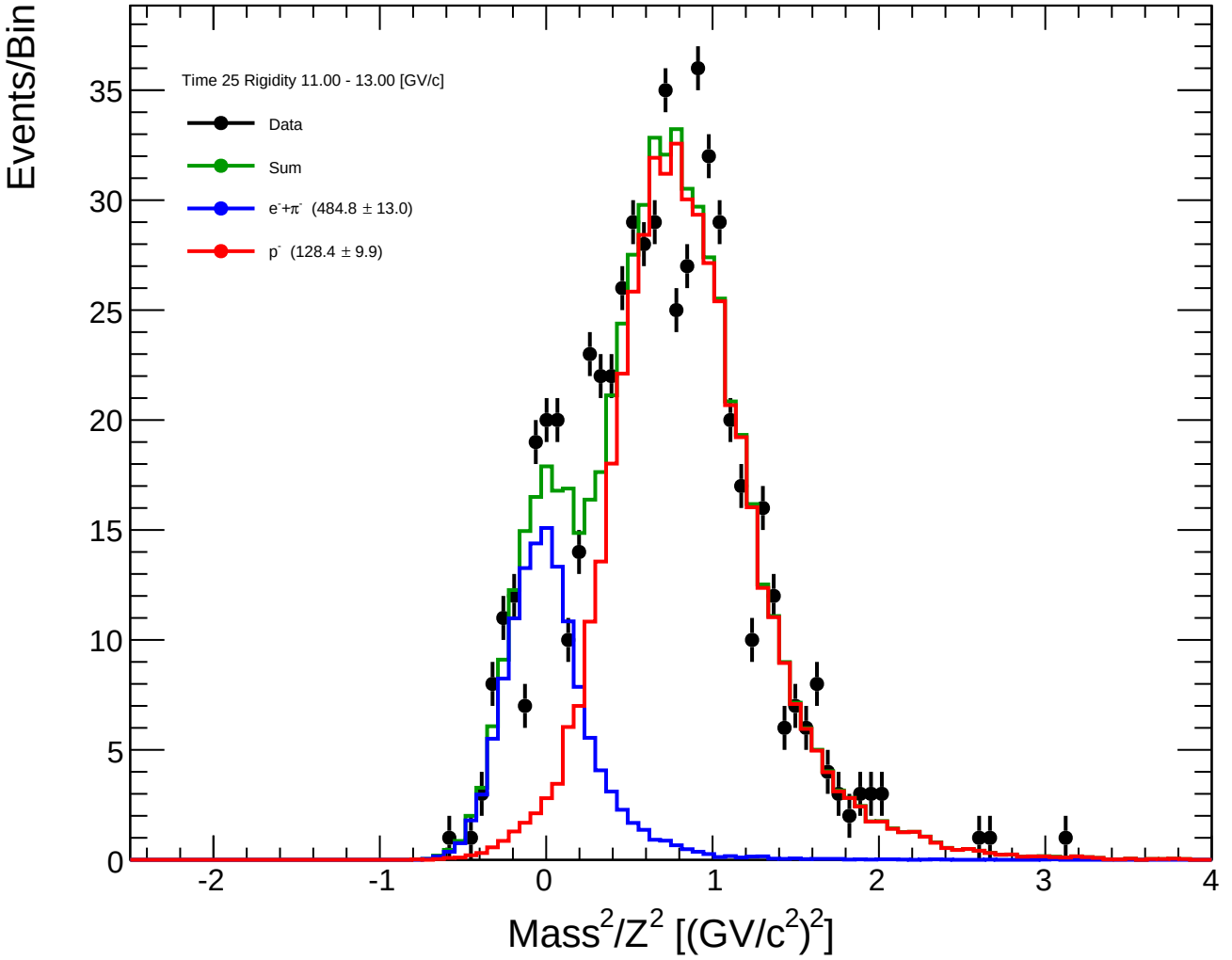

Time 25 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (300.9 ± 8.6)
p⁻ (2.5 ± 8.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

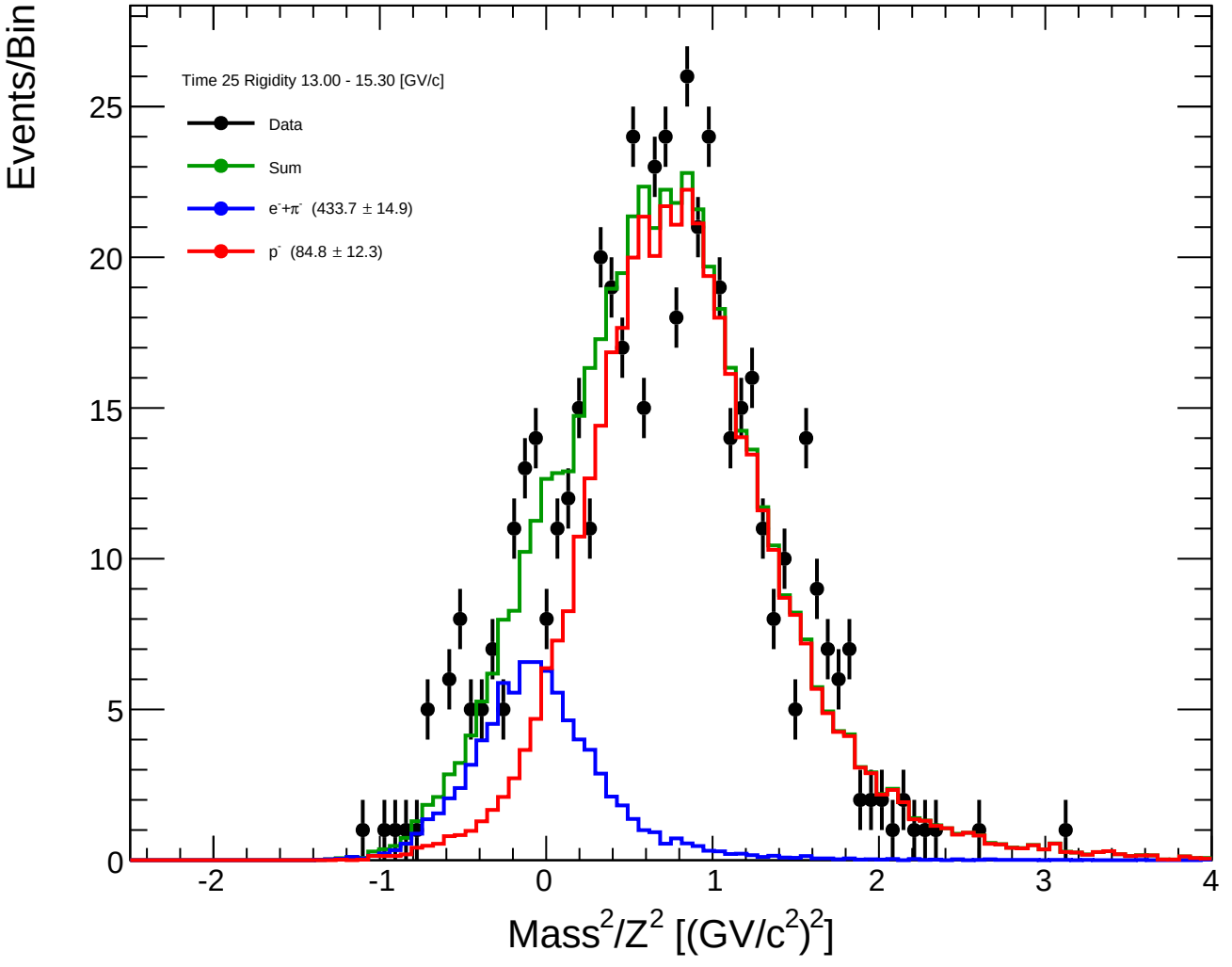

Time 25 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (282.4 ± 7.4)
p⁻ (9.8 ± 5.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

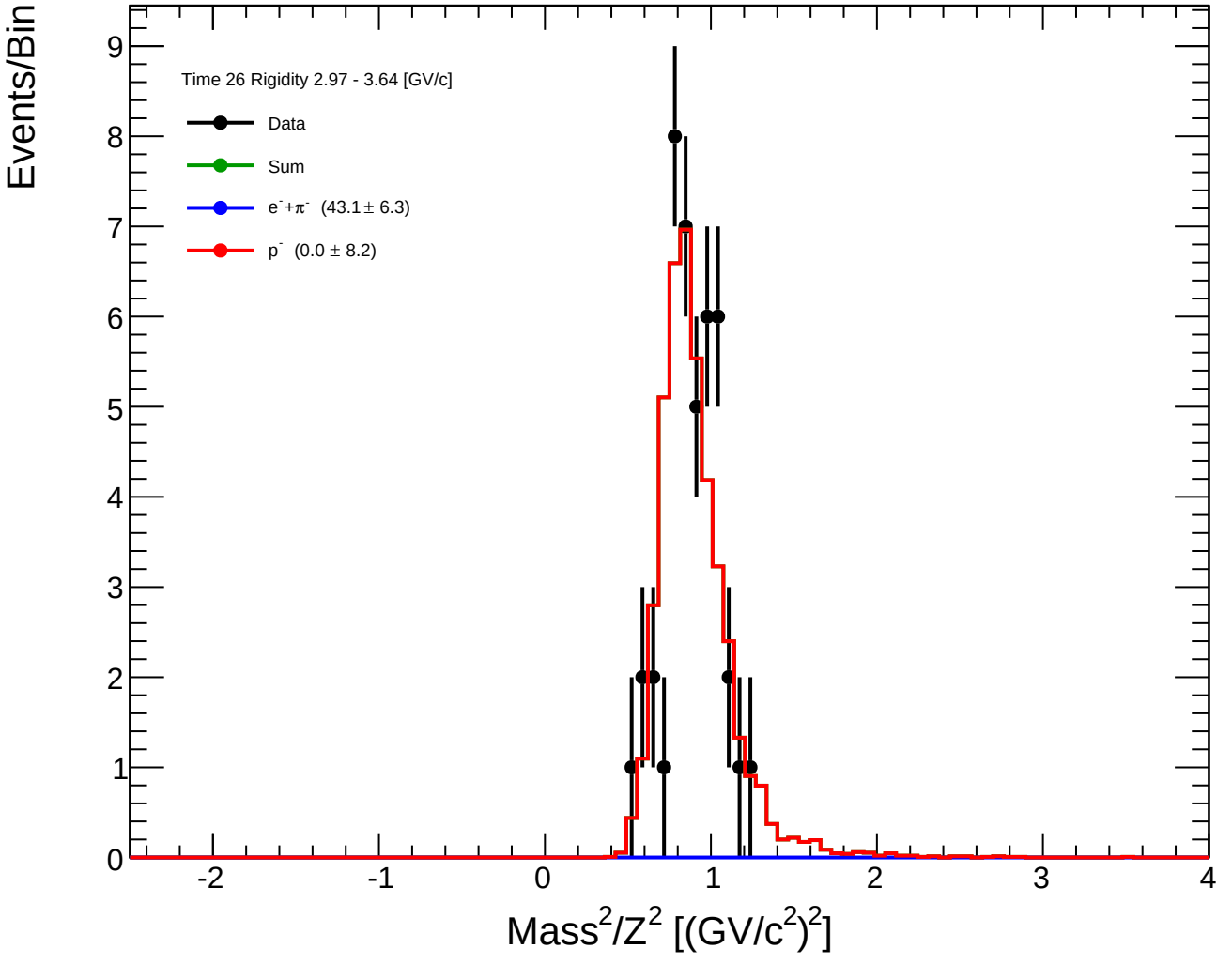

Time 25 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (296.6 ± 10.1)
p⁻ (13.6 ± 6.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

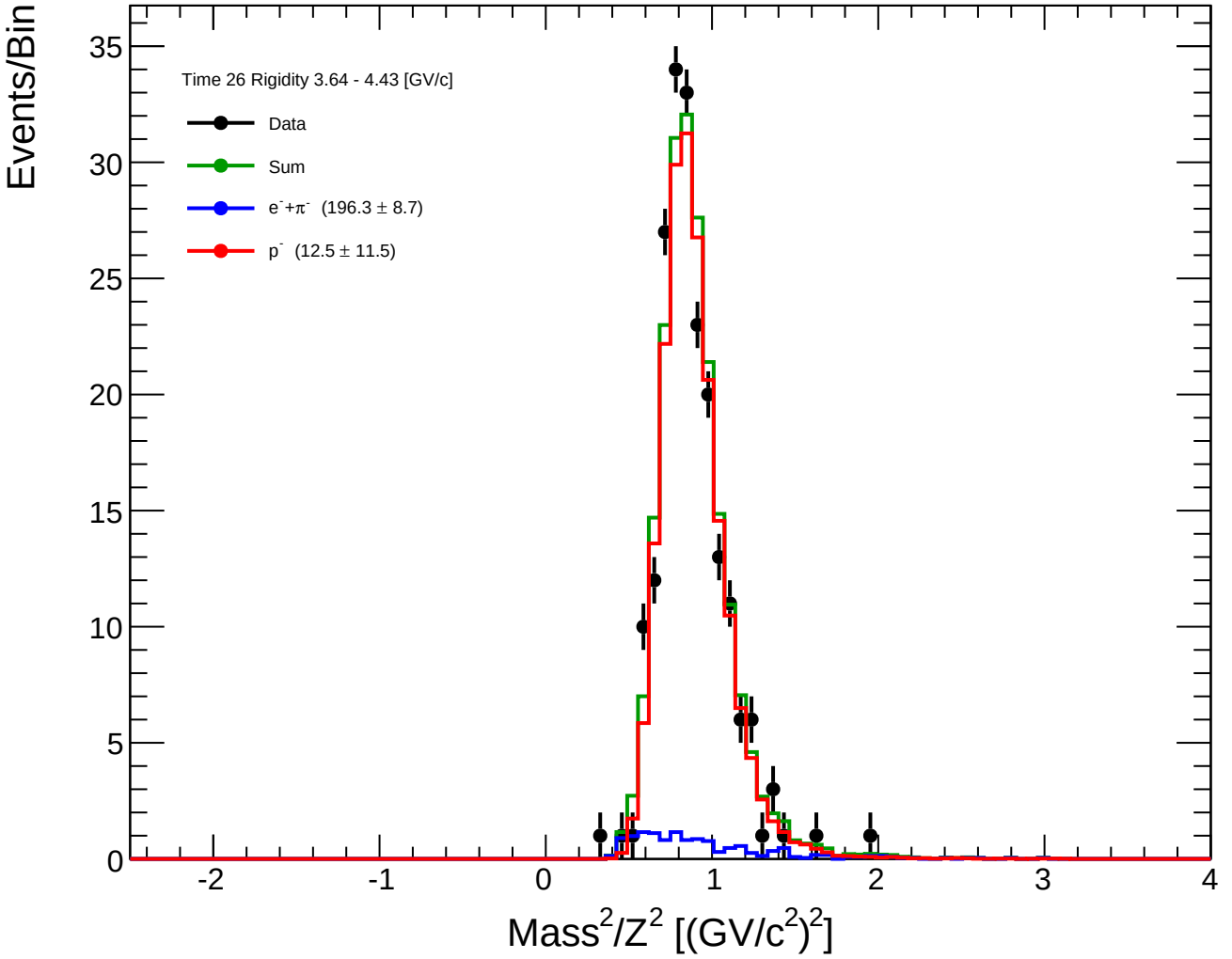

Time 25 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (263.2 ± 8.8)
p⁻ (45.0 ± 5.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

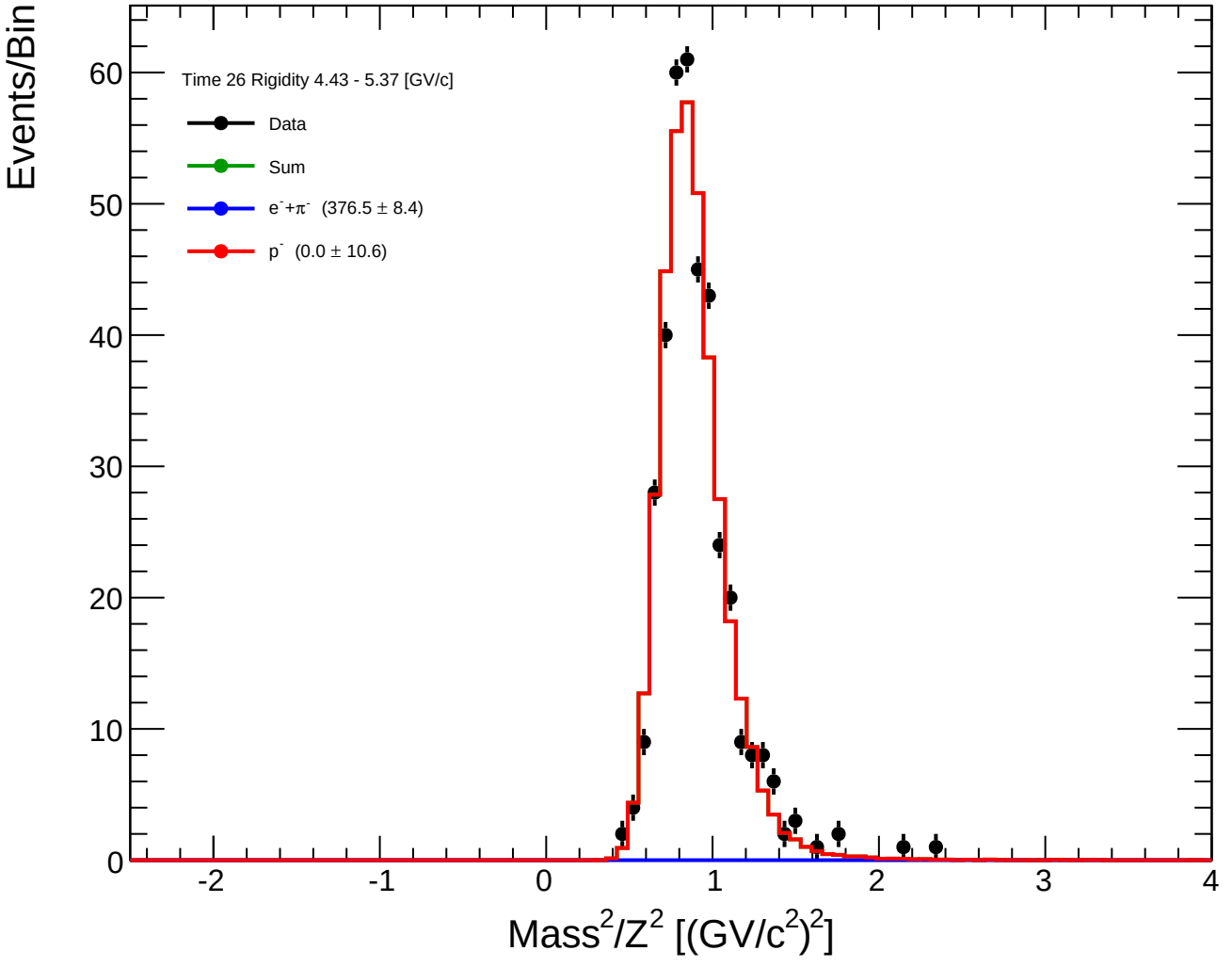

Time 25 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (507.8 ± 12.3)
p⁻ (153.7 ± 8.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

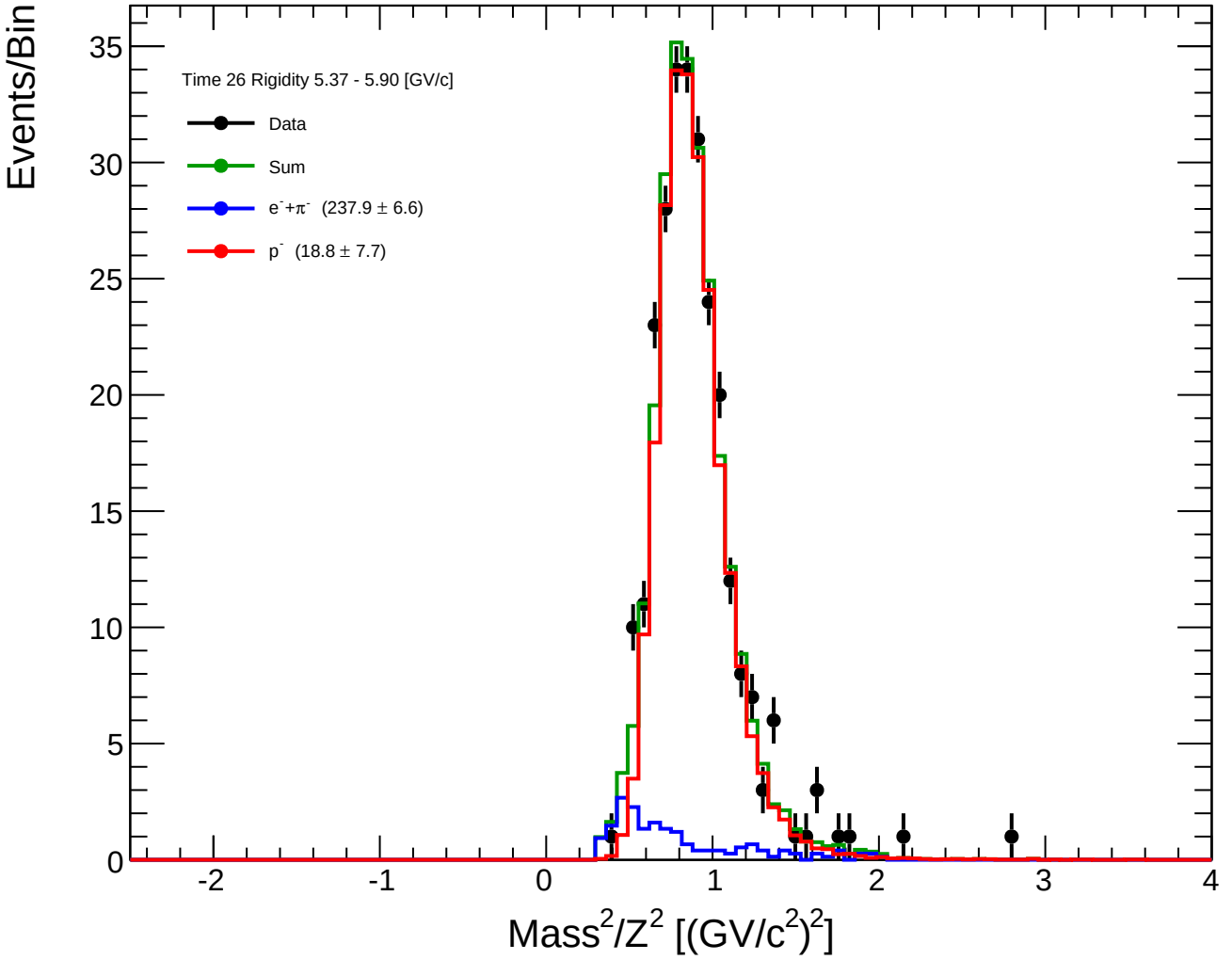

Time 25 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (484.8 ± 13.0)
p⁻ (128.4 ± 9.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

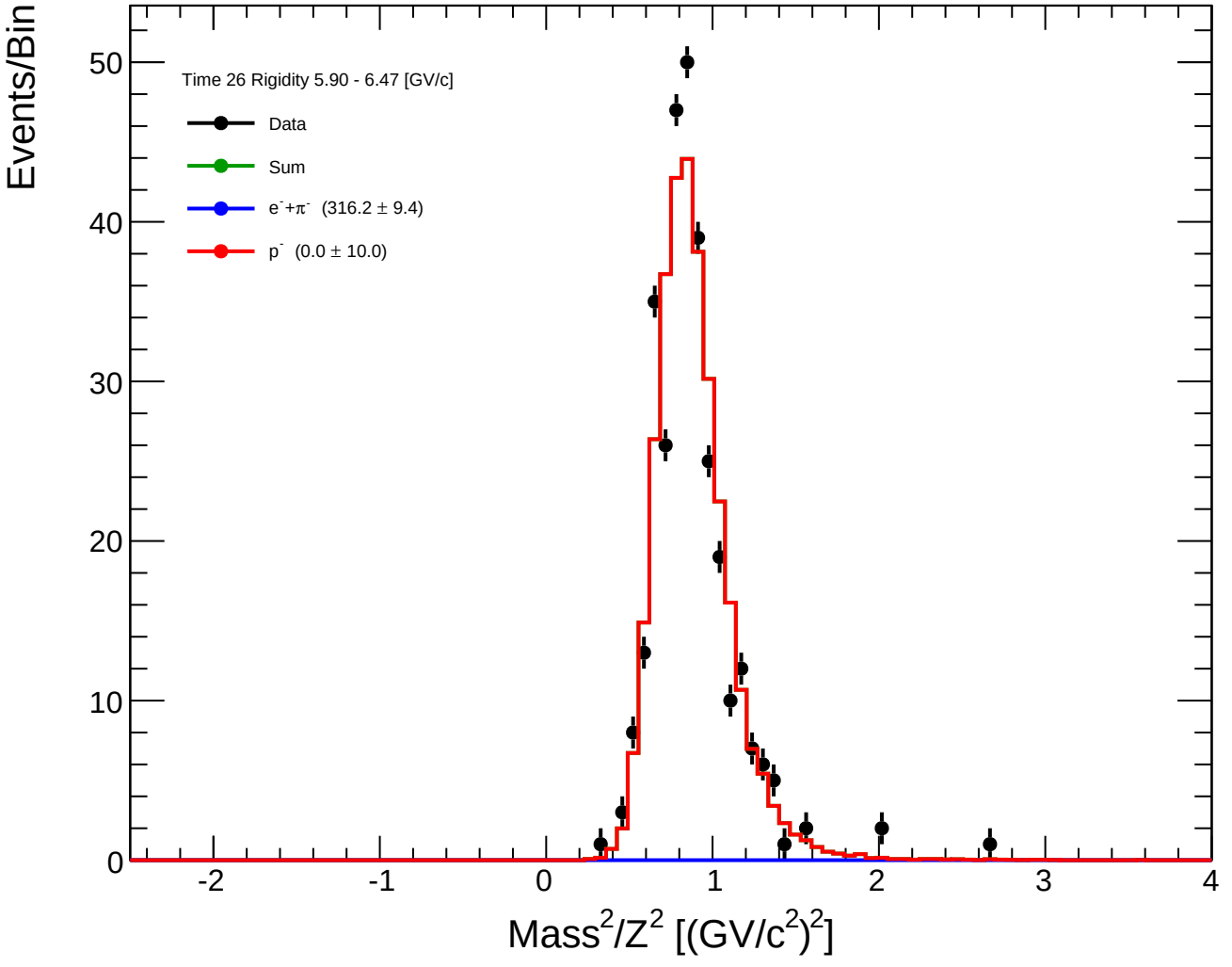

Time 25 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (433.7 ± 14.9)
p⁻ (84.8 ± 12.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

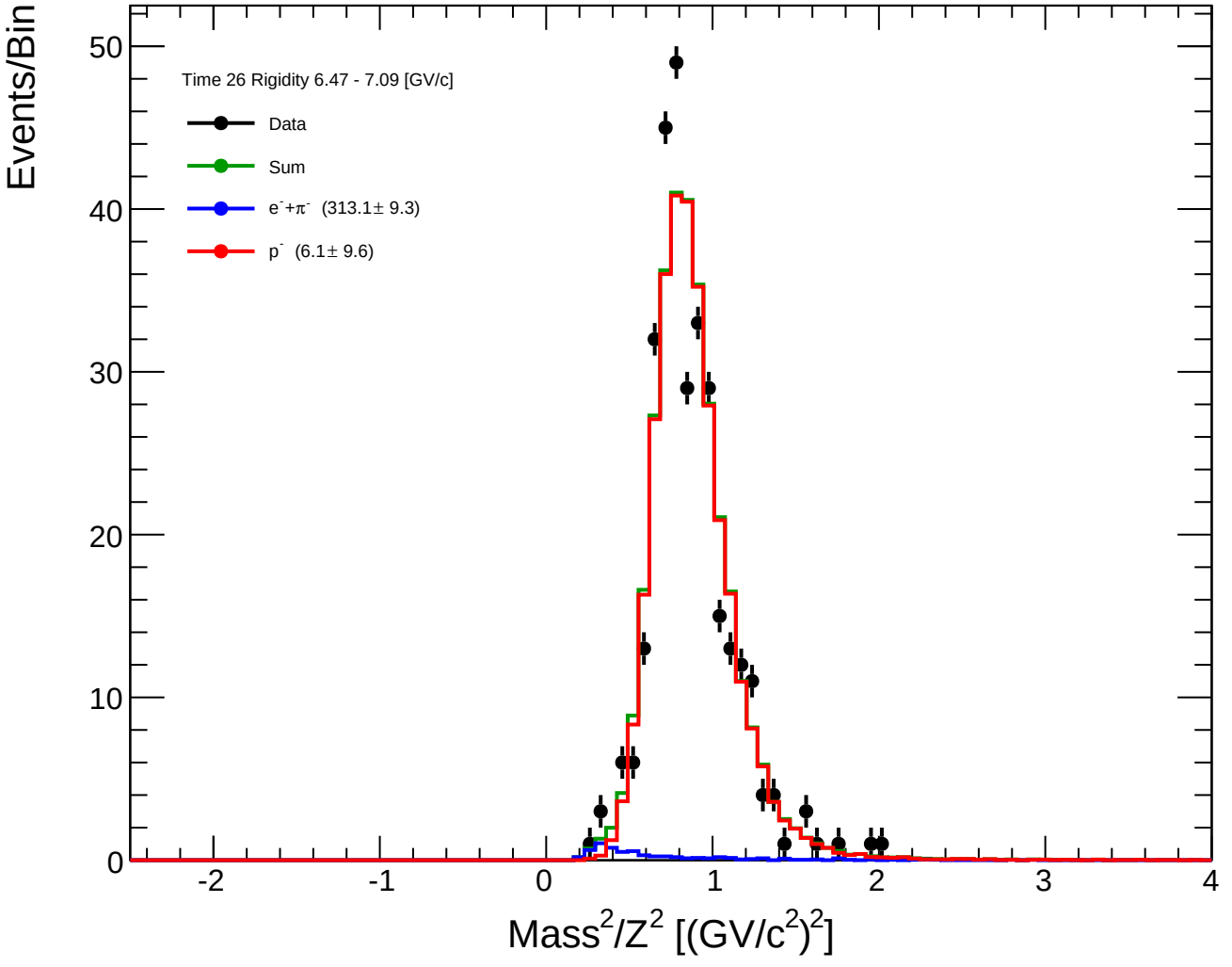

Events/Bin
Time 26 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (43.1± 6.3)
p⁻ (0.0 ± 8.2)
0
1
2
3
4
5
6
7
8
9
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

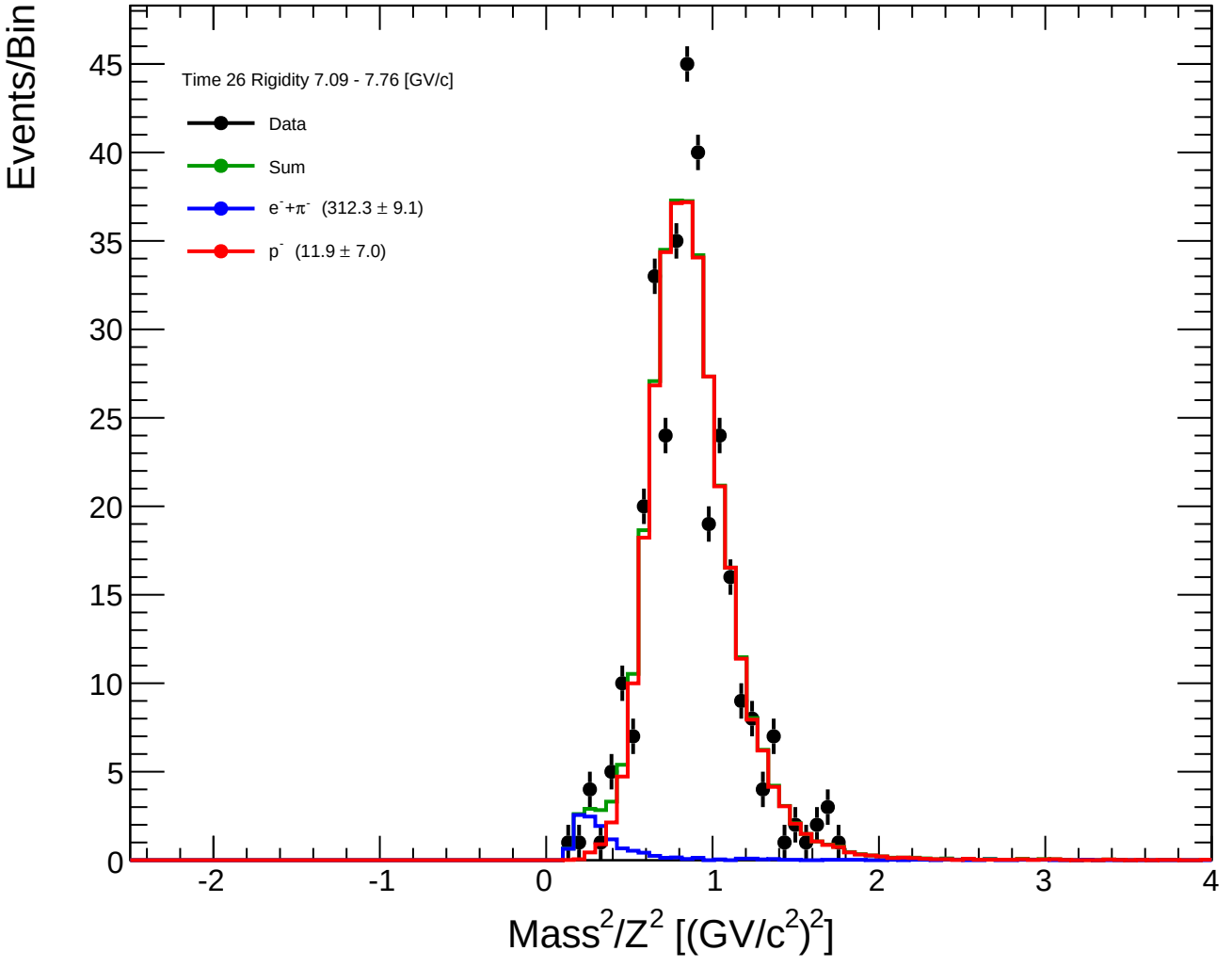

Time 26 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (196.3 ± 8.7)
p⁻ (12.5 ± 11.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

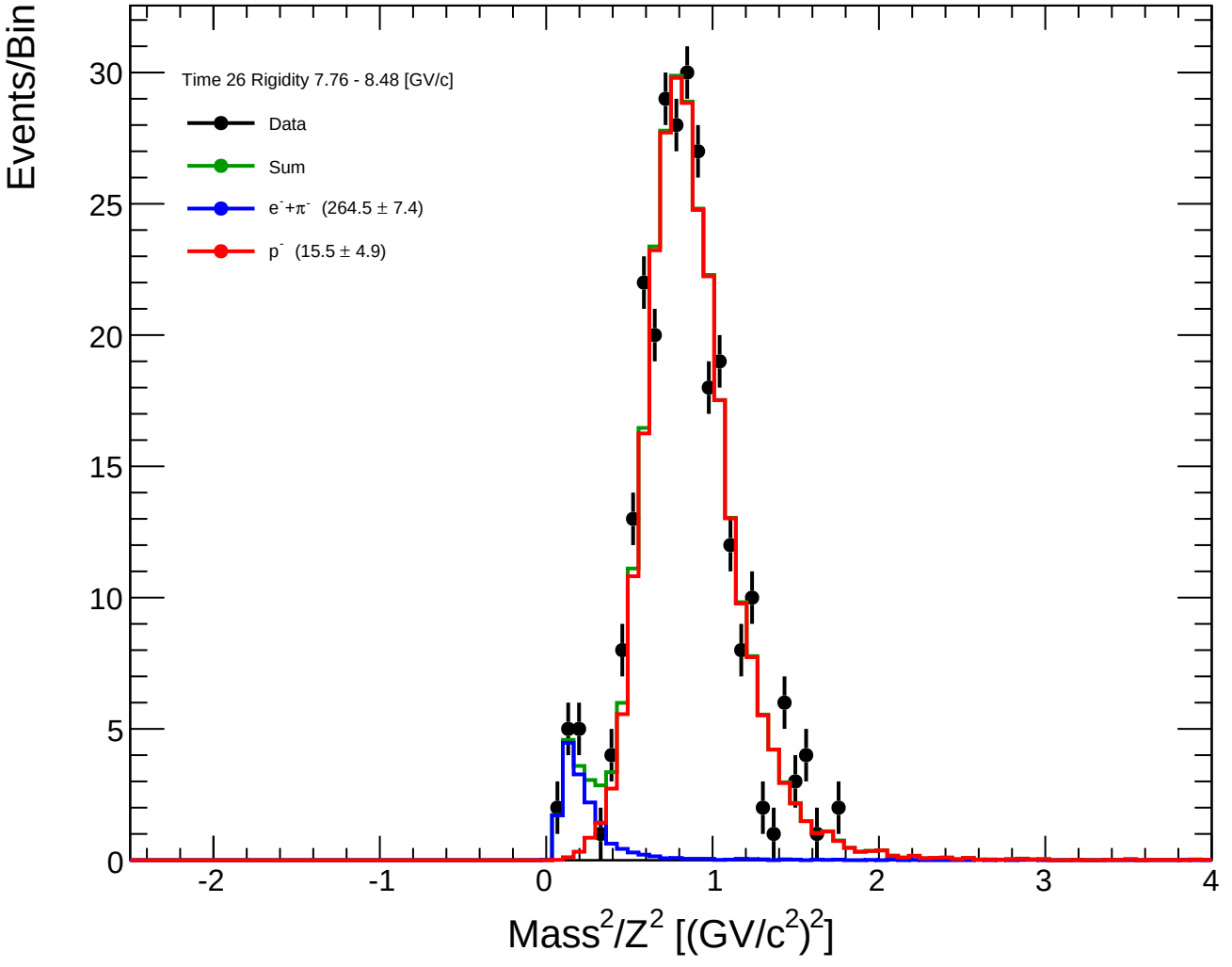

Time 26 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (376.5 ± 8.4)
p⁻ (0.0 ± 10.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
-2
-1
0
1
2
3
4

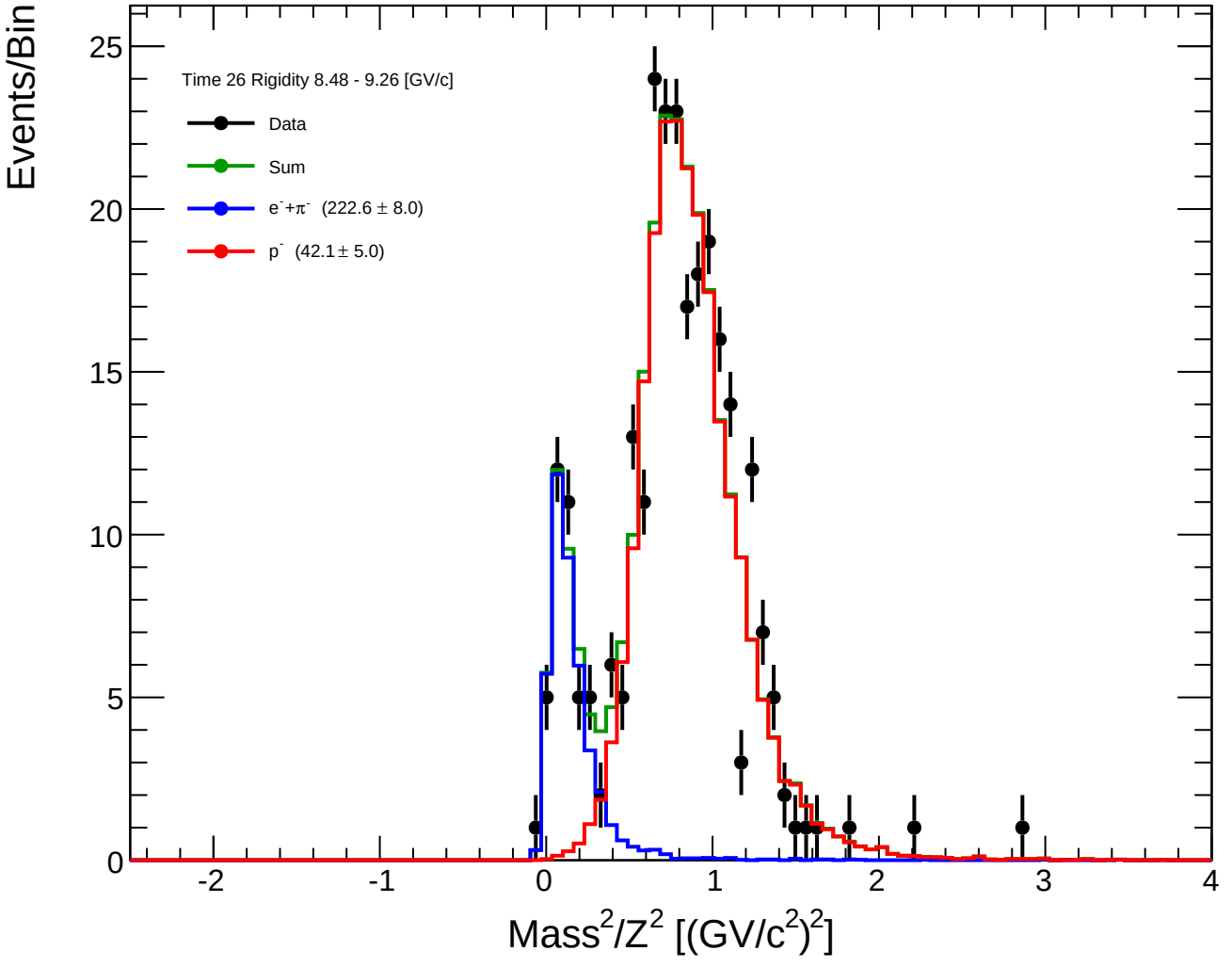

Time 26 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (237.9 ± 6.6)
p⁻ (18.8 ± 7.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

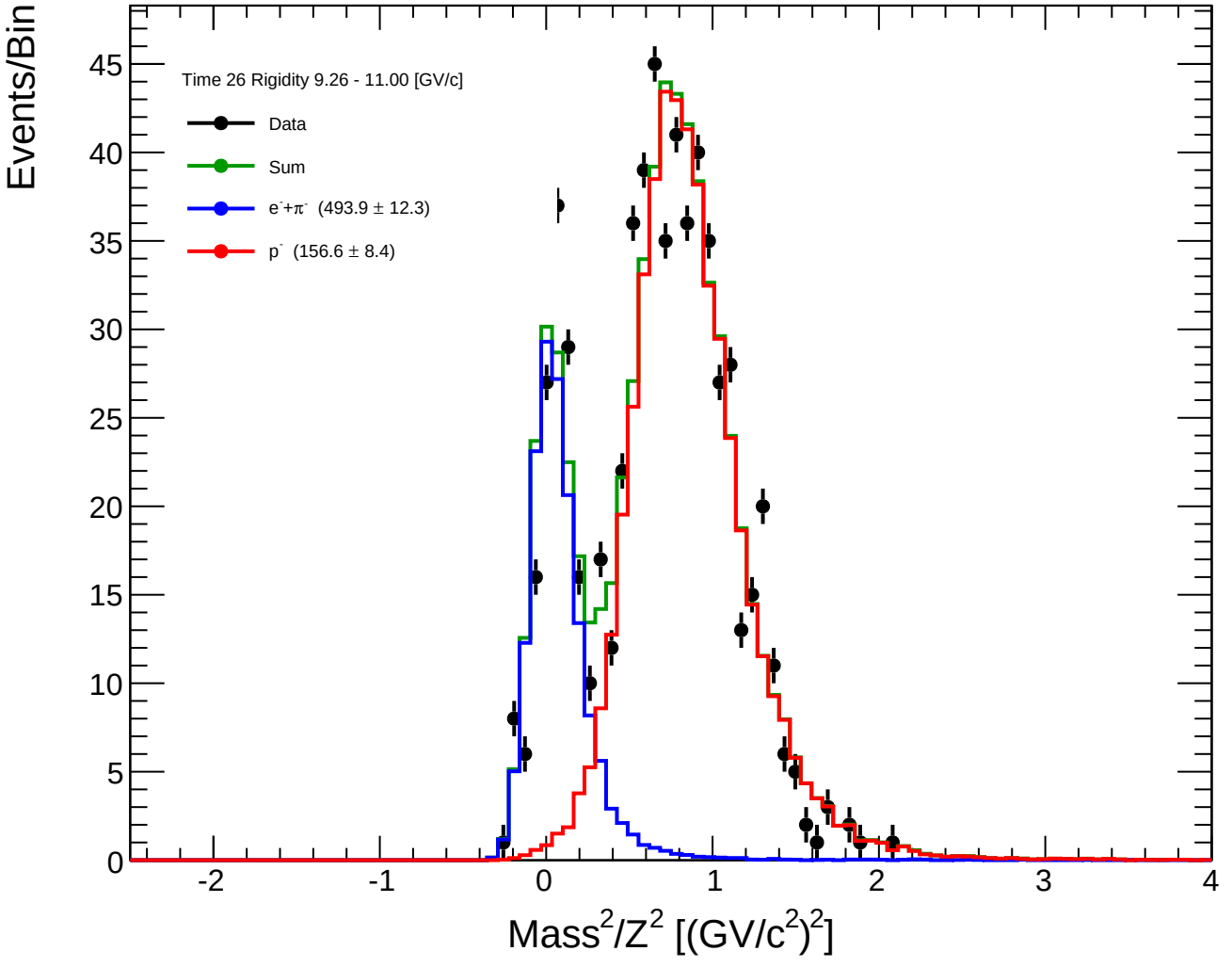

Time 26 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (316.2 ± 9.4)
p⁻ (0.0 ± 10.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

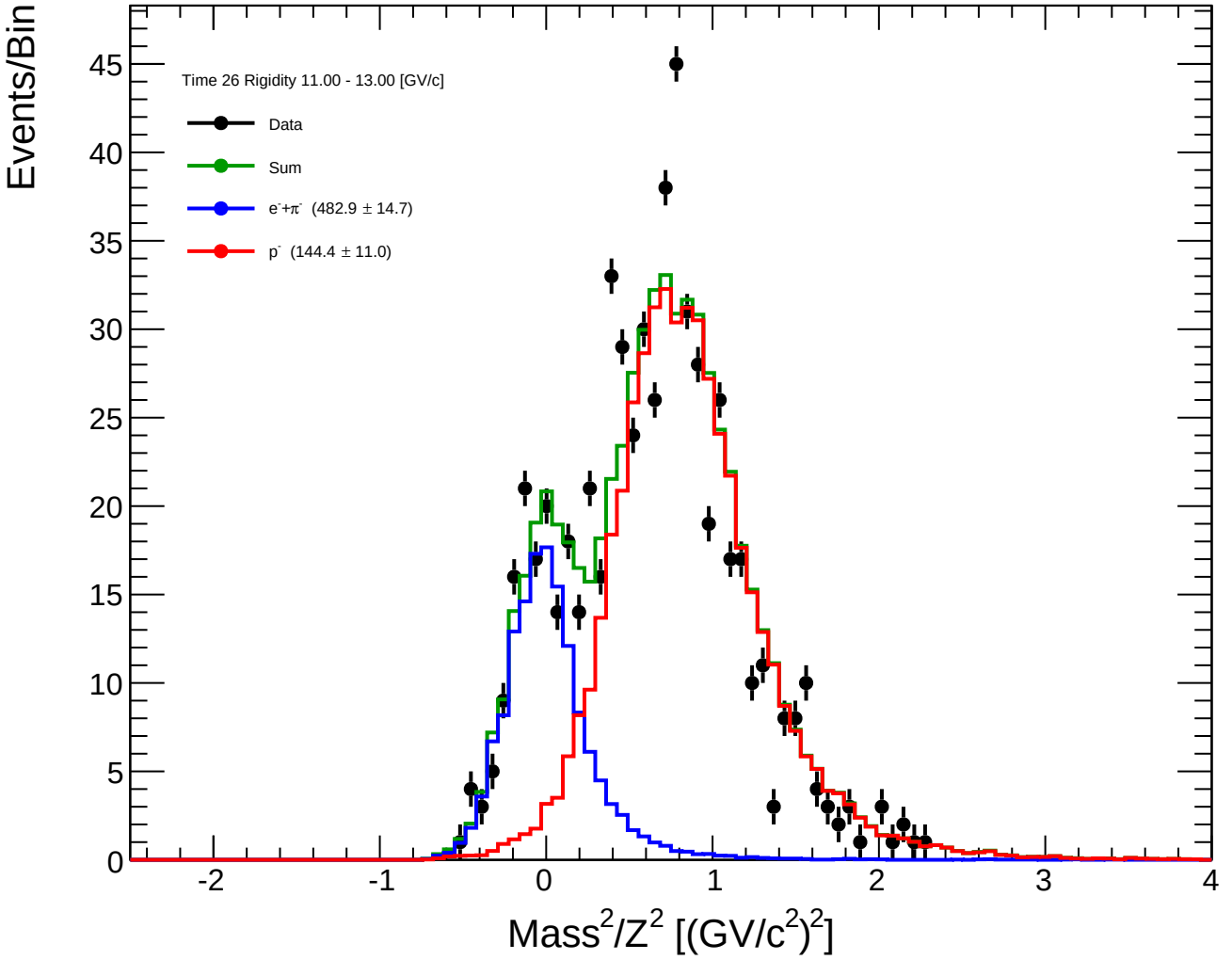

Time 26 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (313.1± 9.3)
p⁻ (6.1± 9.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

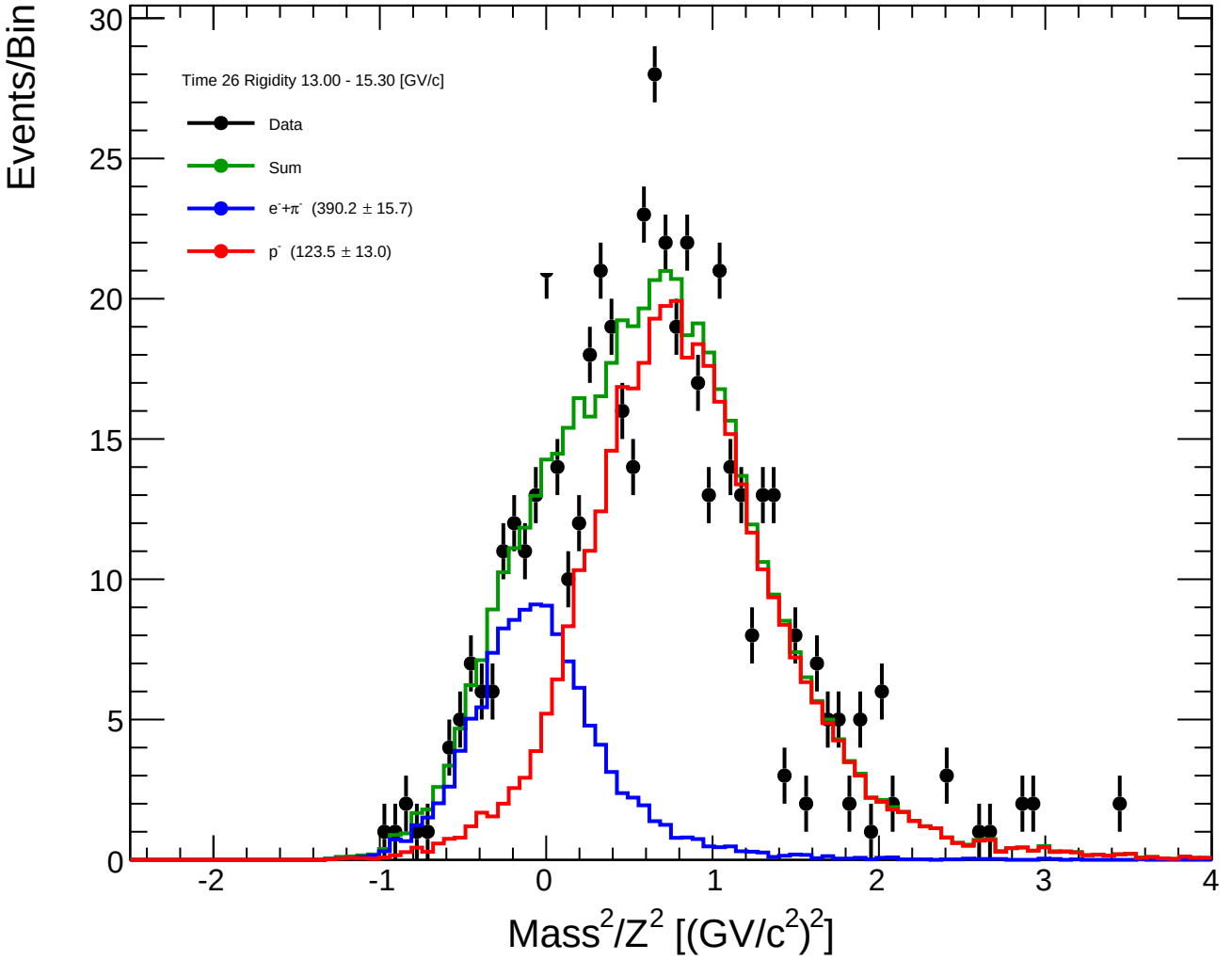

Time 26 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (312.3 ± 9.1)
p⁻ (11.9 ± 7.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

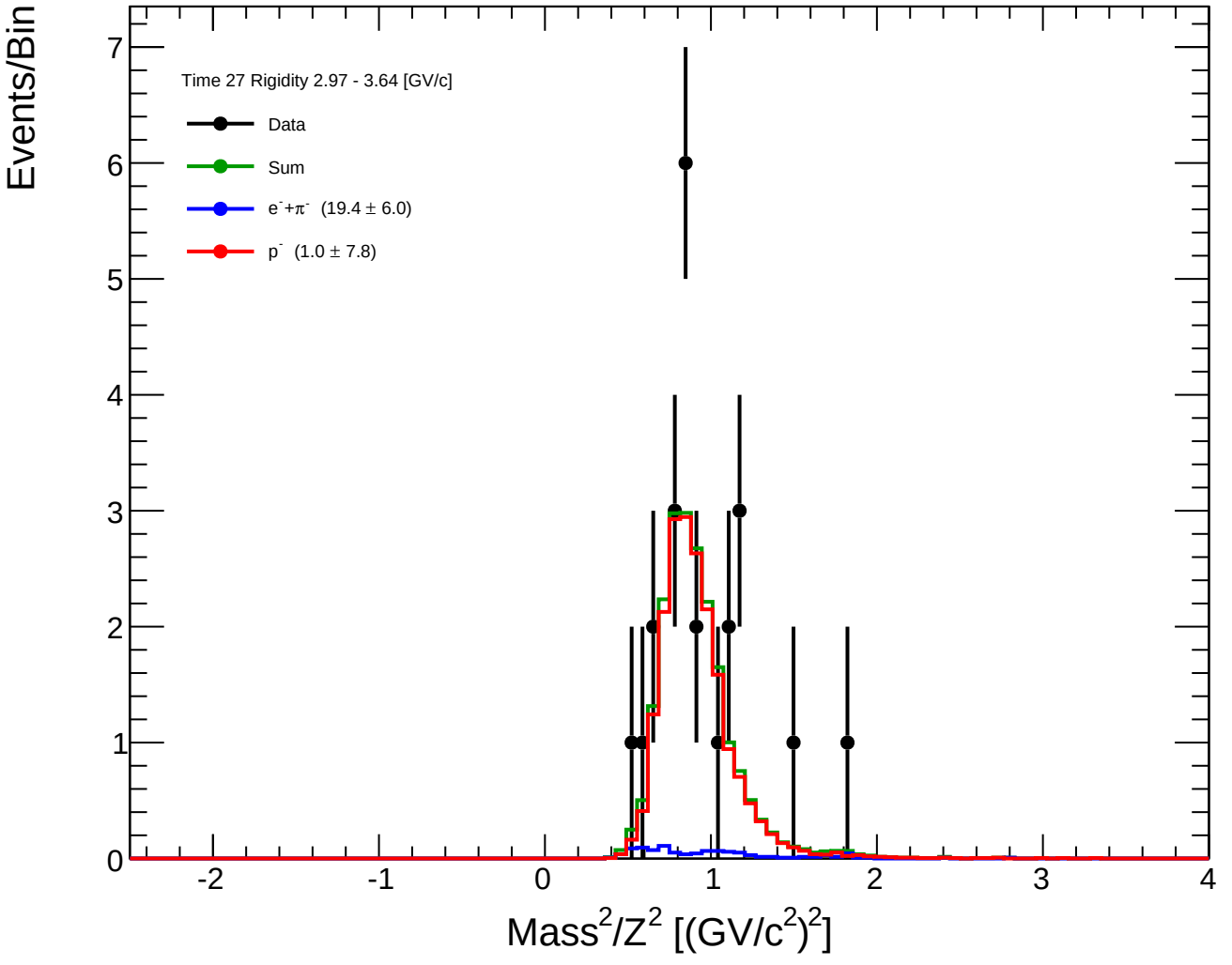

Time 26 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (264.5 ± 7.4)
p⁻ (15.5 ± 4.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

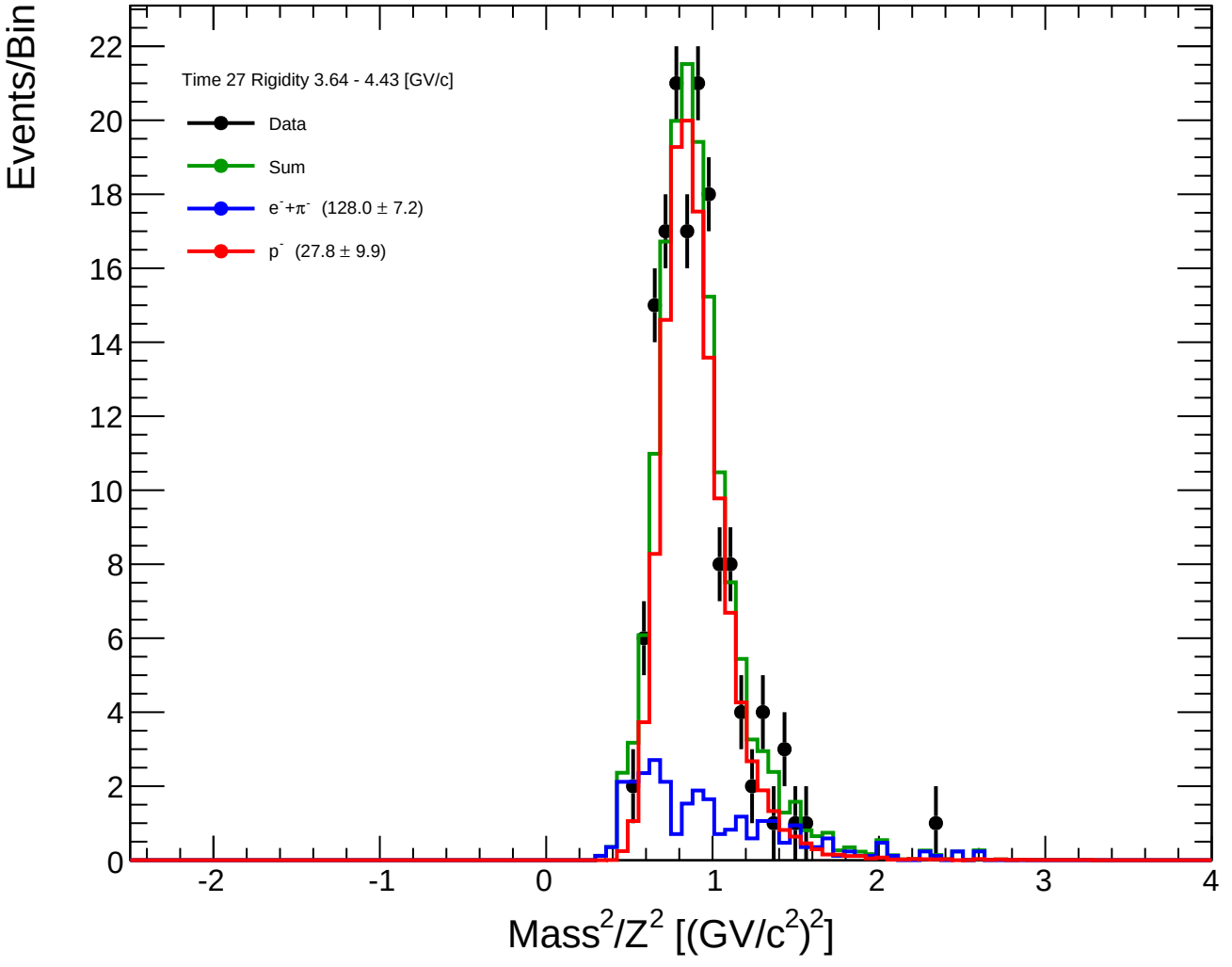

Time 26 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (222.6 ± 8.0)
p⁻ (42.1± 5.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

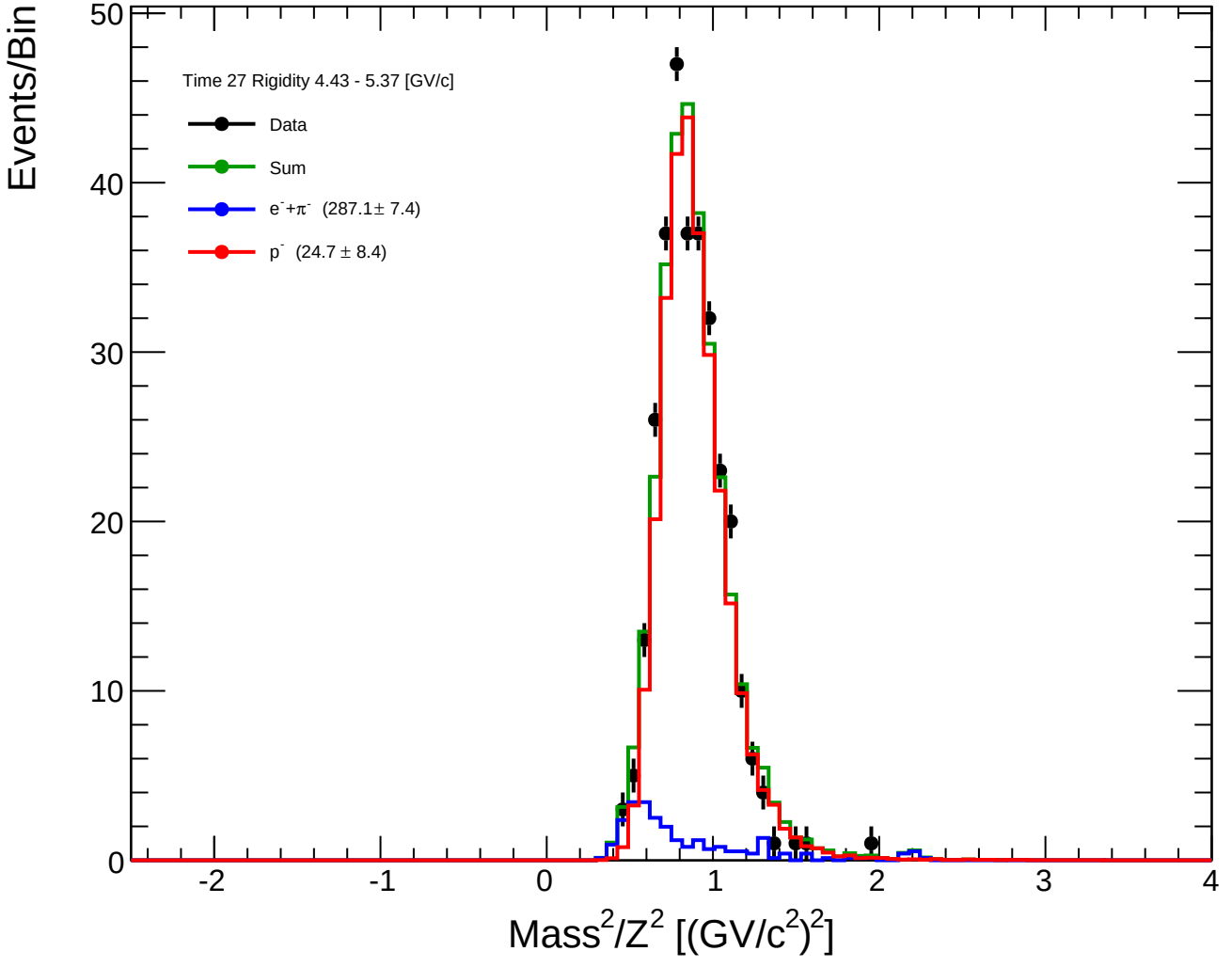

Time 26 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (493.9 ± 12.3)
p⁻ (156.6 ± 8.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

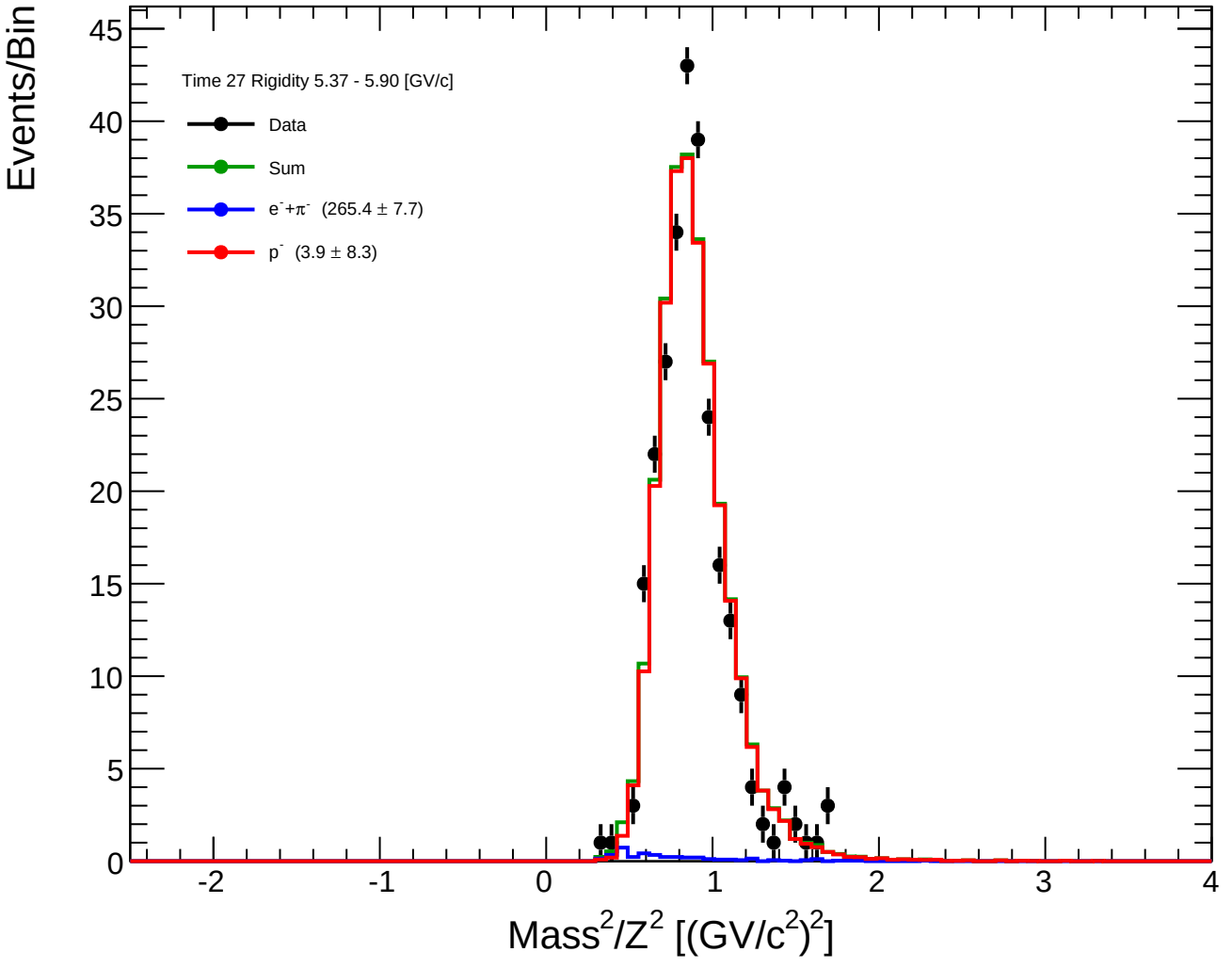

Time 26 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (482.9 ± 14.7)
p⁻ (144.4 ± 11.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

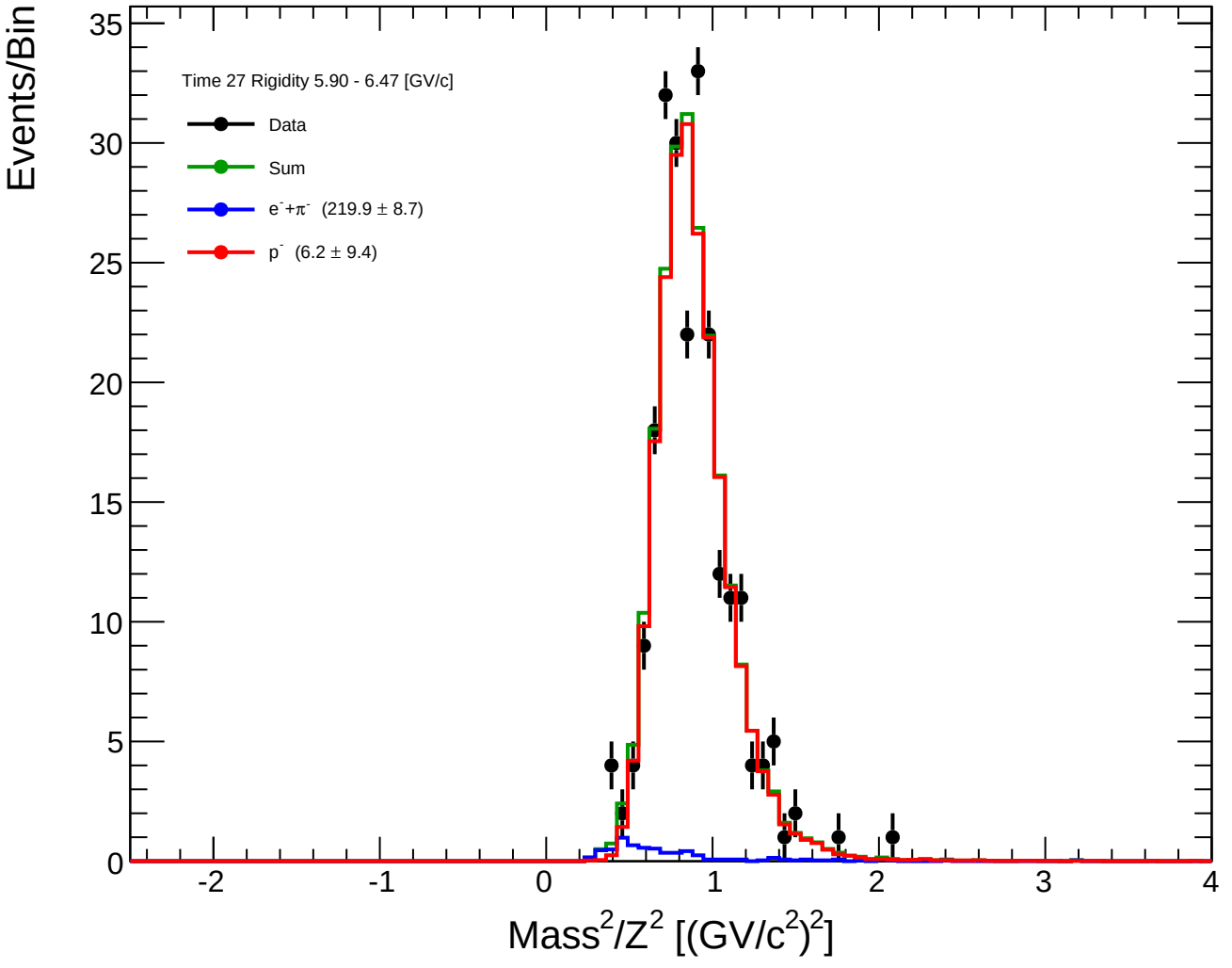

Time 26 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (390.2 ± 15.7)
p⁻ (123.5 ± 13.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

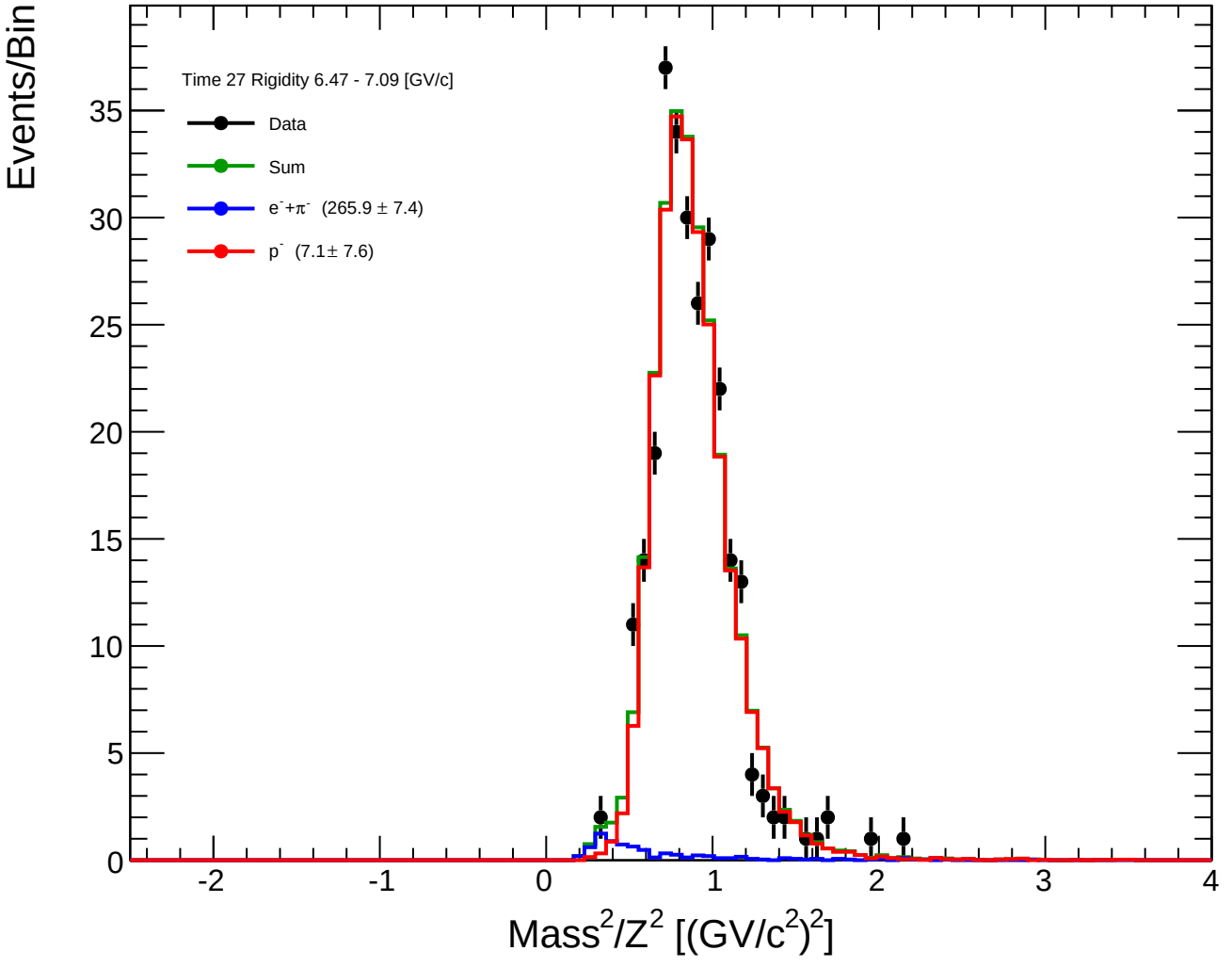

Time 27 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (19.4 ± 6.0)
p⁻ (1.0 ± 7.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
1
2
3
4
5
6
7
-2
-1
0
1
2
3
4

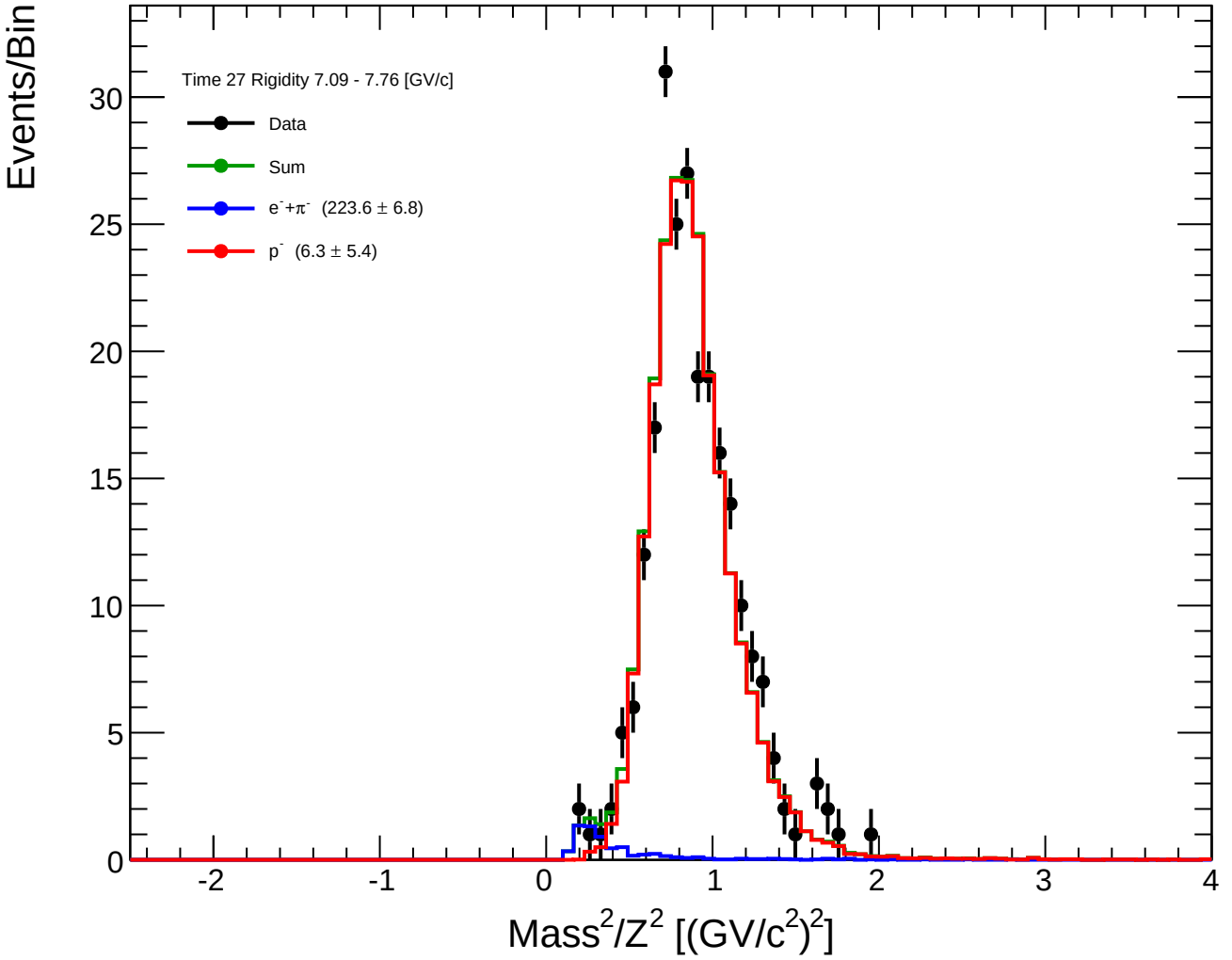

Time 27 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (128.0 ± 7.2)
p⁻ (27.8 ± 9.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
22
-2
-1
0
1
2
3
4

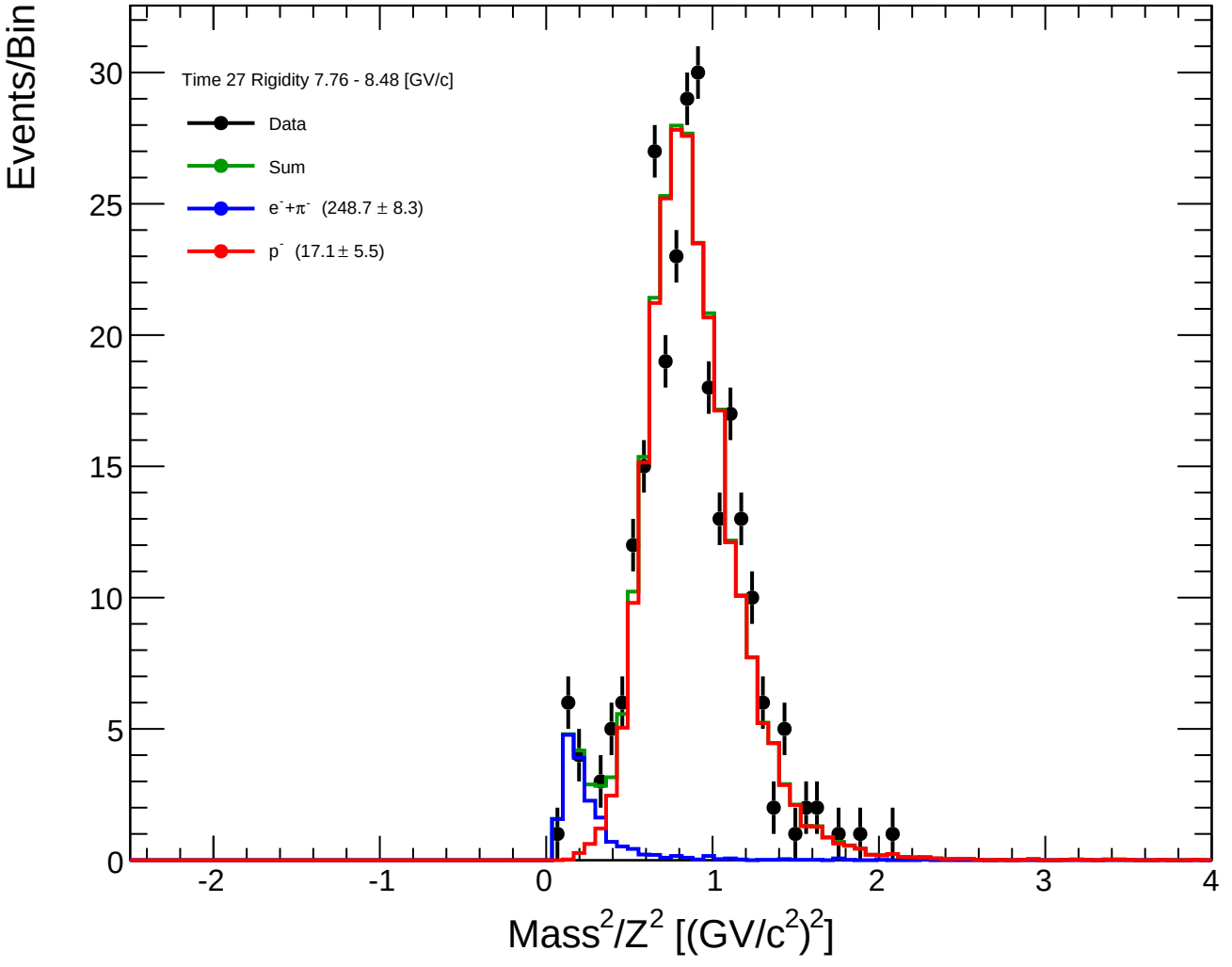

Time 27 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (287.1± 7.4)
p⁻ (24.7 ± 8.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

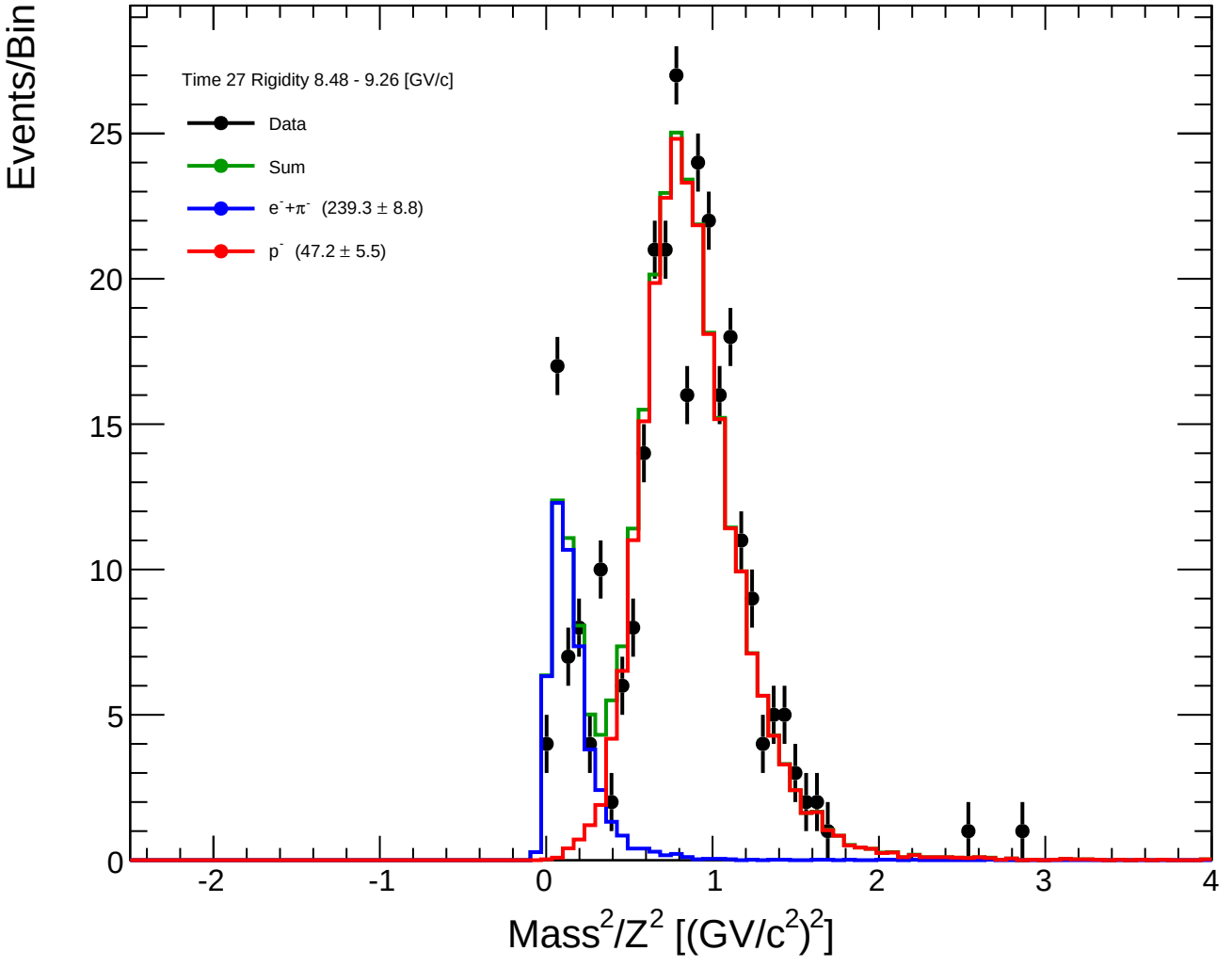

Time 27 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (265.4 ± 7.7)
p⁻ (3.9 ± 8.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

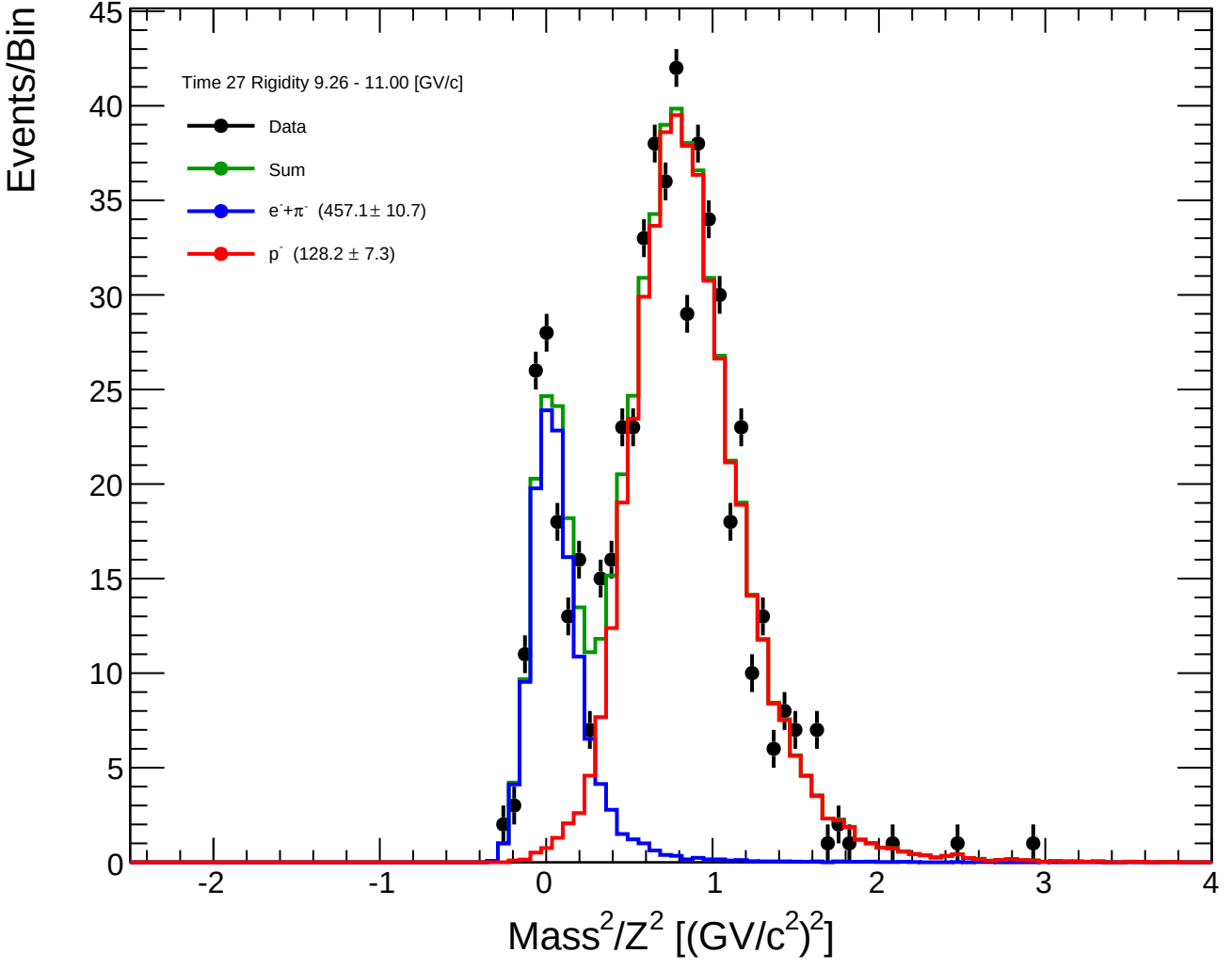

Time 27 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (219.9 ± 8.7)
p⁻ (6.2 ± 9.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

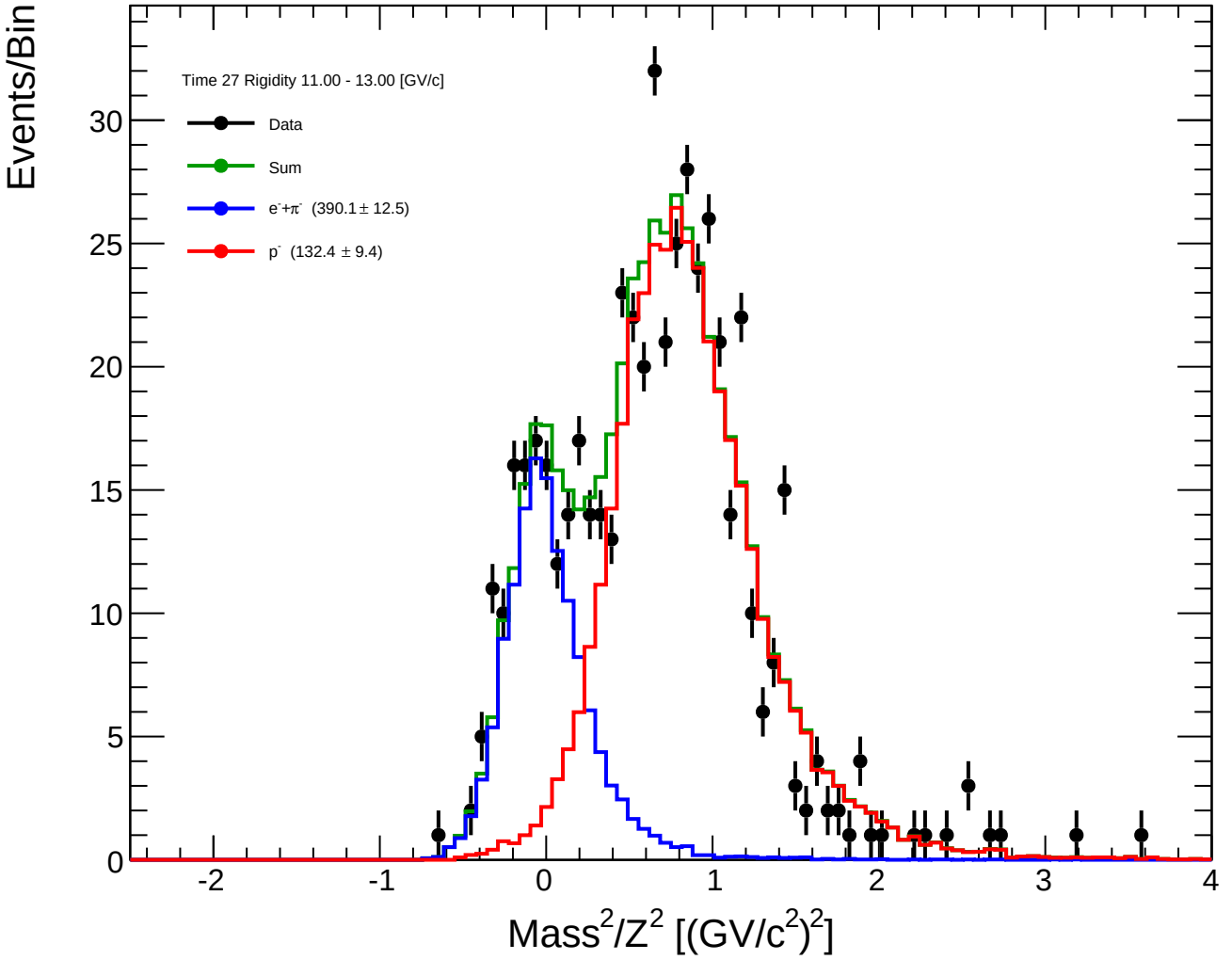

Time 27 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (265.9 ± 7.4)
p⁻ (7.1± 7.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

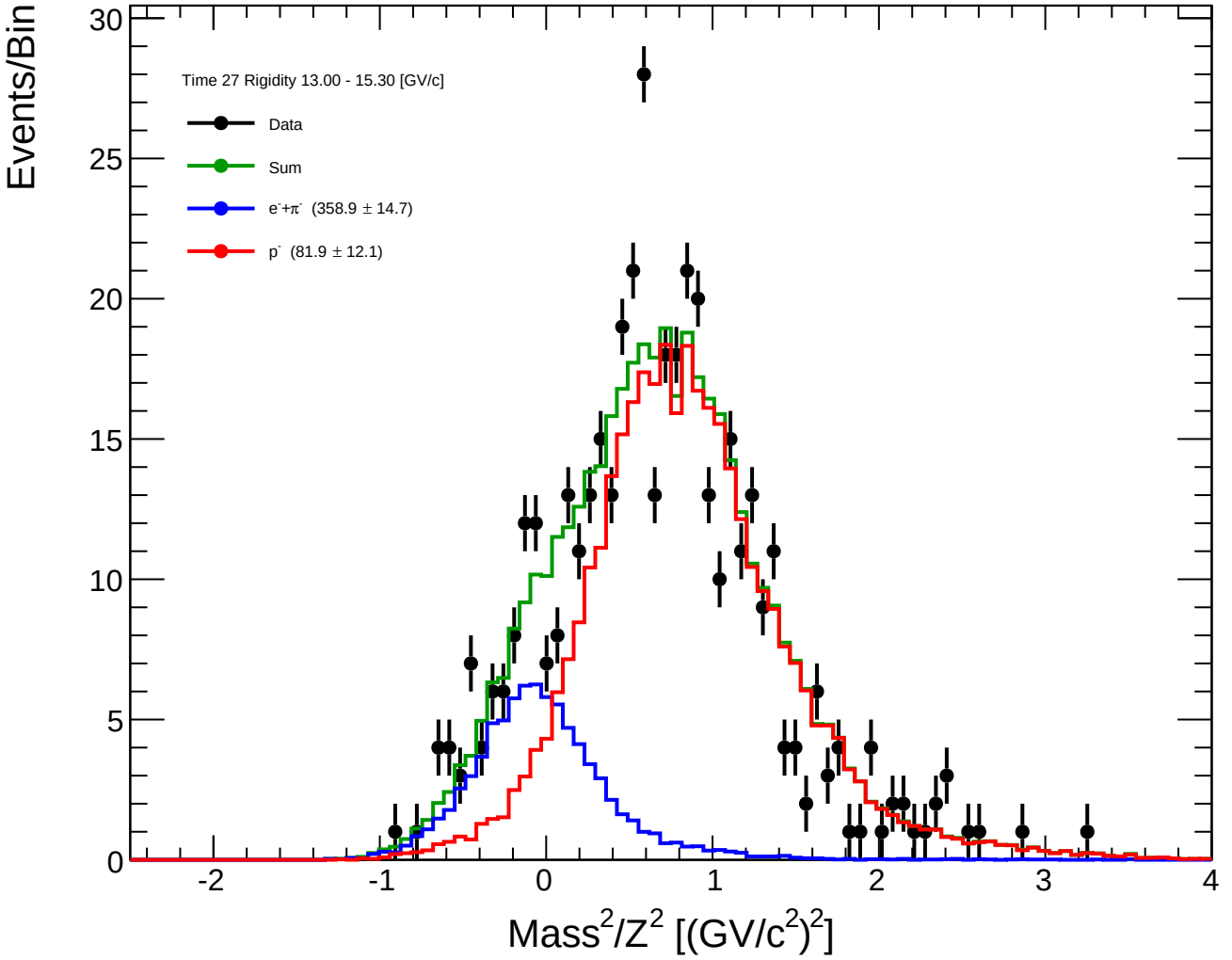

Time 27 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (223.6 ± 6.8)
p⁻ (6.3 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

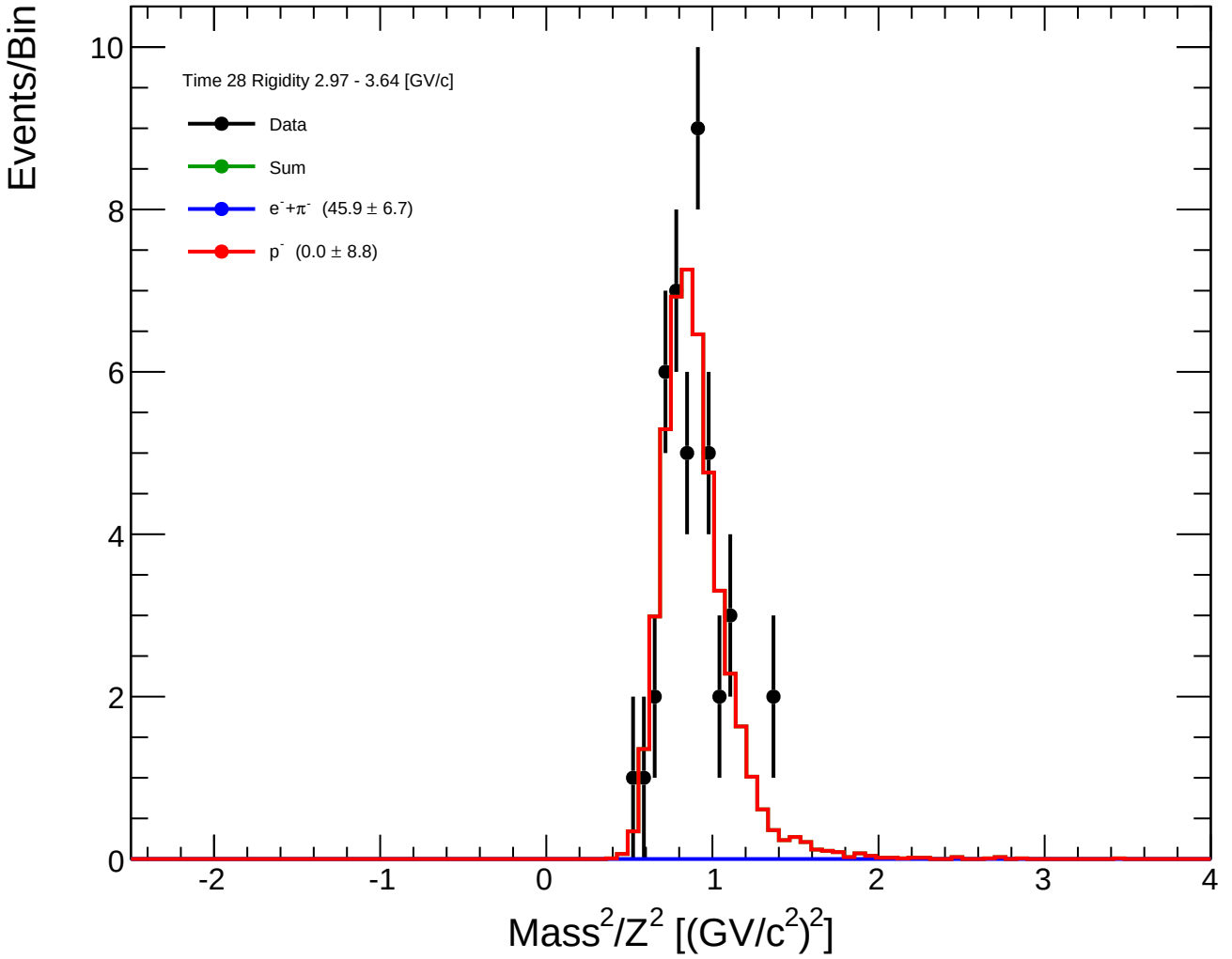

Time 27 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (248.7 ± 8.3)
p⁻ (17.1± 5.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

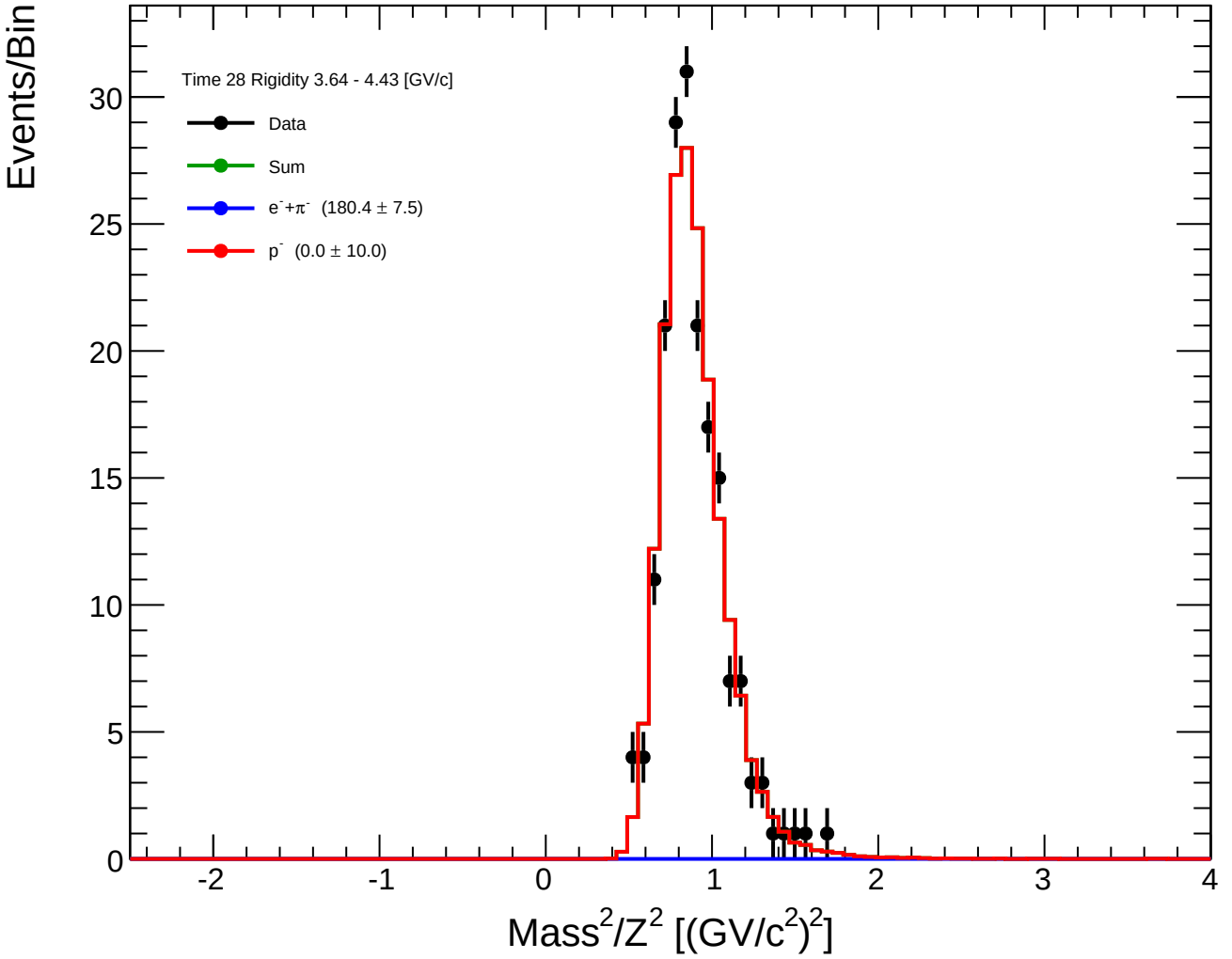

Time 27 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (239.3 ± 8.8)
p⁻ (47.2 ± 5.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

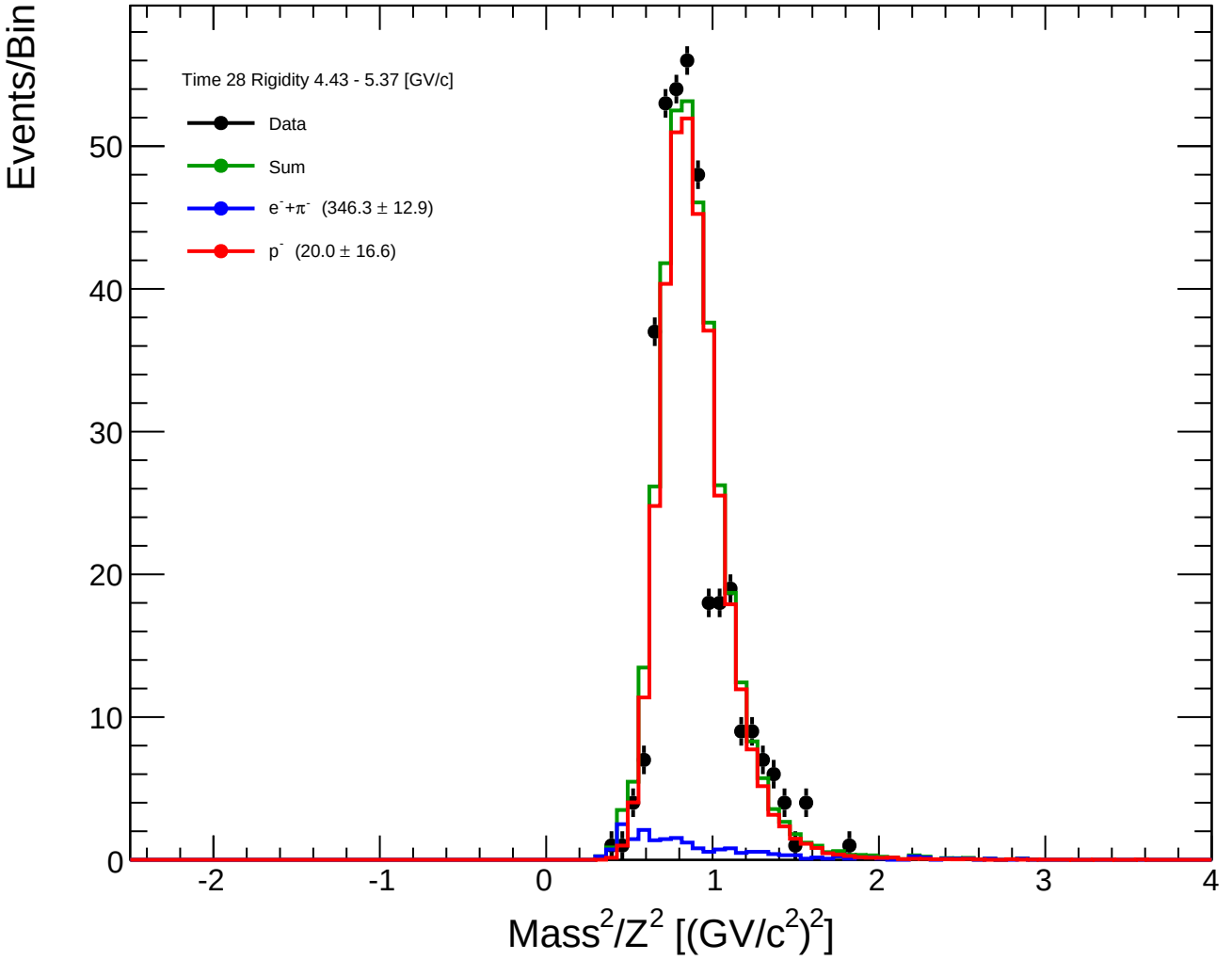

Time 27 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (457.1± 10.7)
p⁻ (128.2 ± 7.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

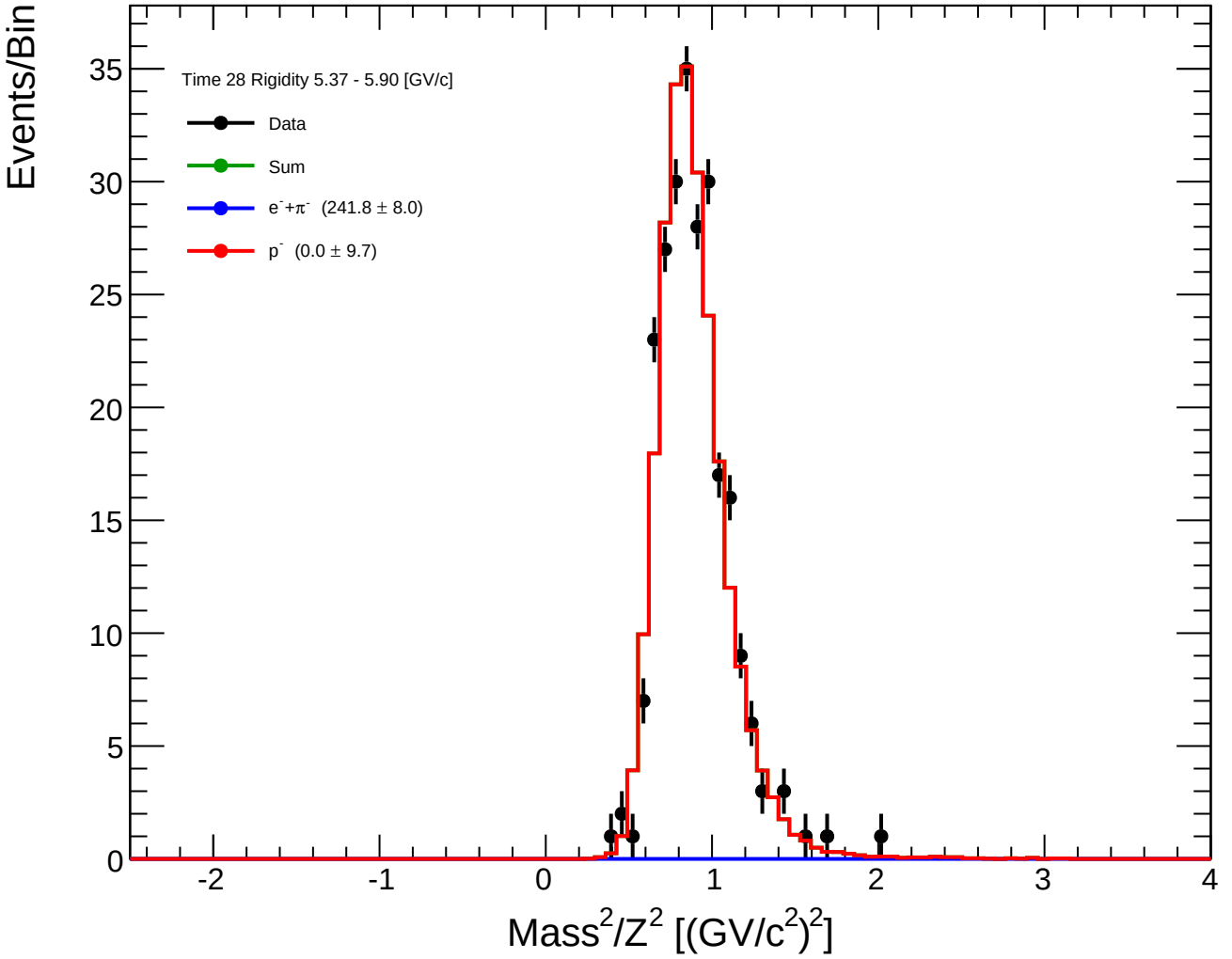

Time 27 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (390.1 ± 12.5)
p⁻ (132.4 ± 9.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

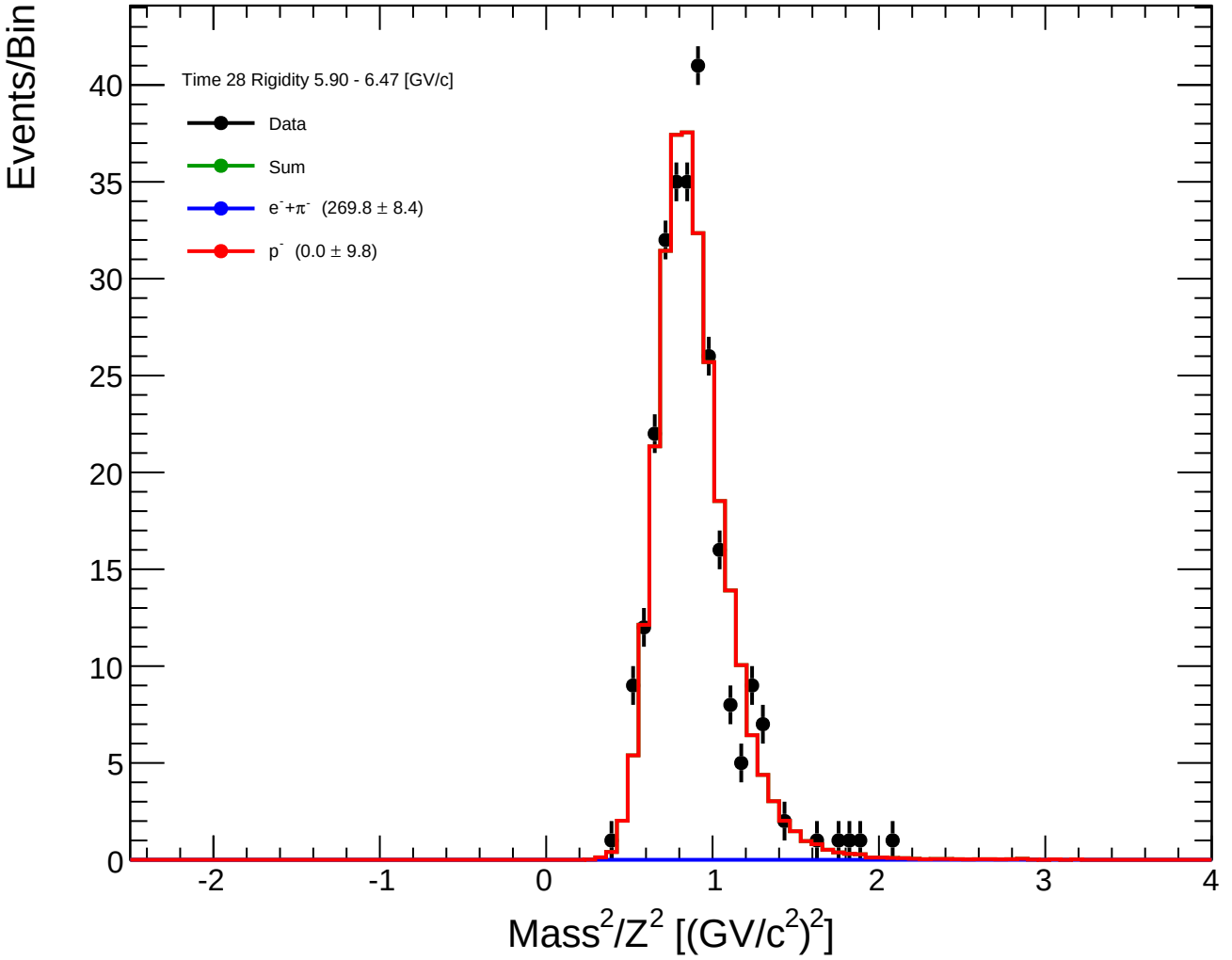

Time 27 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (358.9 ± 14.7)
p⁻ (81.9 ± 12.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

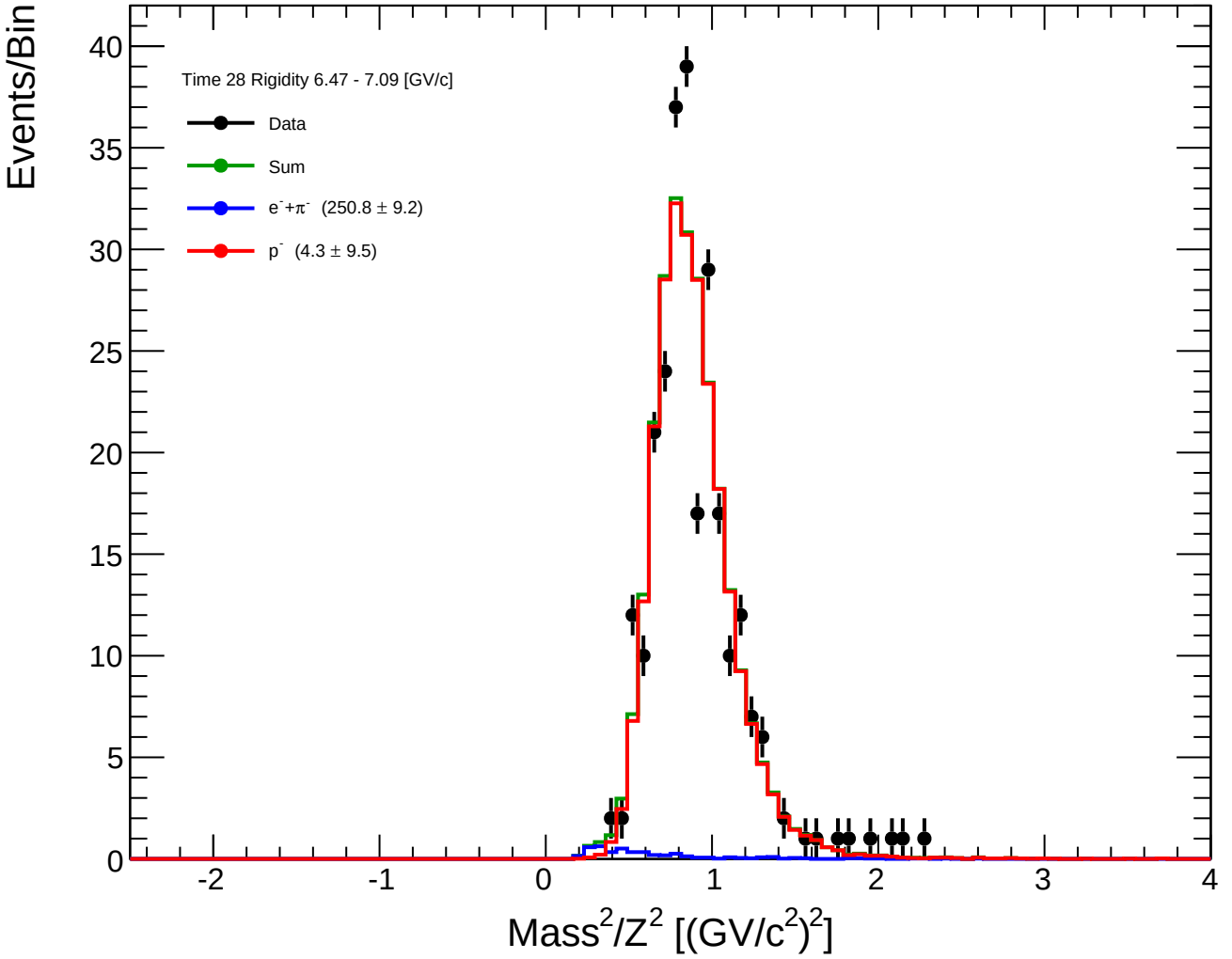

Events/Bin
Time 28 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (45.9 ± 6.7)
p⁻ (0.0 ± 8.8)
0
2
4
6
8
10
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

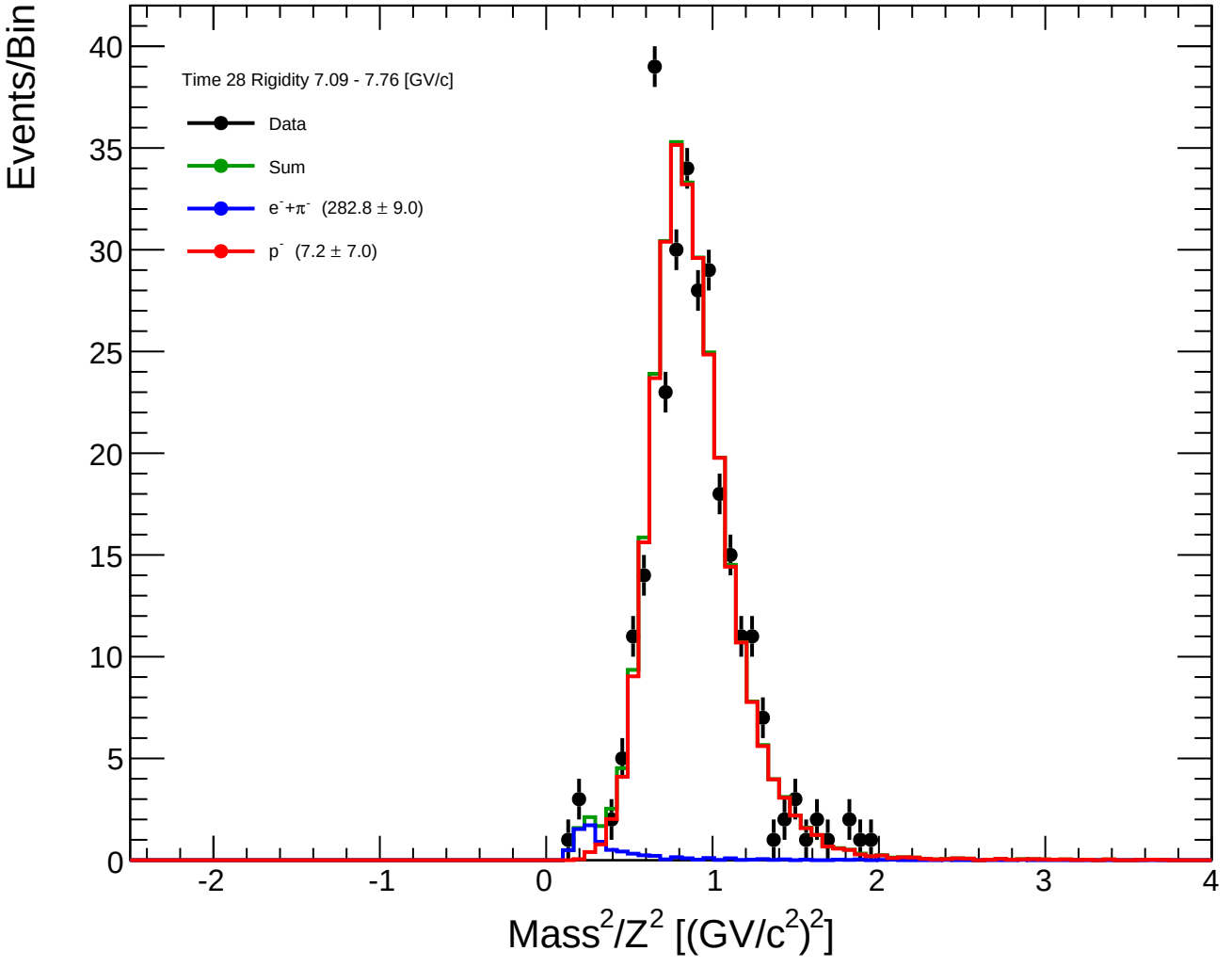

Time 28 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (180.4 ± 7.5)
p⁻ (0.0 ± 10.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

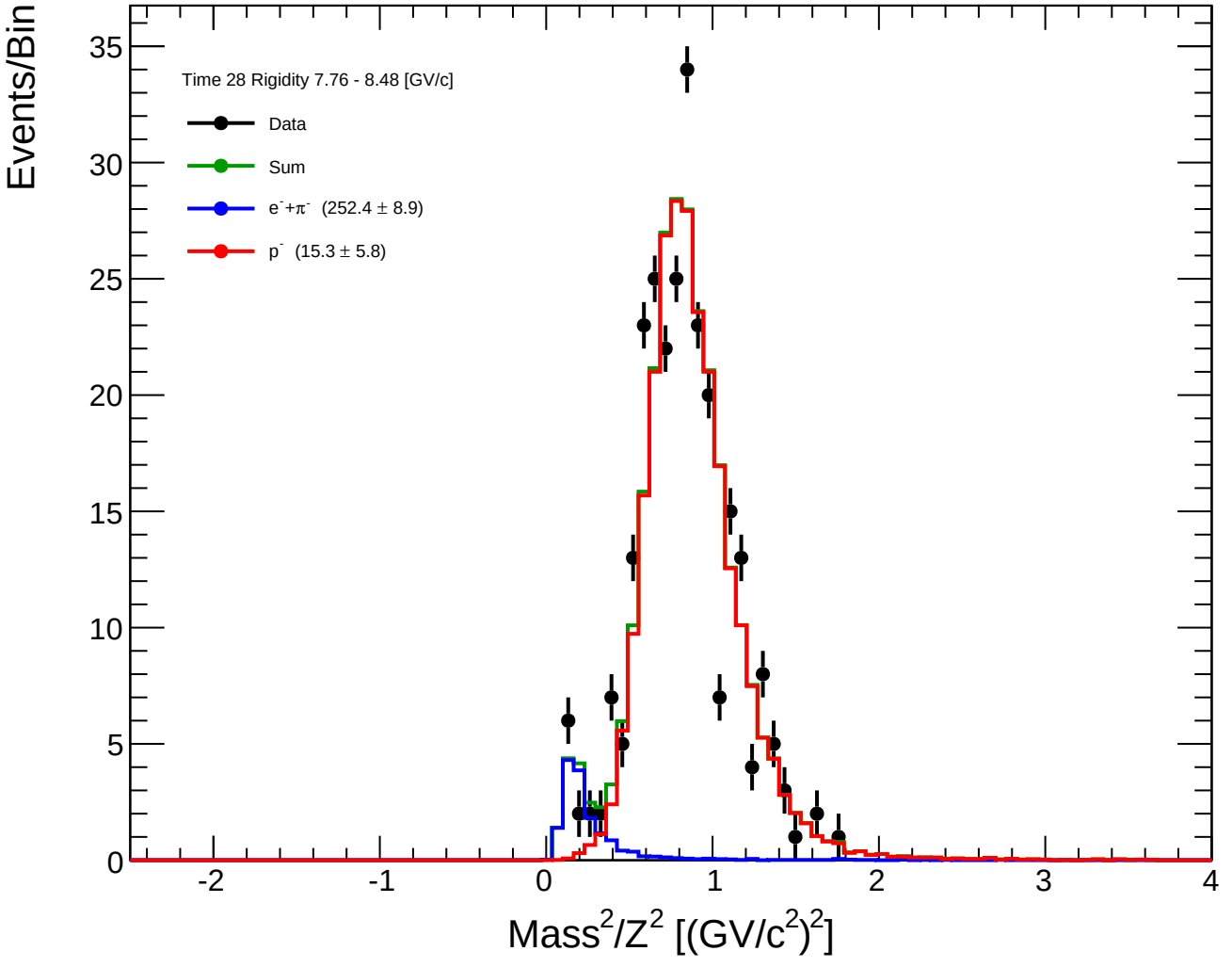

Time 28 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (346.3 ± 12.9)
p⁻ (20.0 ± 16.6)
Events/Bin
0
10
20
30
40
50
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

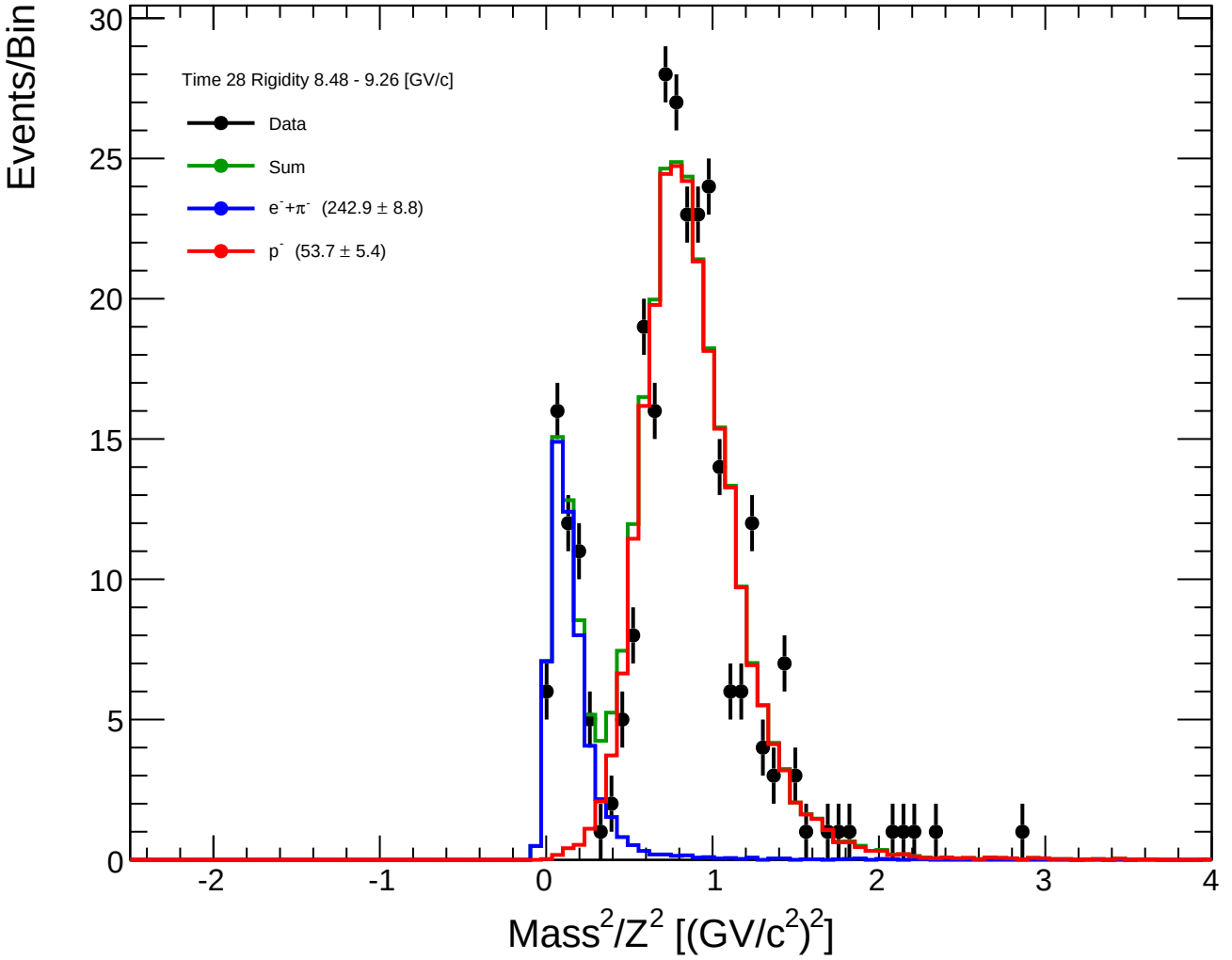

Time 28 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (241.8 ± 8.0)
p⁻ (0.0 ± 9.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

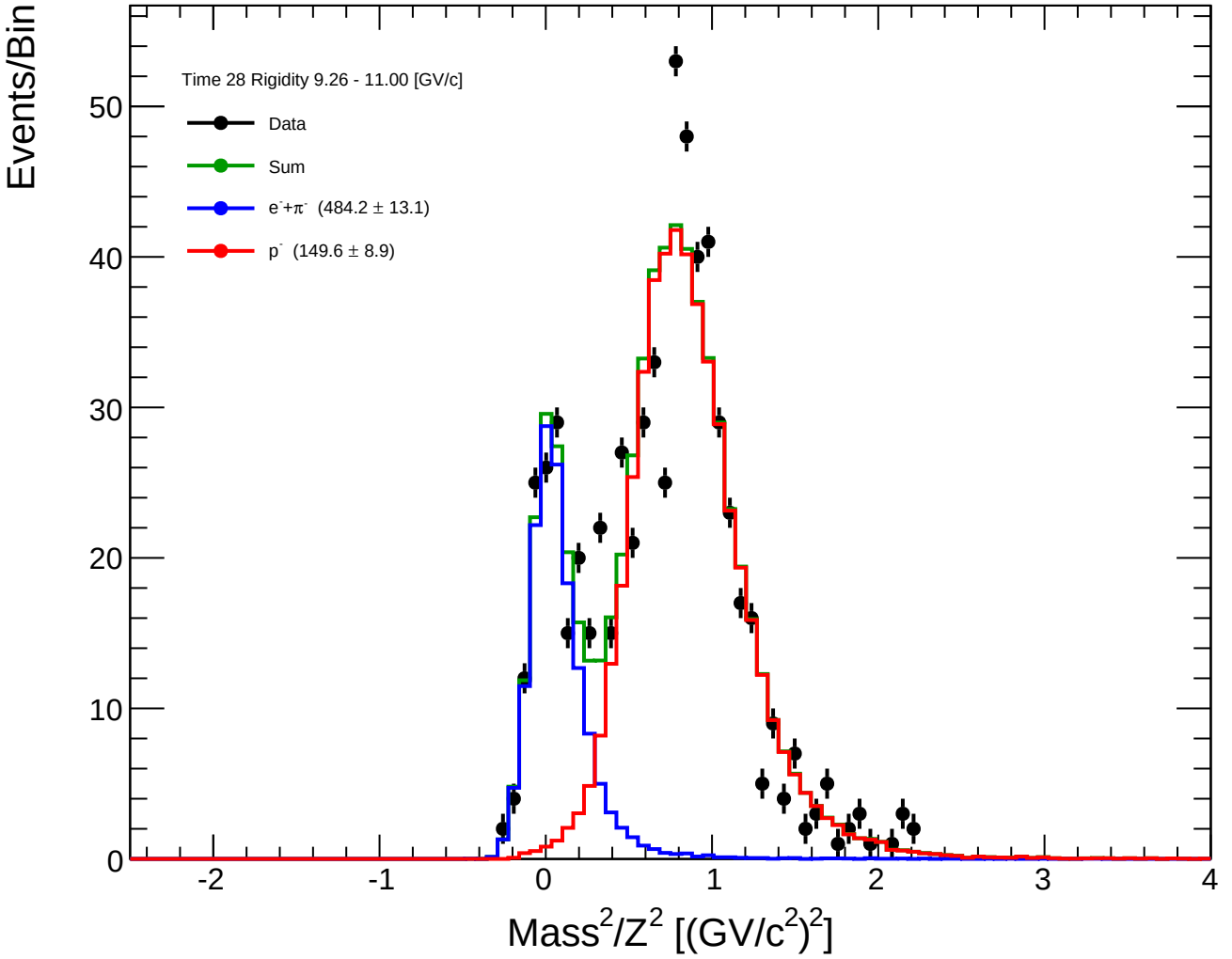

Time 28 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (269.8 ± 8.4)
p⁻ (0.0 ± 9.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

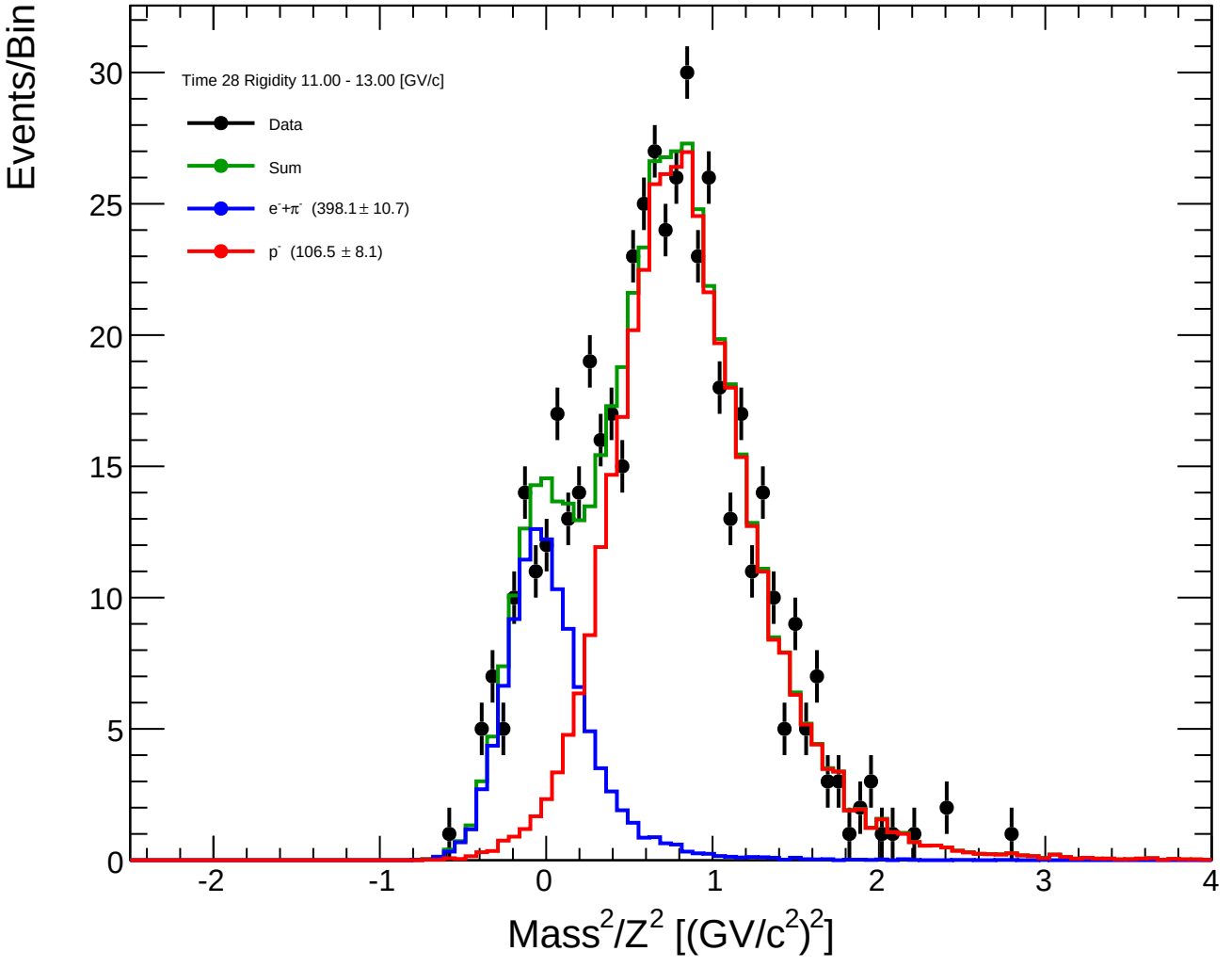

Time 28 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (250.8 ± 9.2)
p⁻ (4.3 ± 9.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

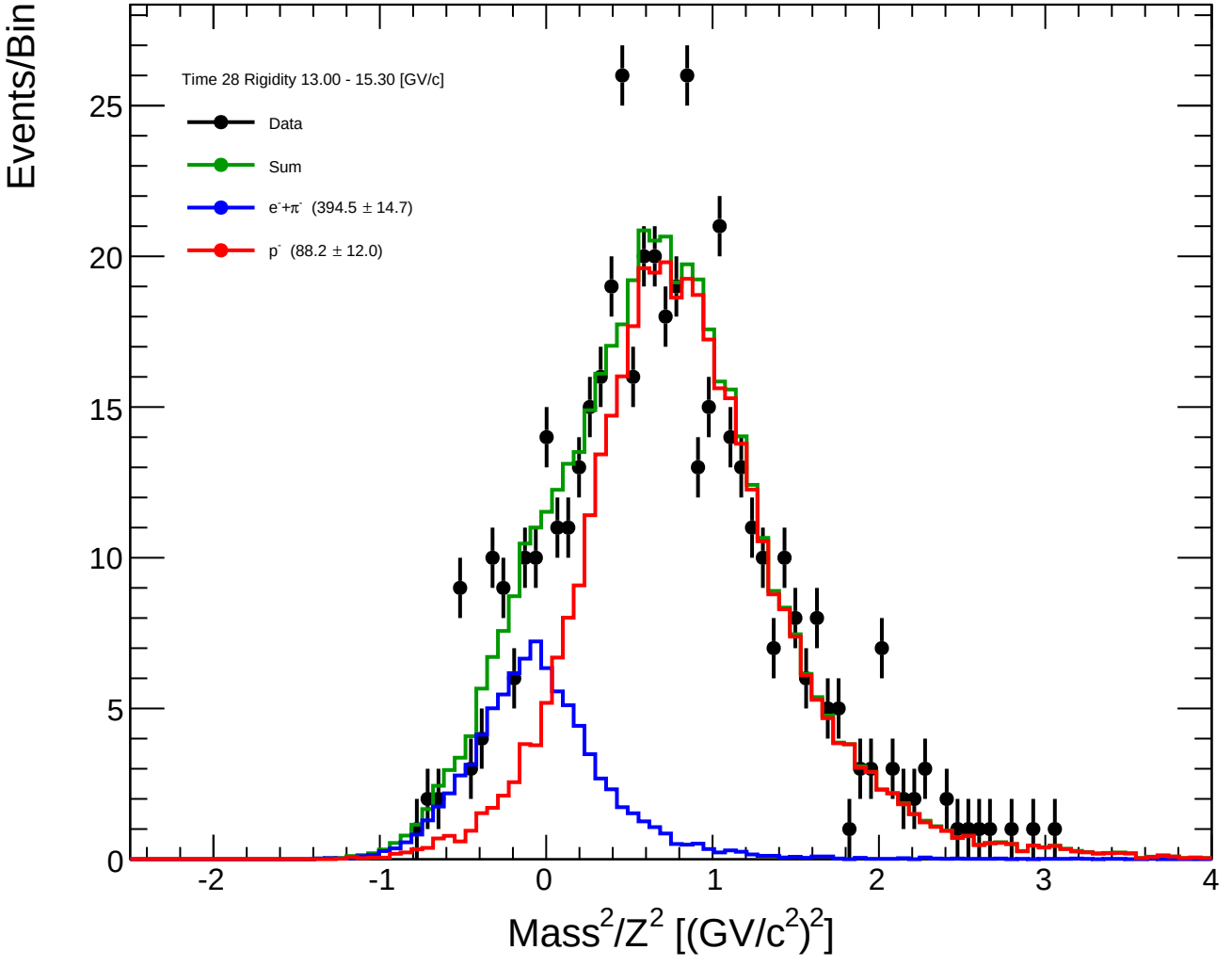

Time 28 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (282.8 ± 9.0)
p⁻ (7.2 ± 7.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

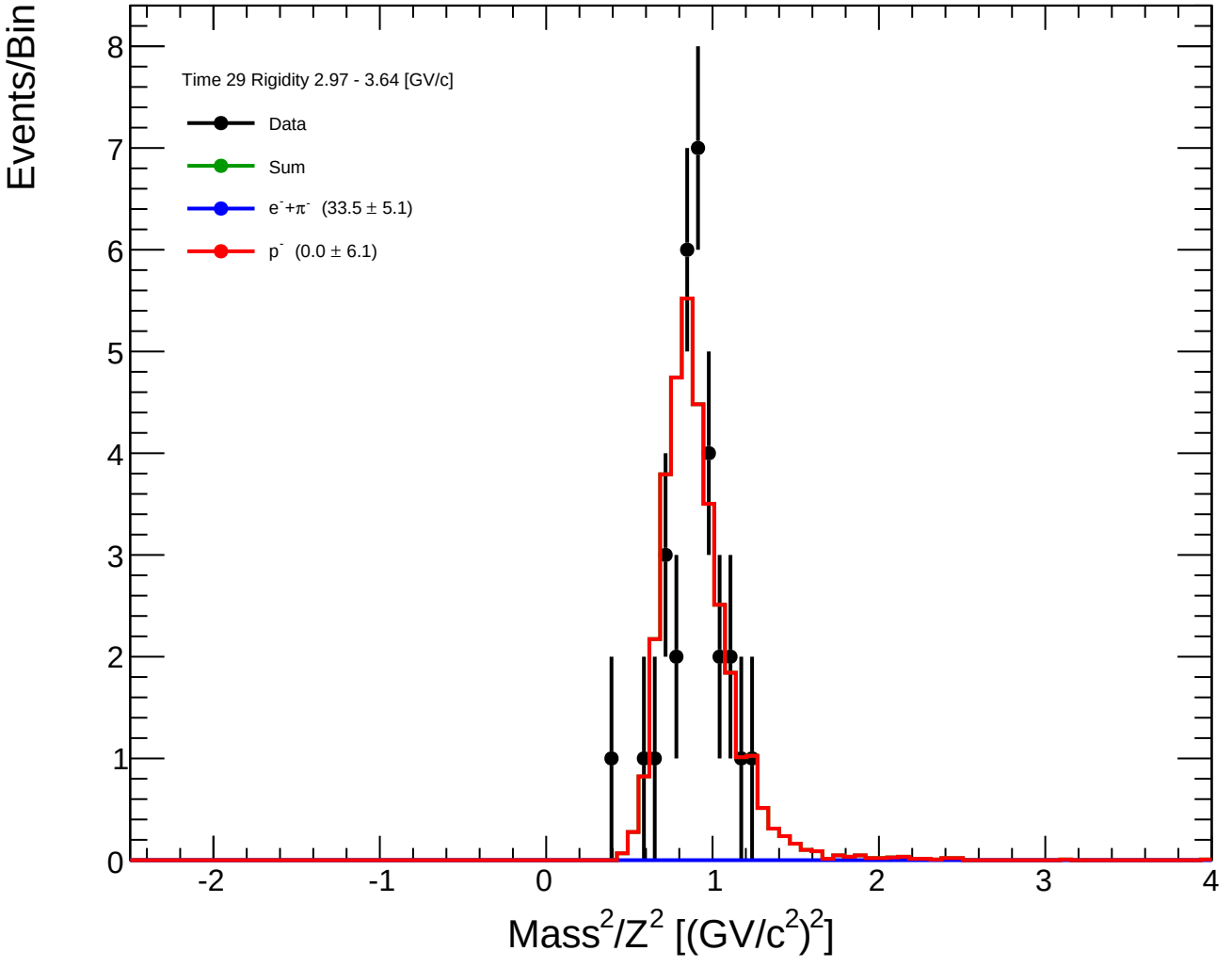

Time 28 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (252.4 ± 8.9)
p⁻ (15.3 ± 5.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

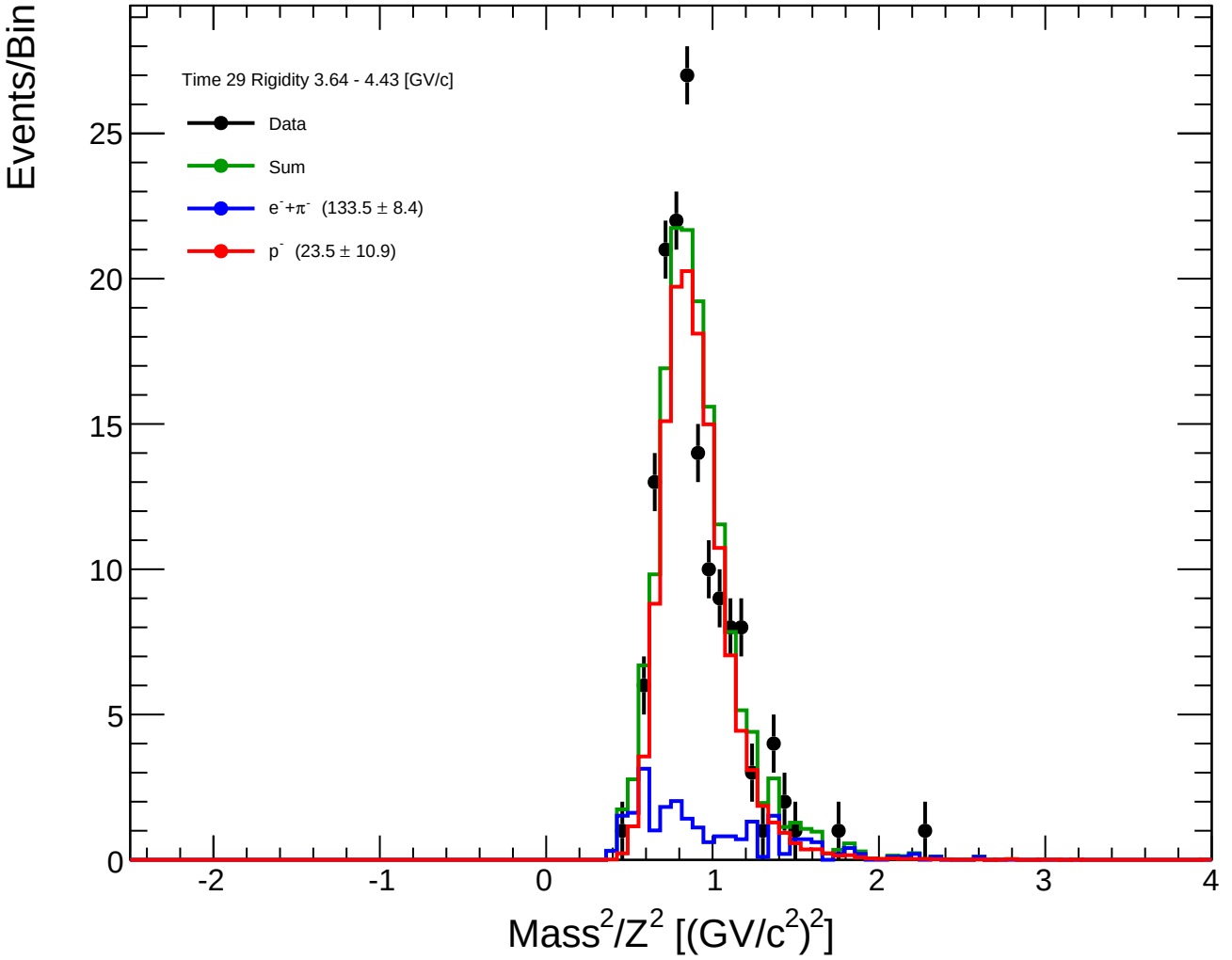

Time 28 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (242.9 ± 8.8)
p⁻ (53.7 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

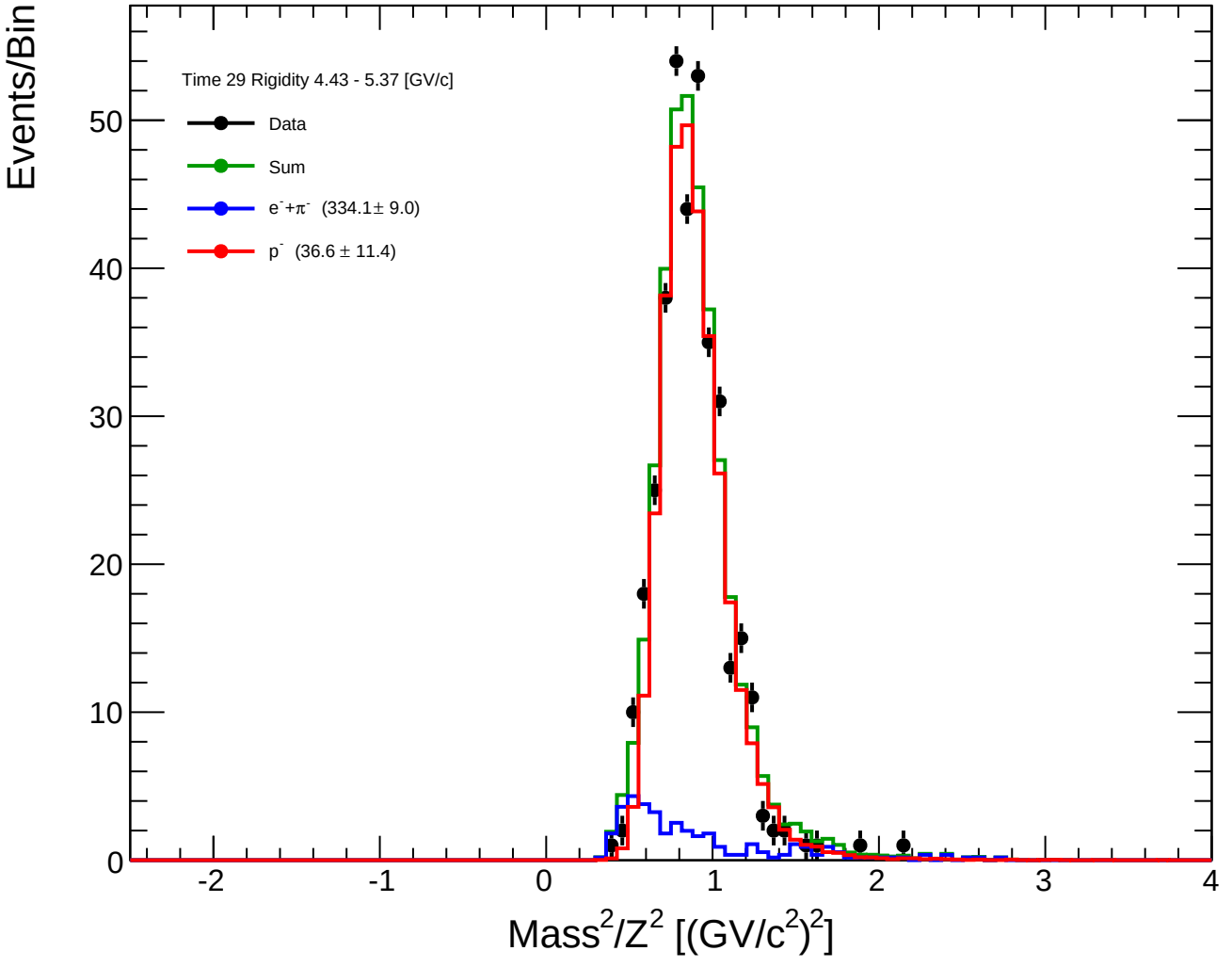

Time 28 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (484.2 ± 13.1)
p⁻ (149.6 ± 8.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

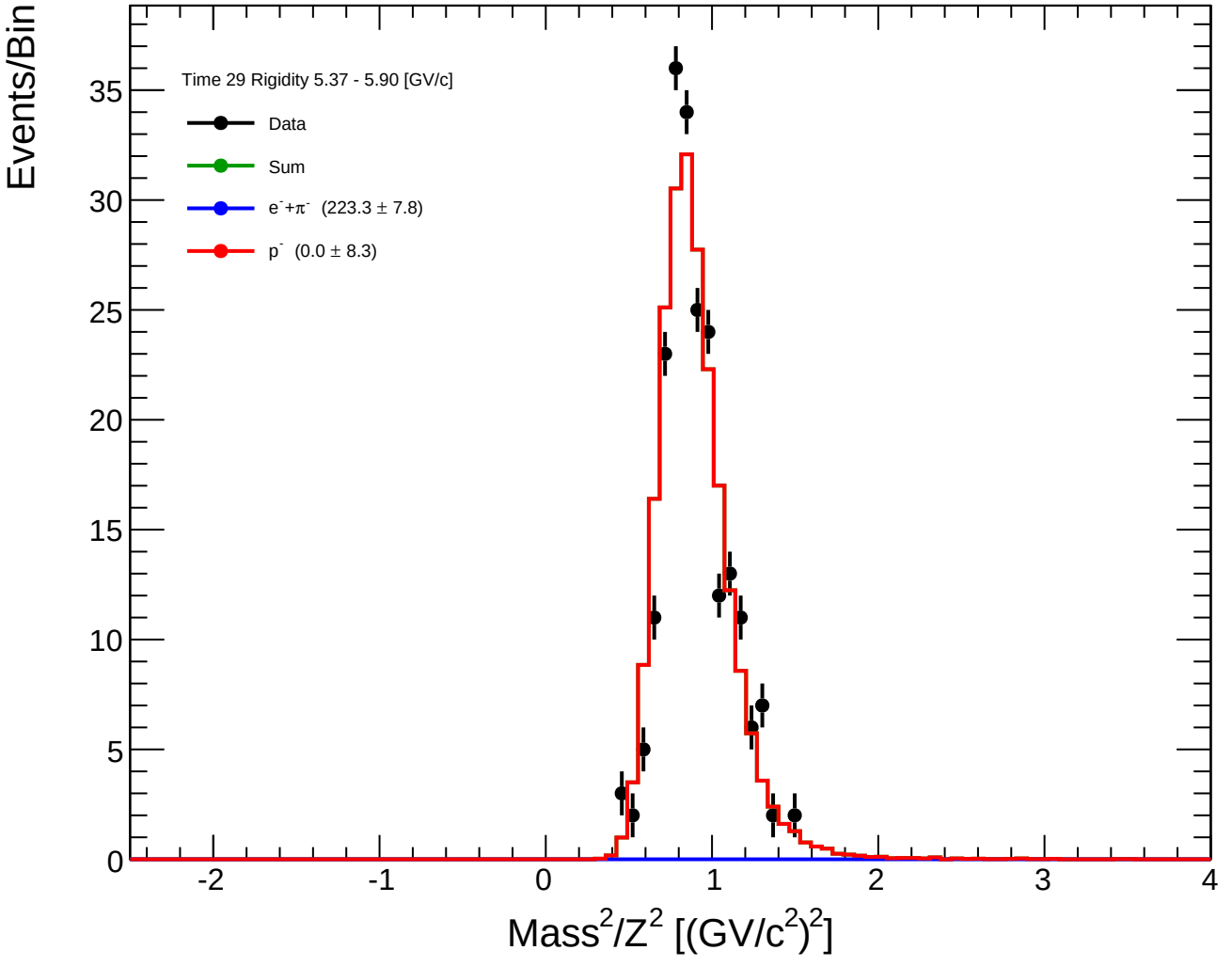

Time 28 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (398.1 ± 10.7)
p⁻ (106.5 ± 8.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

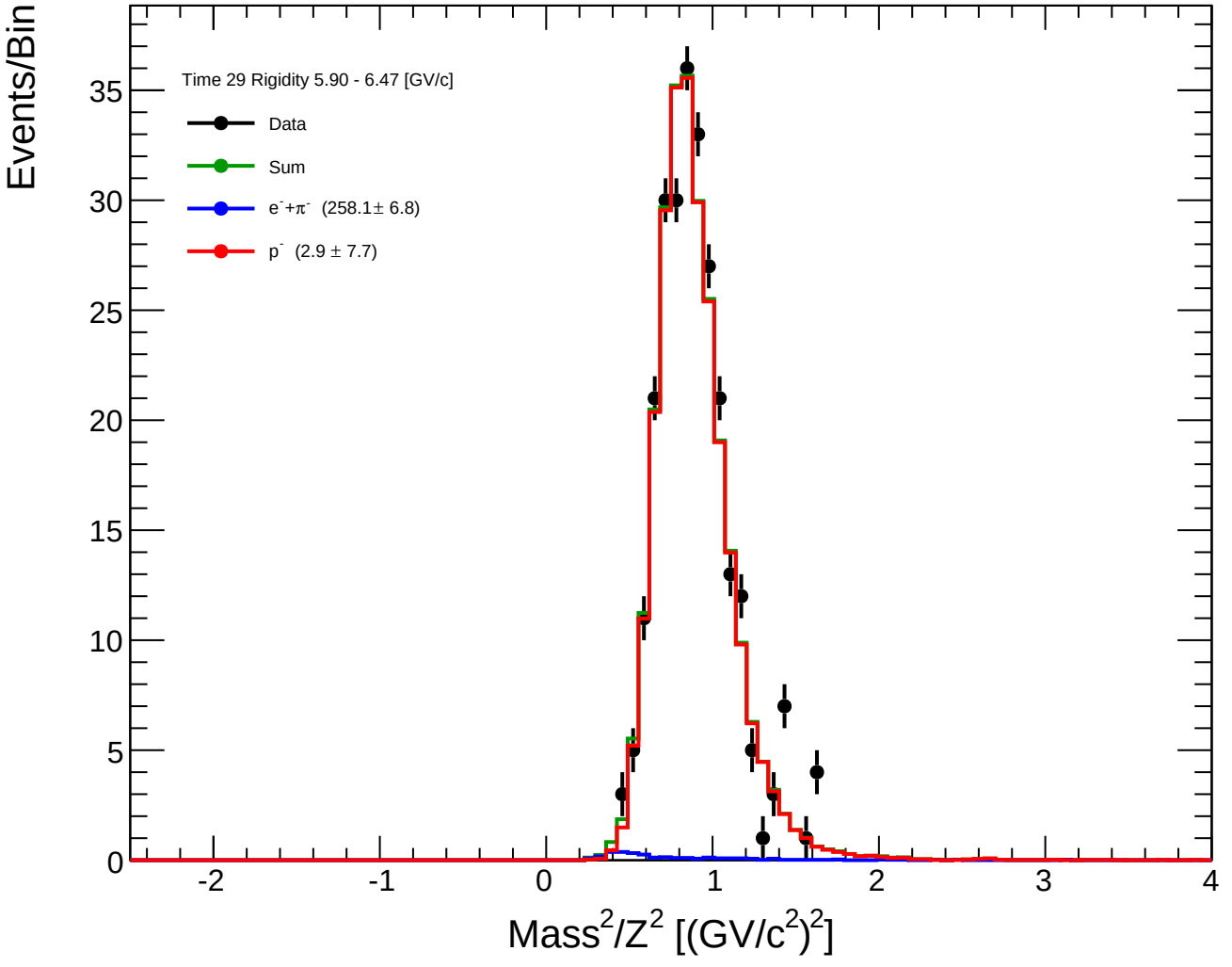

Time 28 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (394.5 ± 14.7)
p⁻ (88.2 ± 12.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

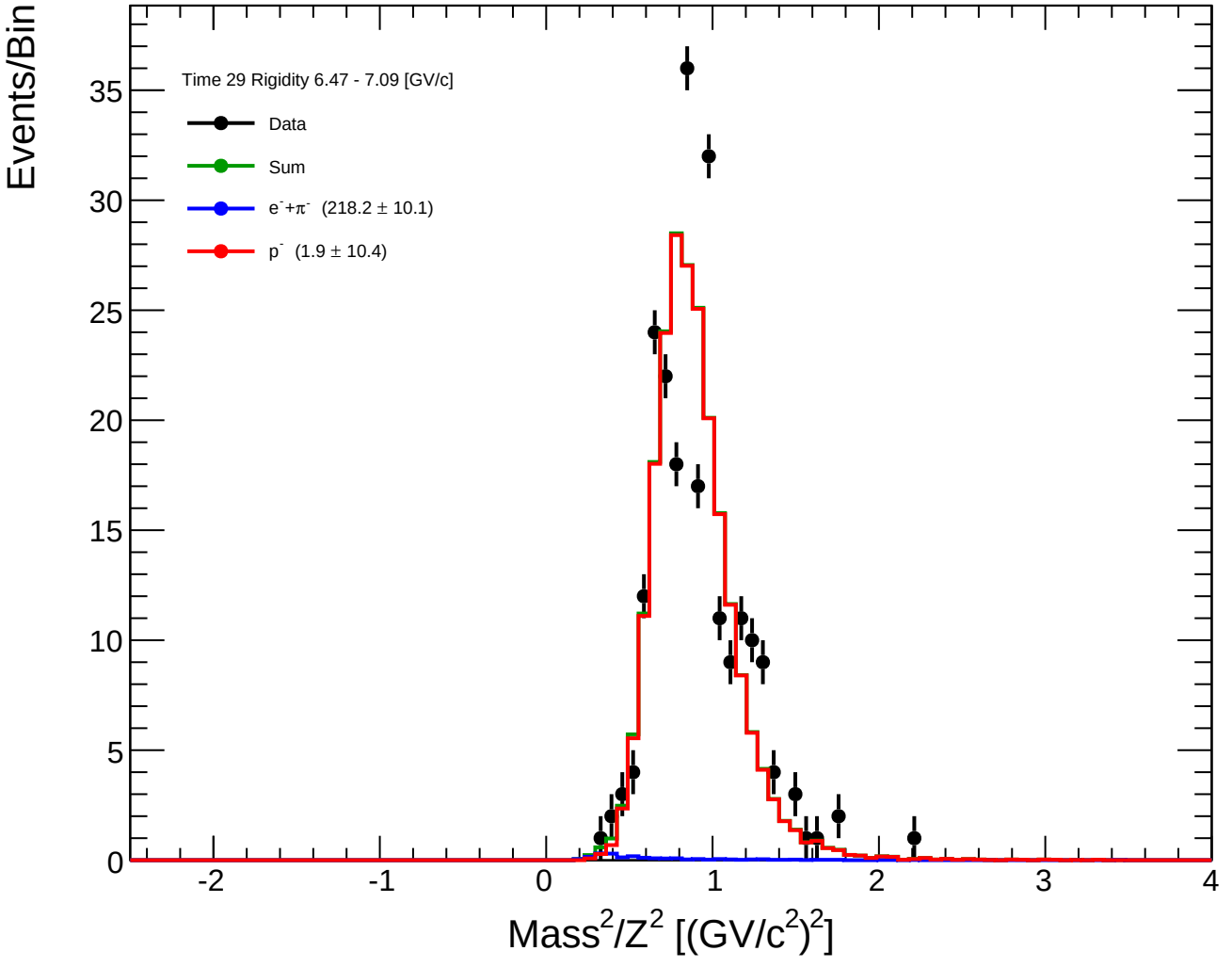

Time 29 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (33.5 ± 5.1)
p⁻ (0.0 ± 6.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
1
2
3
4
5
6
7
8
-2
-1
0
1
2
3
4

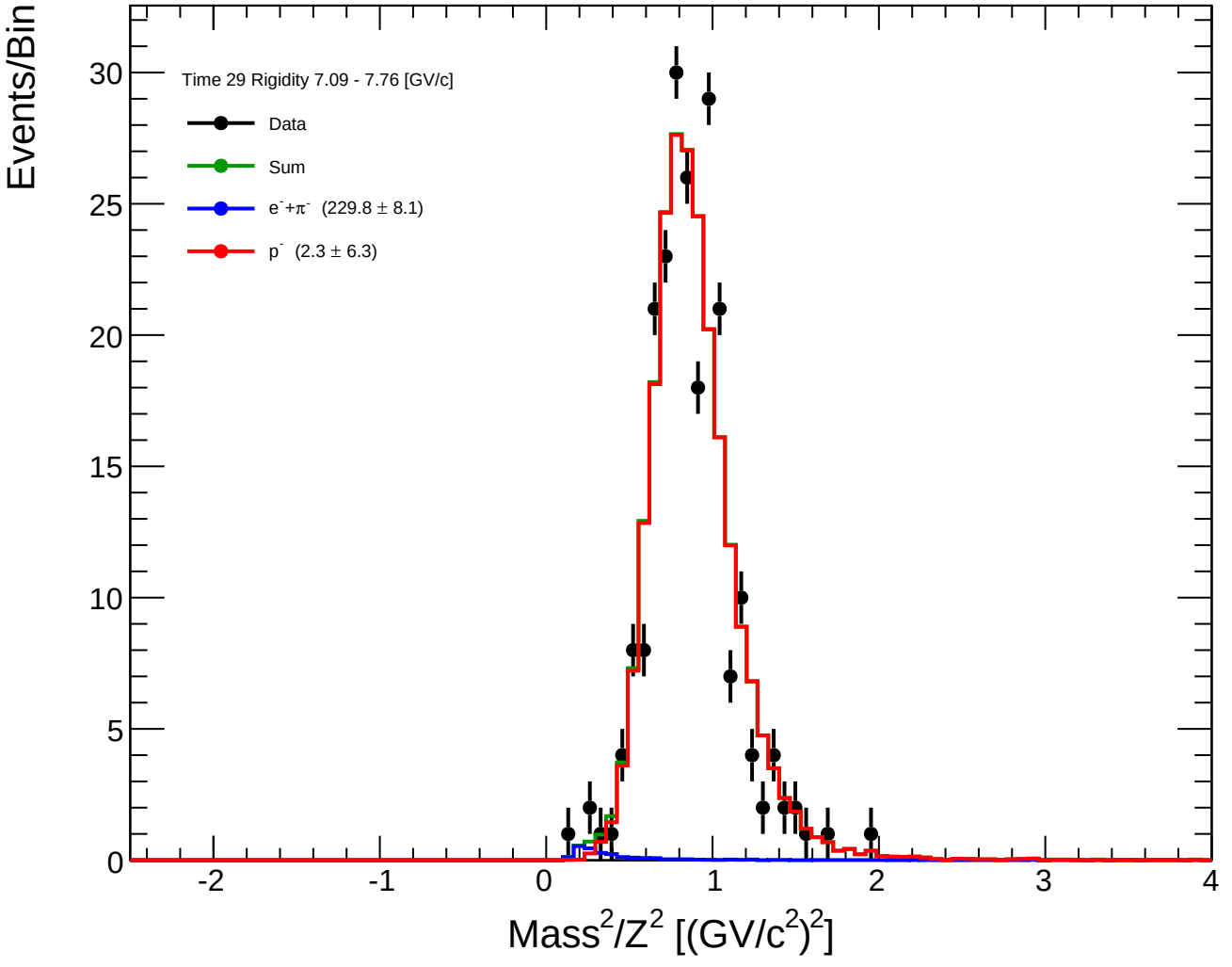

Time 29 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (133.5 ± 8.4)
p⁻ (23.5 ± 10.9)
Events/Bin
0
5
10
15
20
25
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

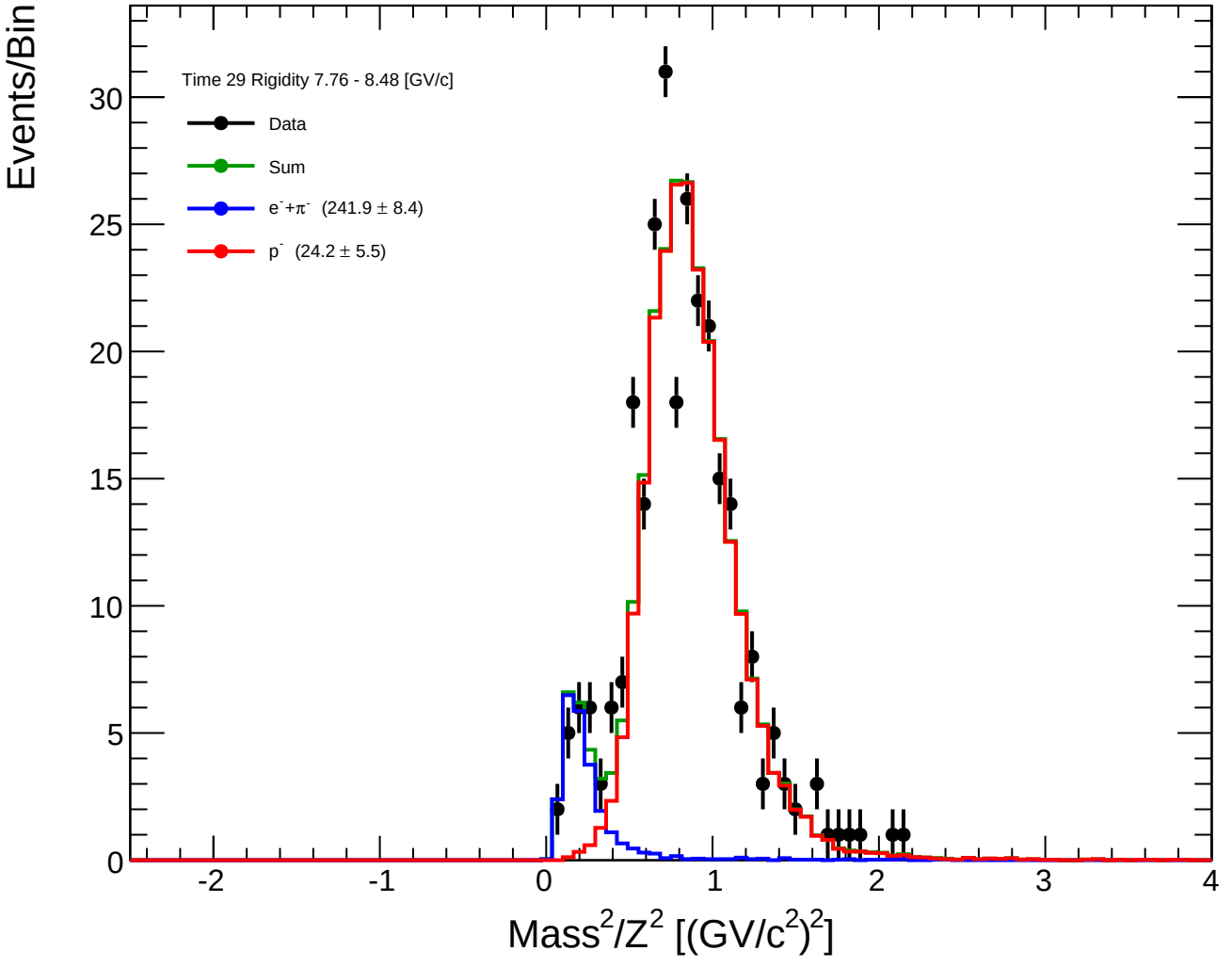

Time 29 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (334.1± 9.0)
p⁻ (36.6 ± 11.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

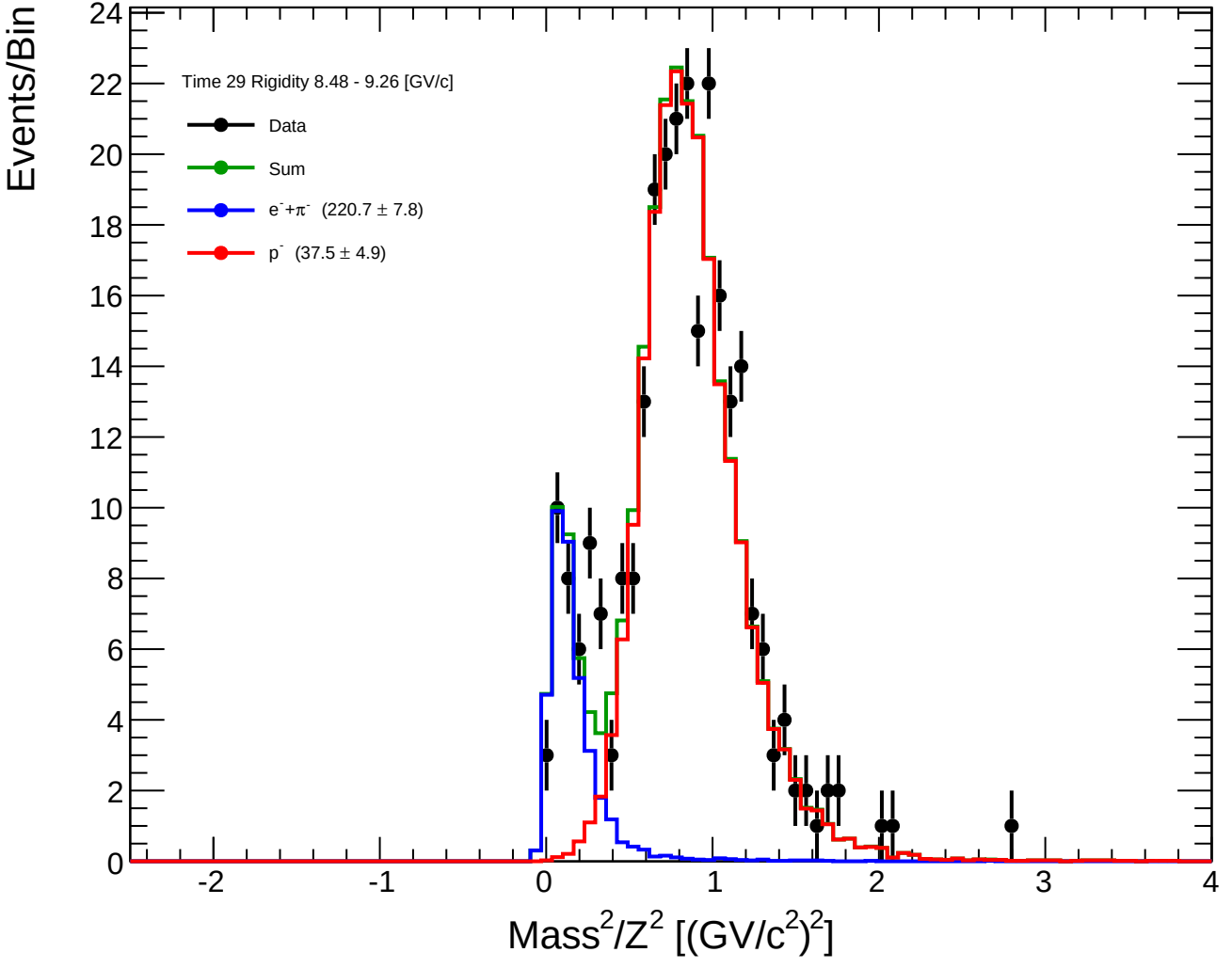

Time 29 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (223.3 ± 7.8)
p⁻ (0.0 ± 8.3)
Events/Bin
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

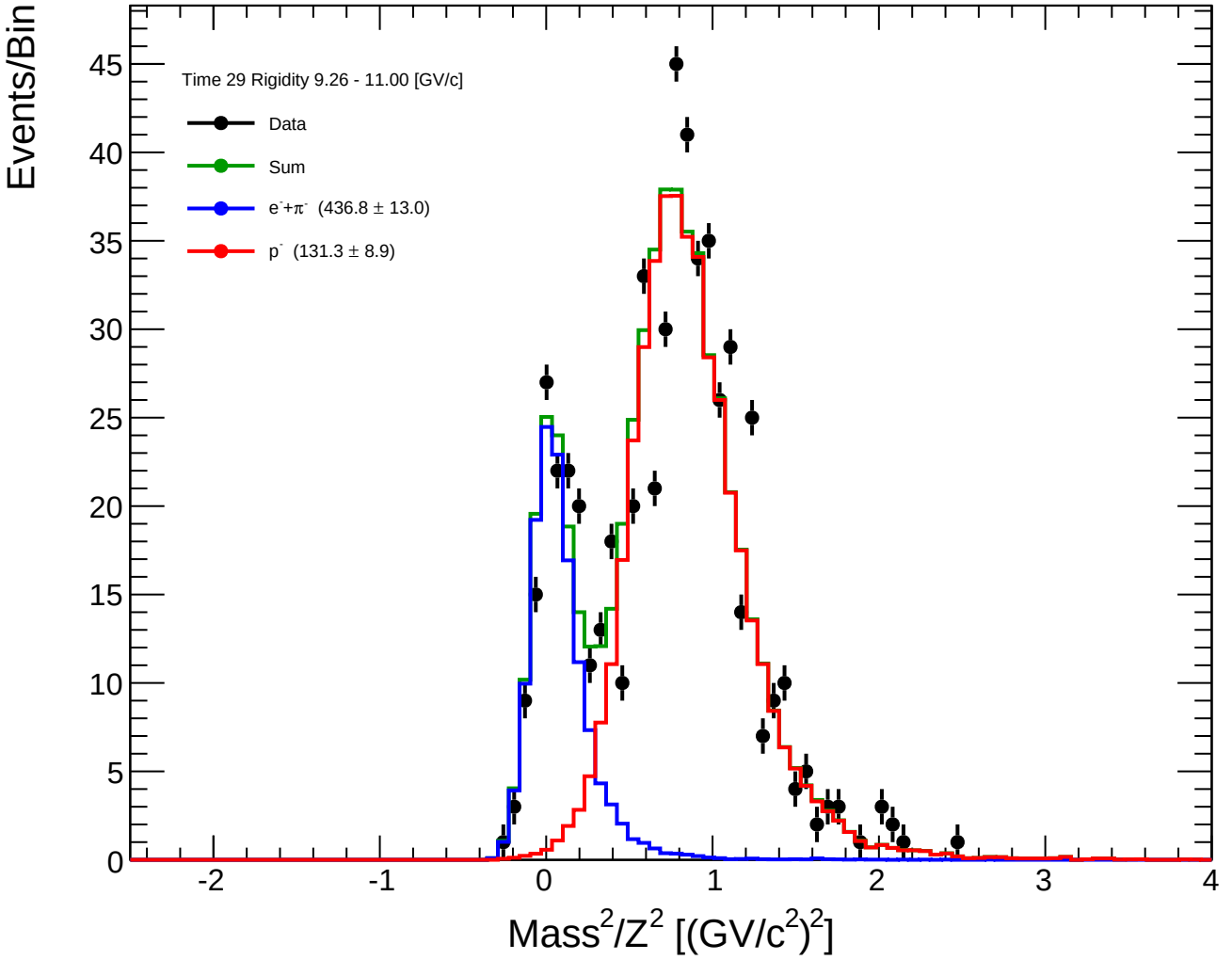

Time 29 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (258.1± 6.8)
p⁻ (2.9 ± 7.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

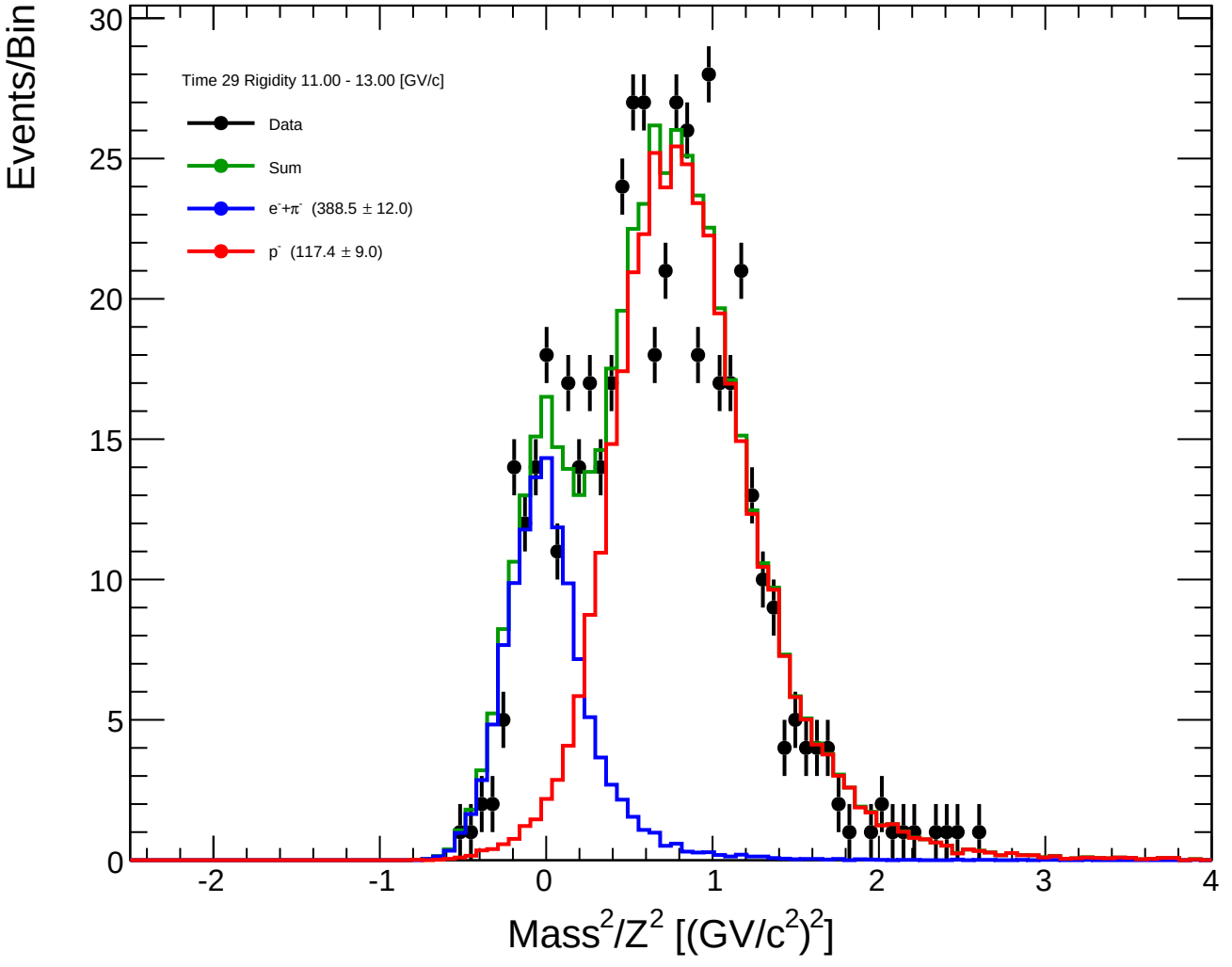

Time 29 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (218.2 ± 10.1)
p⁻ (1.9 ± 10.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

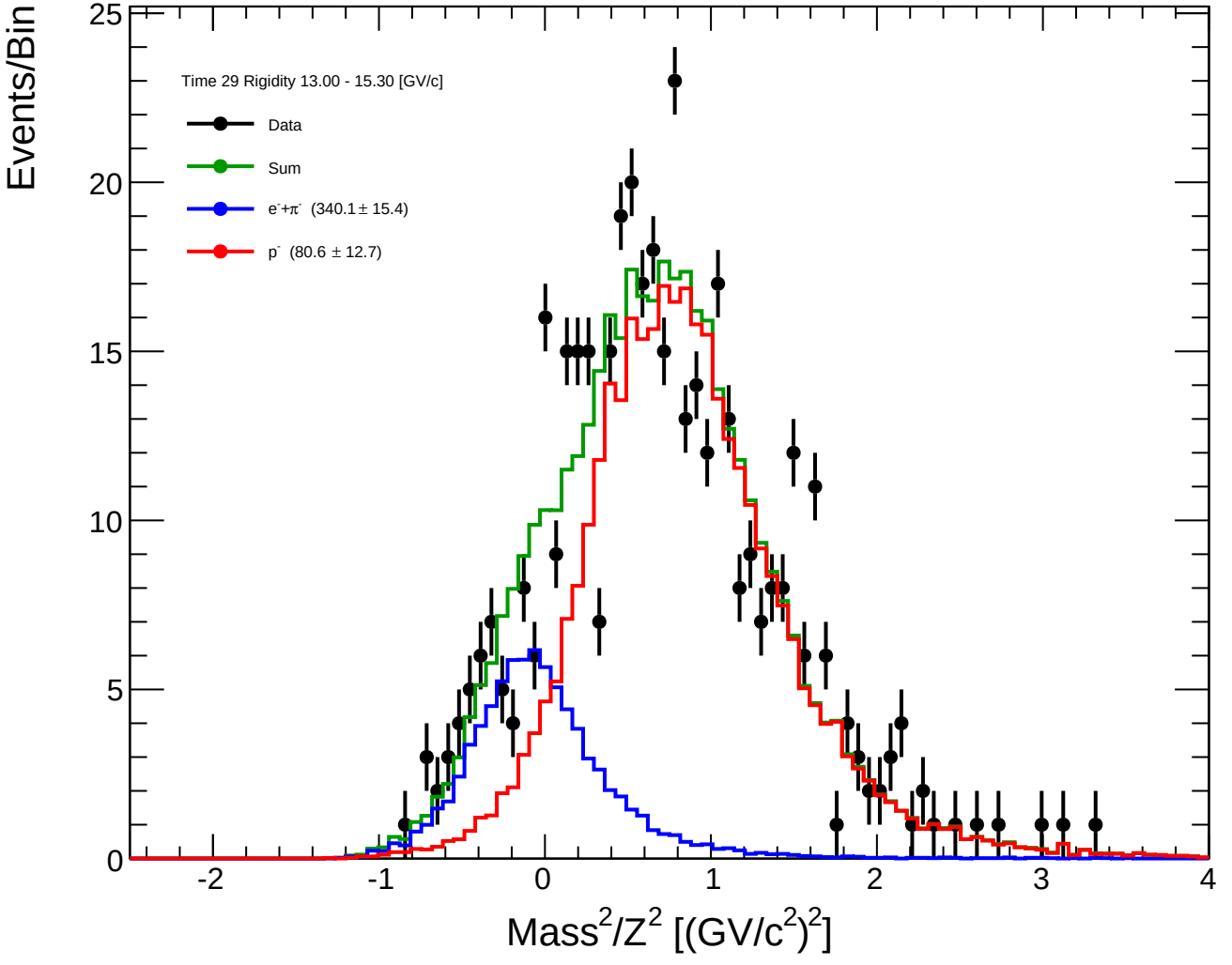

Time 29 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (229.8 ± 8.1)
p⁻ (2.3 ± 6.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

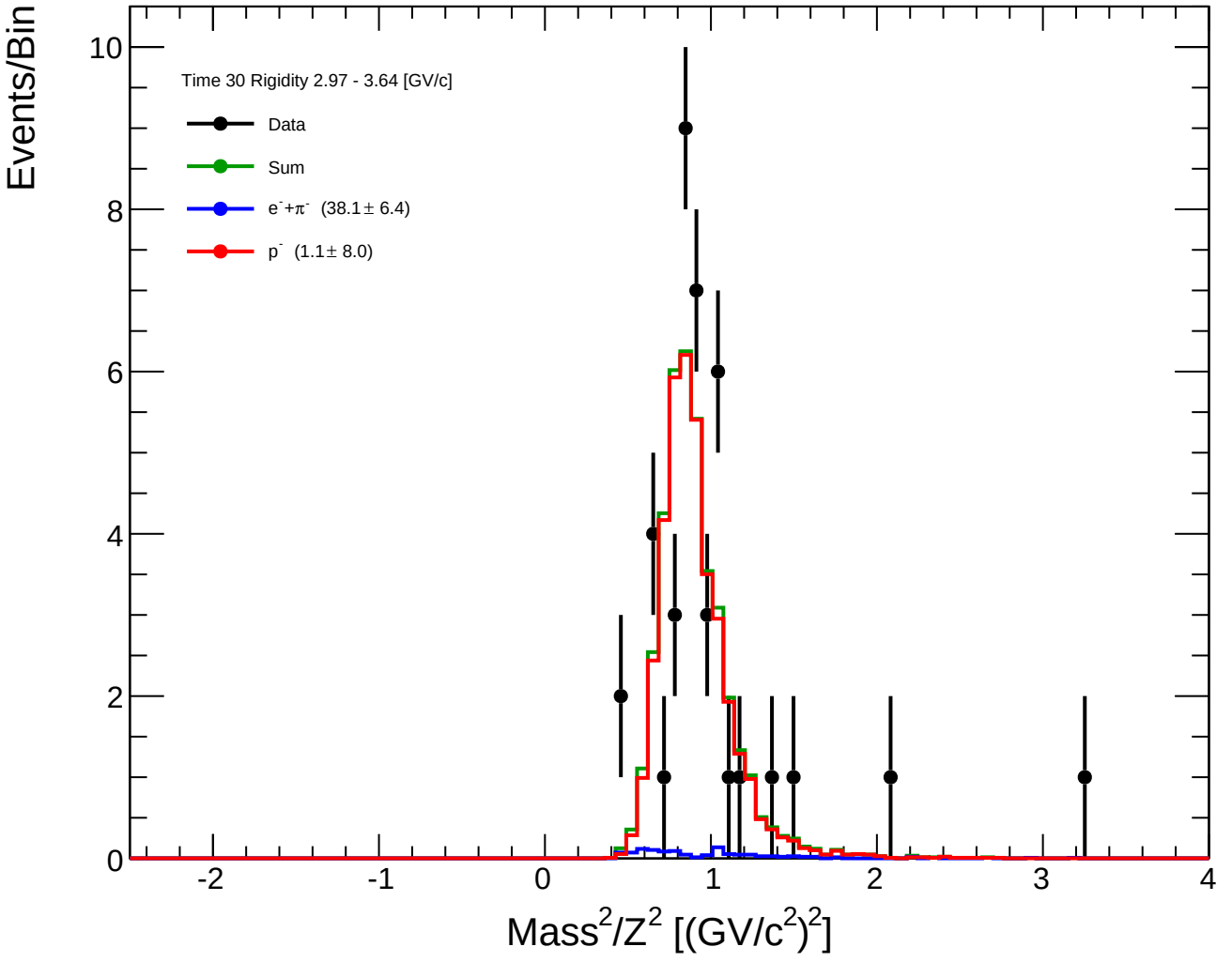

Time 29 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (241.9 ± 8.4)
p⁻ (24.2 ± 5.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

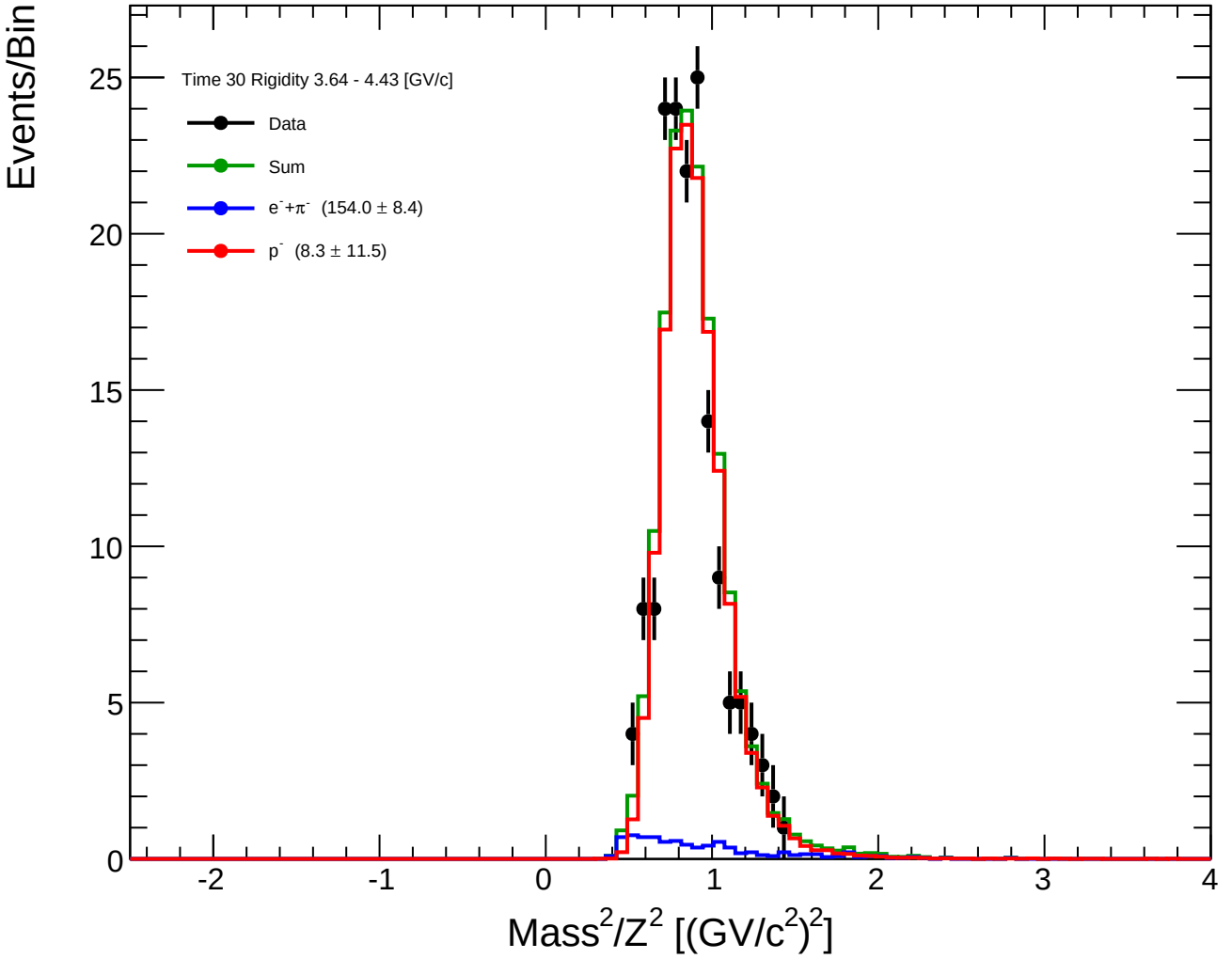

Time 29 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (220.7 ± 7.8)
p⁻ (37.5 ± 4.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
22
24
-2
-1
0
1
2
3
4

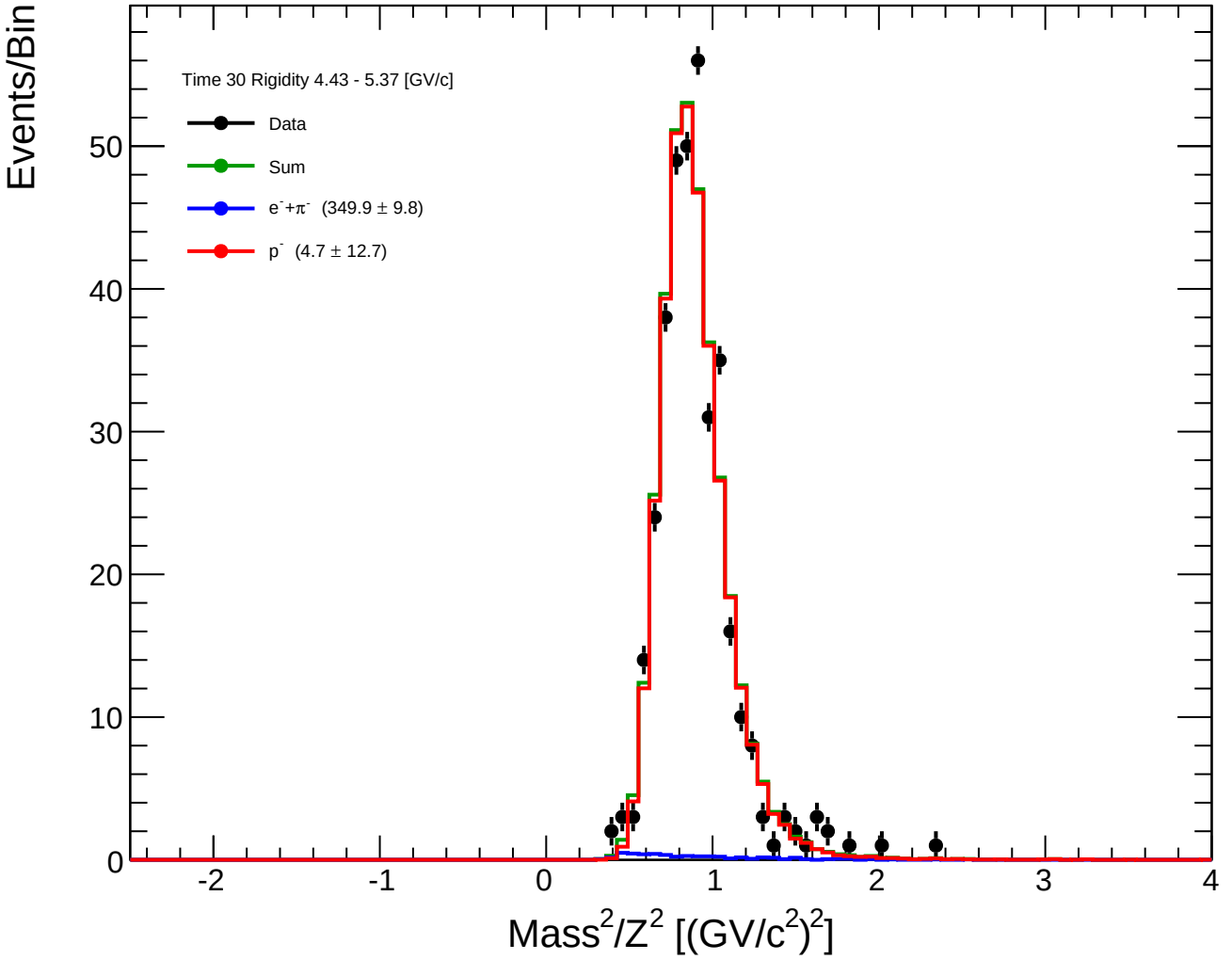

Time 29 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (436.8 ± 13.0)
p⁻ (131.3 ± 8.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

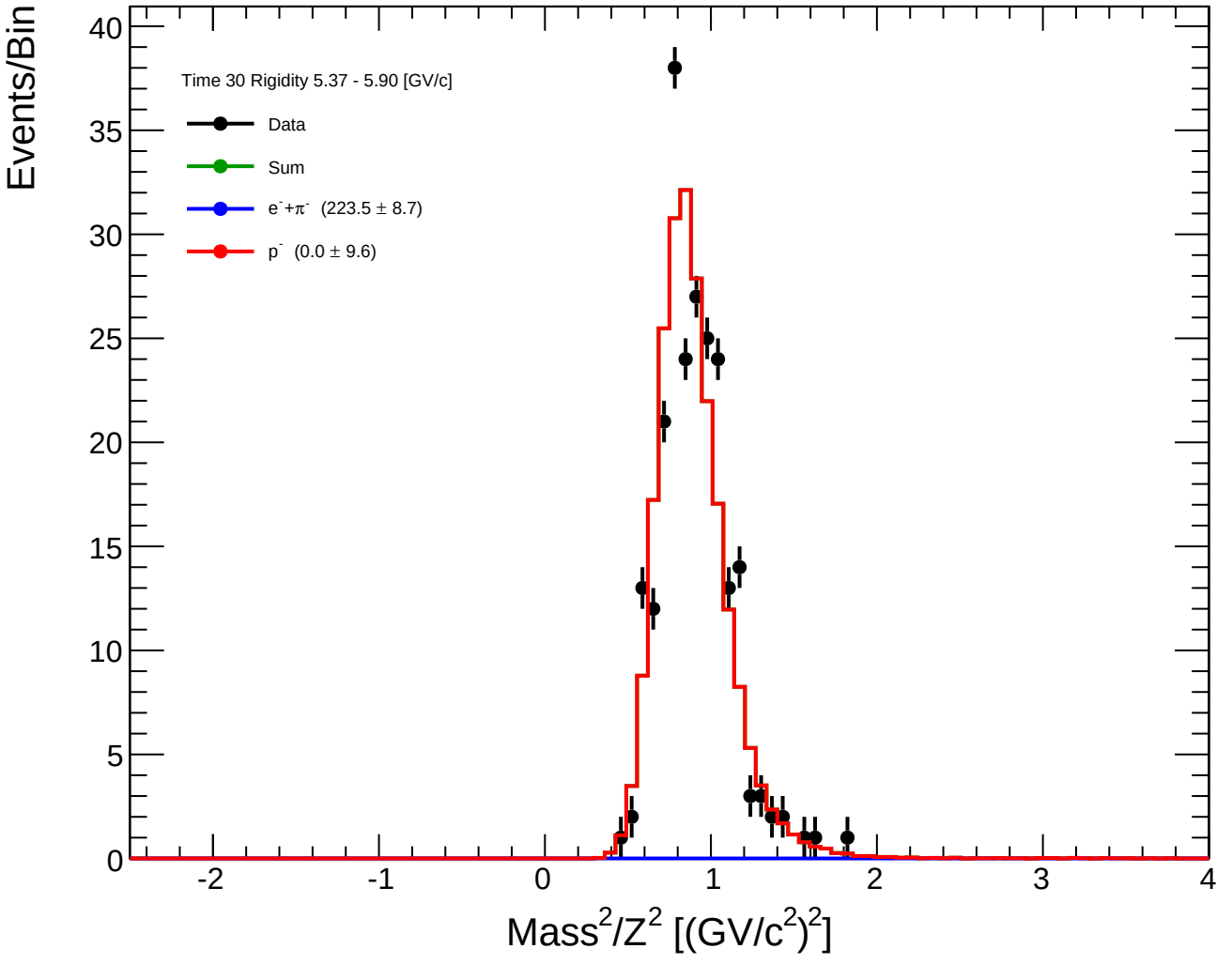

Time 29 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (388.5 ± 12.0)
p⁻ (117.4 ± 9.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

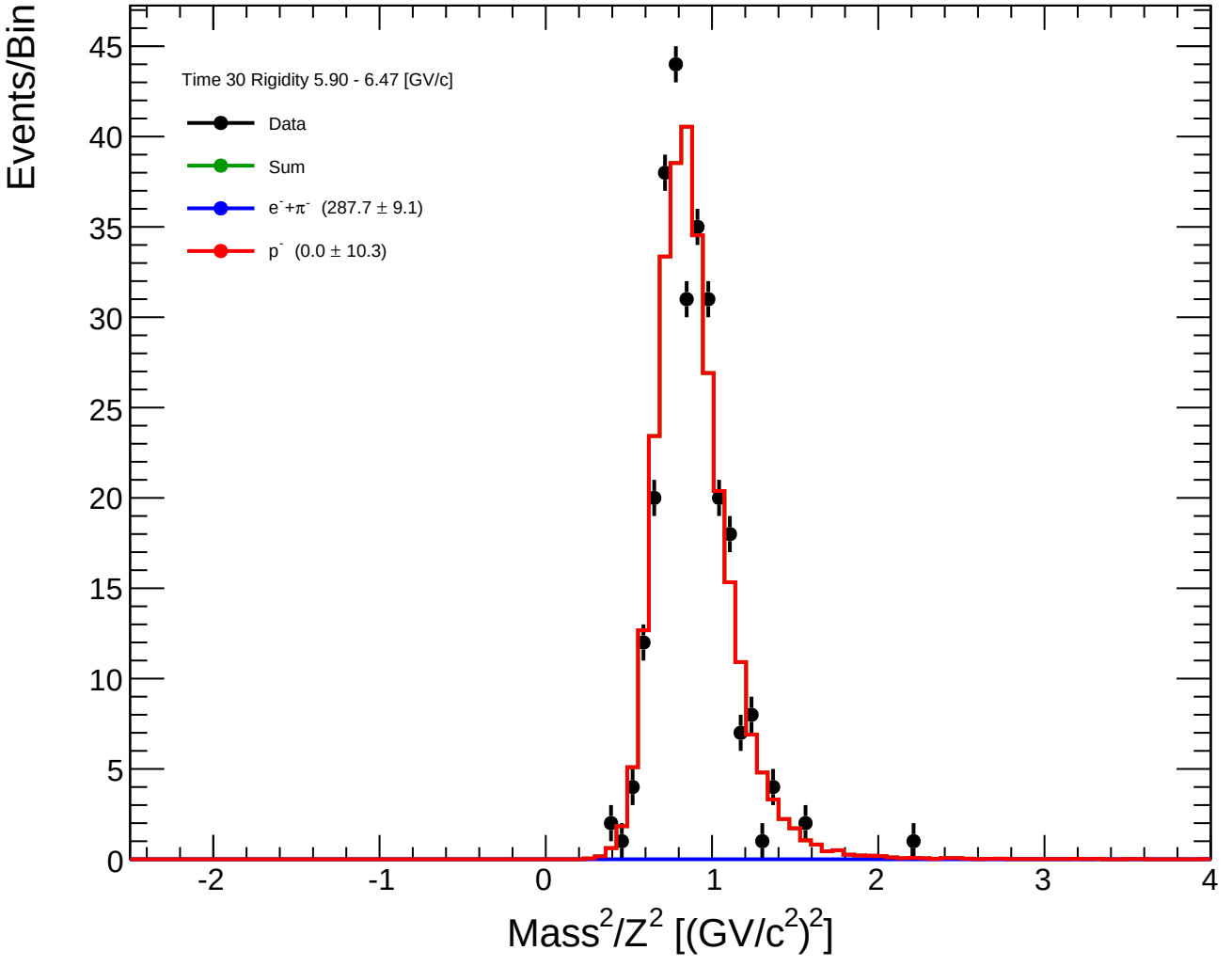

Time 29 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (340.1 ± 15.4)
p⁻ (80.6 ± 12.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

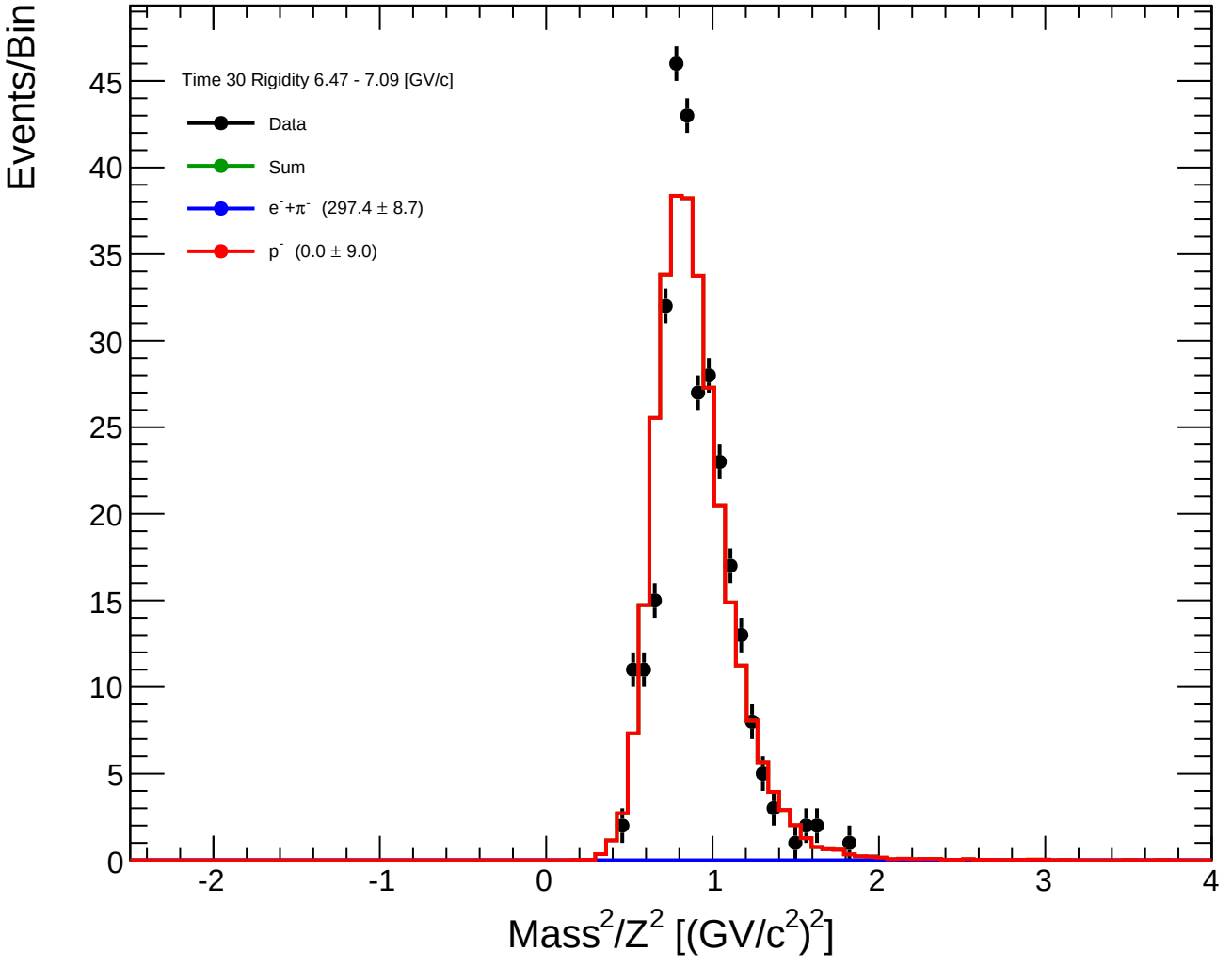

Events/Bin
Time 30 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (38.1± 6.4)
p⁻ (1.1± 8.0)
0
2
4
6
8
10
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

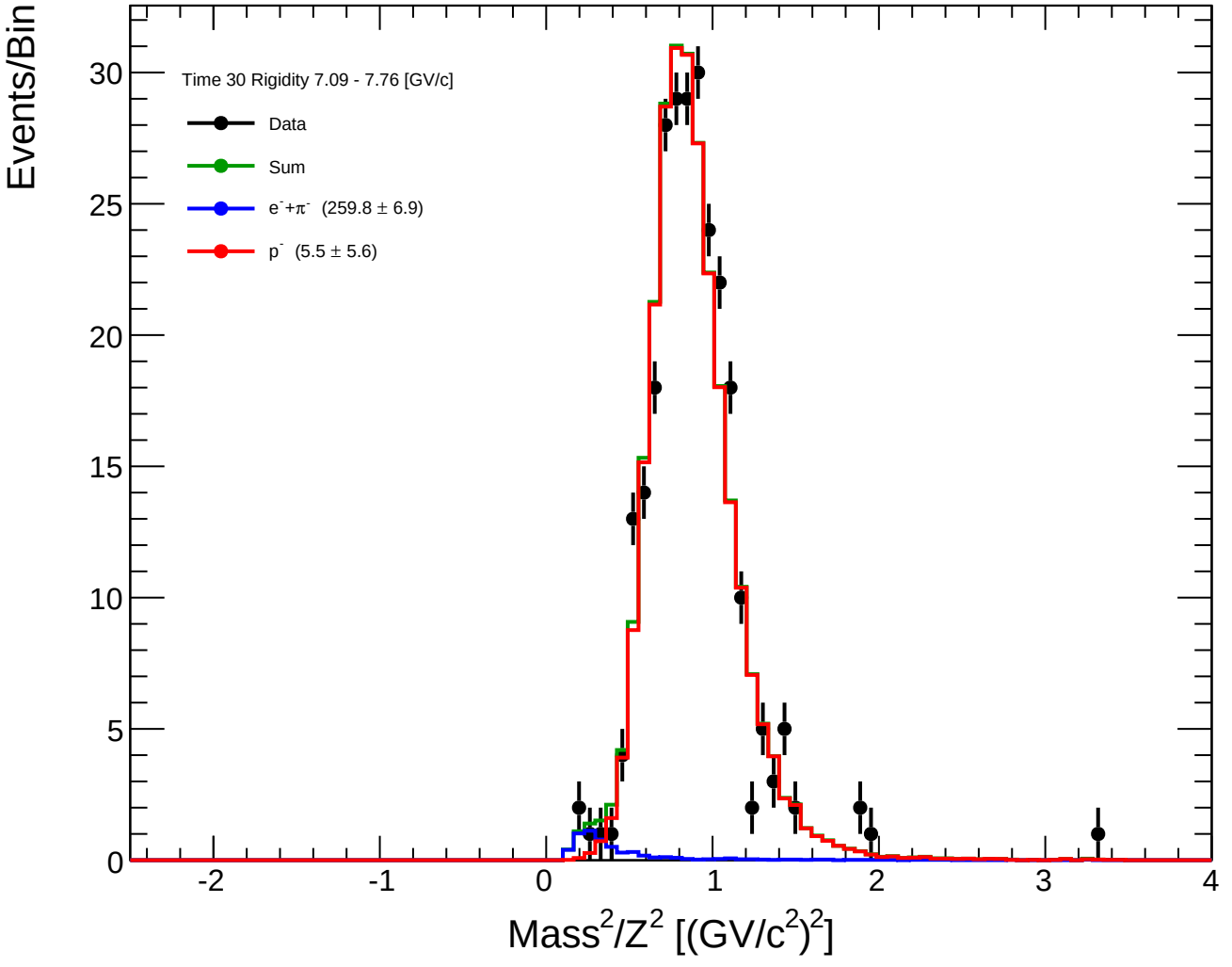

Time 30 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (154.0 ± 8.4)
p⁻ (8.3 ± 11.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

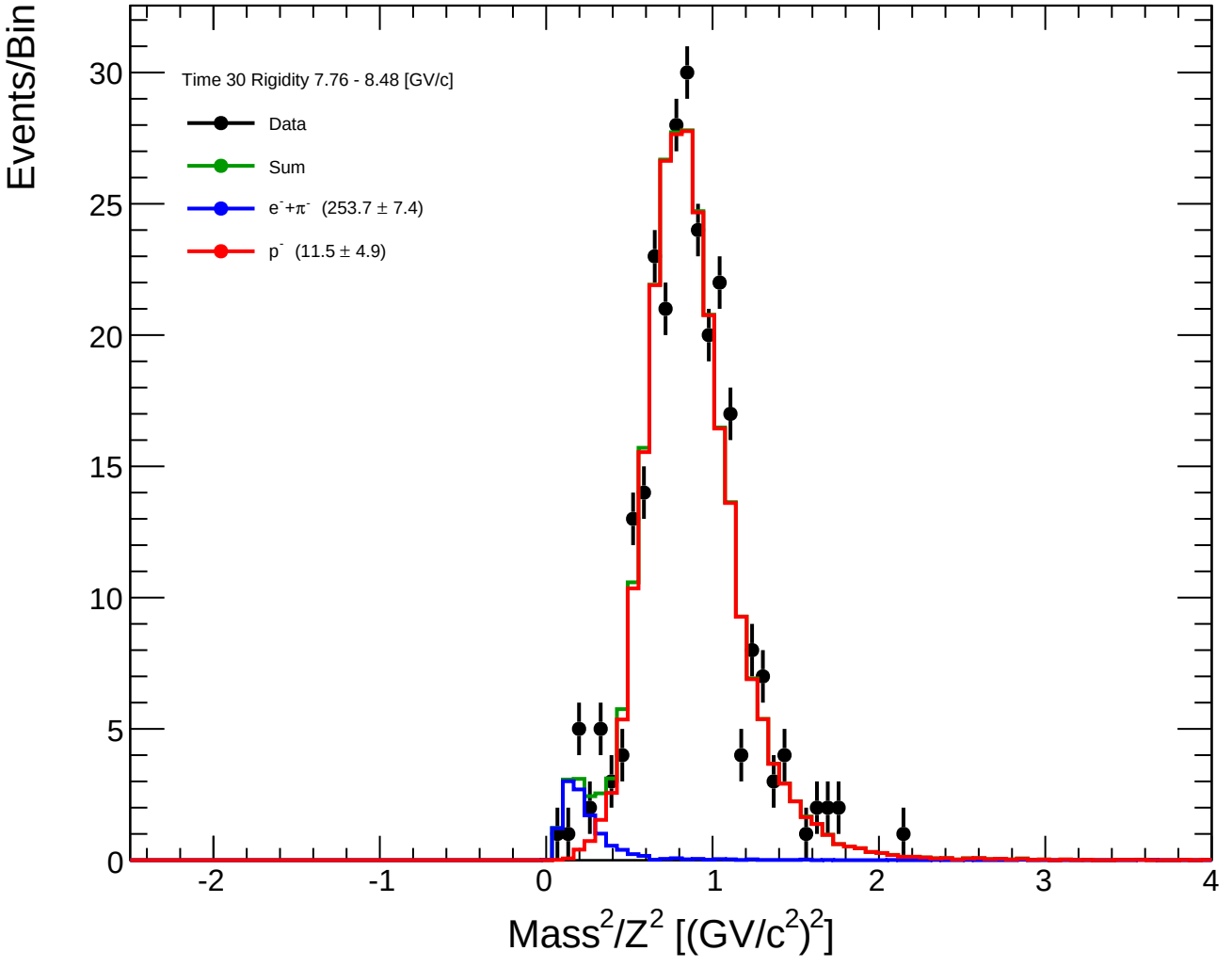

Time 30 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (349.9 ± 9.8)
p⁻ (4.7 ± 12.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

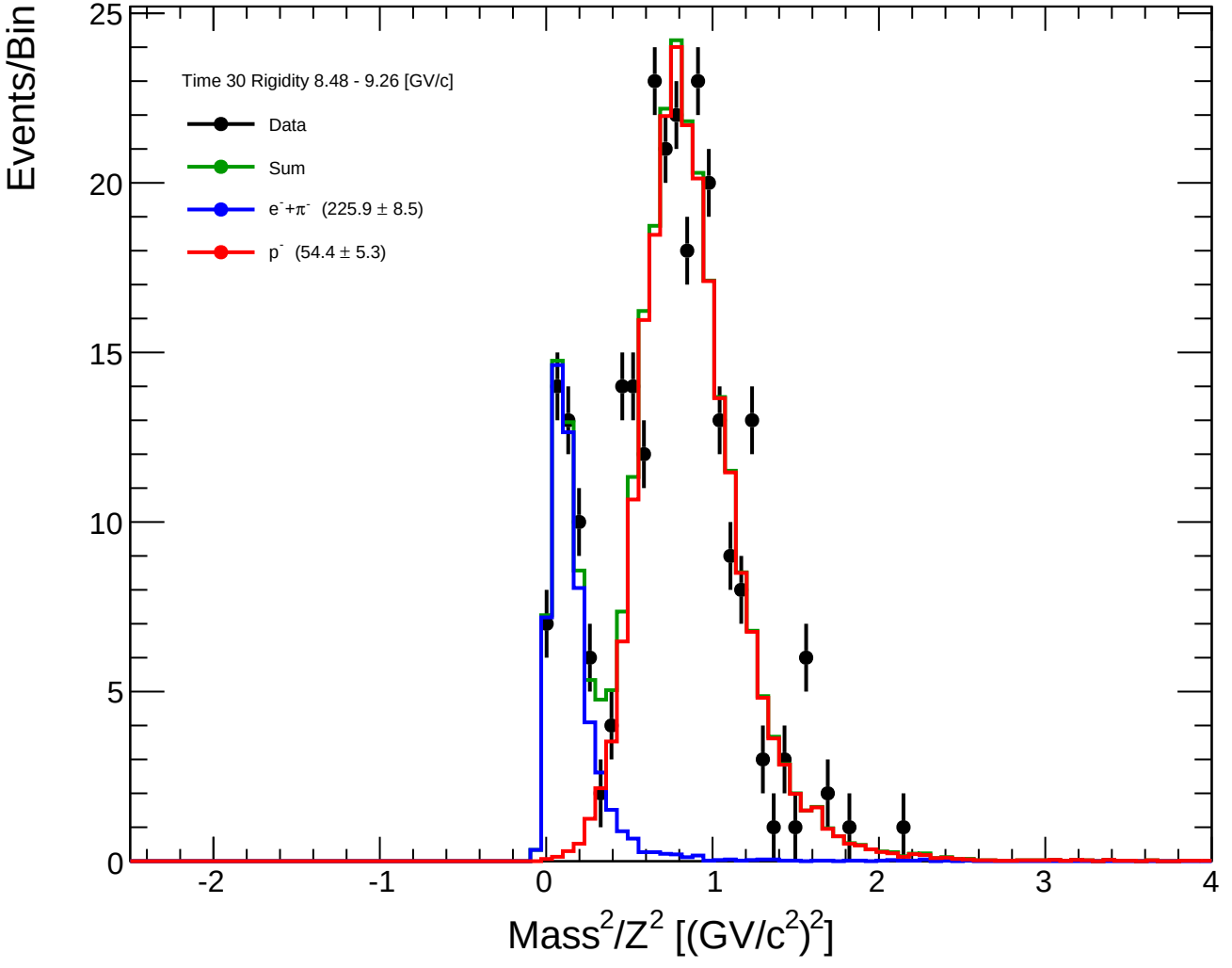

Time 30 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (223.5 ± 8.7)
p⁻ (0.0 ± 9.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

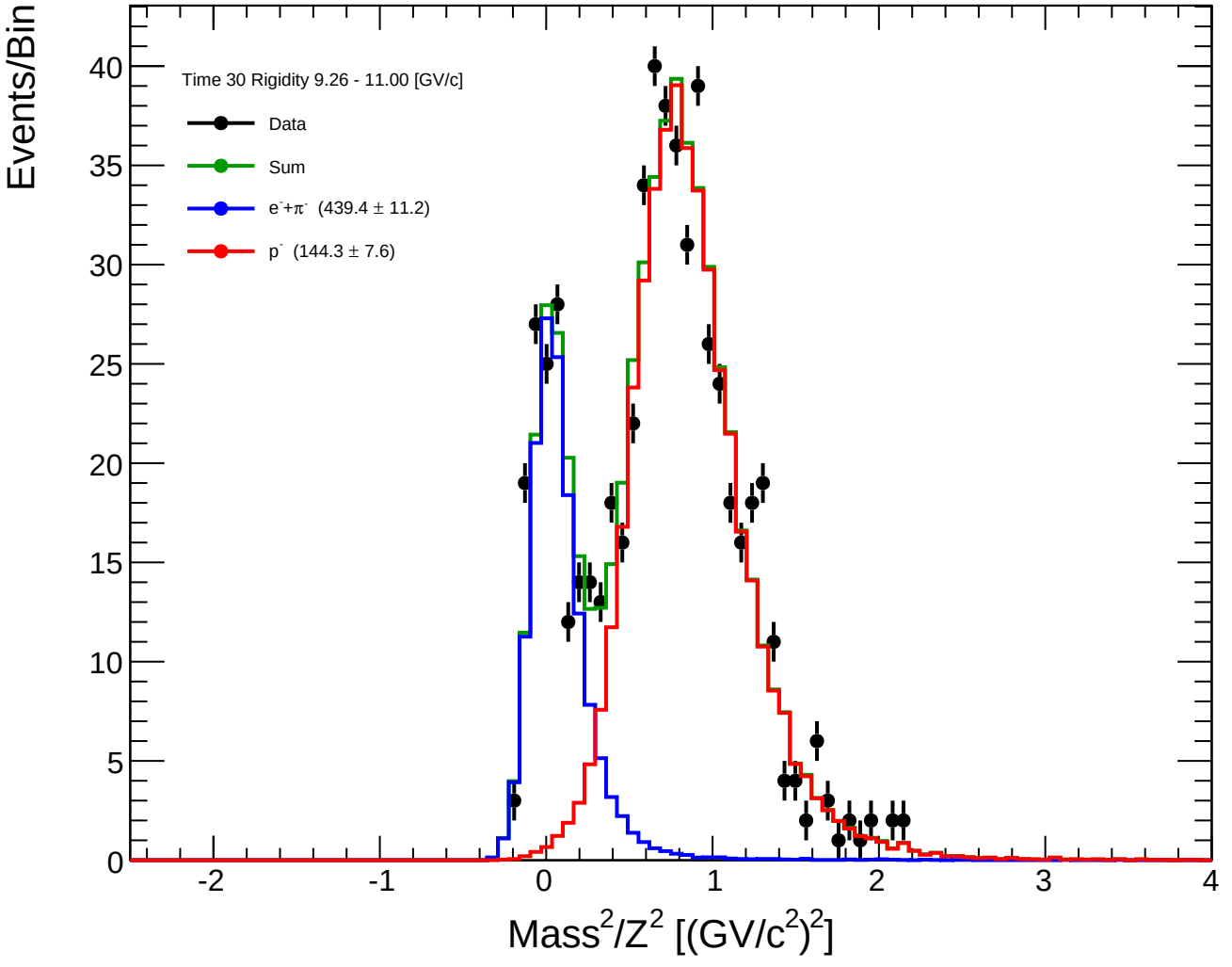

Time 30 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (287.7 ± 9.1)
p⁻ (0.0 ± 10.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

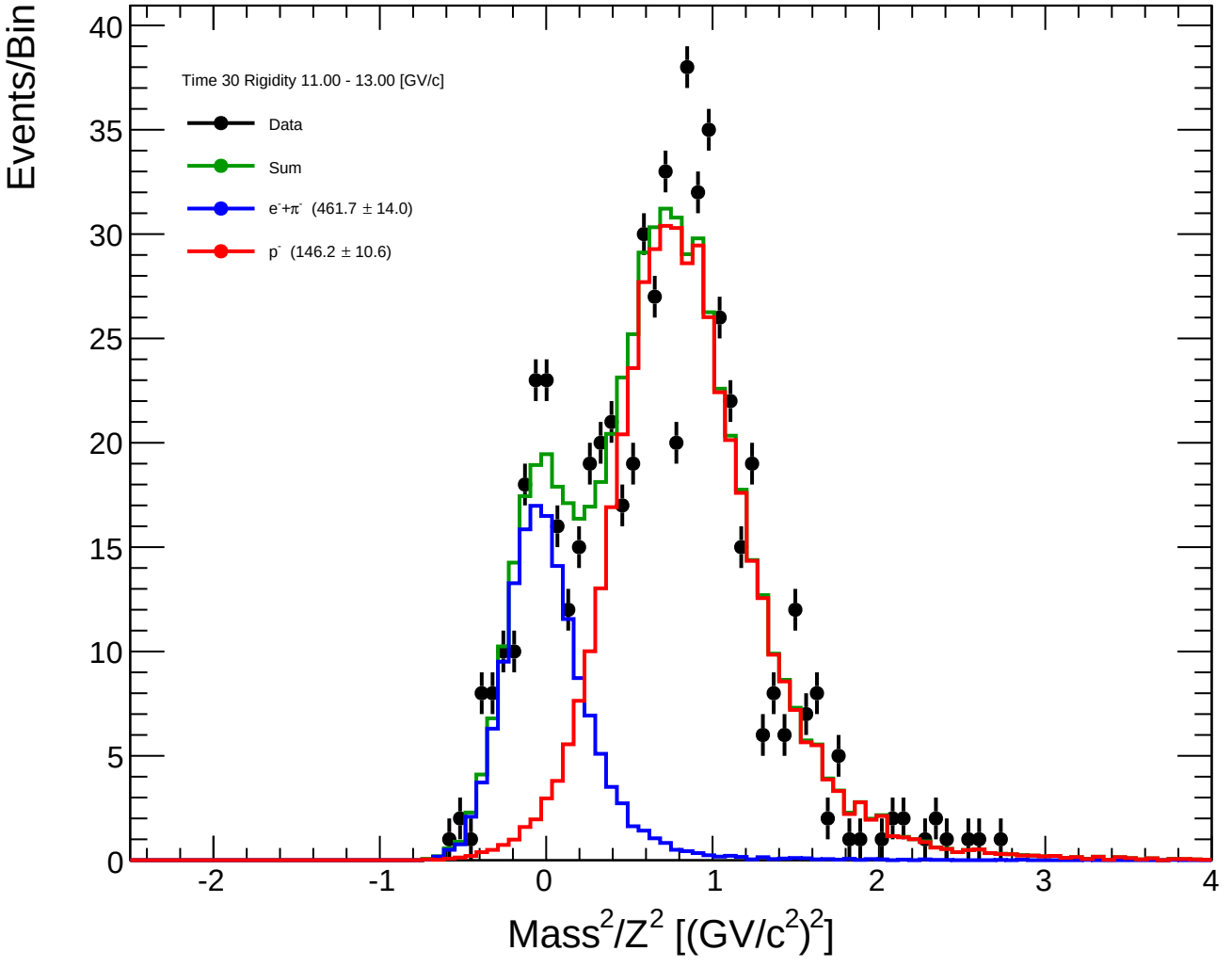

Time 30 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (297.4 ± 8.7)
p⁻ (0.0 ± 9.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

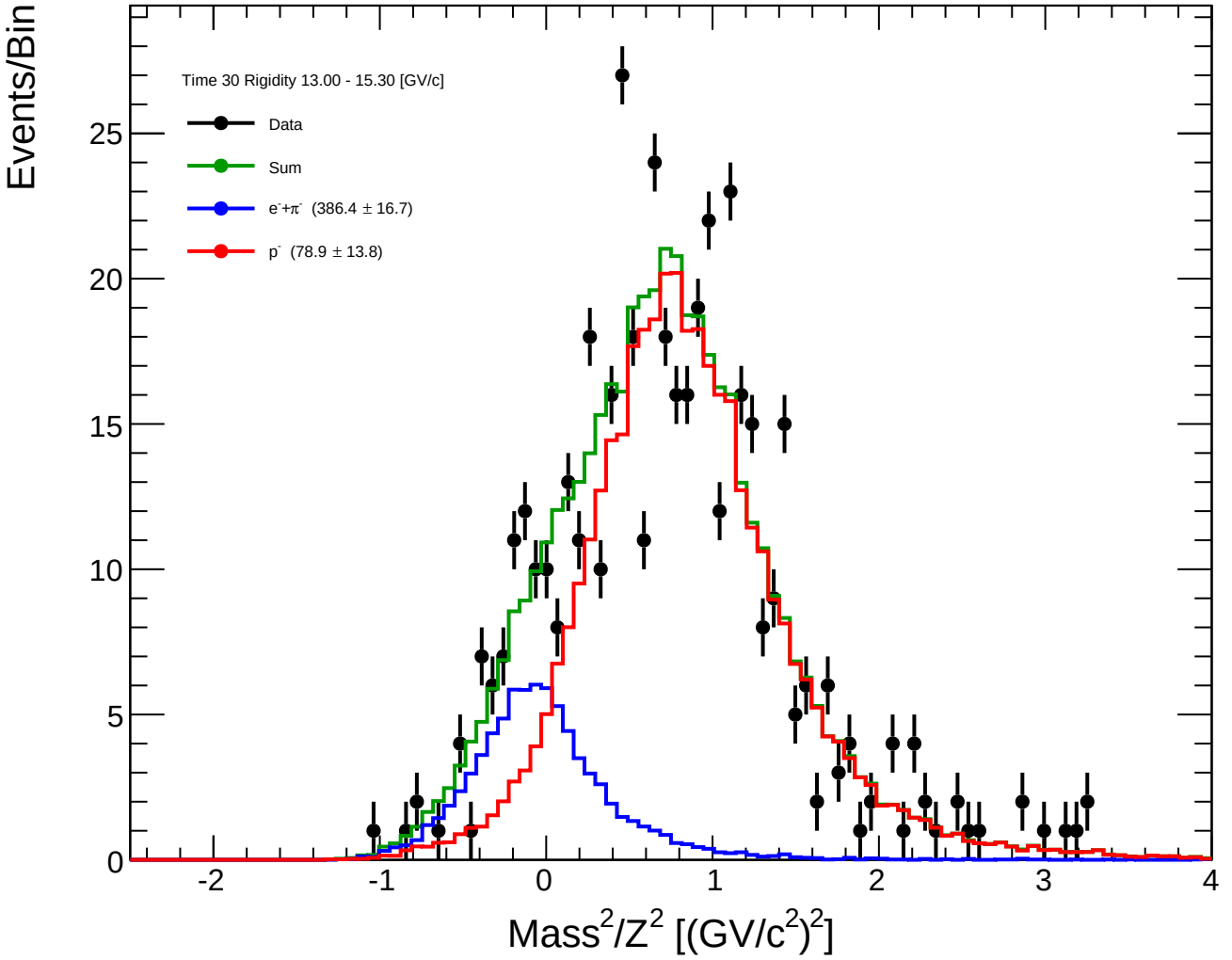

Time 30 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (259.8 ± 6.9)
p⁻ (5.5 ± 5.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

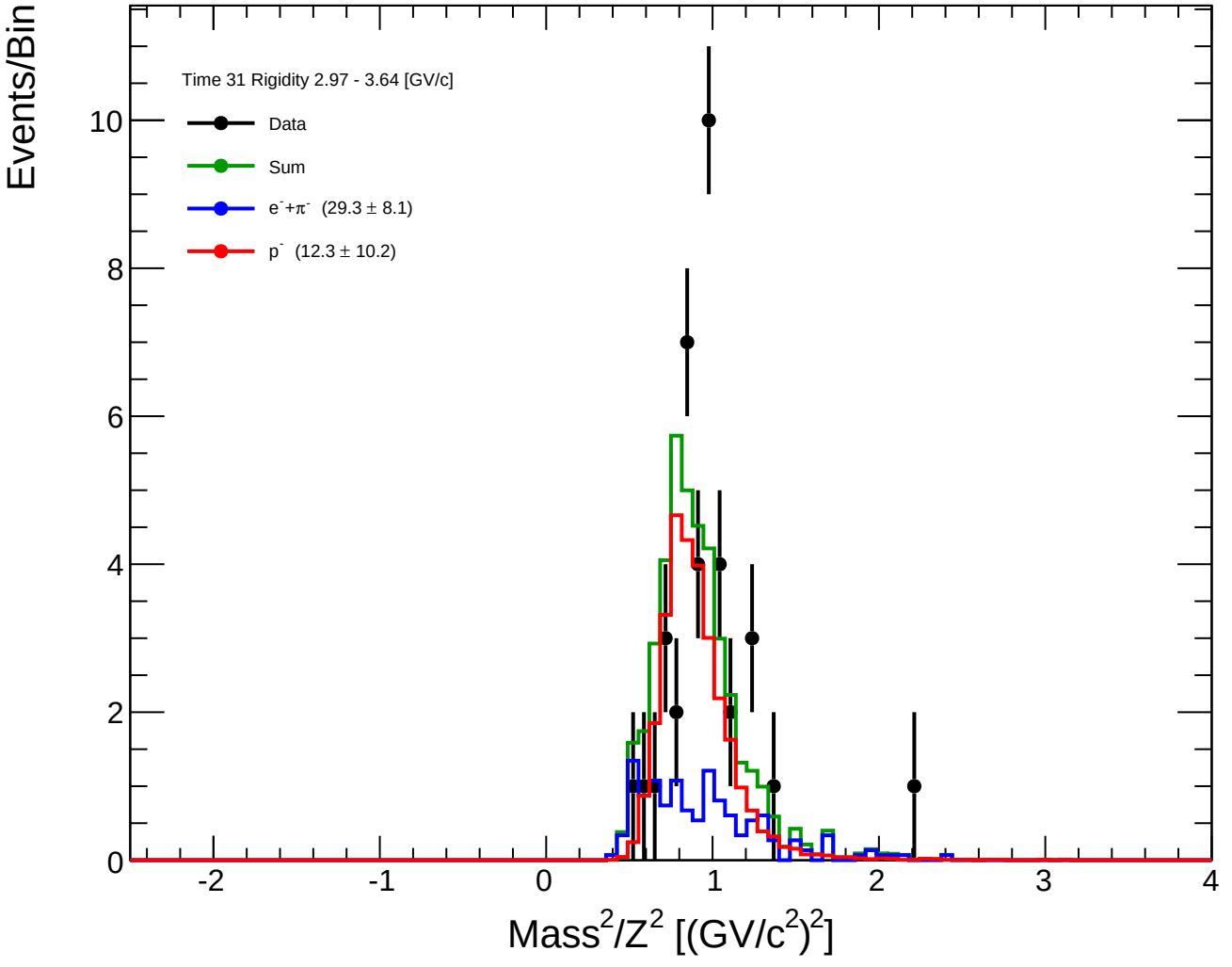

Time 30 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (253.7 ± 7.4)
p⁻ (11.5 ± 4.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

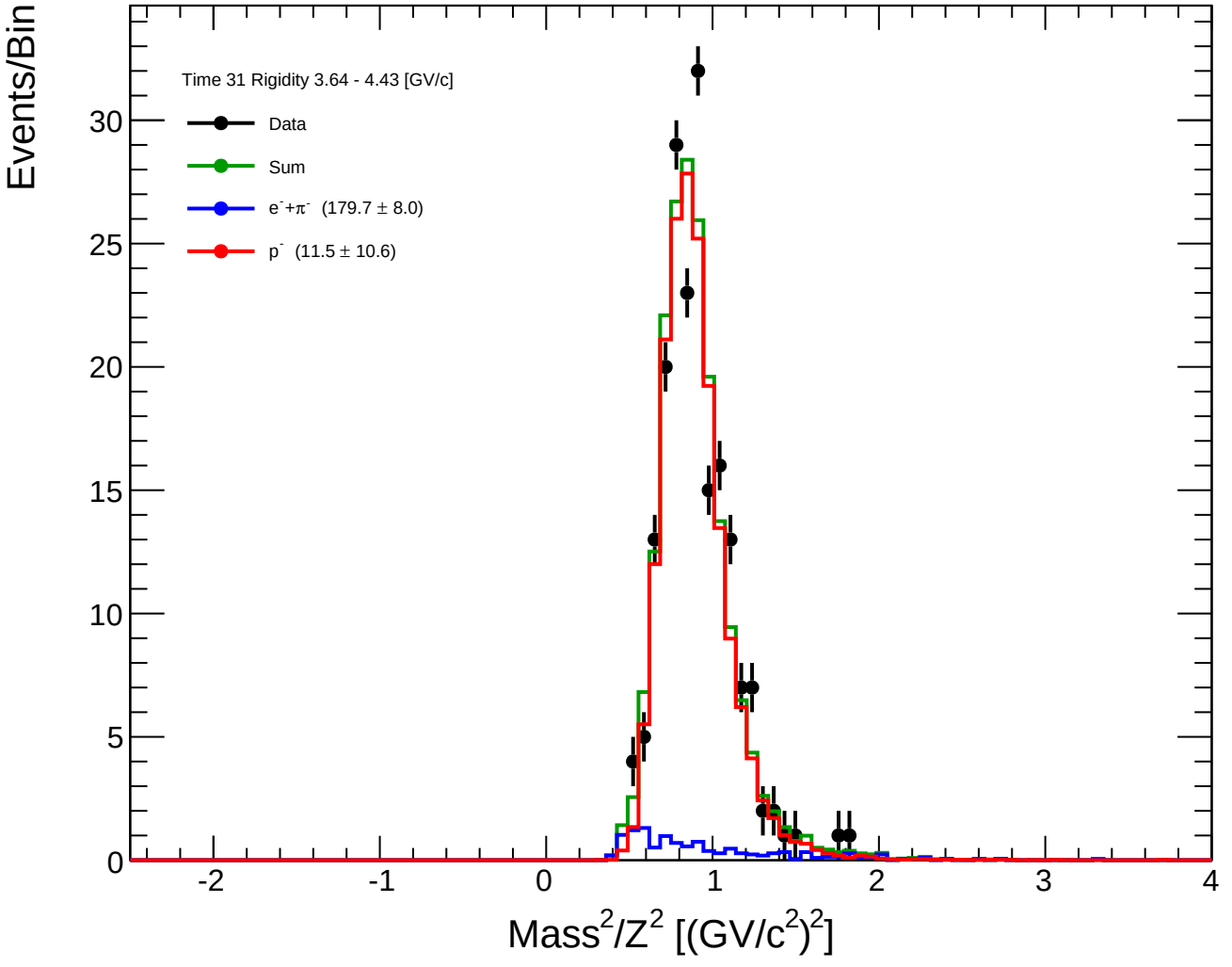

Time 30 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (225.9 ± 8.5)
p⁻ (54.4 ± 5.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

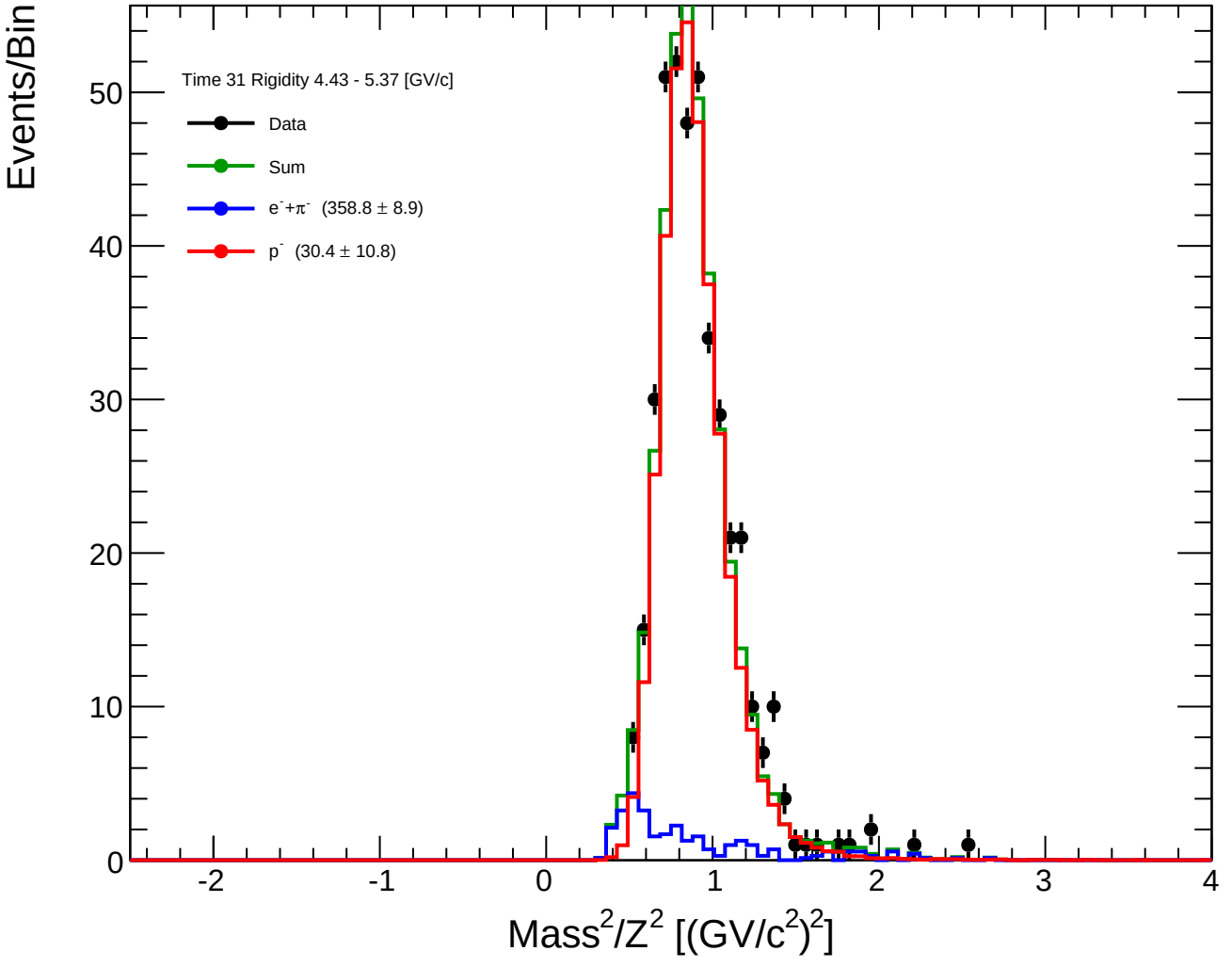

Time 30 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (439.4 ± 11.2)
p⁻ (144.3 ± 7.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

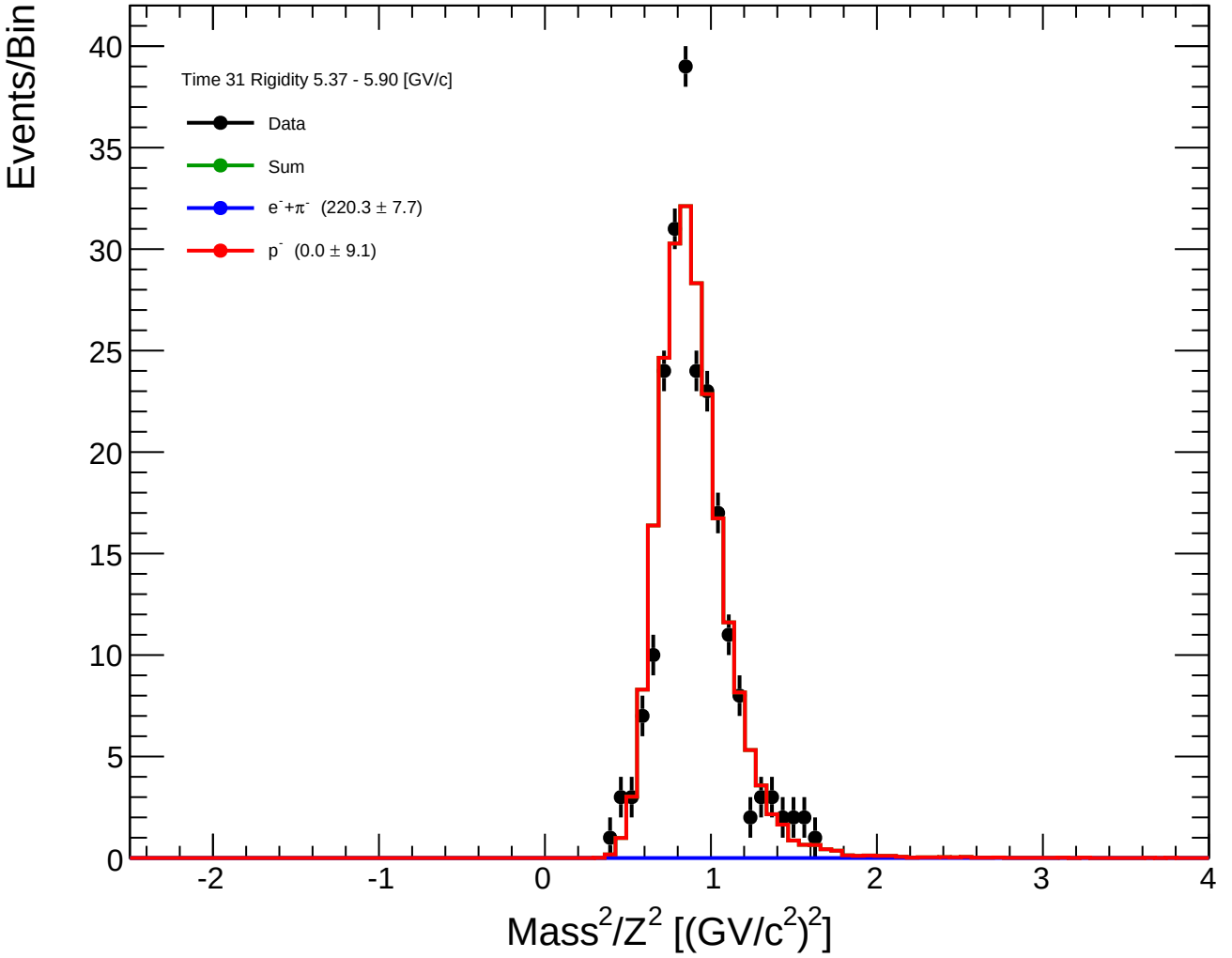

Time 30 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (461.7 ± 14.0)
p⁻ (146.2 ± 10.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

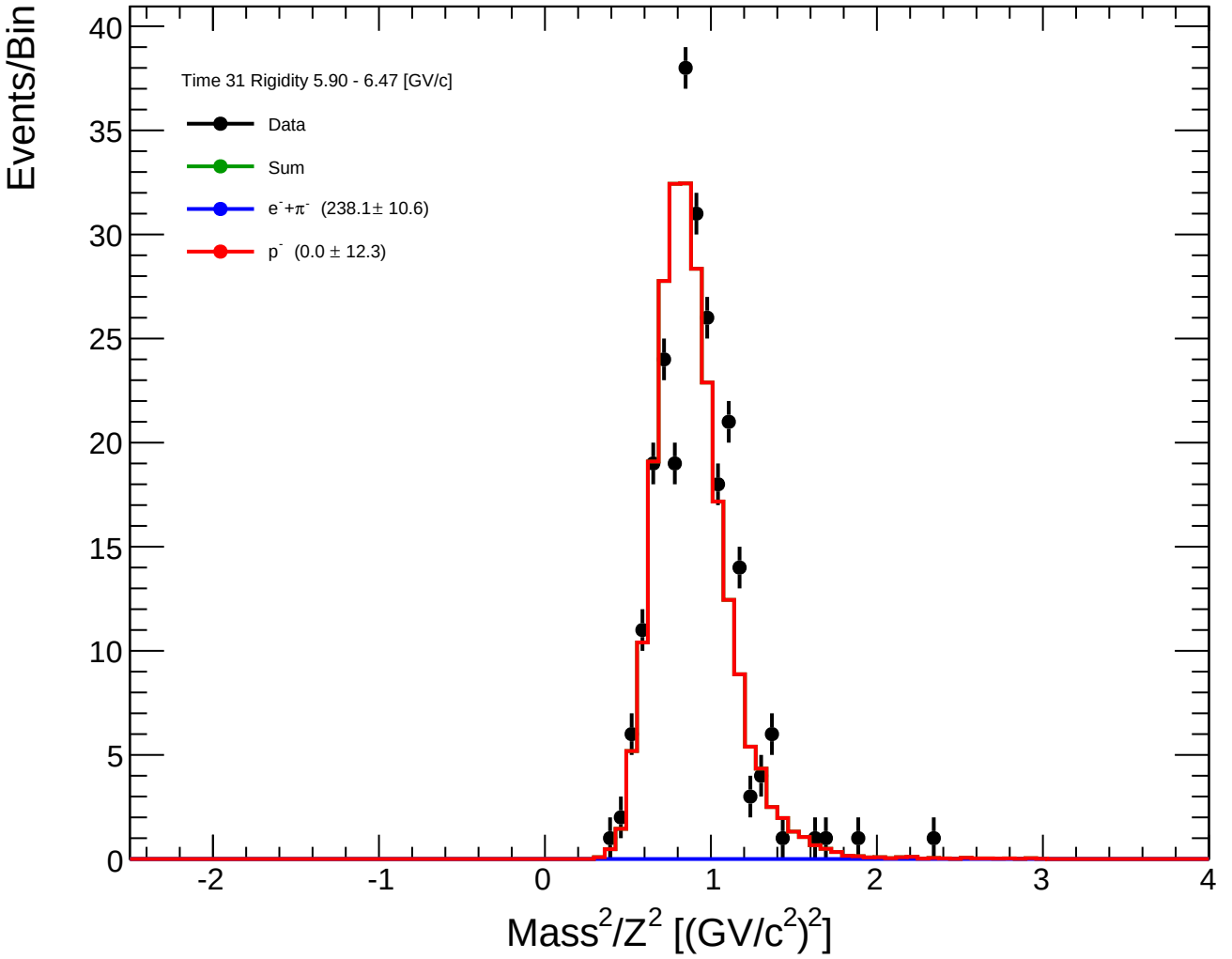

Time 30 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (386.4 ± 16.7)
p⁻ (78.9 ± 13.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

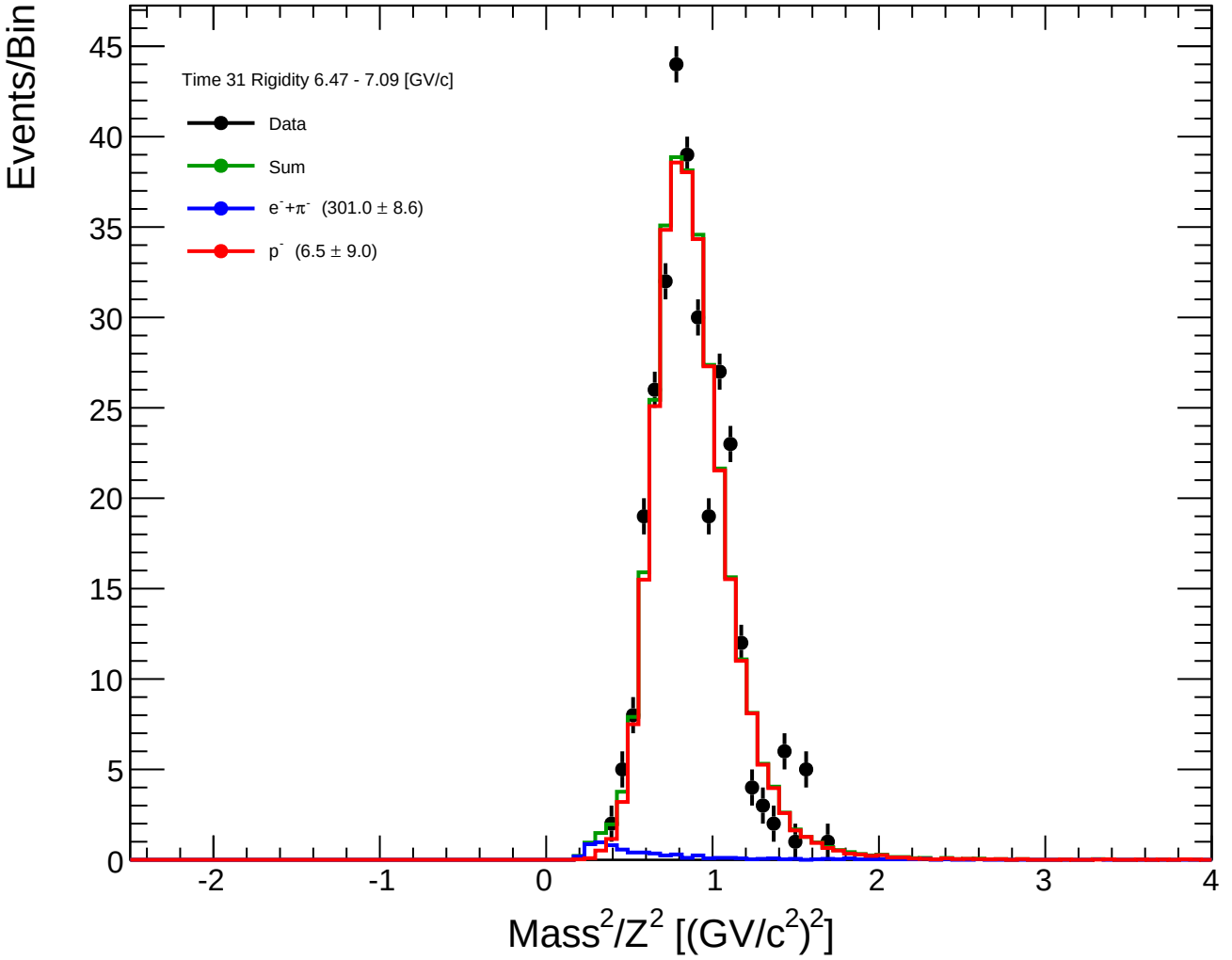

Time 31 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (29.3 ± 8.1)
p⁻ (12.3 ± 10.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
-2
-1
0
1
2
3
4

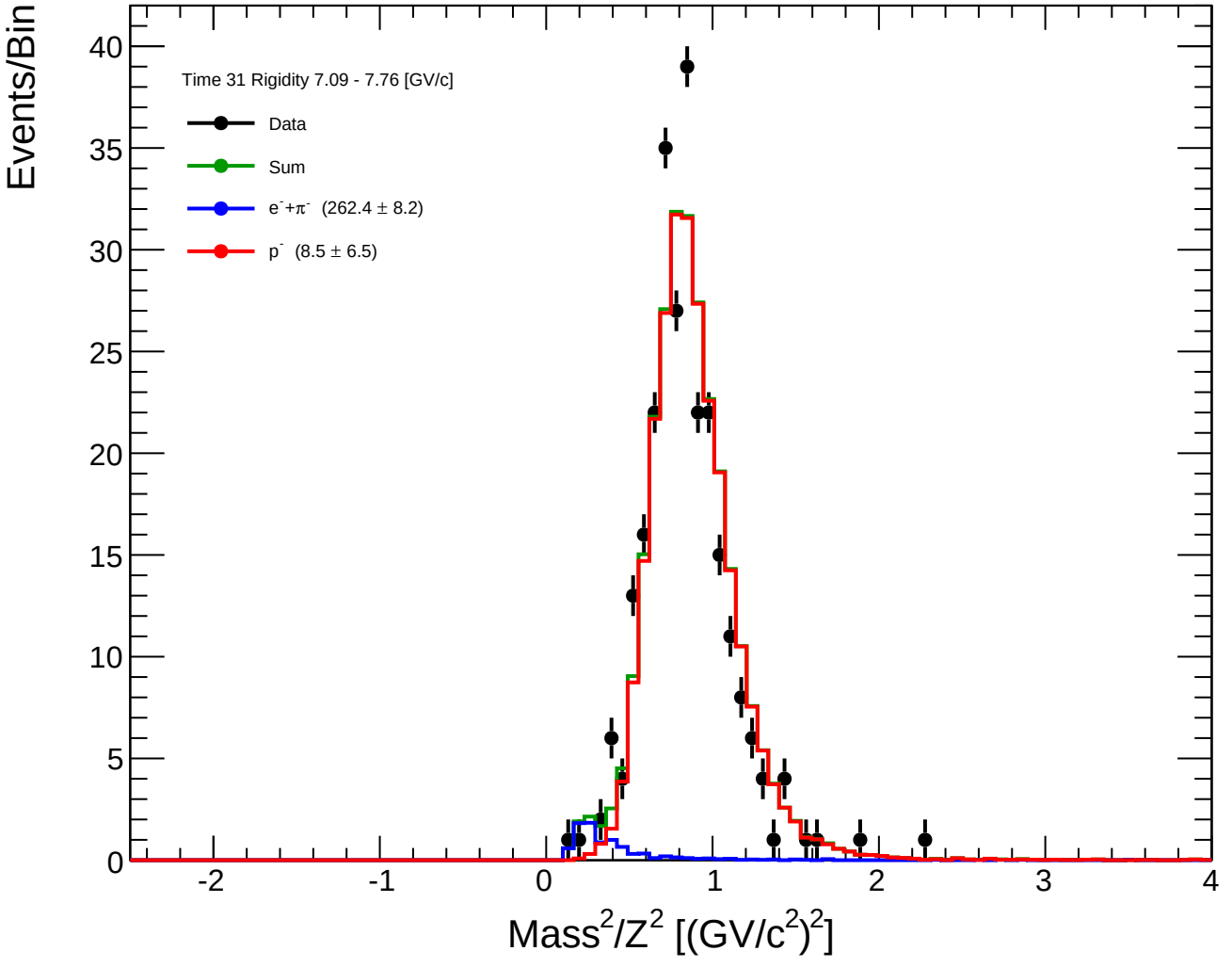

Time 31 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (179.7 ± 8.0)
p⁻ (11.5 ± 10.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

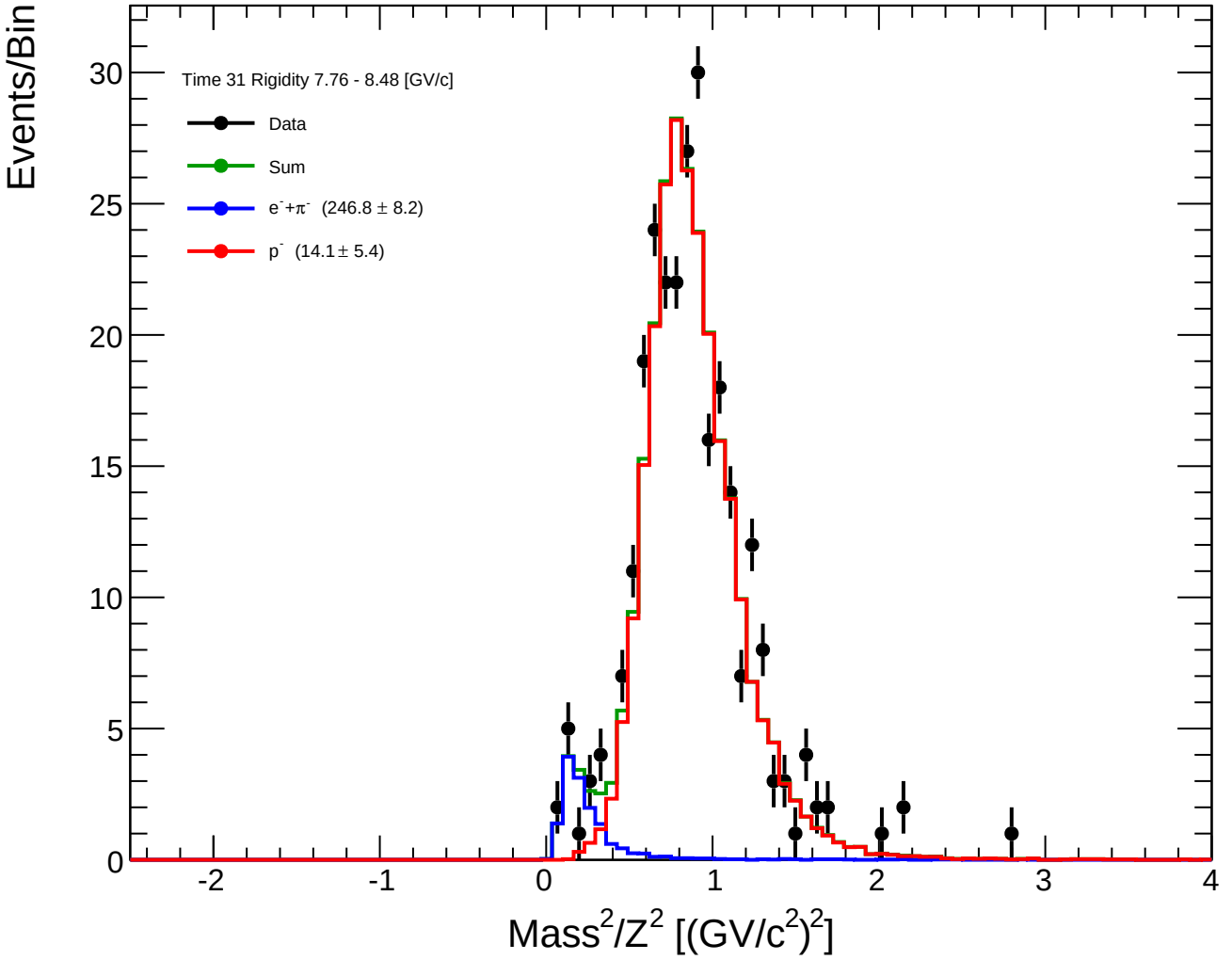

Time 31 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (358.8 ± 8.9)
p⁻ (30.4 ± 10.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

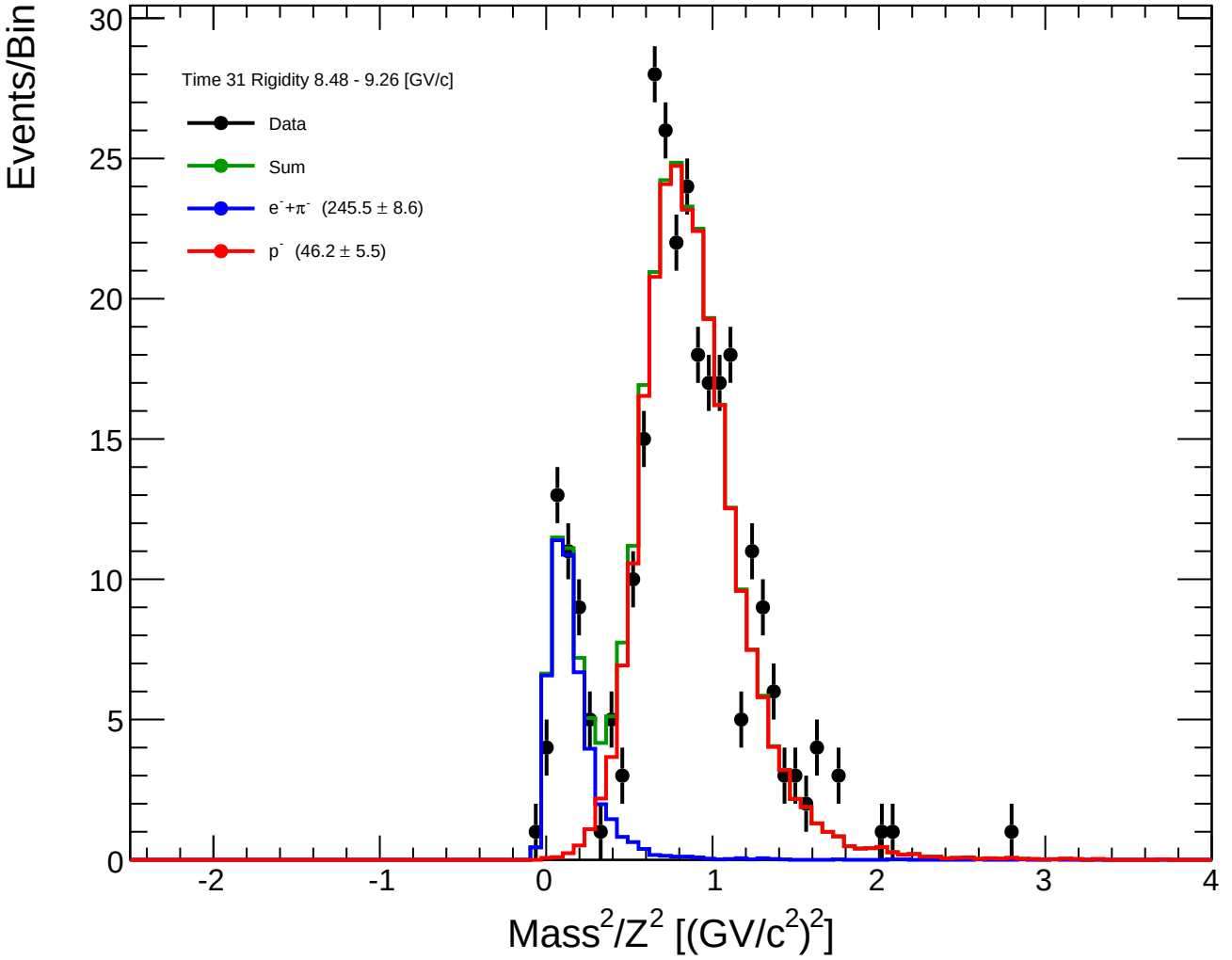

Time 31 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (220.3 ± 7.7)
p⁻ (0.0 ± 9.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

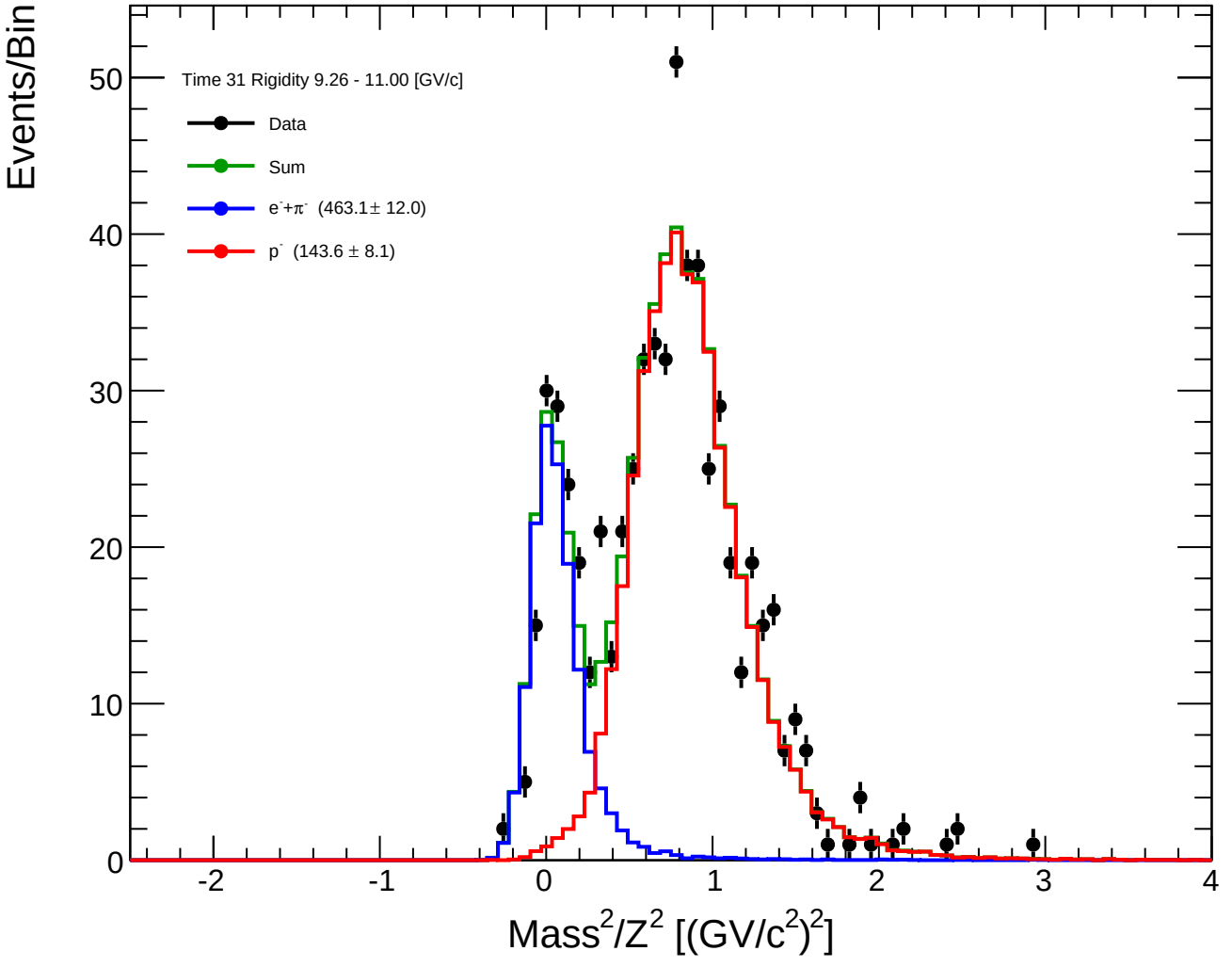

Time 31 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (238.1± 10.6)
p⁻ (0.0 ± 12.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

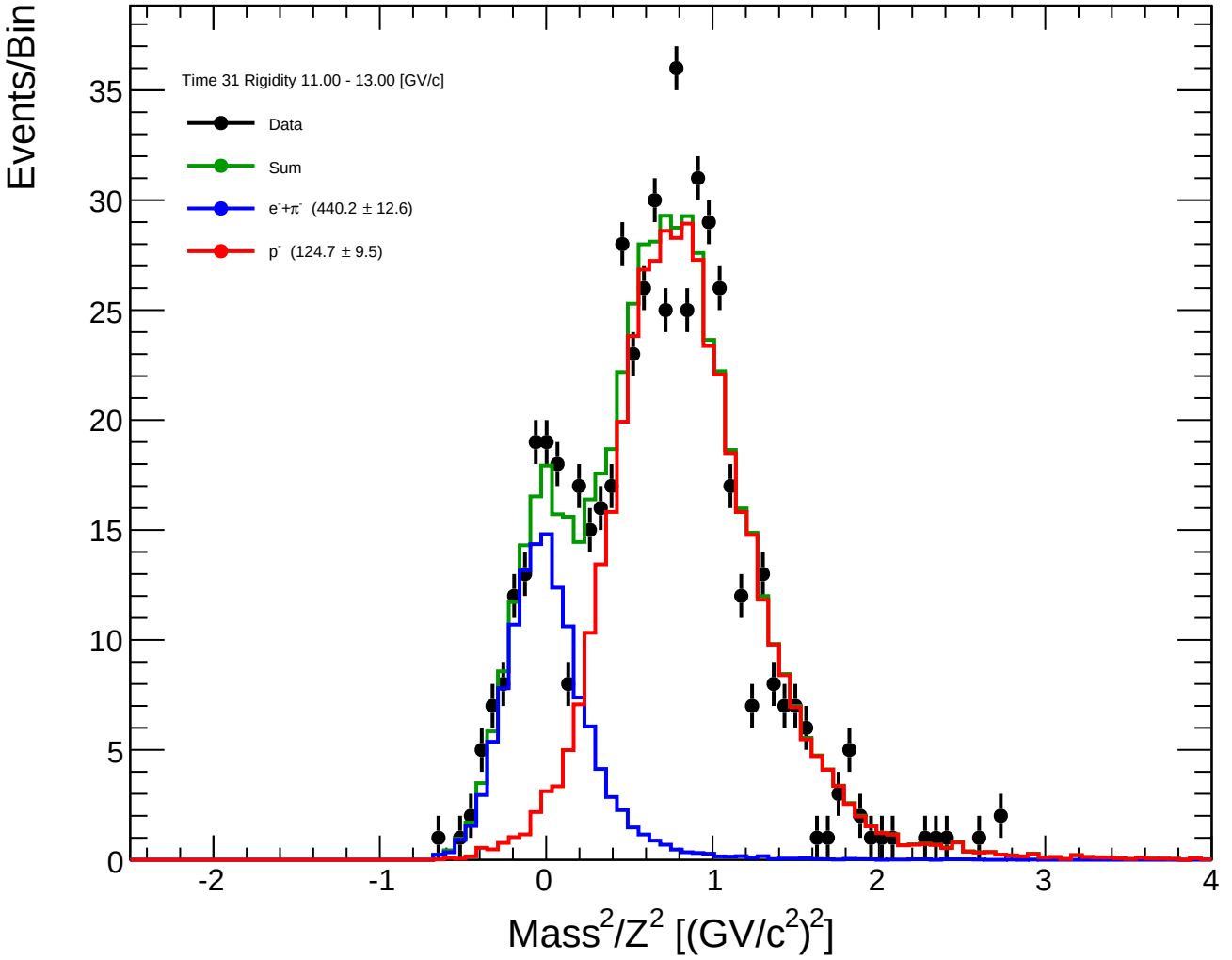

Time 31 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (301.0 ± 8.6)
p⁻ (6.5 ± 9.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

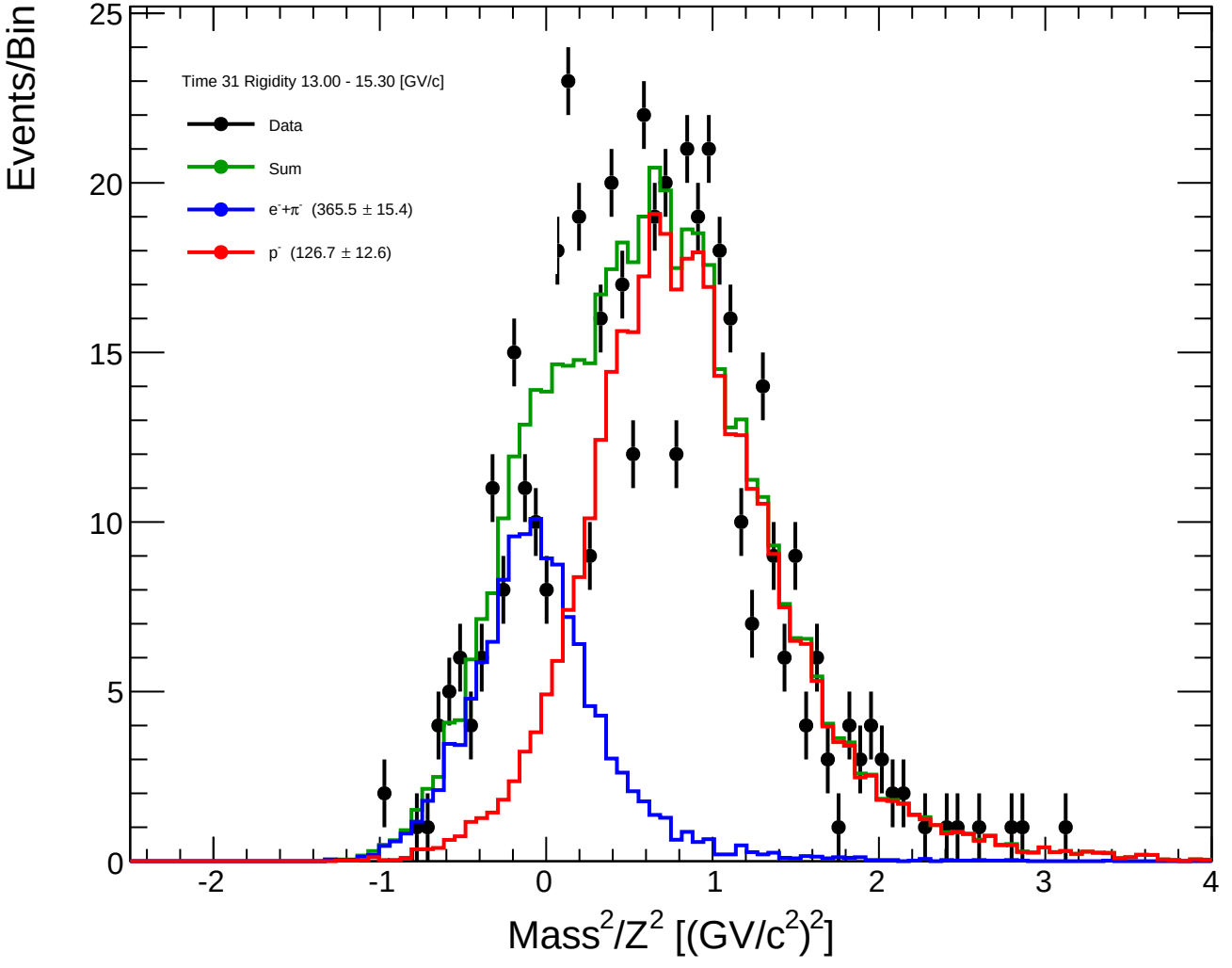

Time 31 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (262.4 ± 8.2)
p⁻ (8.5 ± 6.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

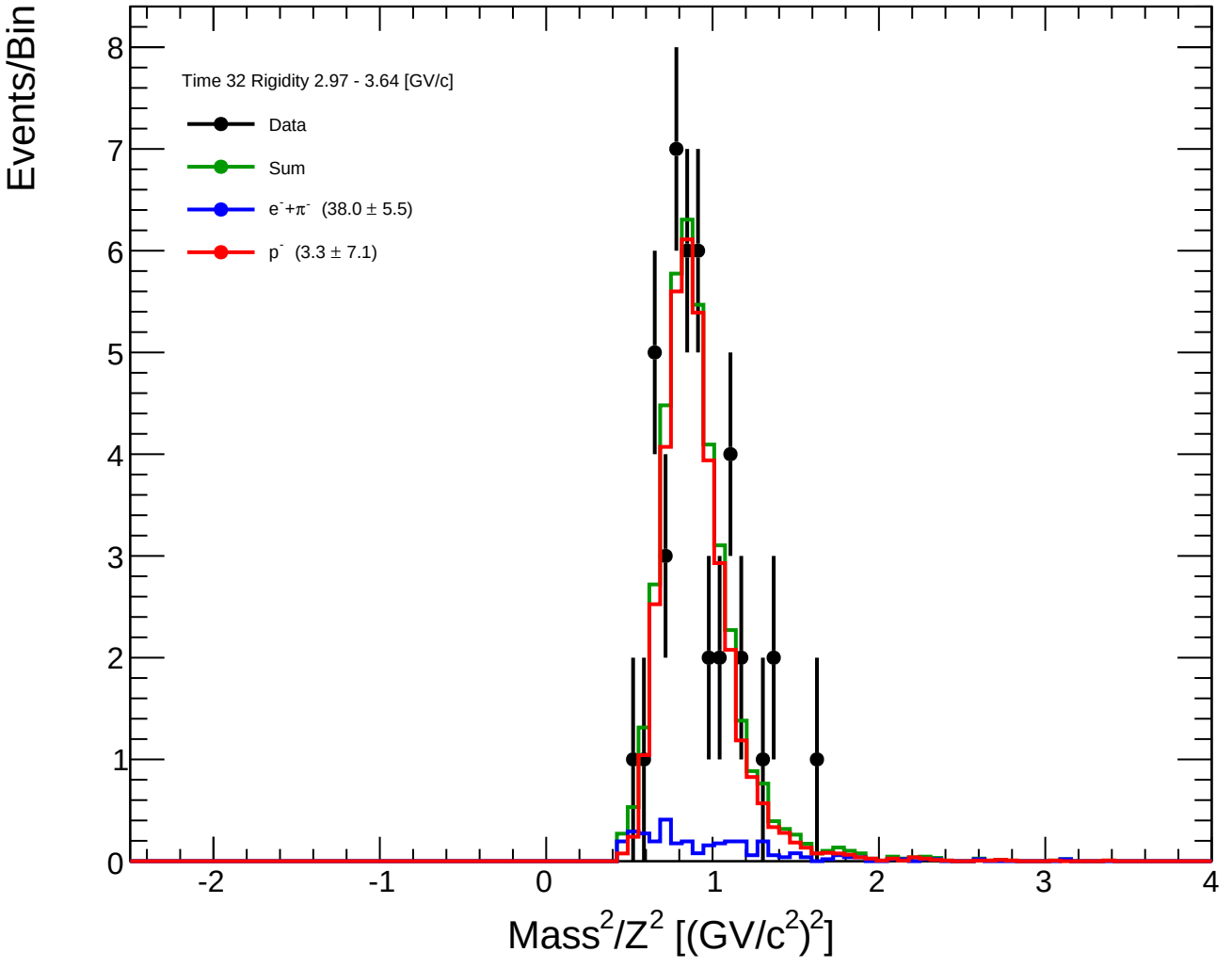

Time 31 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (246.8 ± 8.2)
p⁻ (14.1± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

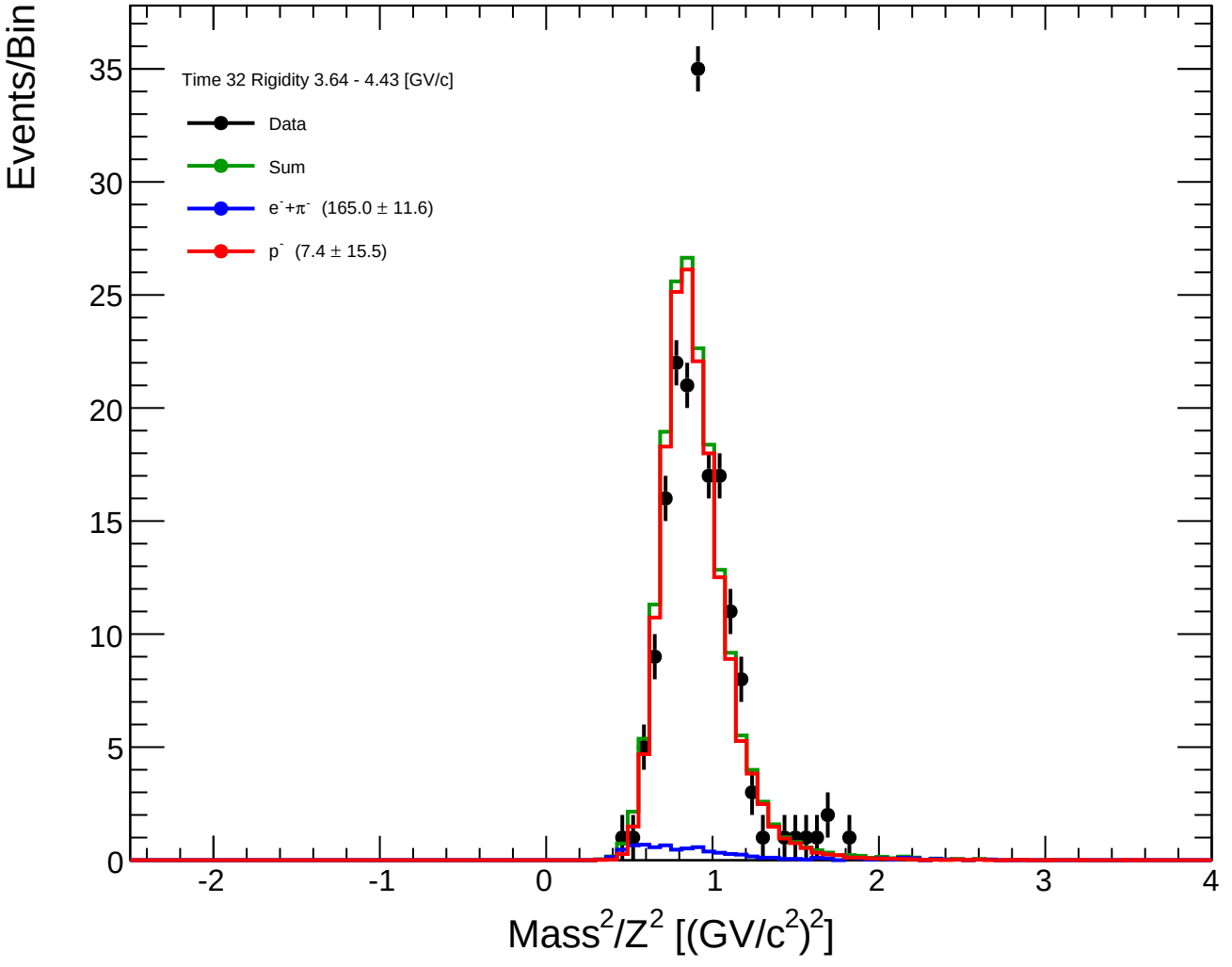

Time 31 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (245.5 ± 8.6)
p⁻ (46.2 ± 5.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

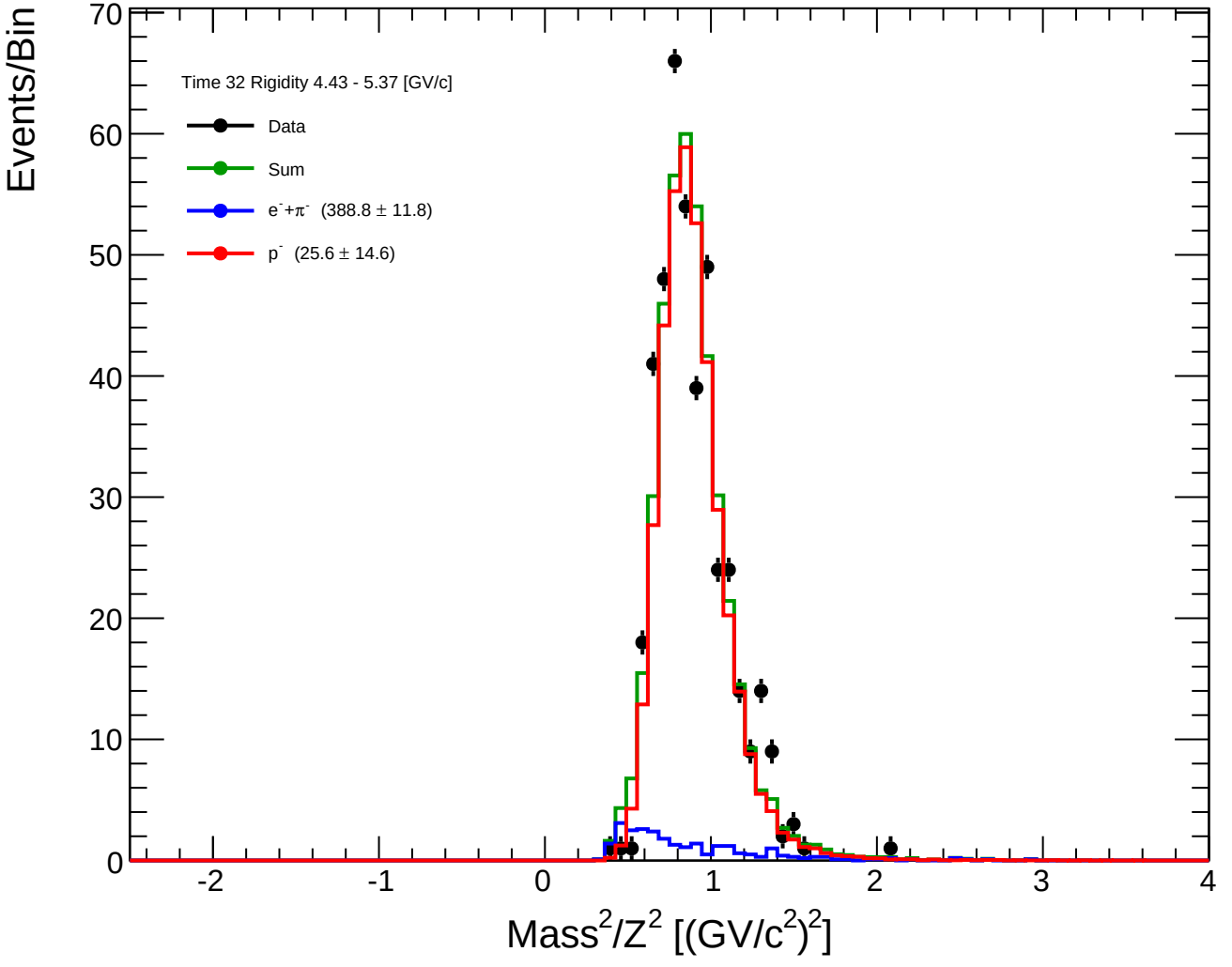

Time 31 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (463.1± 12.0)
p⁻ (143.6 ± 8.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
-2
-1
0
1
2
3
4

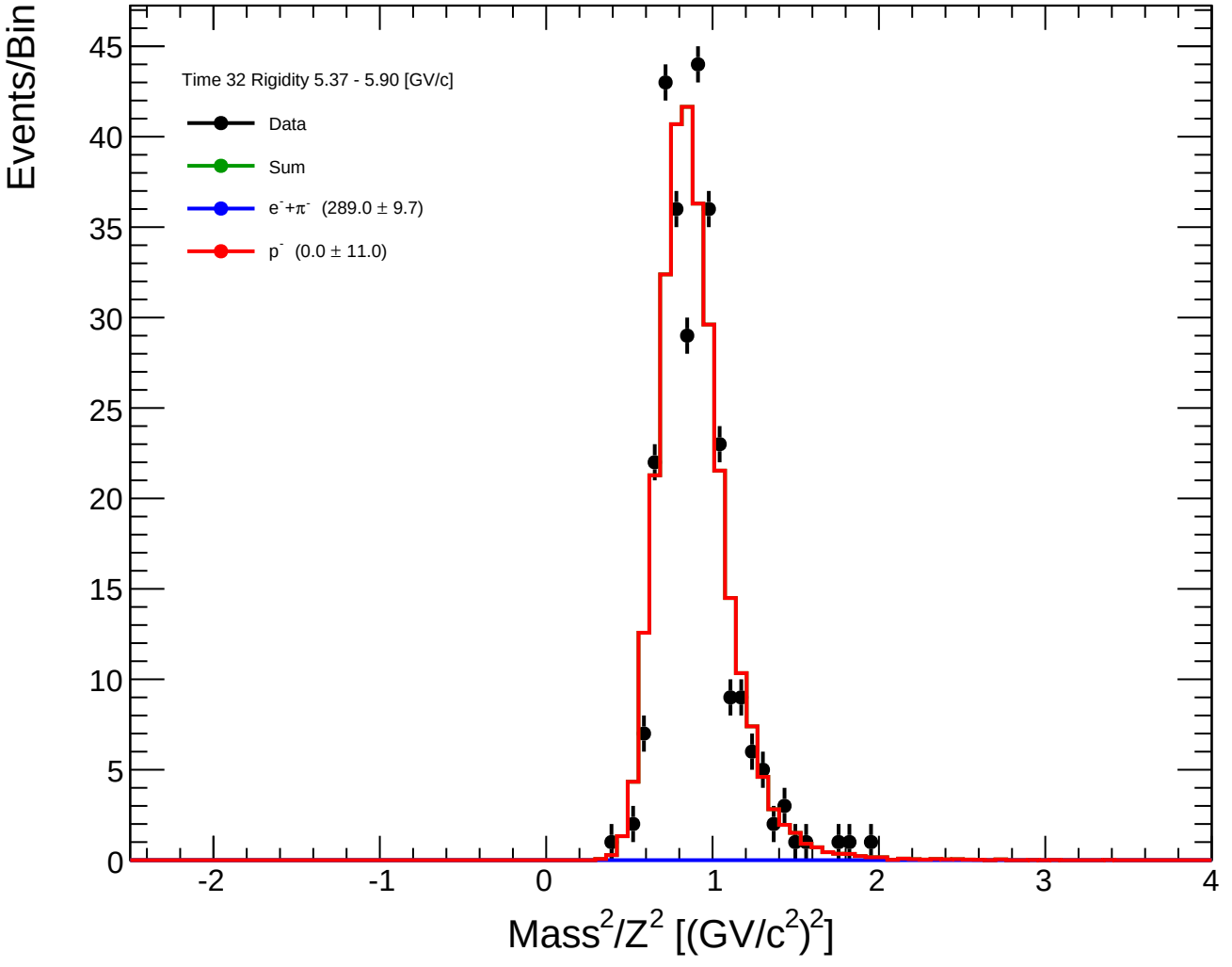

Time 31 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (440.2 ± 12.6)
p⁻ (124.7 ± 9.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

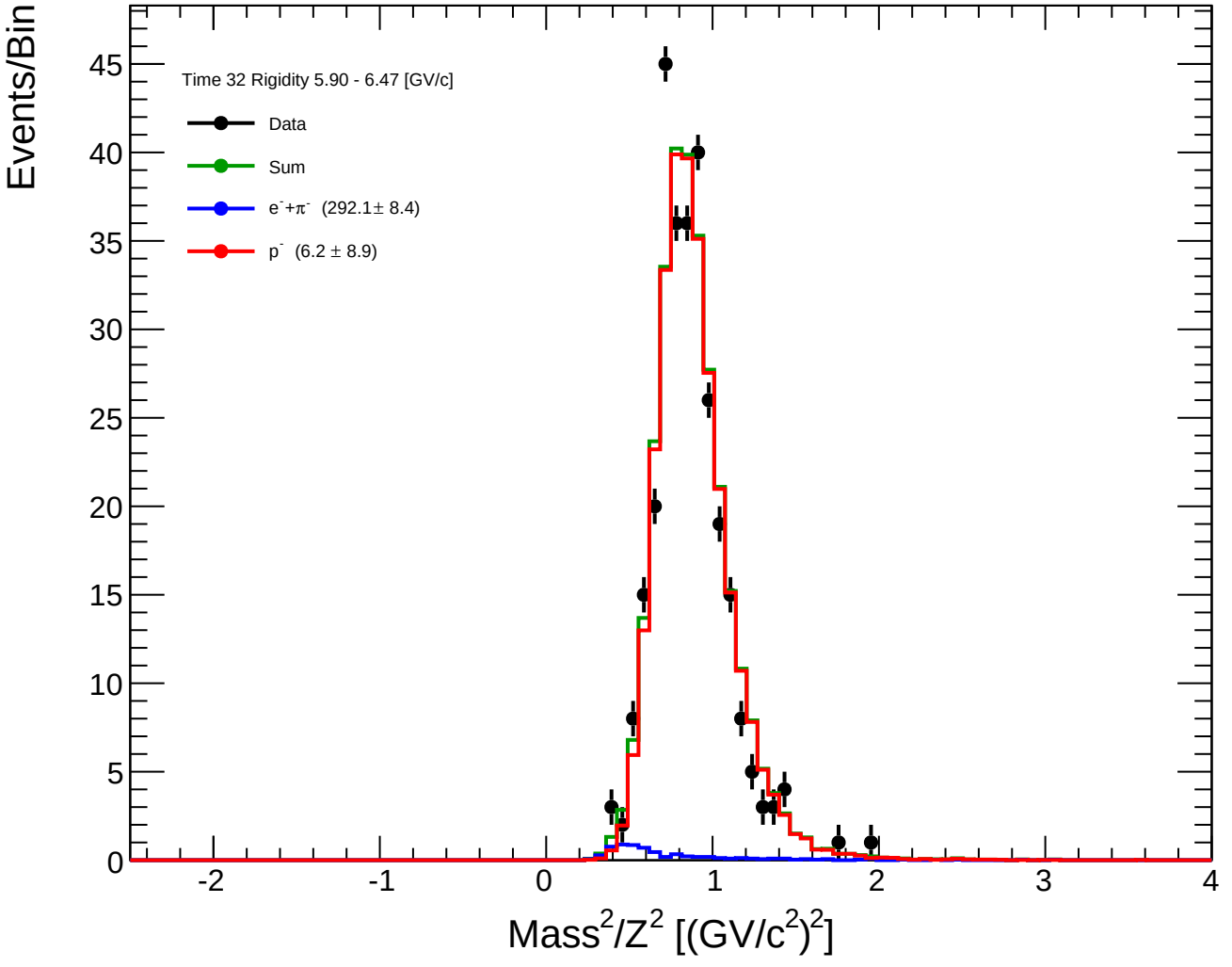

Time 31 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (365.5 ± 15.4)
p⁻ (126.7 ± 12.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

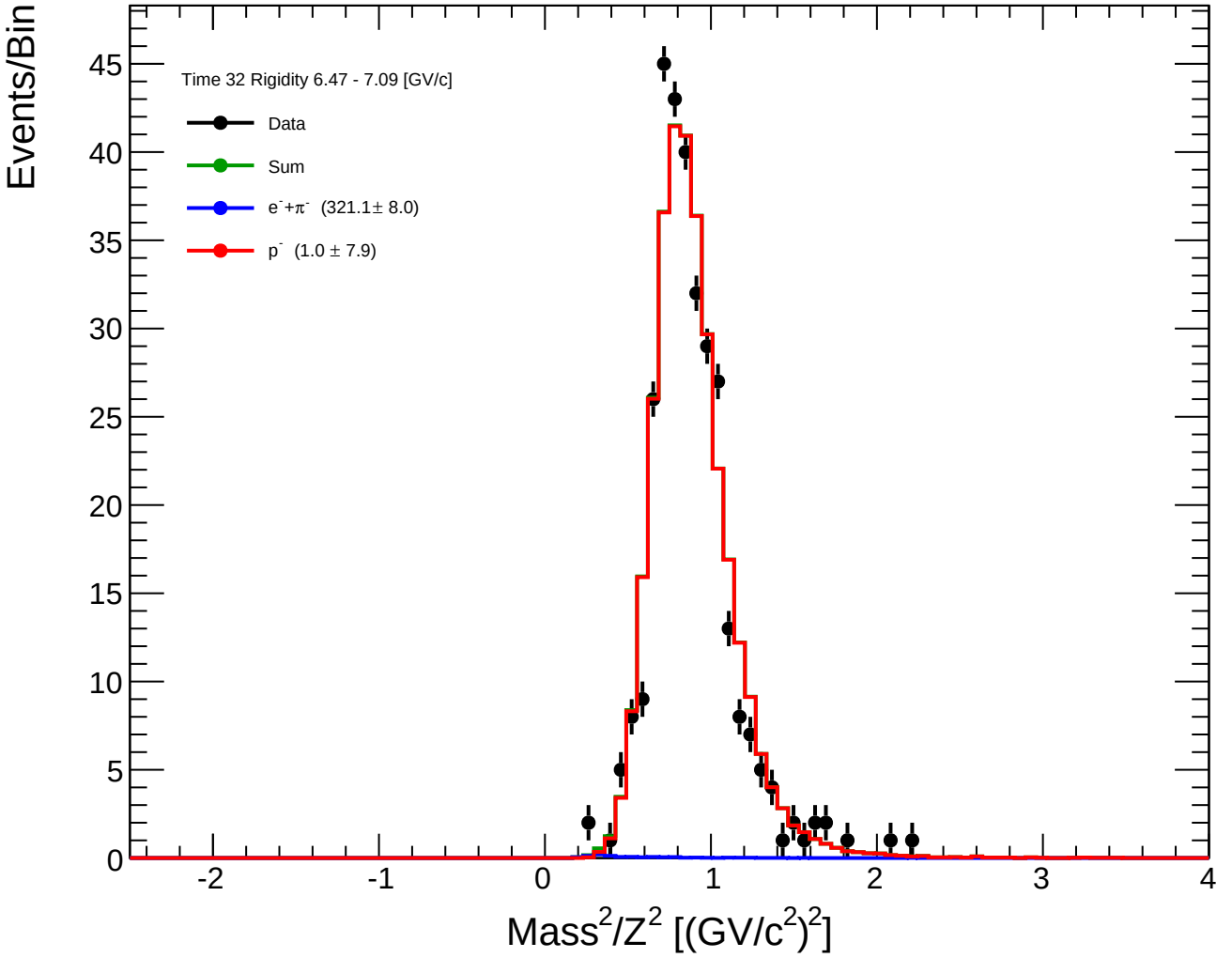

Time 32 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (38.0 ± 5.5)
p⁻ (3.3 ± 7.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
1
2
3
4
5
6
7
8
-2
-1
0
1
2
3
4

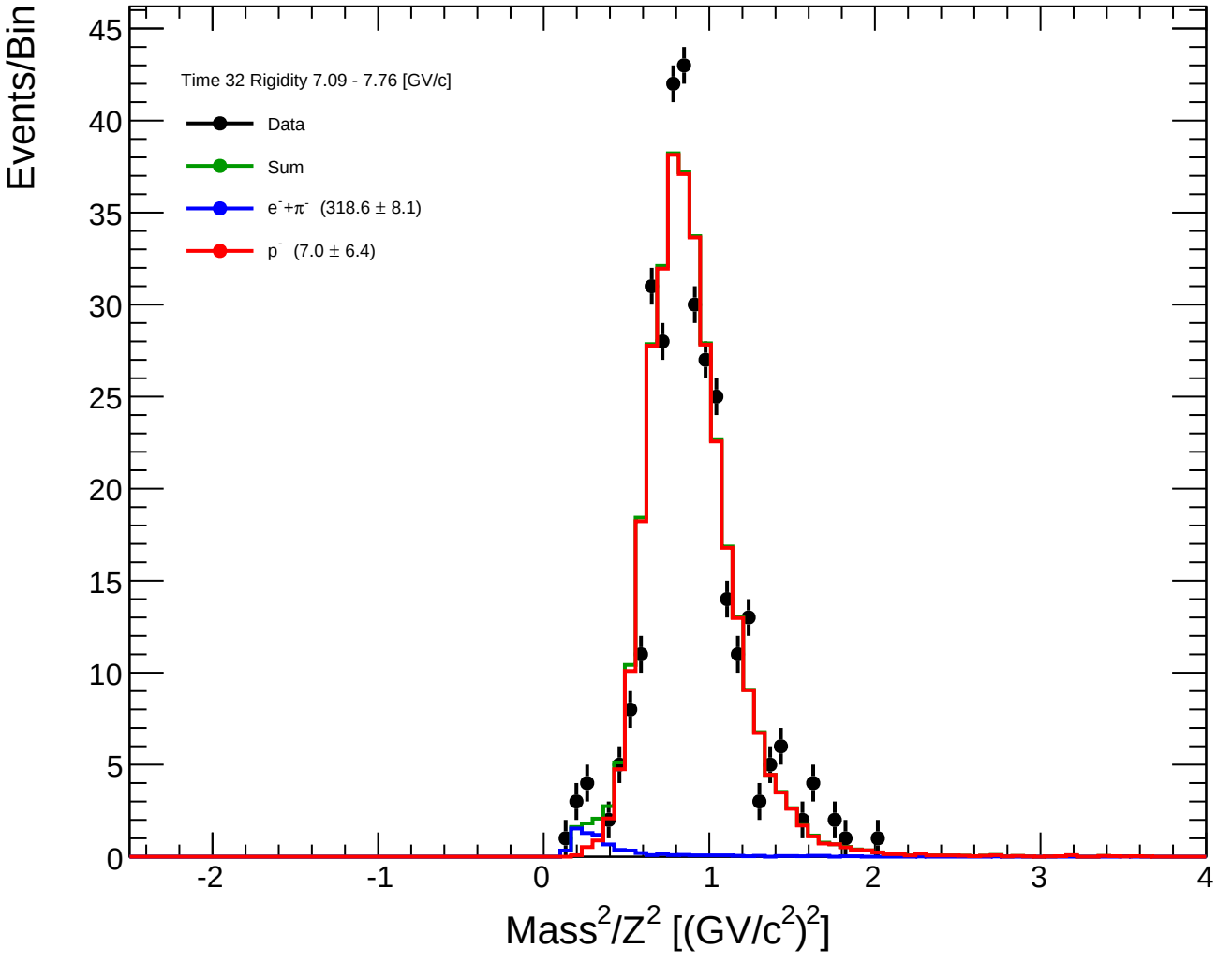

Time 32 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (165.0 ± 11.6)
p⁻ (7.4 ± 15.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

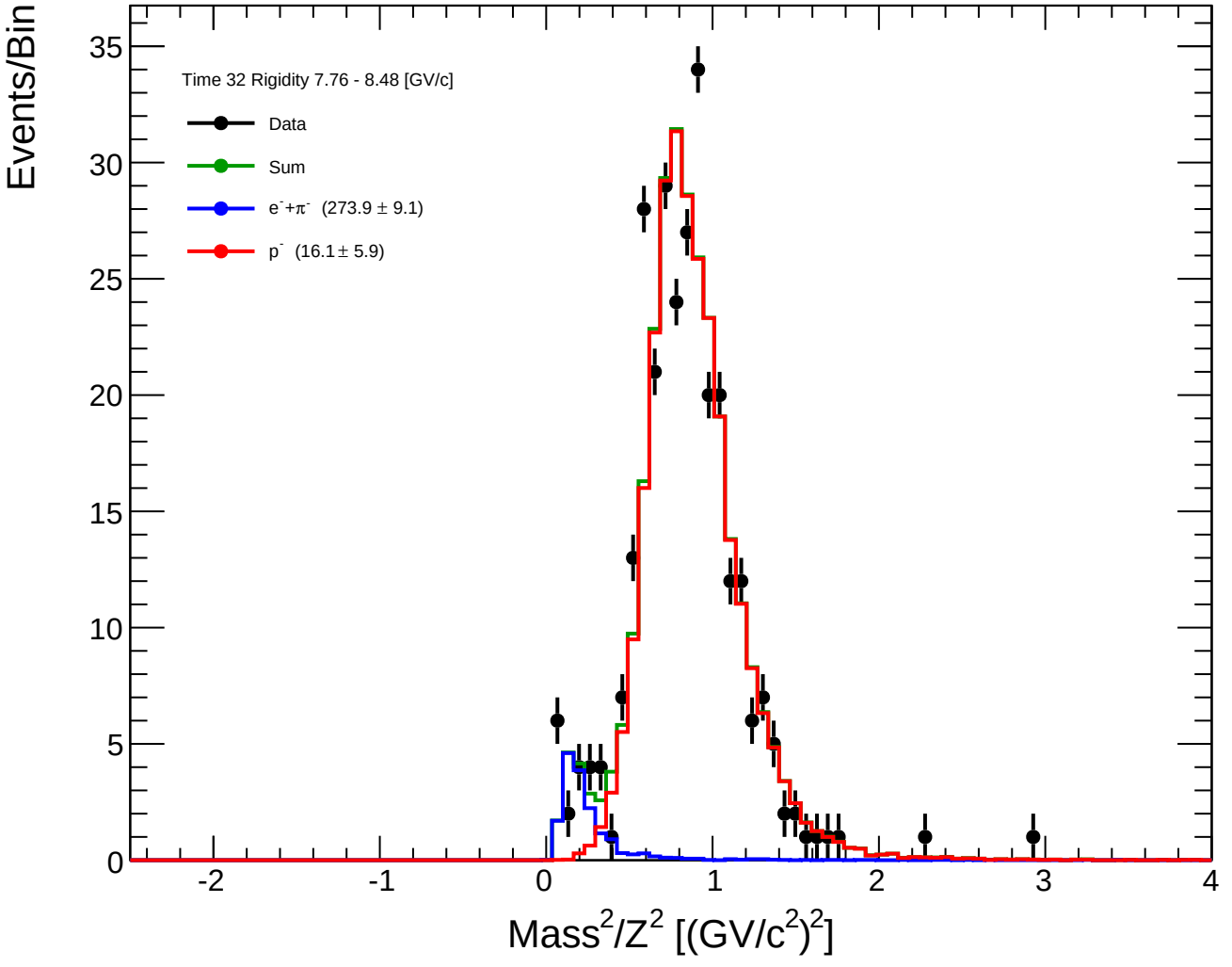

Time 32 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (388.8 ± 11.8)
p⁻ (25.6 ± 14.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
-2
-1
0
1
2
3
4

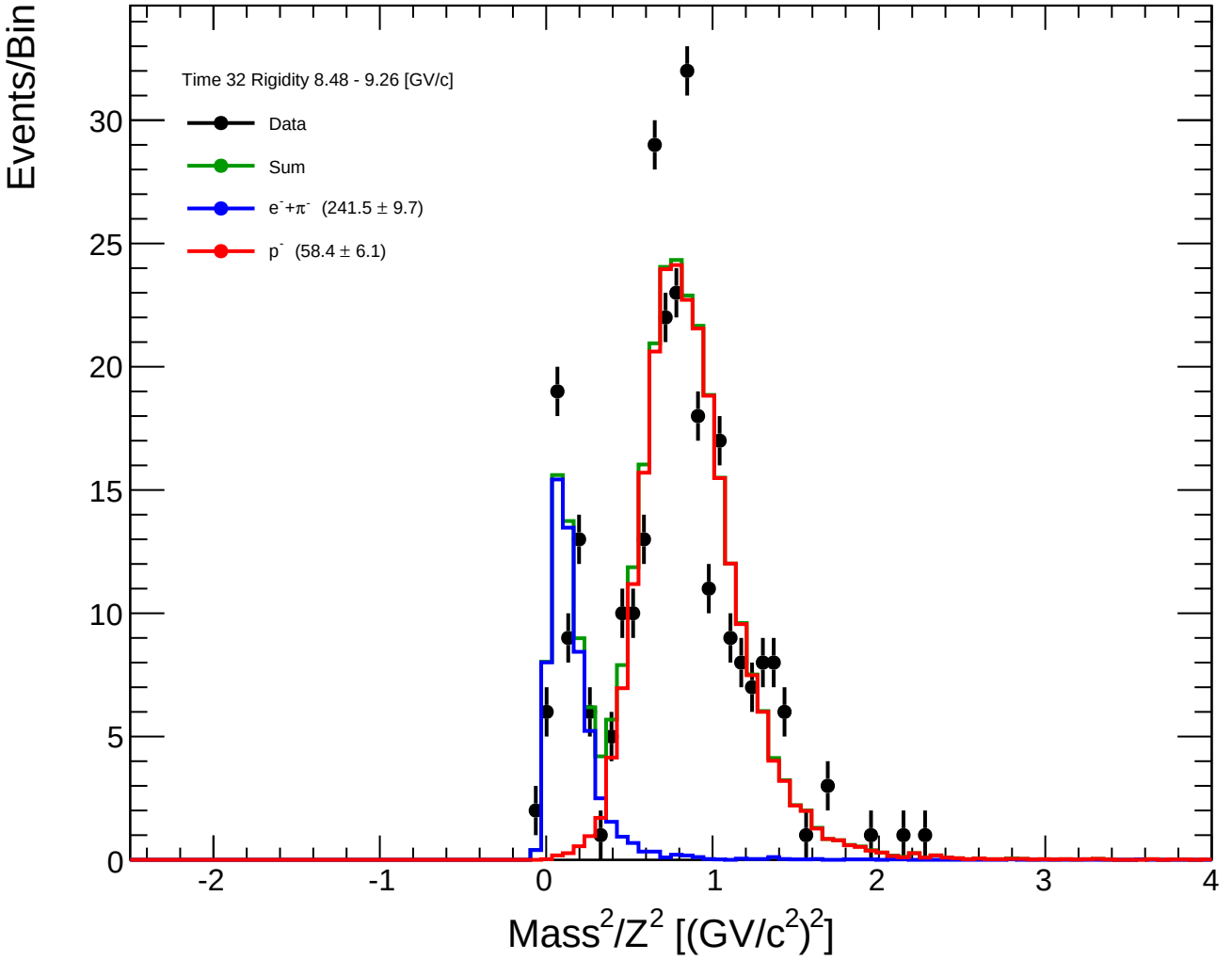

Time 32 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (289.0 ± 9.7)
p⁻ (0.0 ± 11.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

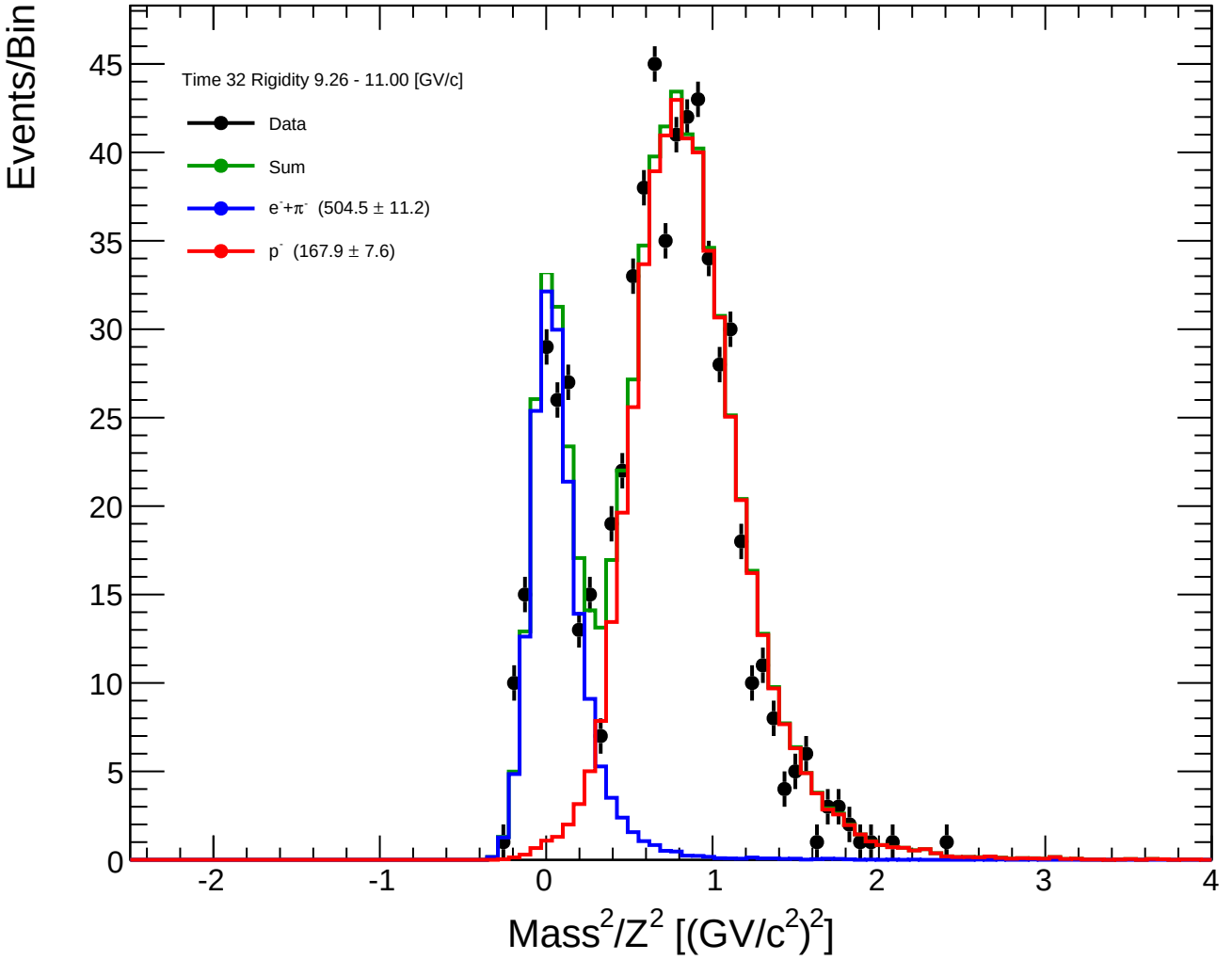

Time 32 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (292.1± 8.4)
p⁻ (6.2 ± 8.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

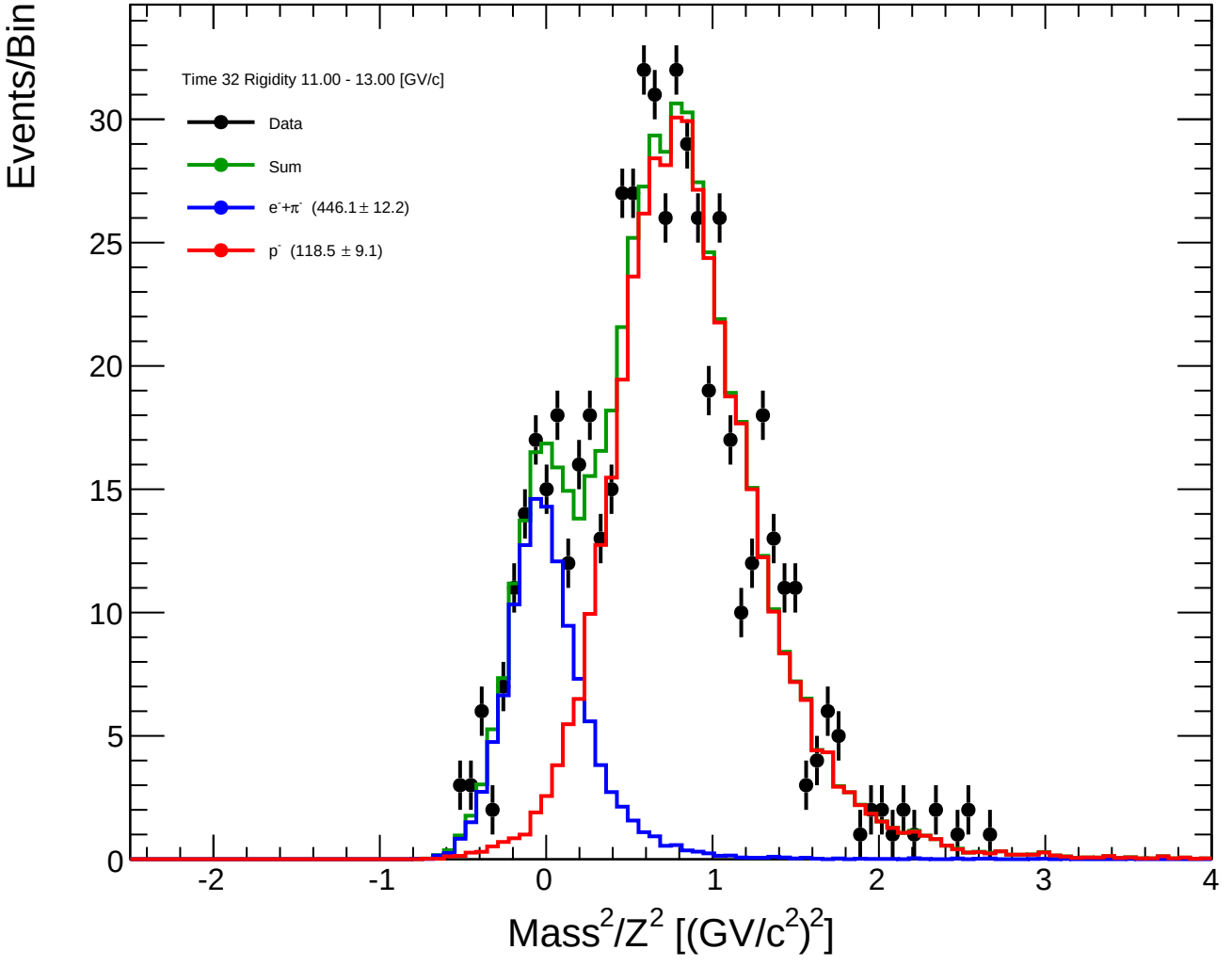

Time 32 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (321.1± 8.0)
p⁻ (1.0 ± 7.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

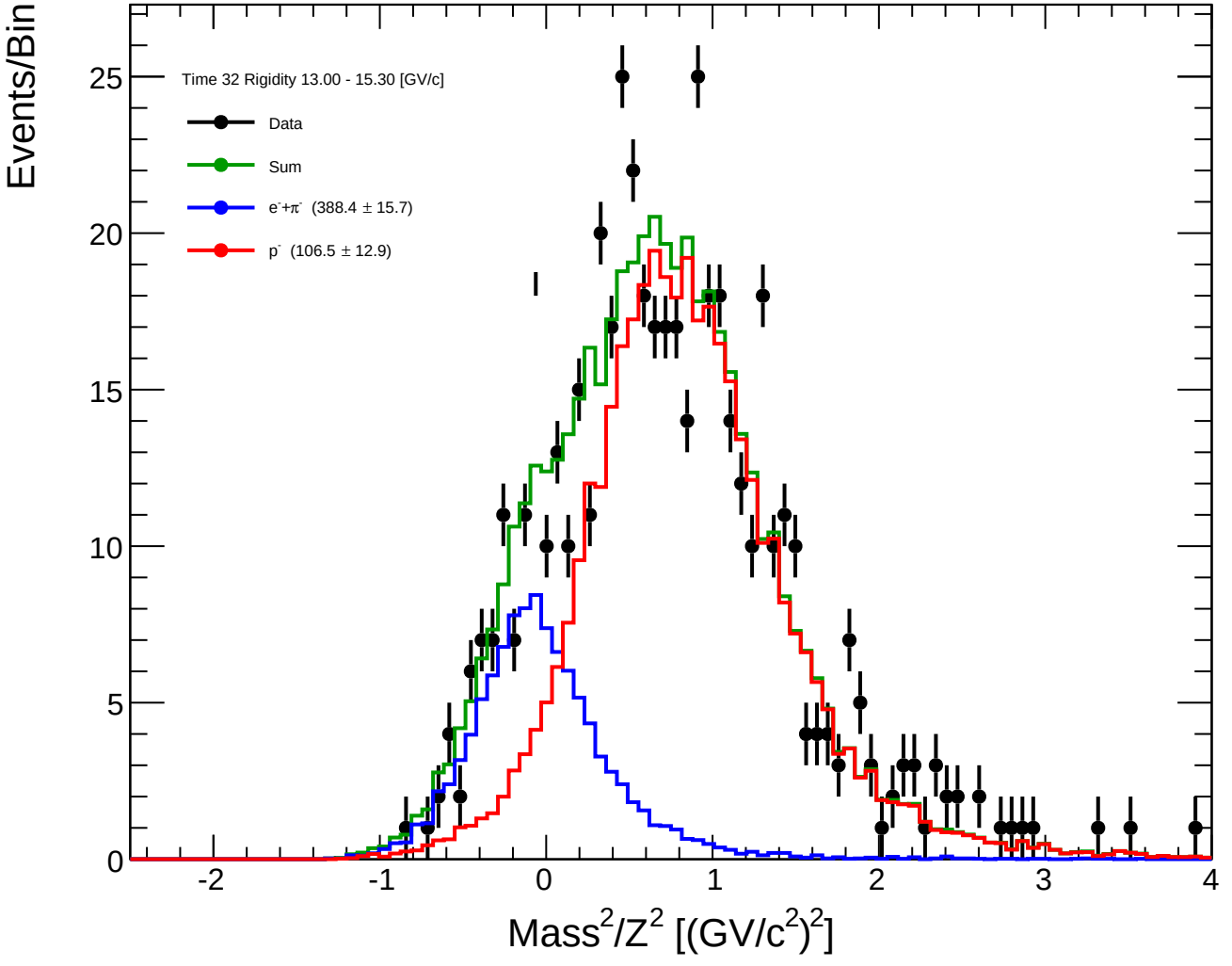

Time 32 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (318.6 ± 8.1)
p⁻ (7.0 ± 6.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

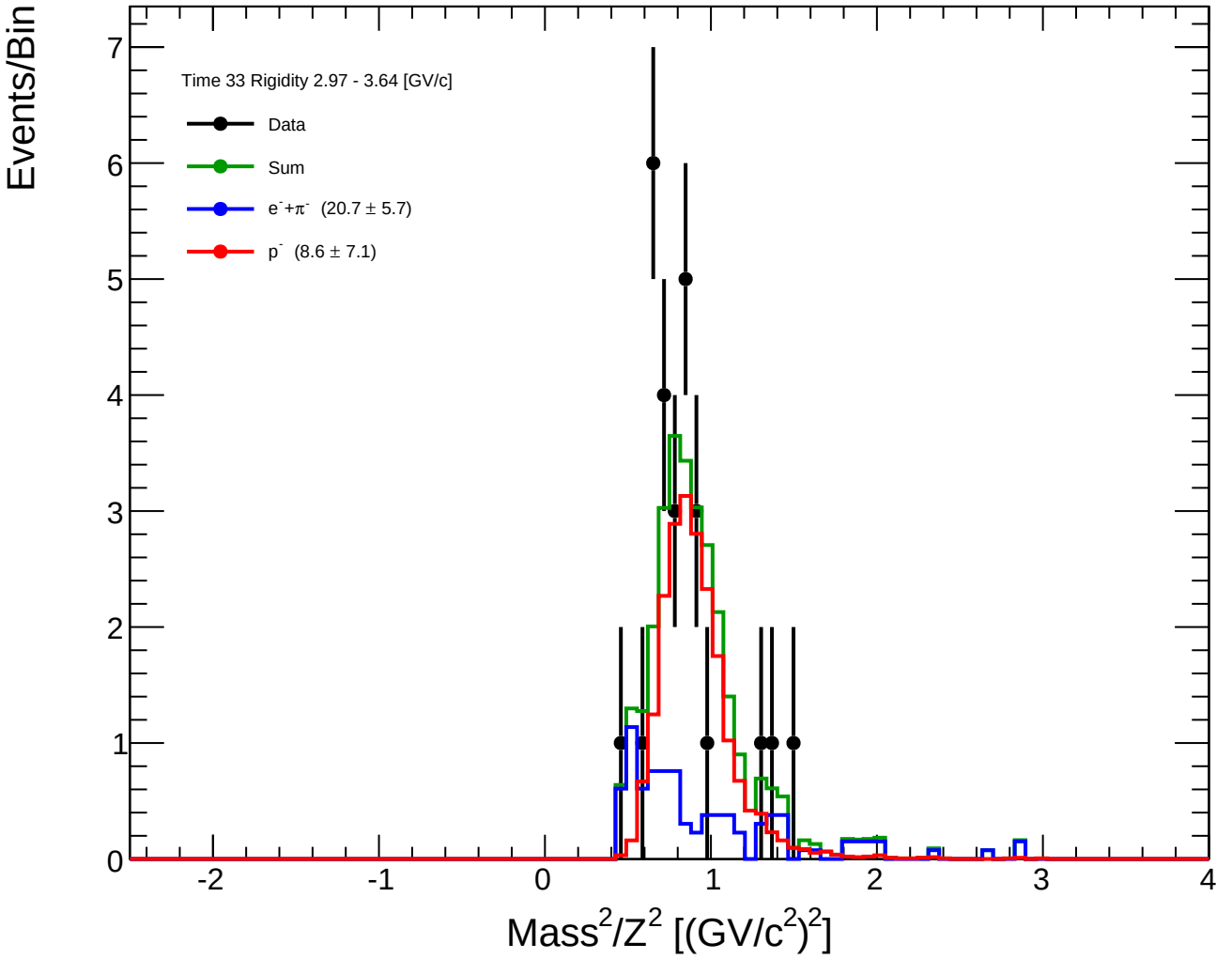

Time 32 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (273.9 ± 9.1)
p⁻ (16.1± 5.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

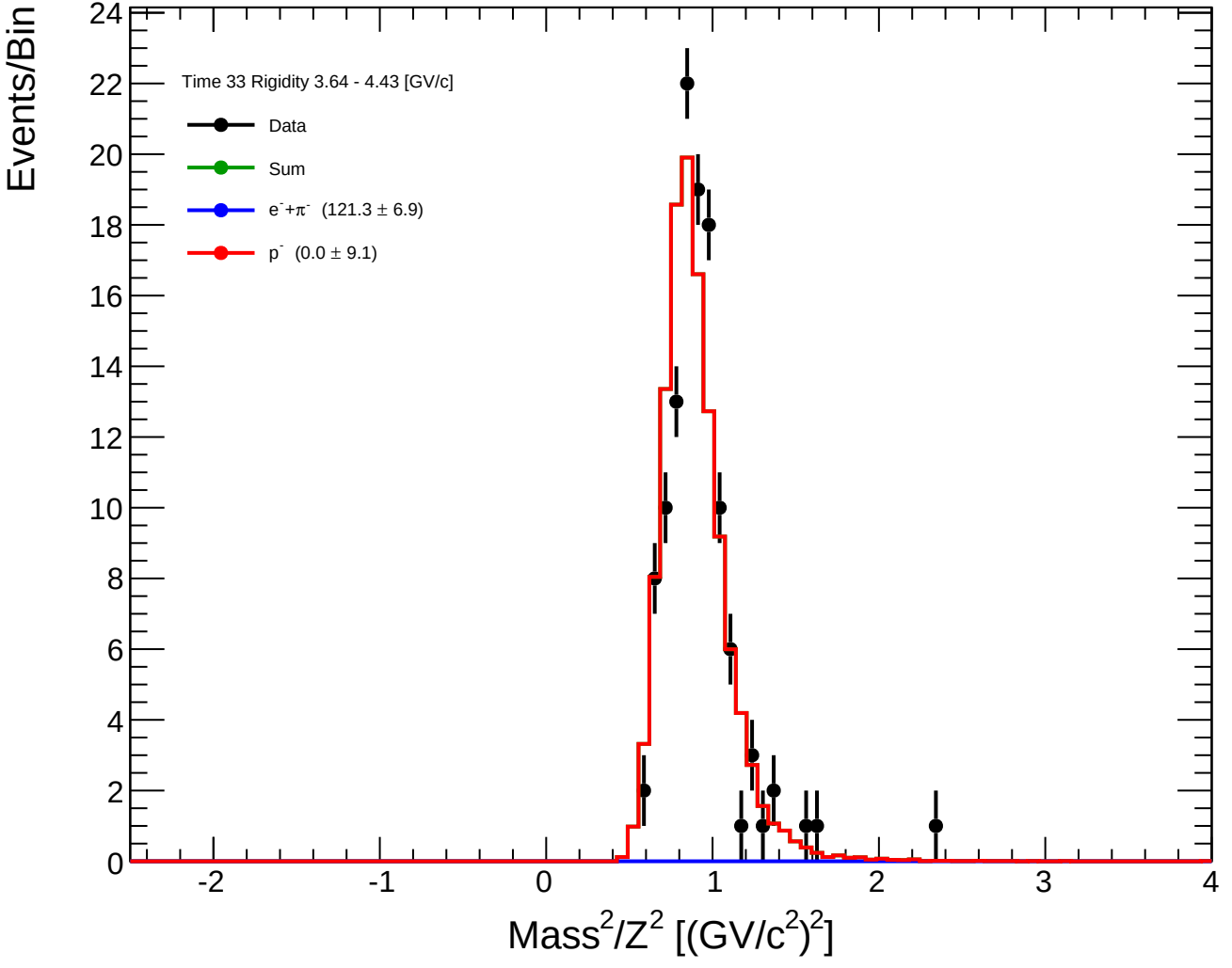

Time 32 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (241.5 ± 9.7)
p⁻ (58.4 ± 6.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

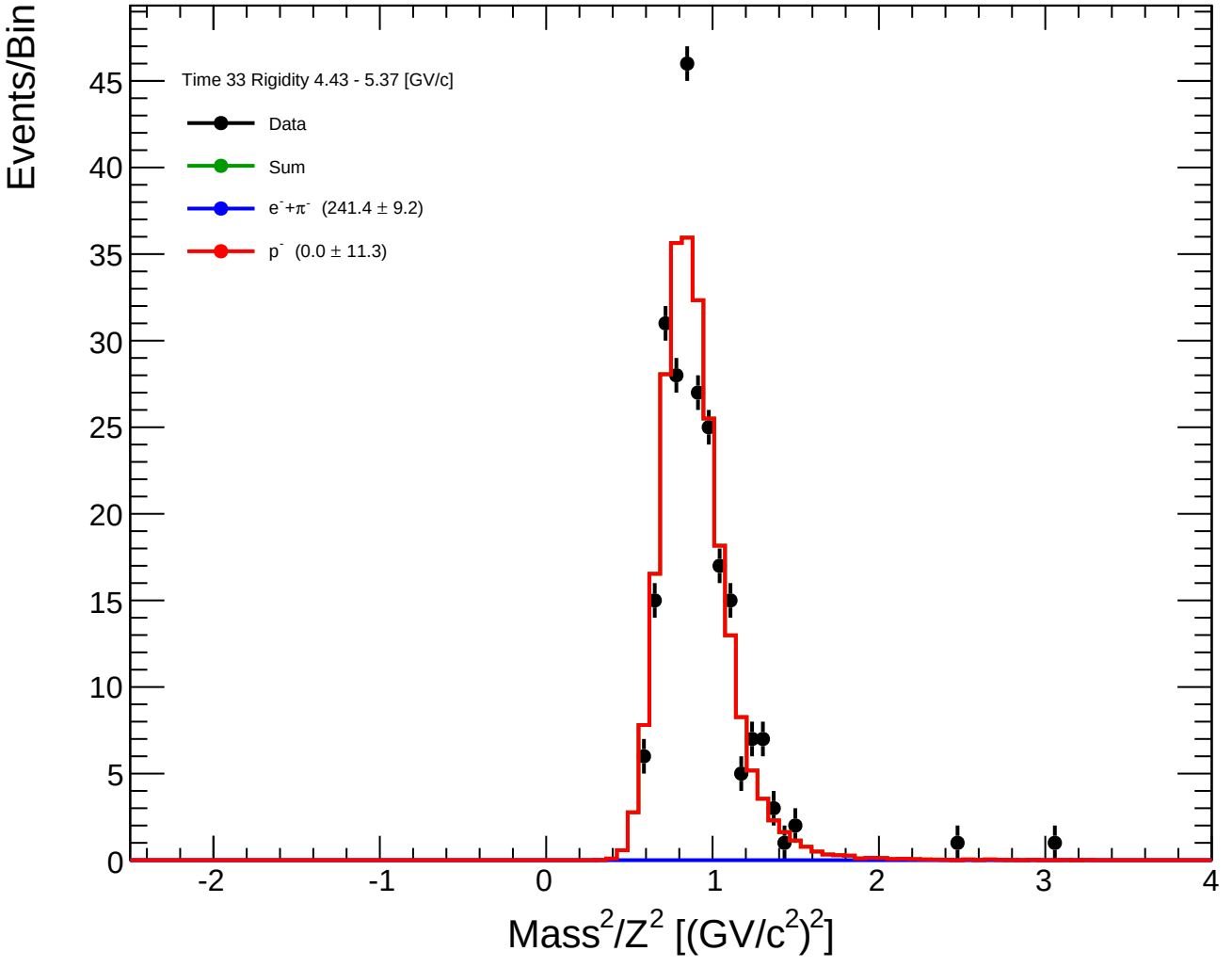

Time 32 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (504.5 ± 11.2)
p⁻ (167.9 ± 7.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

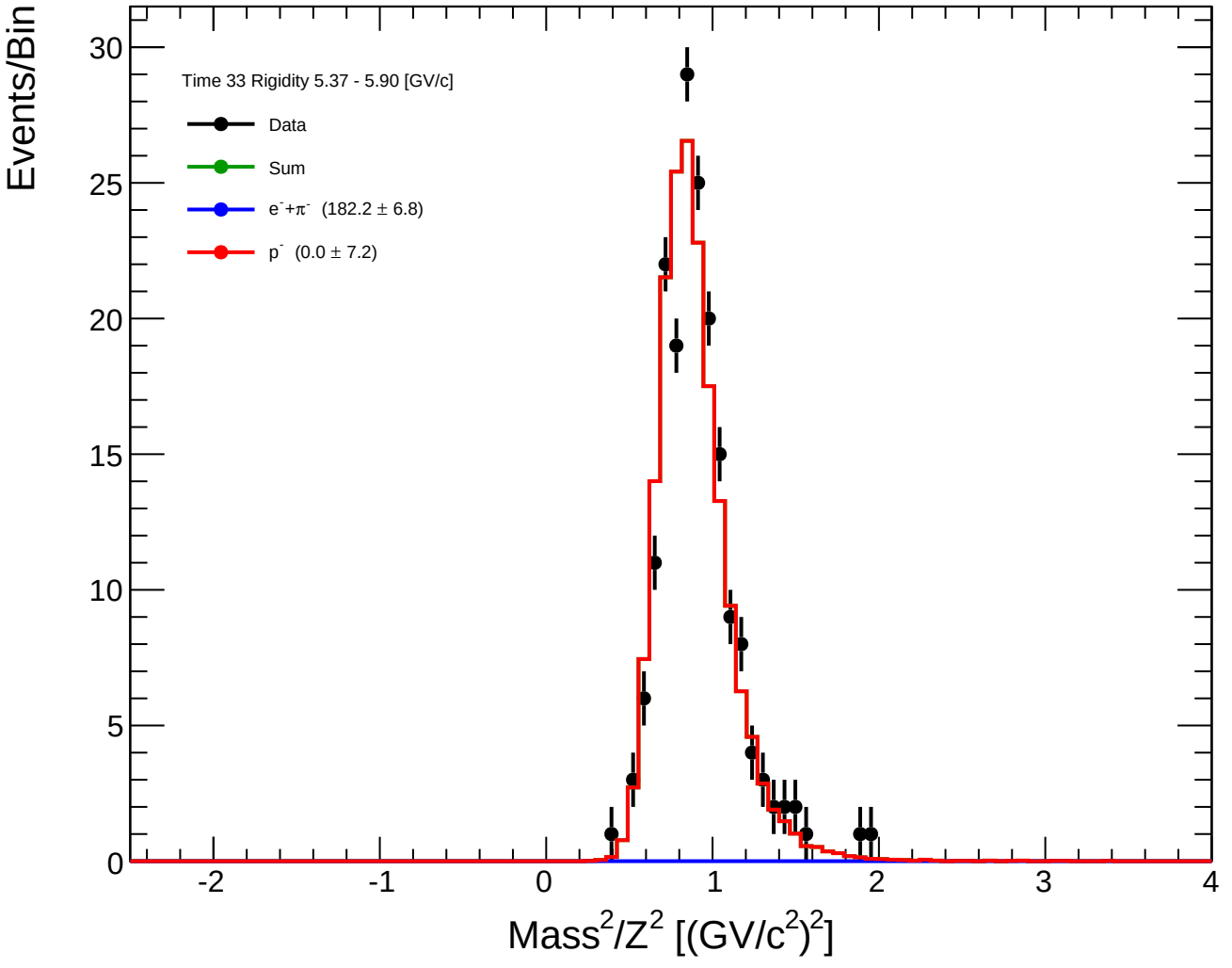

Time 32 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (446.1 ± 12.2)
p⁻ (118.5 ± 9.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

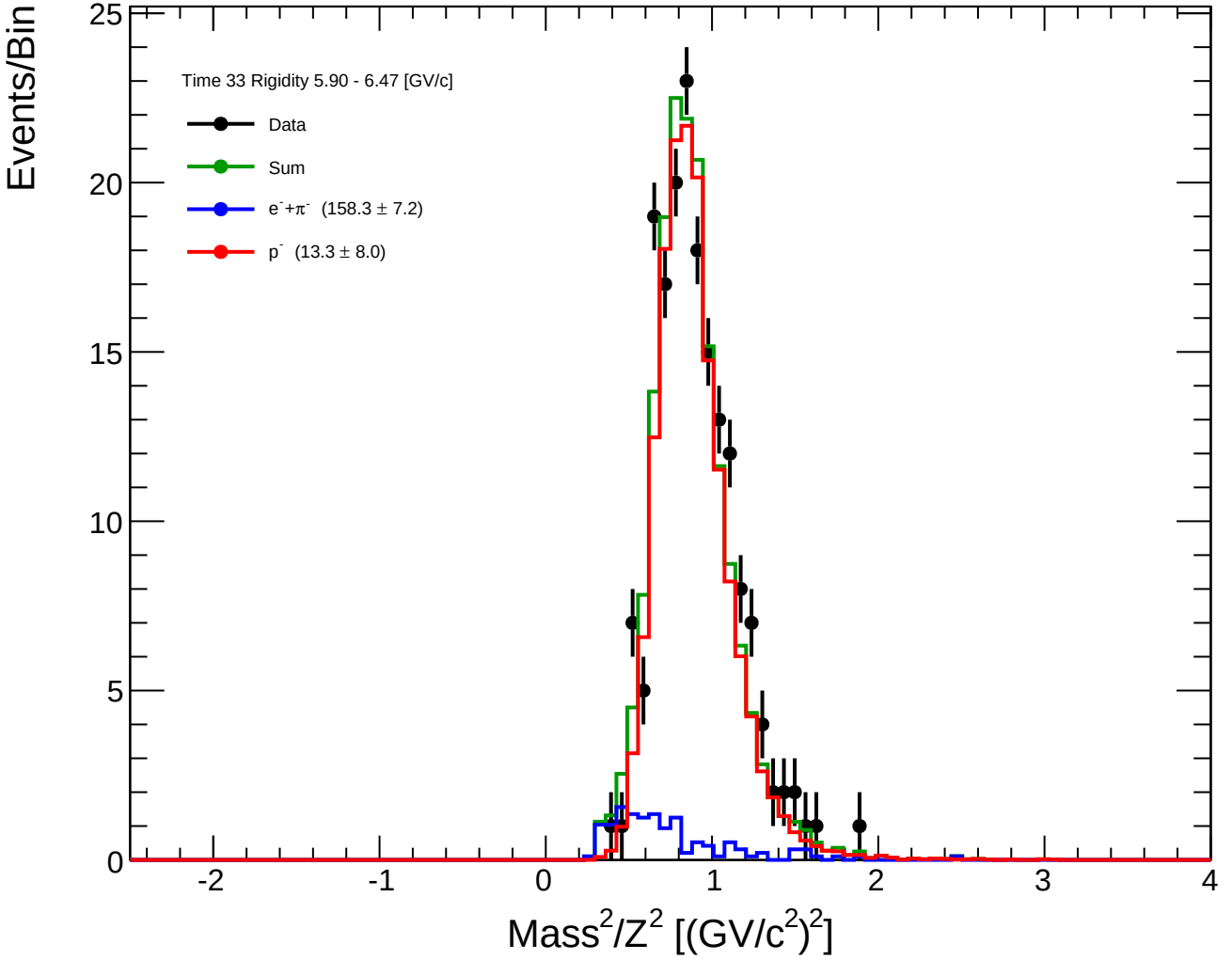

Time 32 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (388.4 ± 15.7)
p⁻ (106.5 ± 12.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

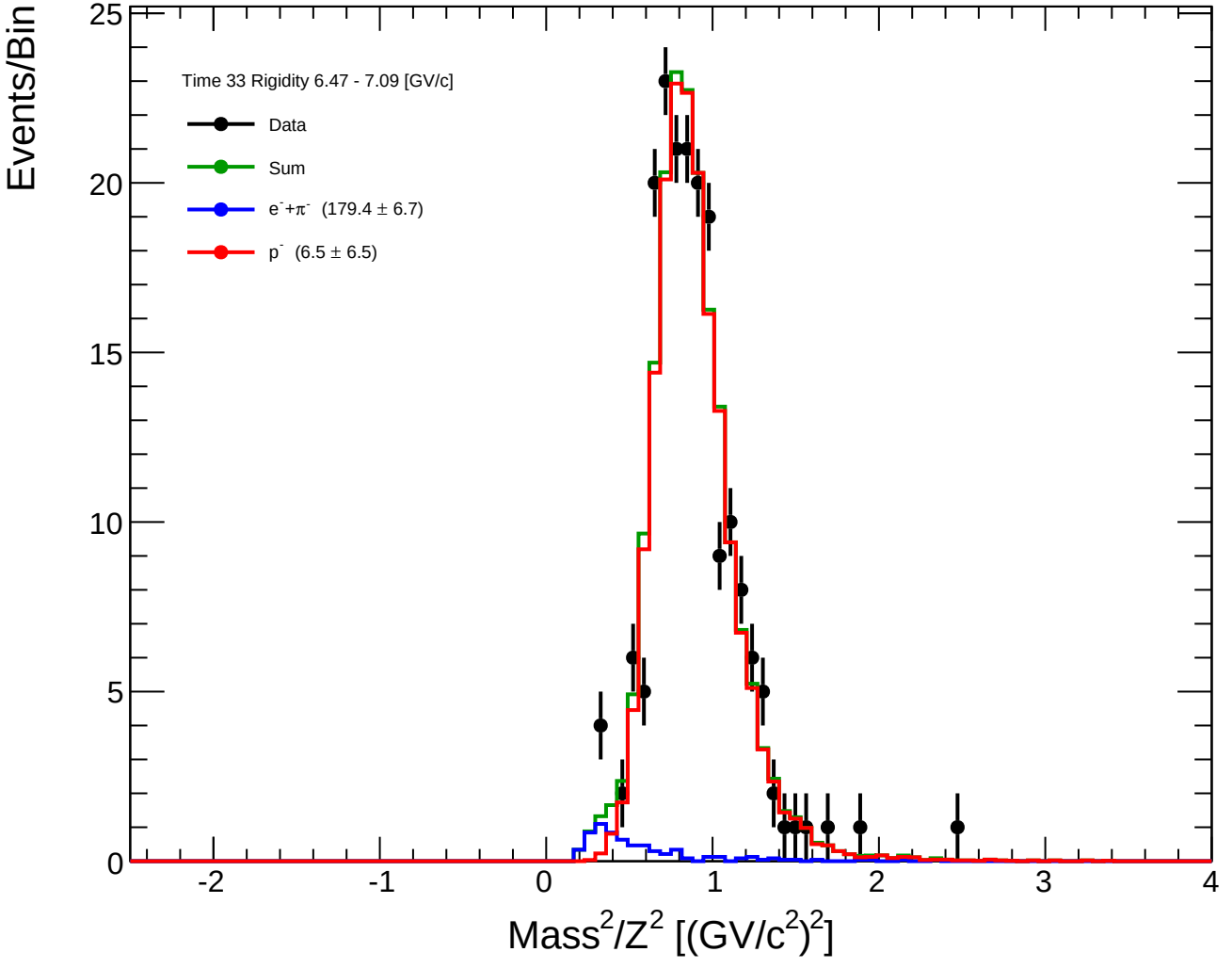

Events/Bin
Time 33 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (20.7 ± 5.7)
p⁻ (8.6 ± 7.1)
0
1
2
3
4
5
6
7
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

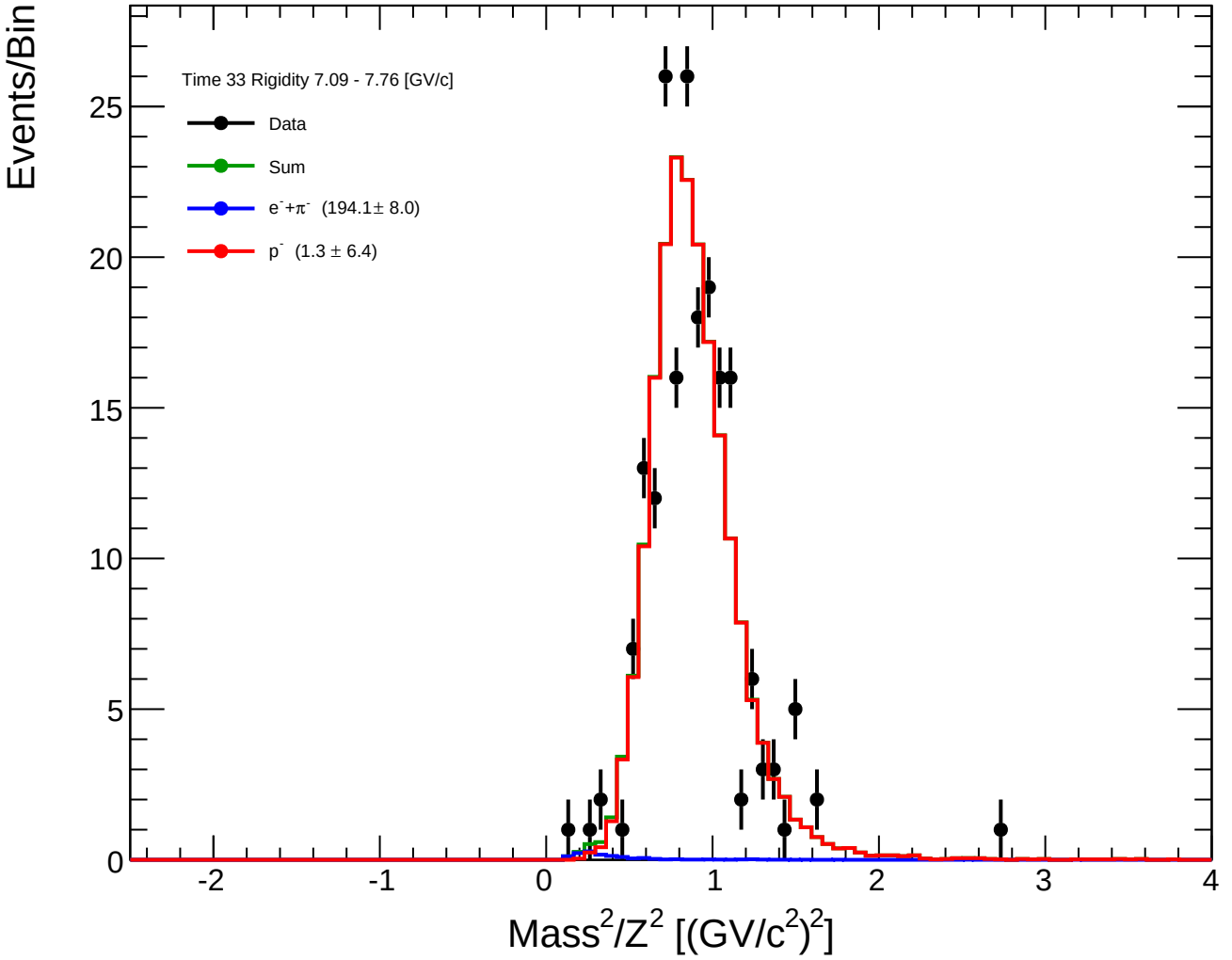

Time 33 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (121.3 ± 6.9)
p⁻ (0.0 ± 9.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
22
24
-2
-1
0
1
2
3
4

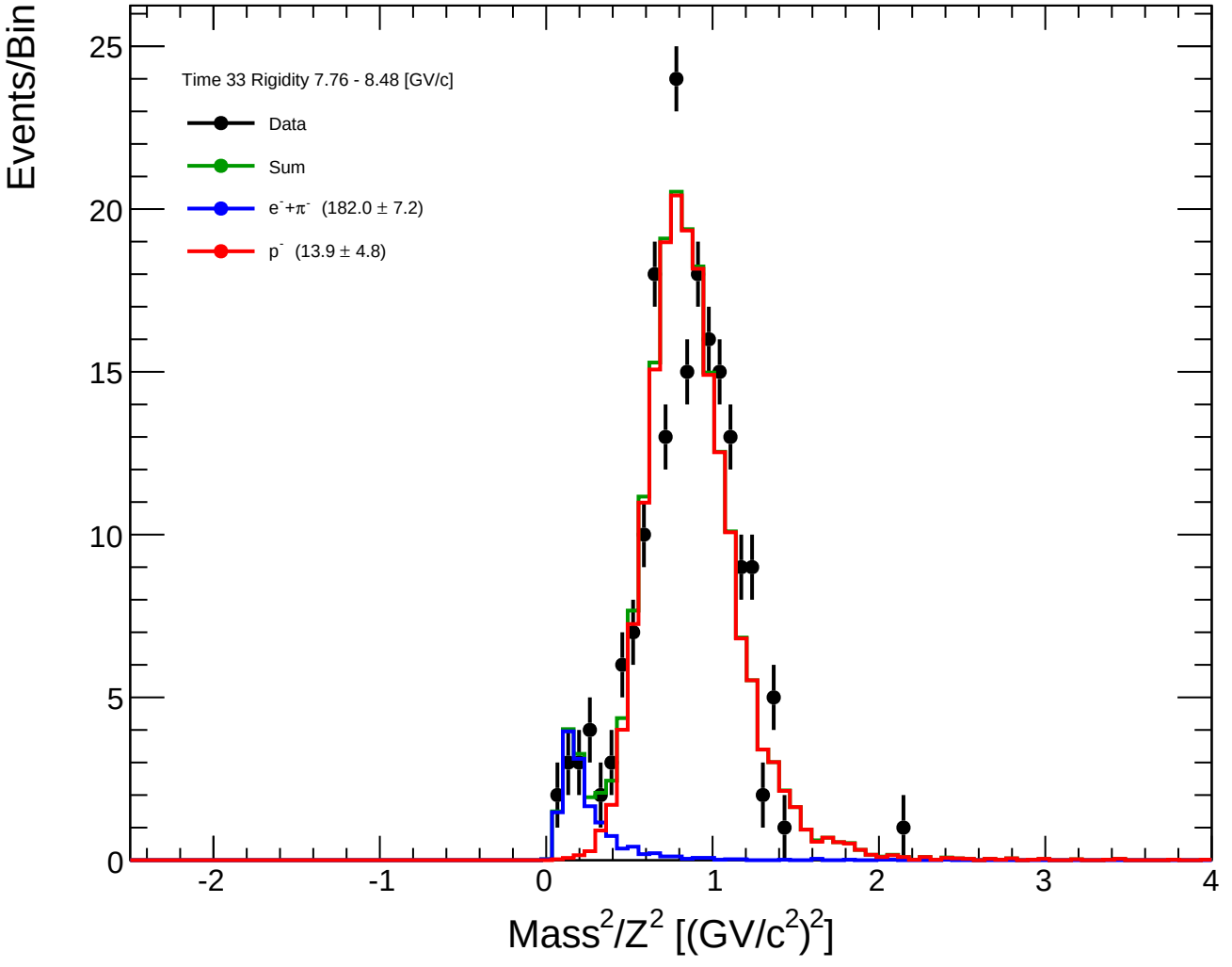

Time 33 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (241.4 ± 9.2)
p⁻ (0.0 ± 11.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

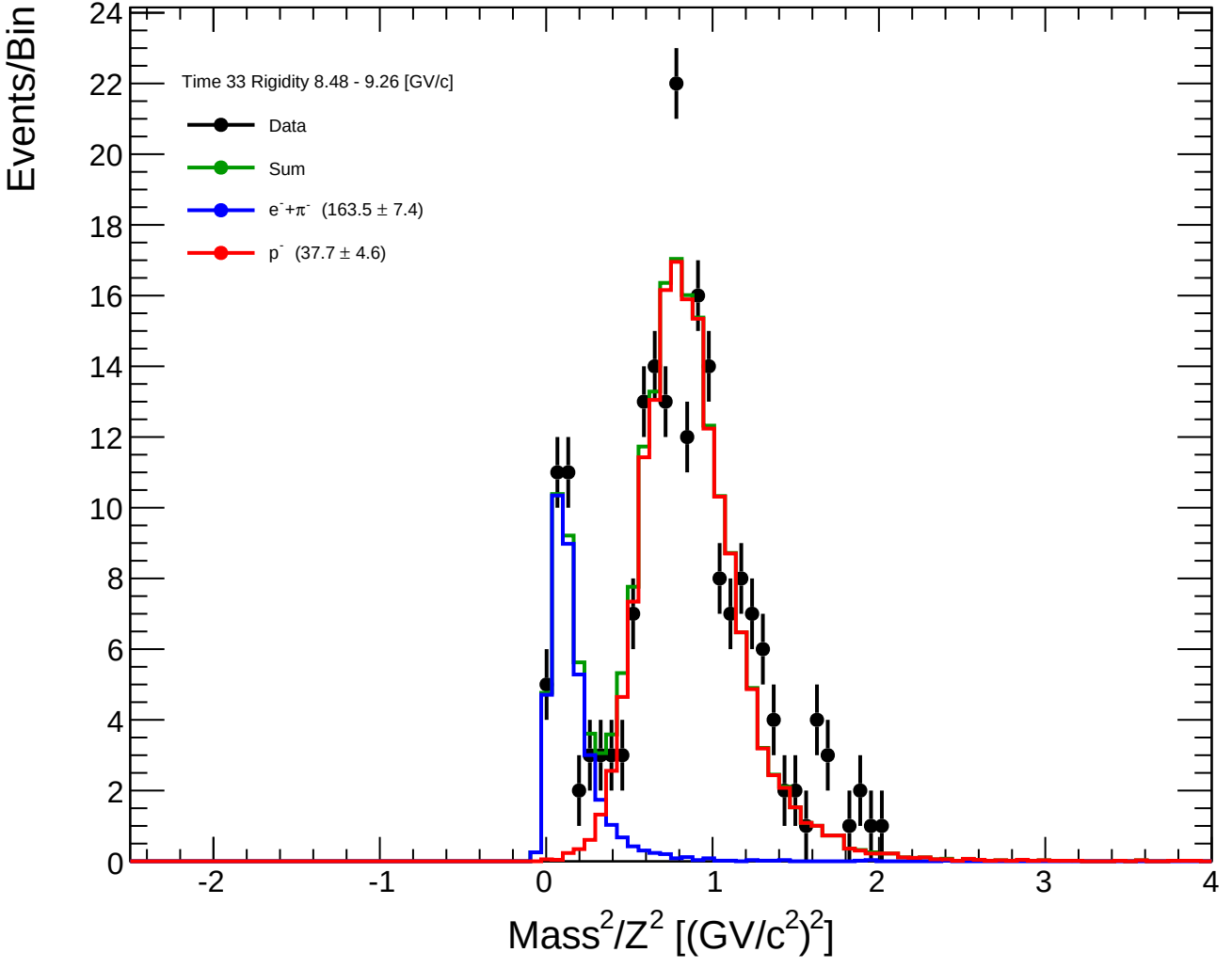

Time 33 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (182.2 ± 6.8)
p⁻ (0.0 ± 7.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

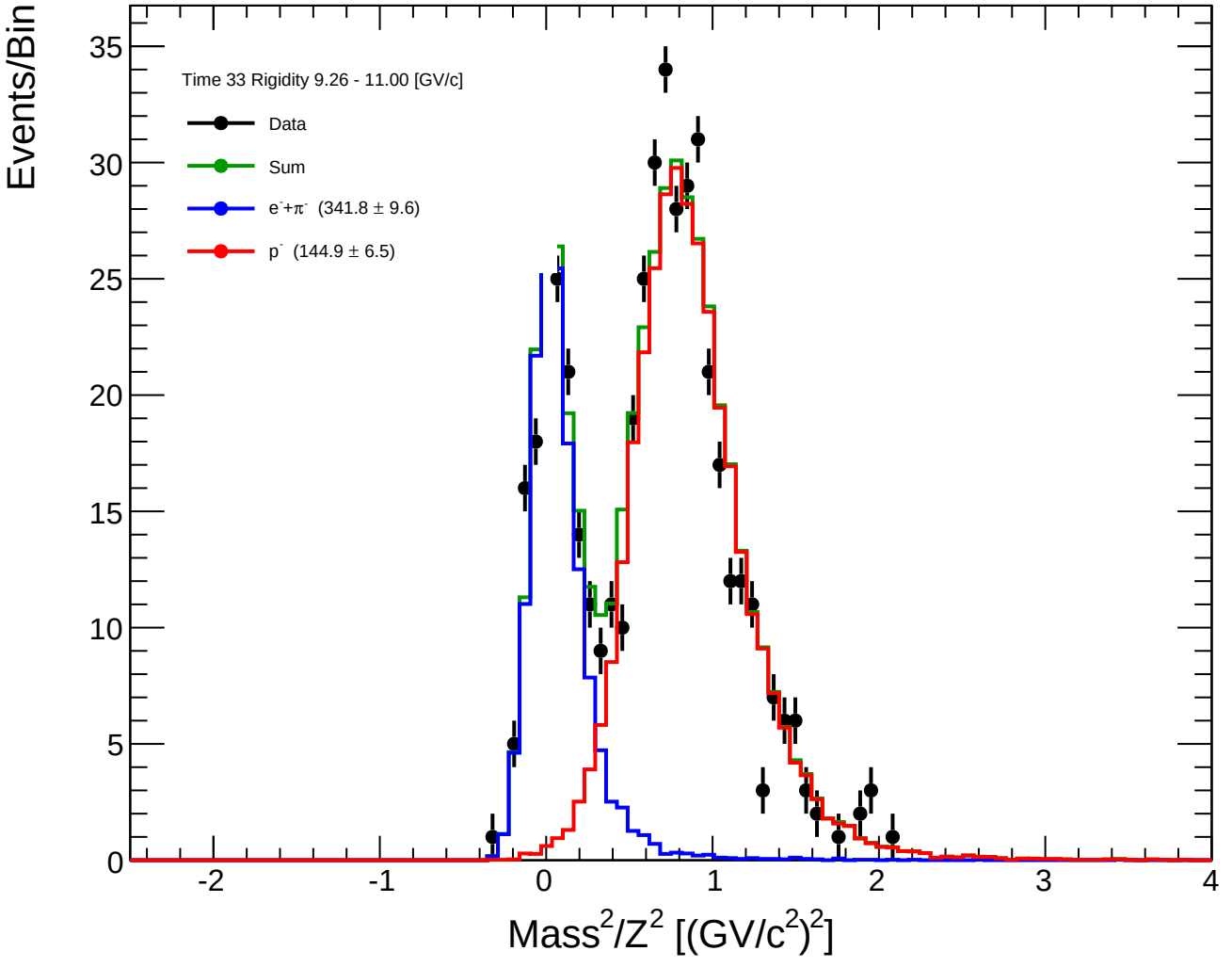

Time 33 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (158.3 ± 7.2)
p⁻ (13.3 ± 8.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

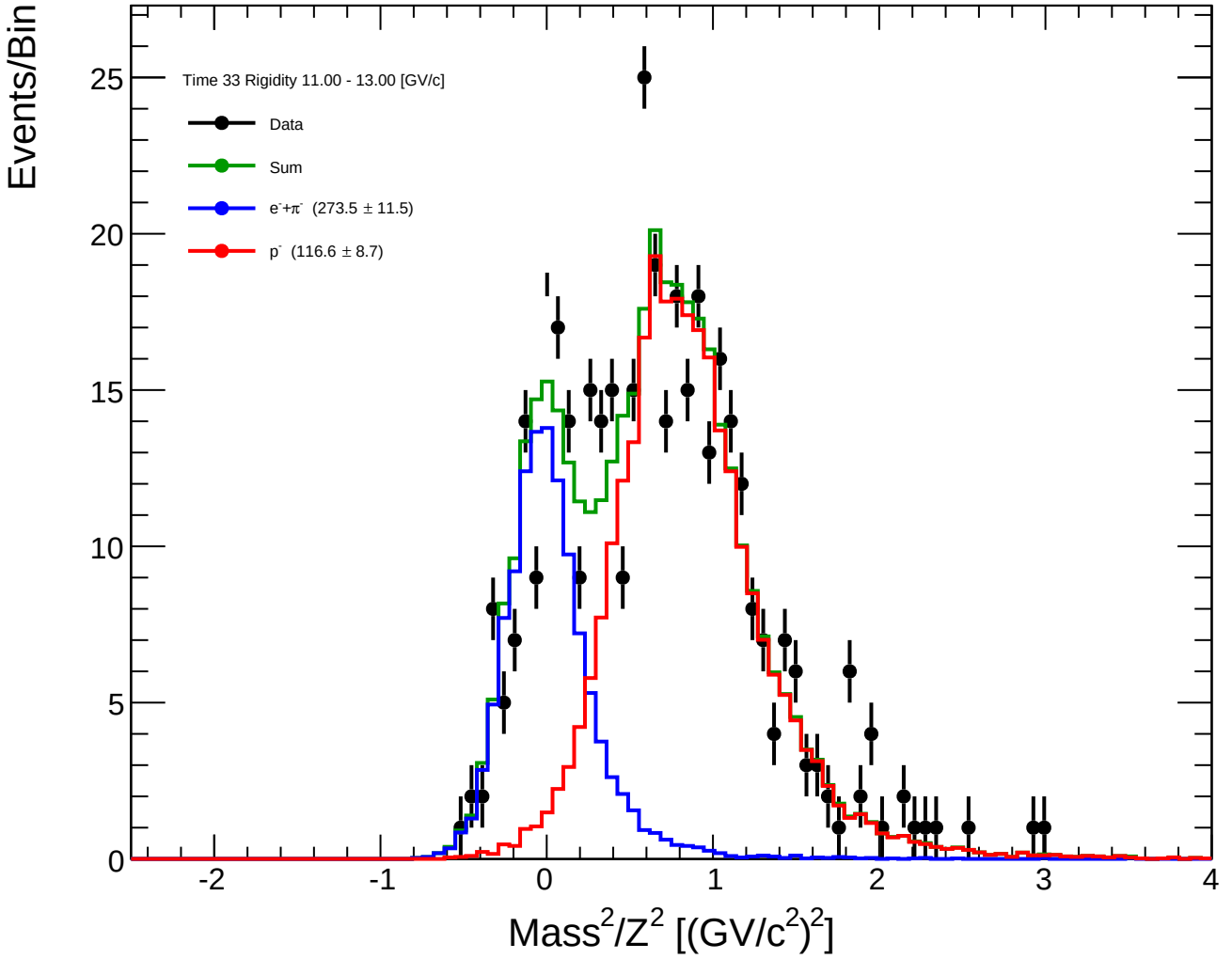

Time 33 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (179.4 ± 6.7)
p⁻ (6.5 ± 6.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

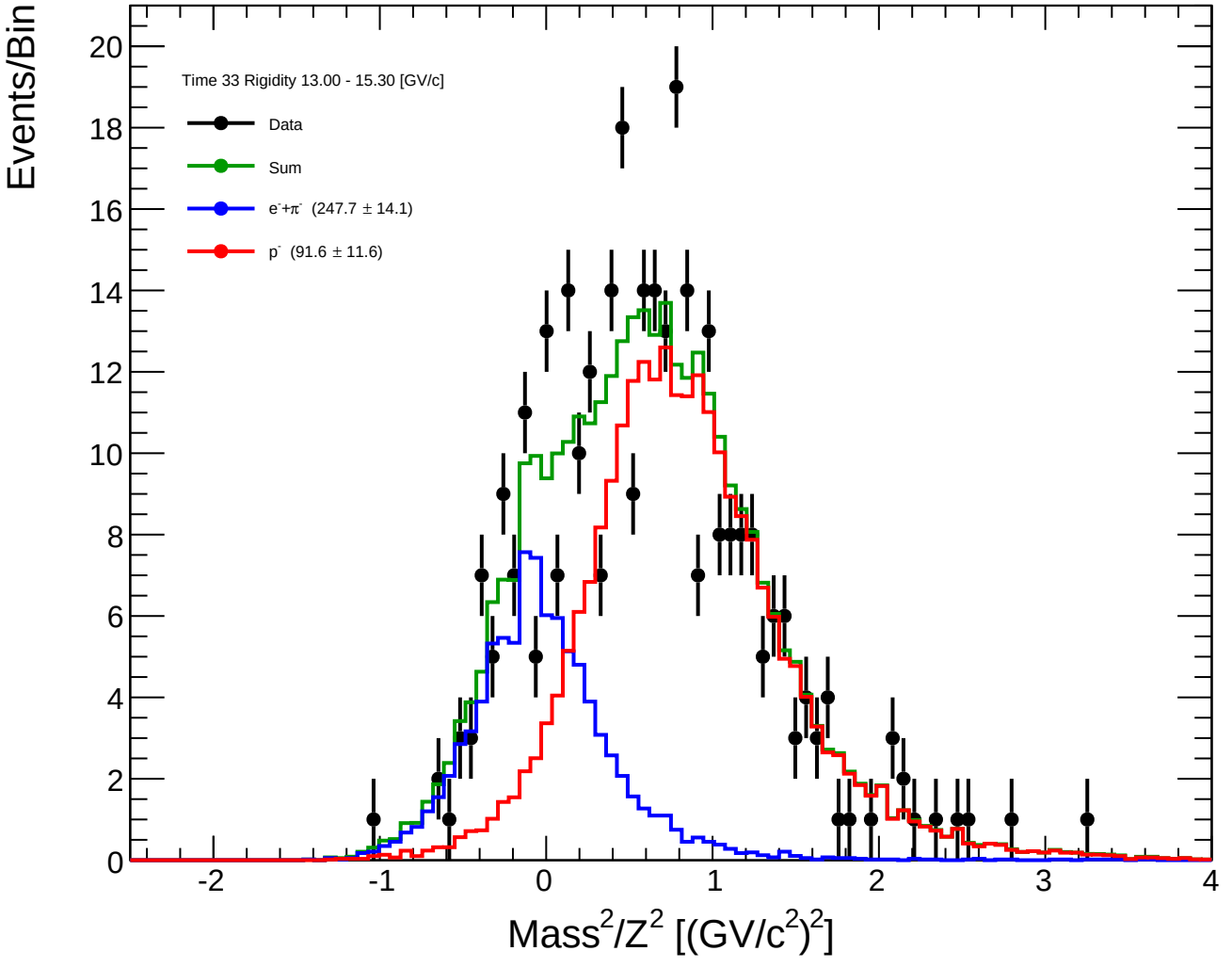

Time 33 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (194.1± 8.0)
p⁻ (1.3 ± 6.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

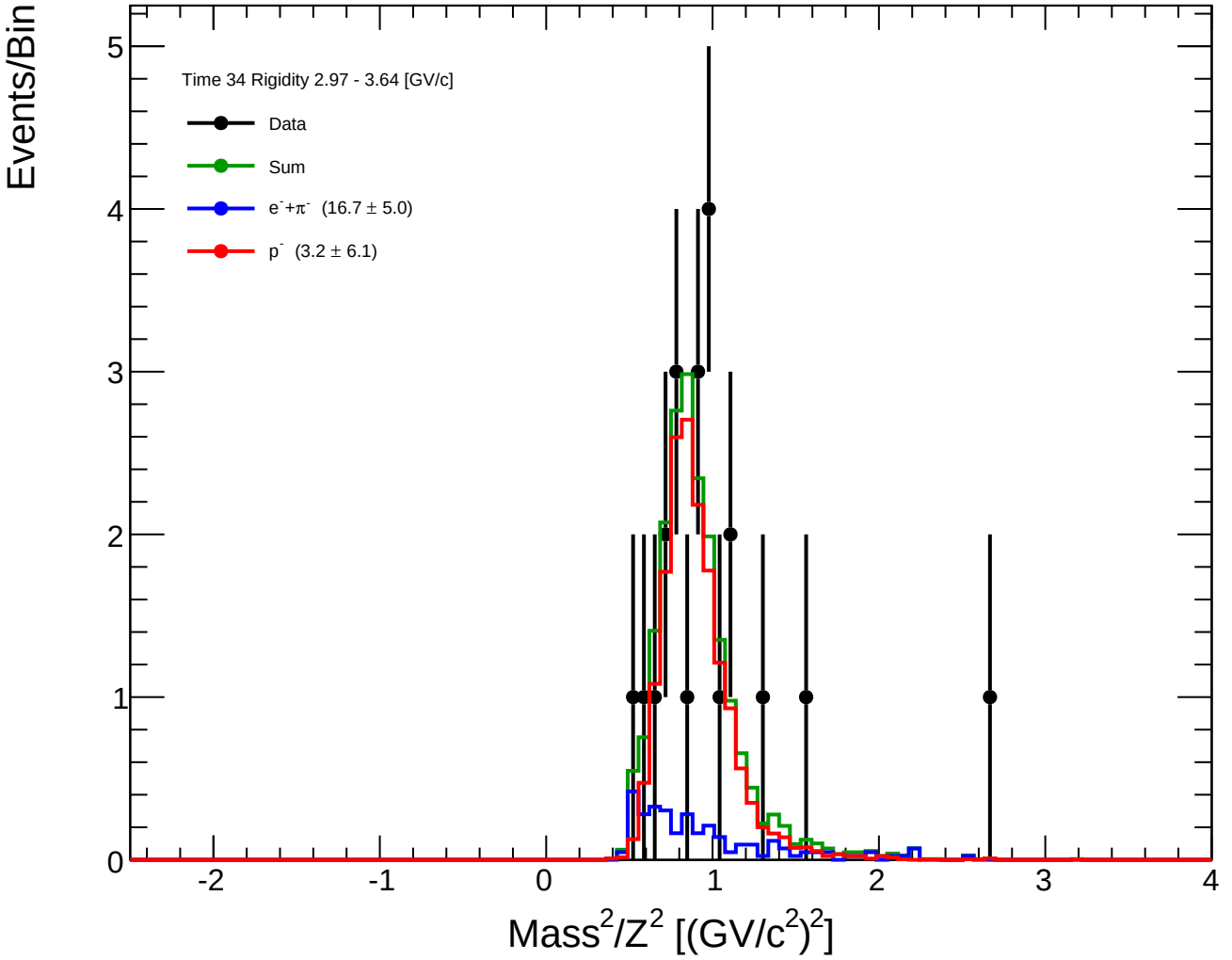

Time 33 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (182.0 ± 7.2)
p⁻ (13.9 ± 4.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

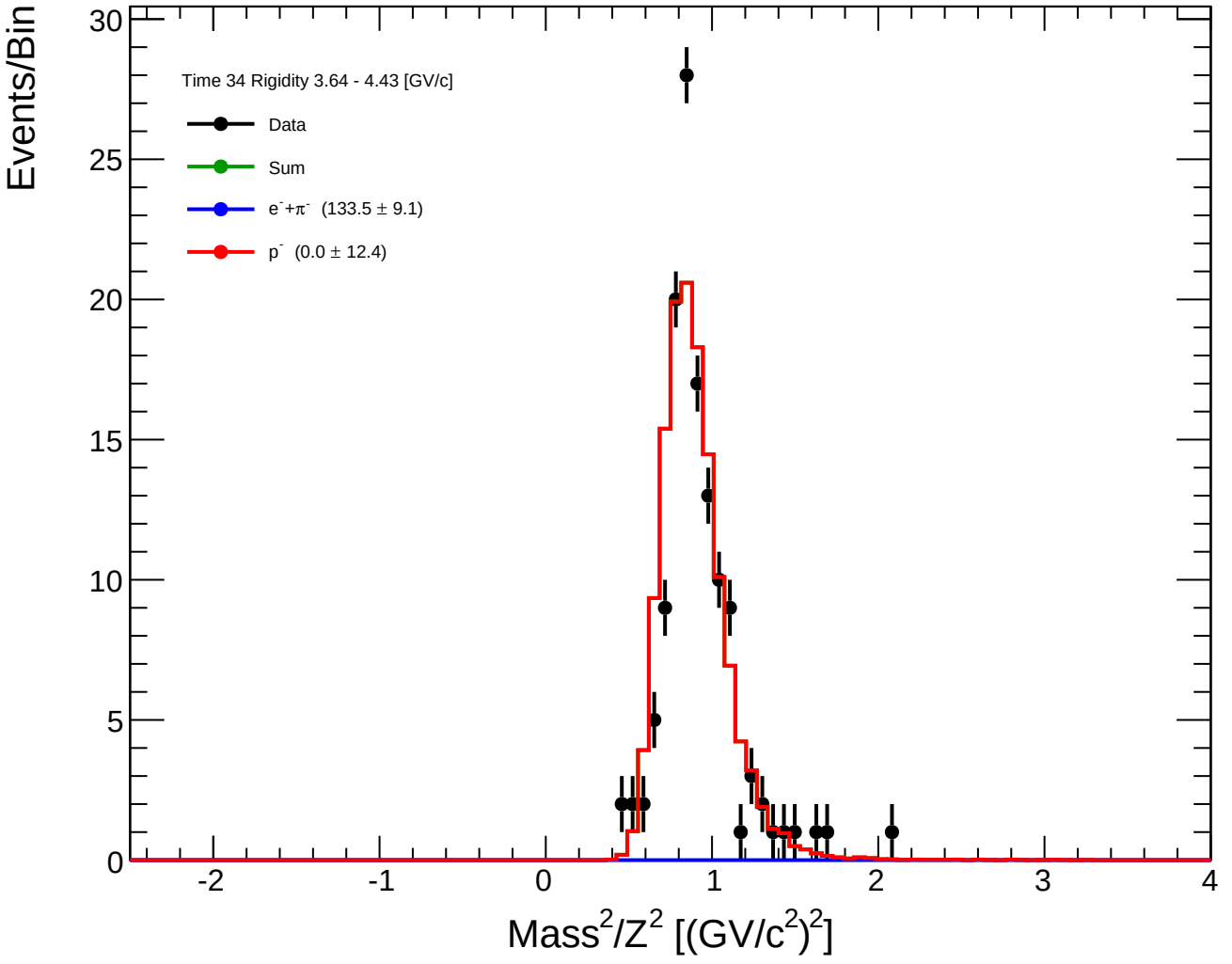

Time 33 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (163.5 ± 7.4)
p⁻ (37.7 ± 4.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
22
24
-2
-1
0
1
2
3
4

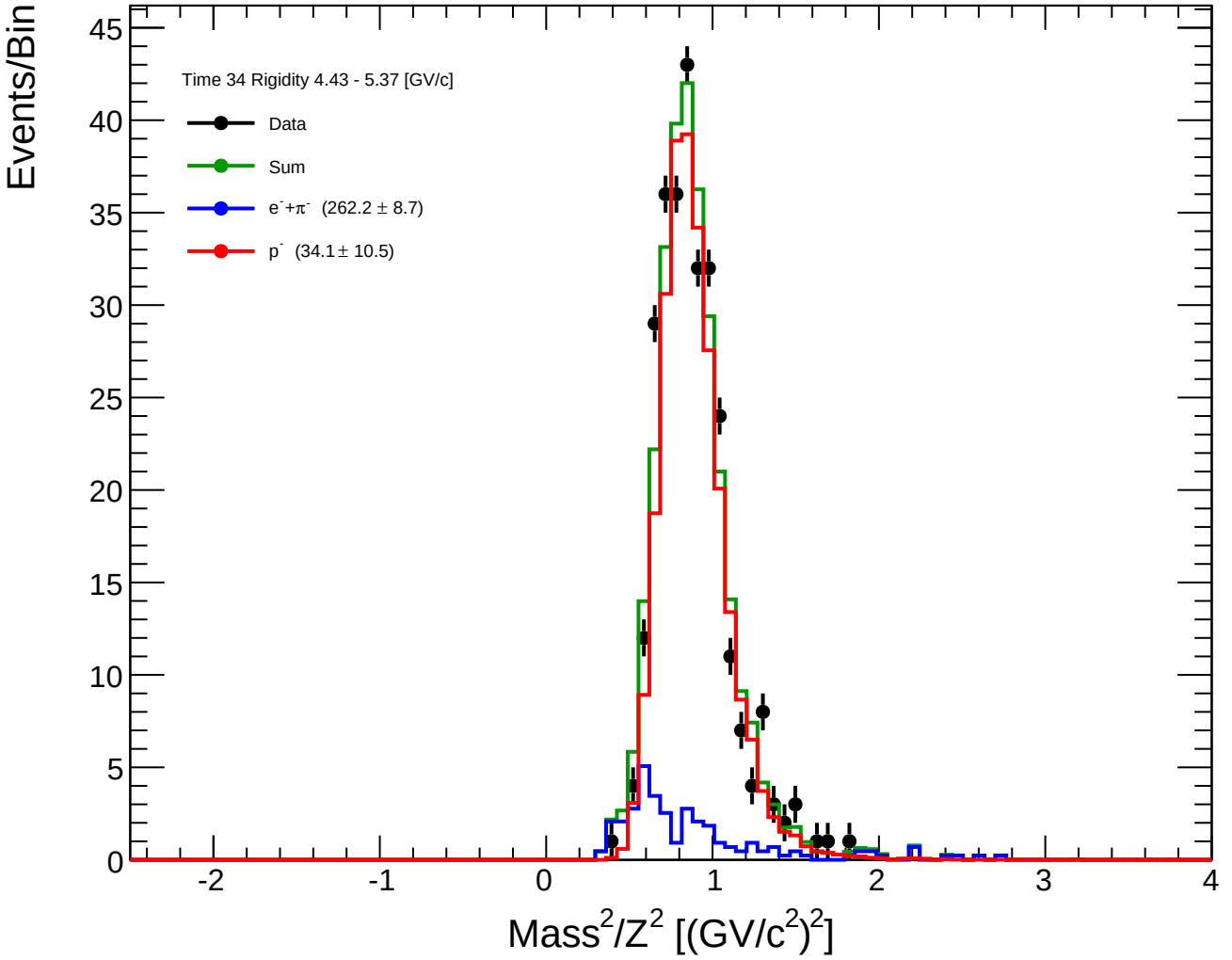

Time 33 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (341.8 ± 9.6)
p⁻ (144.9 ± 6.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

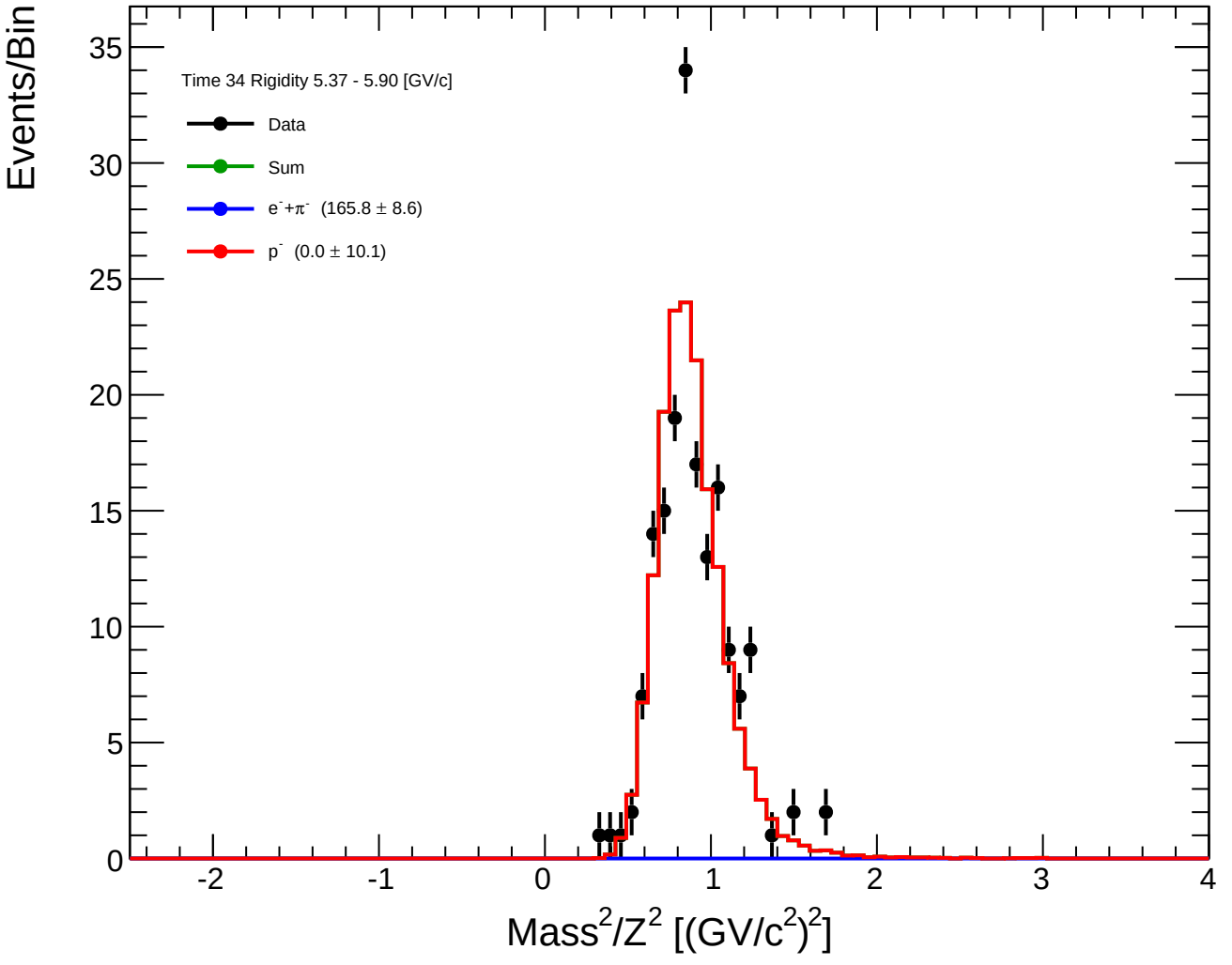

Time 33 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (273.5 ± 11.5)
p⁻ (116.6 ± 8.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

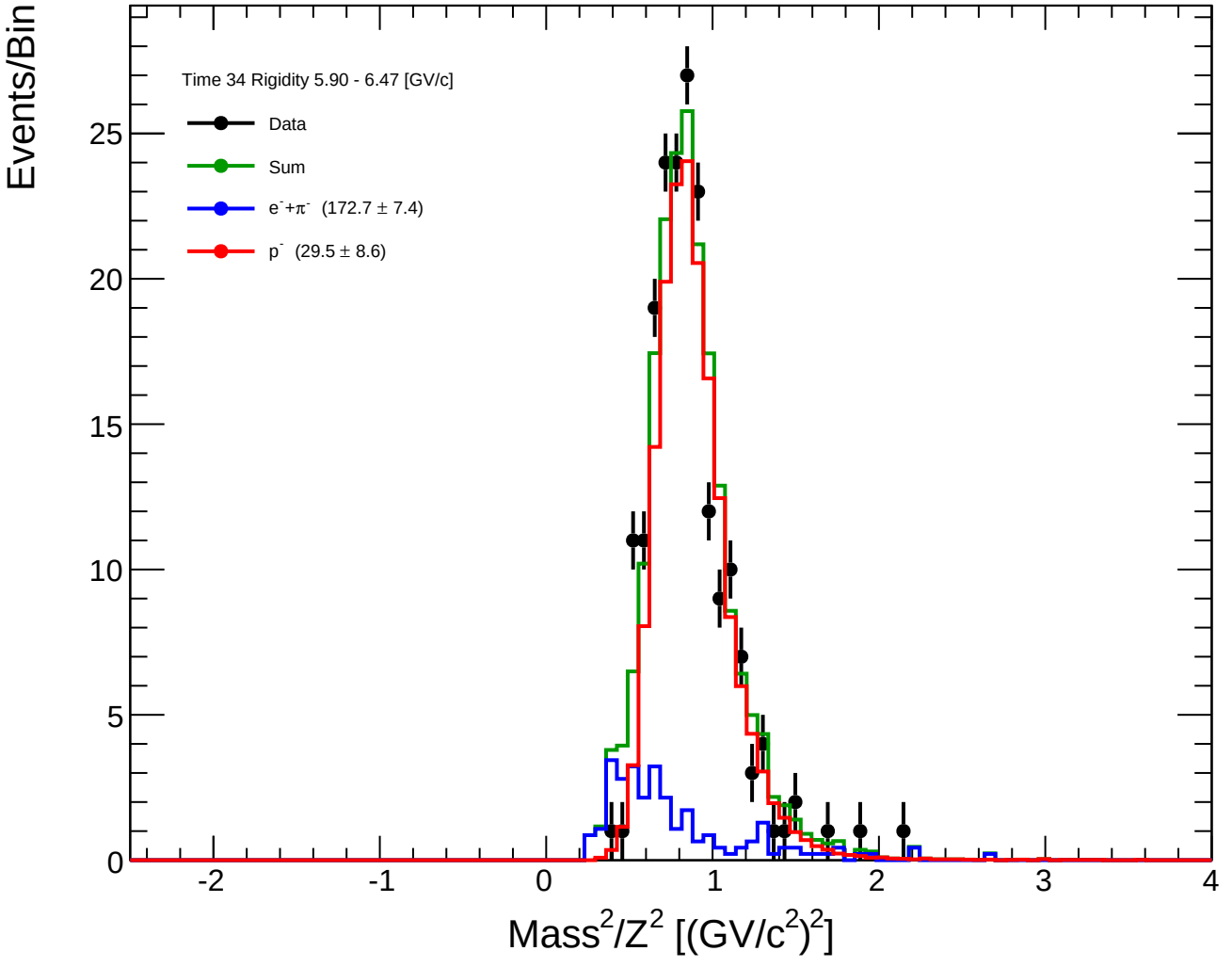

Time 33 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (247.7 ± 14.1)
p⁻ (91.6 ± 11.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
-2
-1
0
1
2
3
4

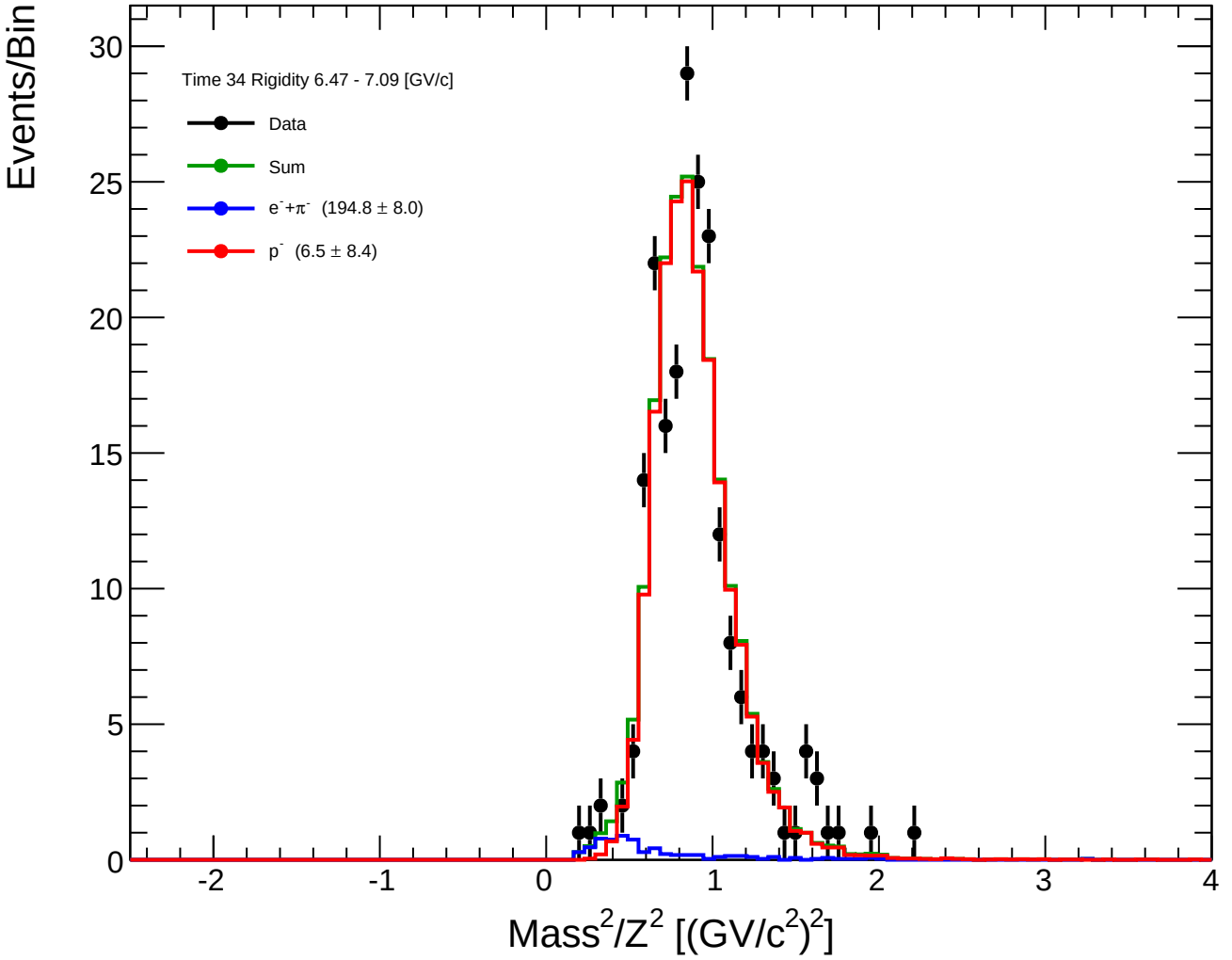

Events/Bin
Time 34 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (16.7 ± 5.0)
p⁻ (3.2 ± 6.1)
0
1
2
3
4
5
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

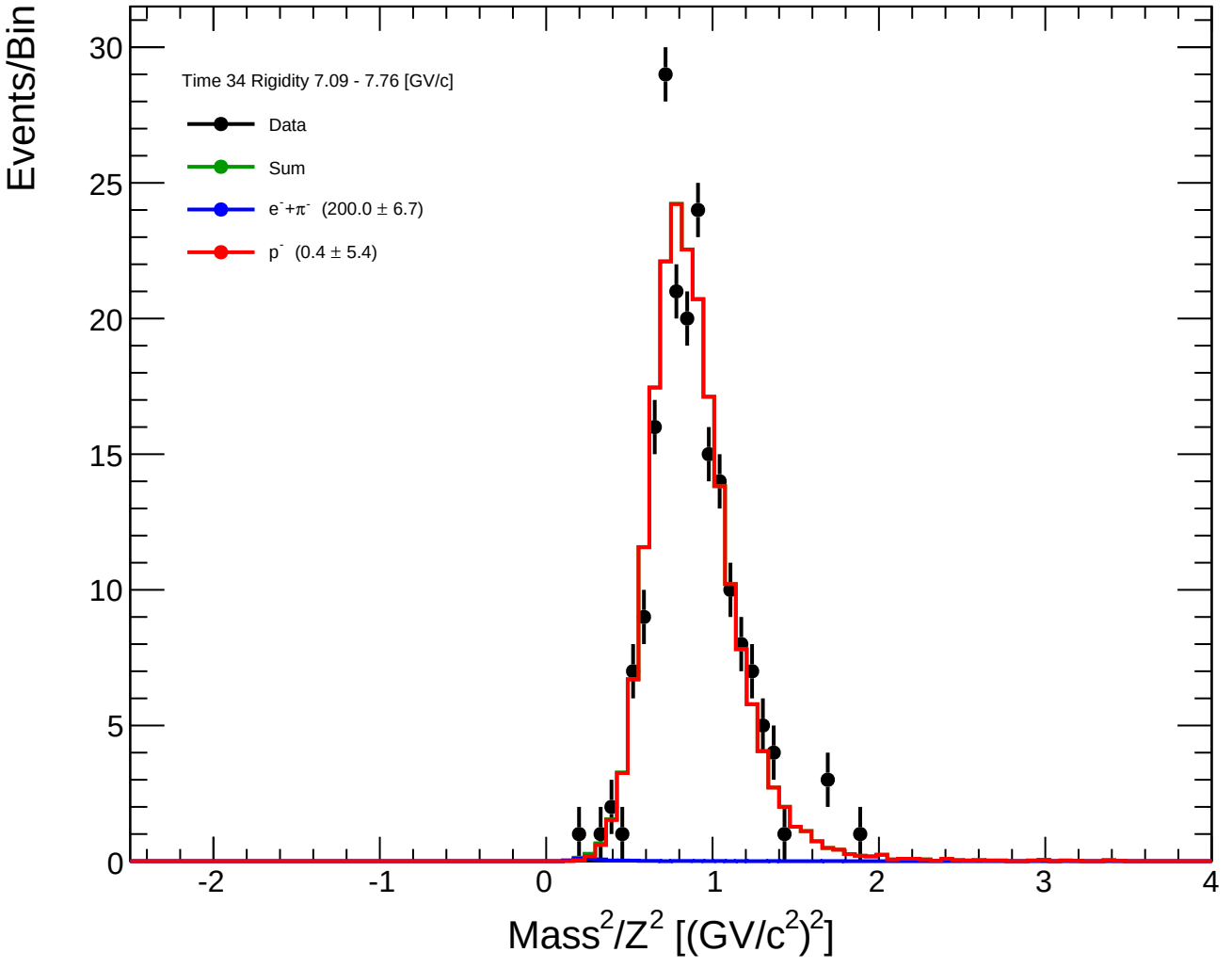

Events/Bin
Time 34 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (133.5 ± 9.1)
p⁻ (0.0 ± 12.4)
30
25
20
15
10
5
0
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

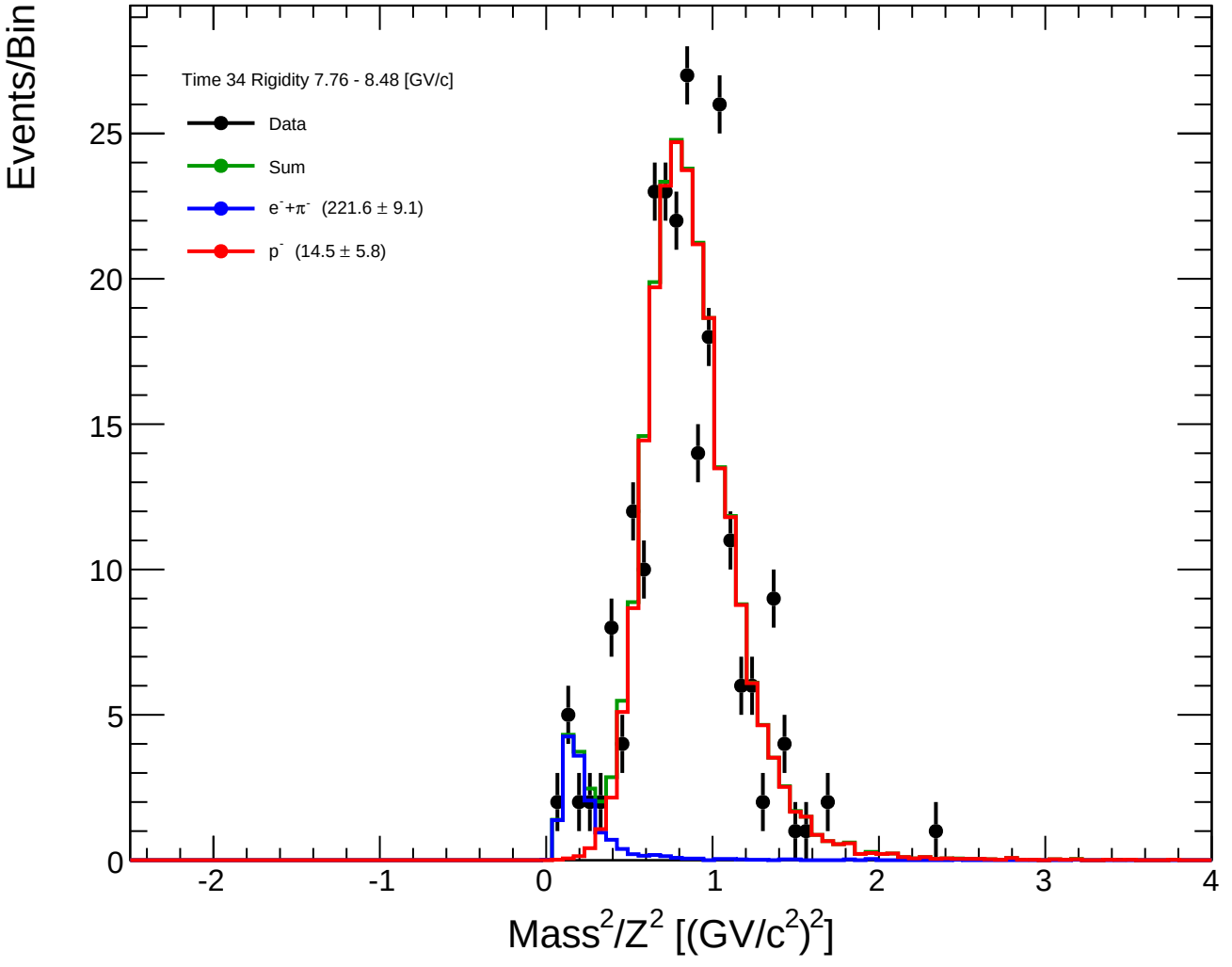

Time 34 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (262.2 ± 8.7)
p⁻ (34.1± 10.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
-2
-1
0
1
2
3
4

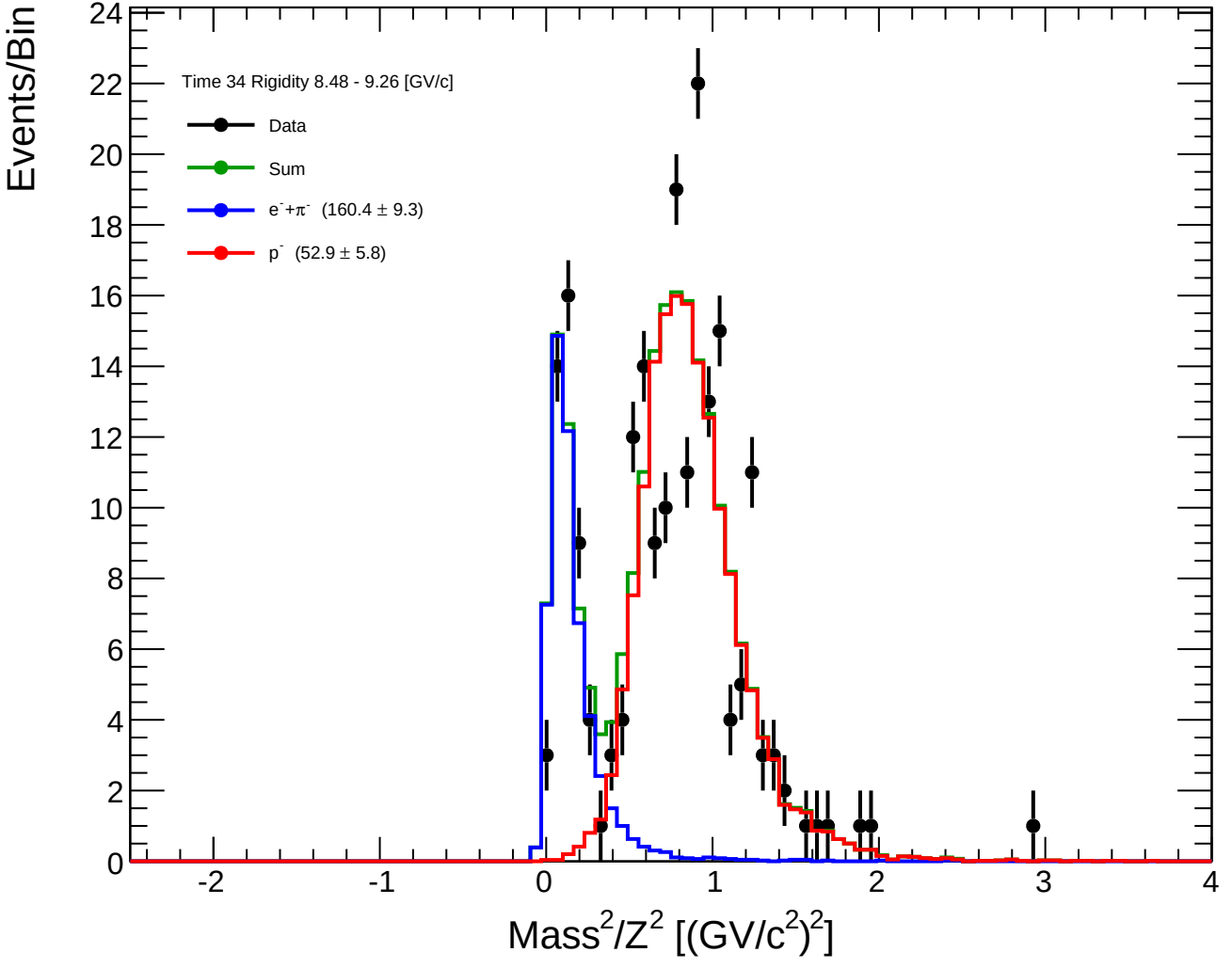

Time 34 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (165.8 ± 8.6)
p⁻ (0.0 ± 10.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

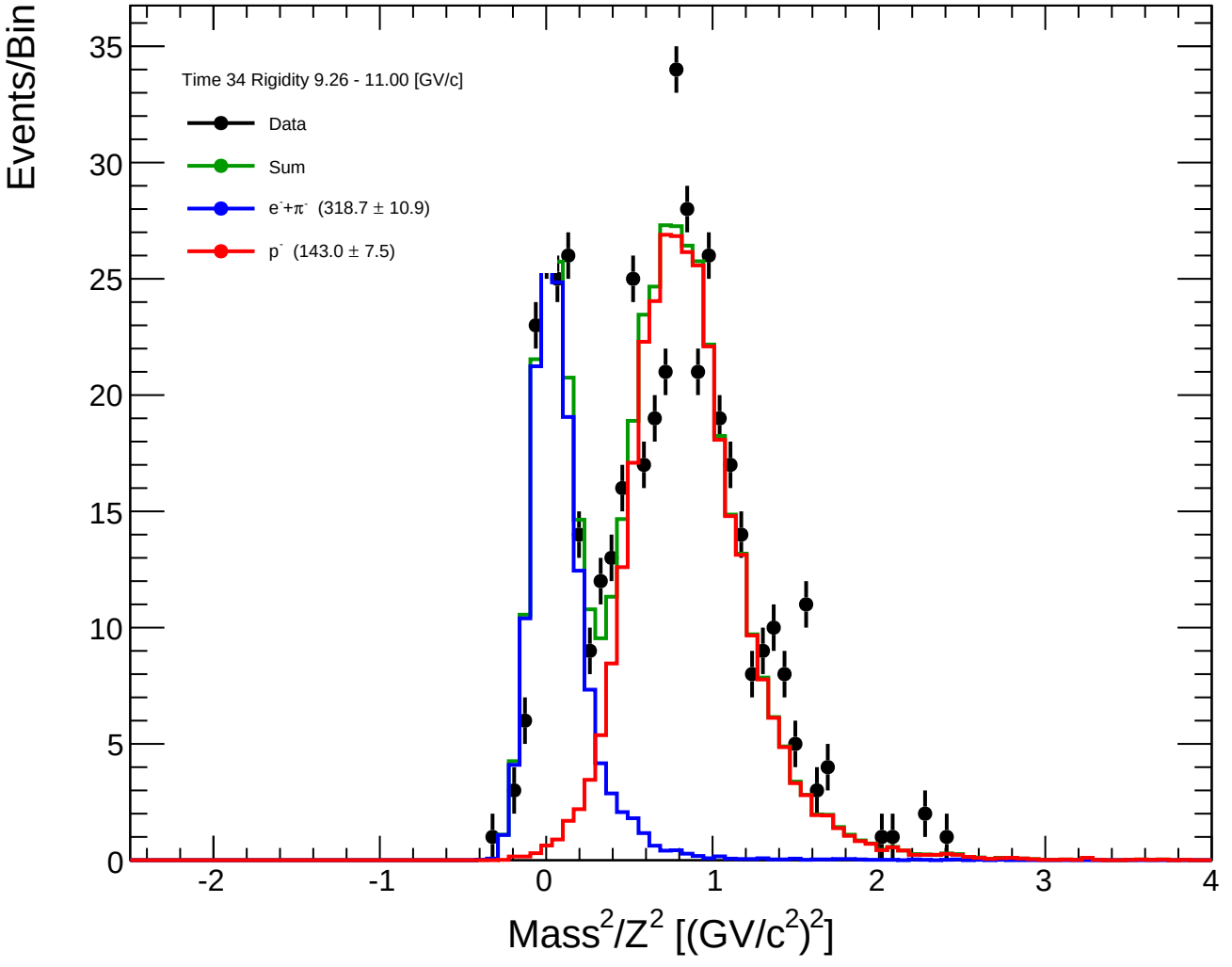

Time 34 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (172.7 ± 7.4)
p⁻ (29.5 ± 8.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

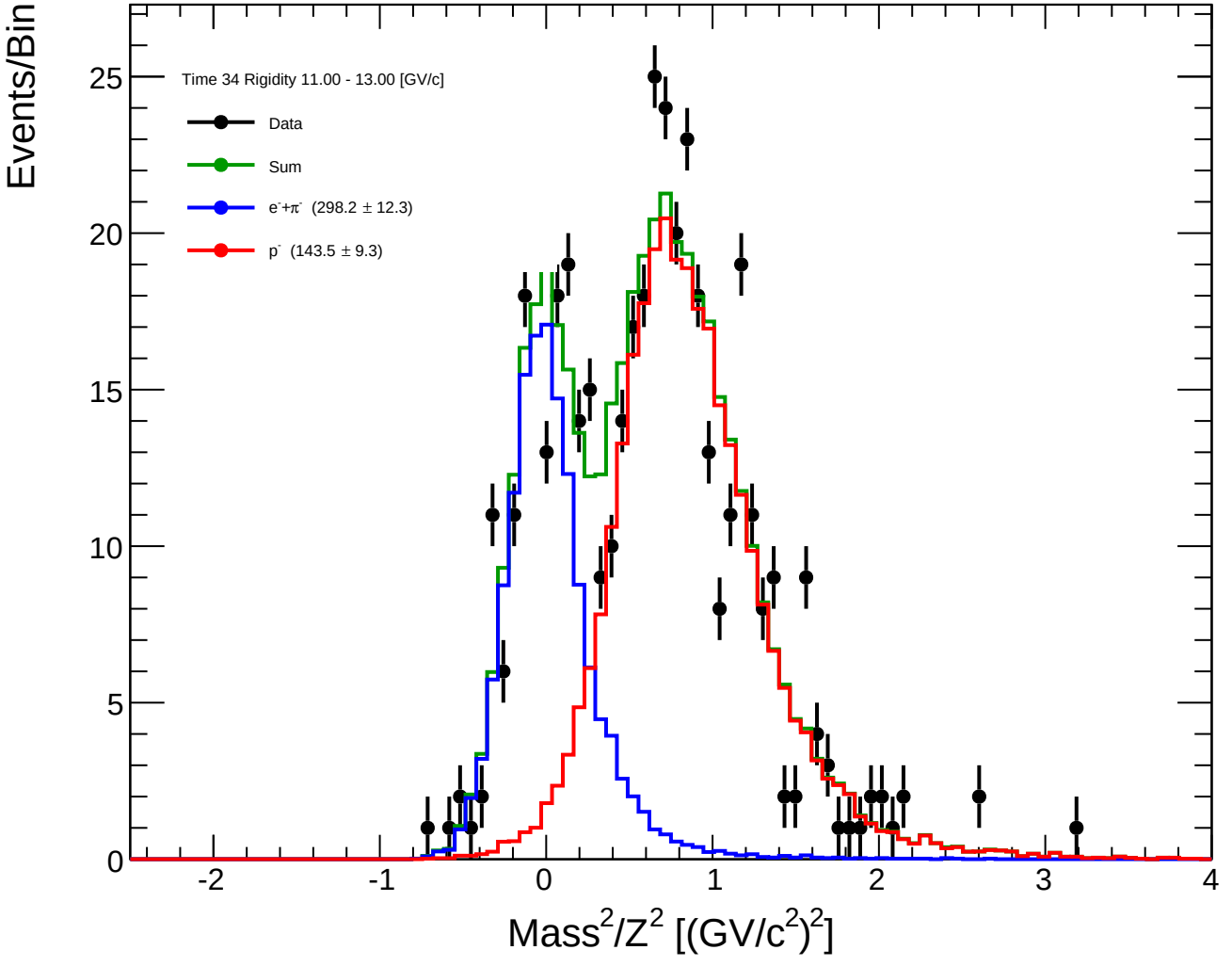

Time 34 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (194.8 ± 8.0)
p⁻ (6.5 ± 8.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

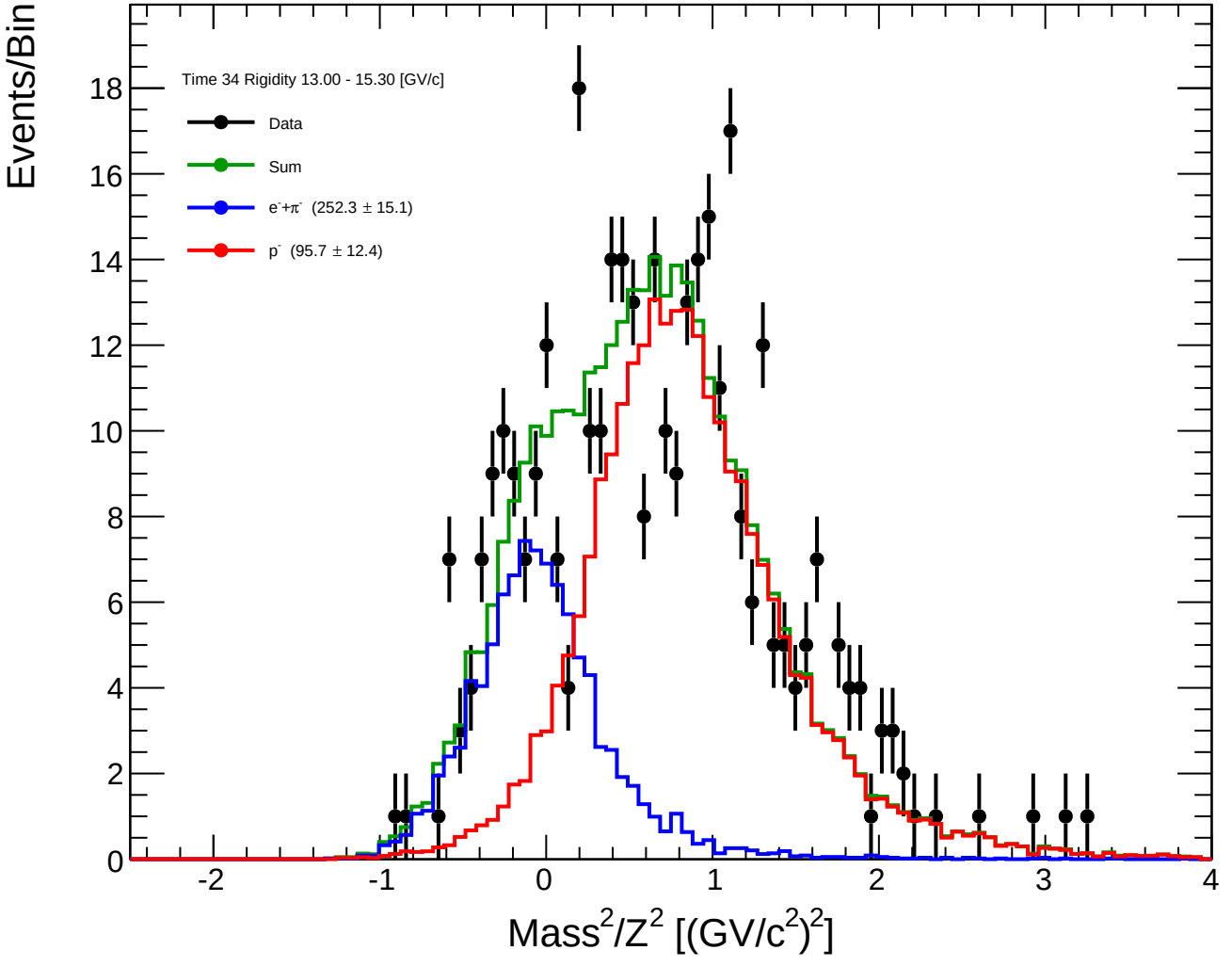

Time 34 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (200.0 ± 6.7)
p⁻ (0.4 ± 5.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
-2
-1
0
1
2
3
4

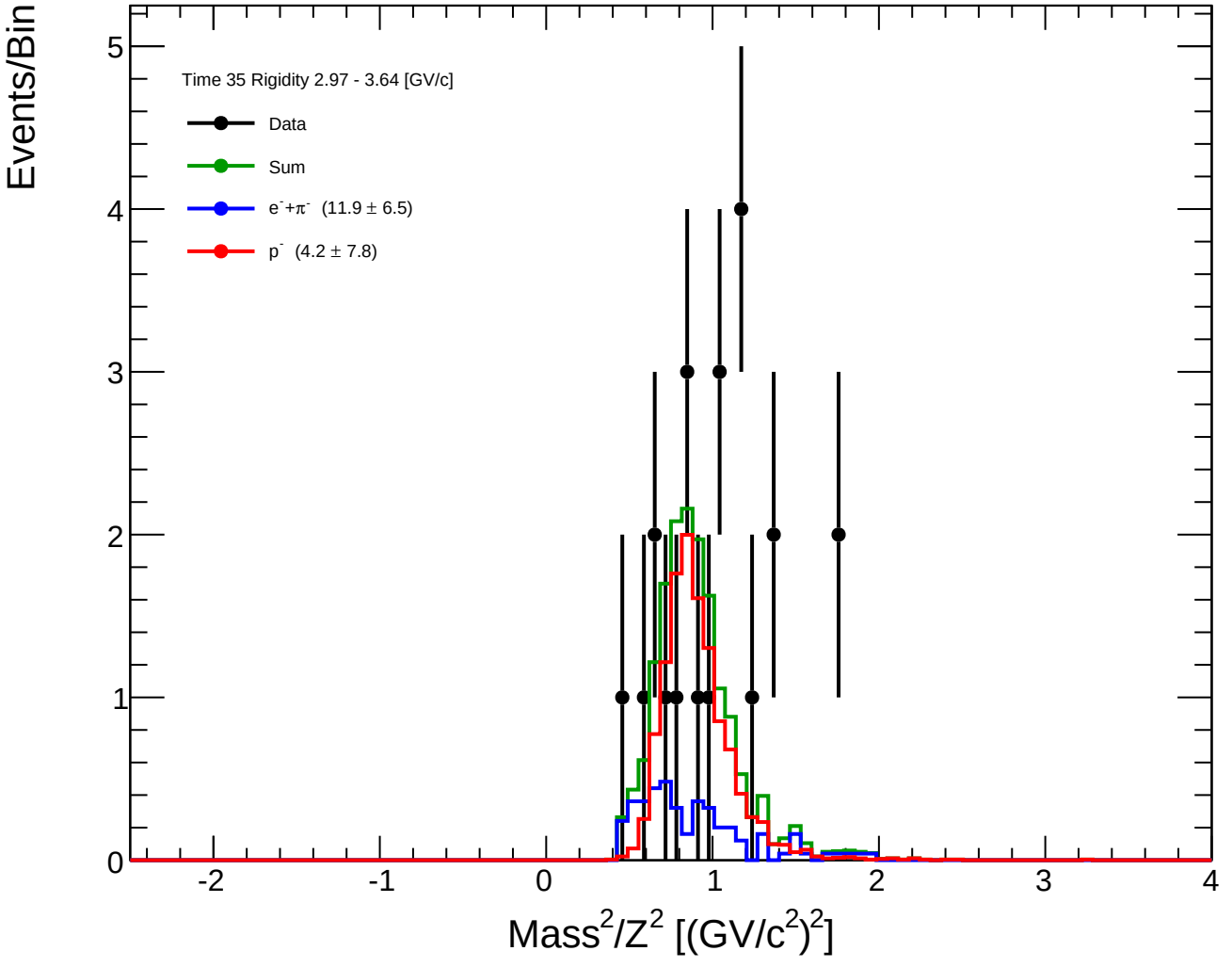

Time 34 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (221.6 ± 9.1)
p⁻ (14.5 ± 5.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

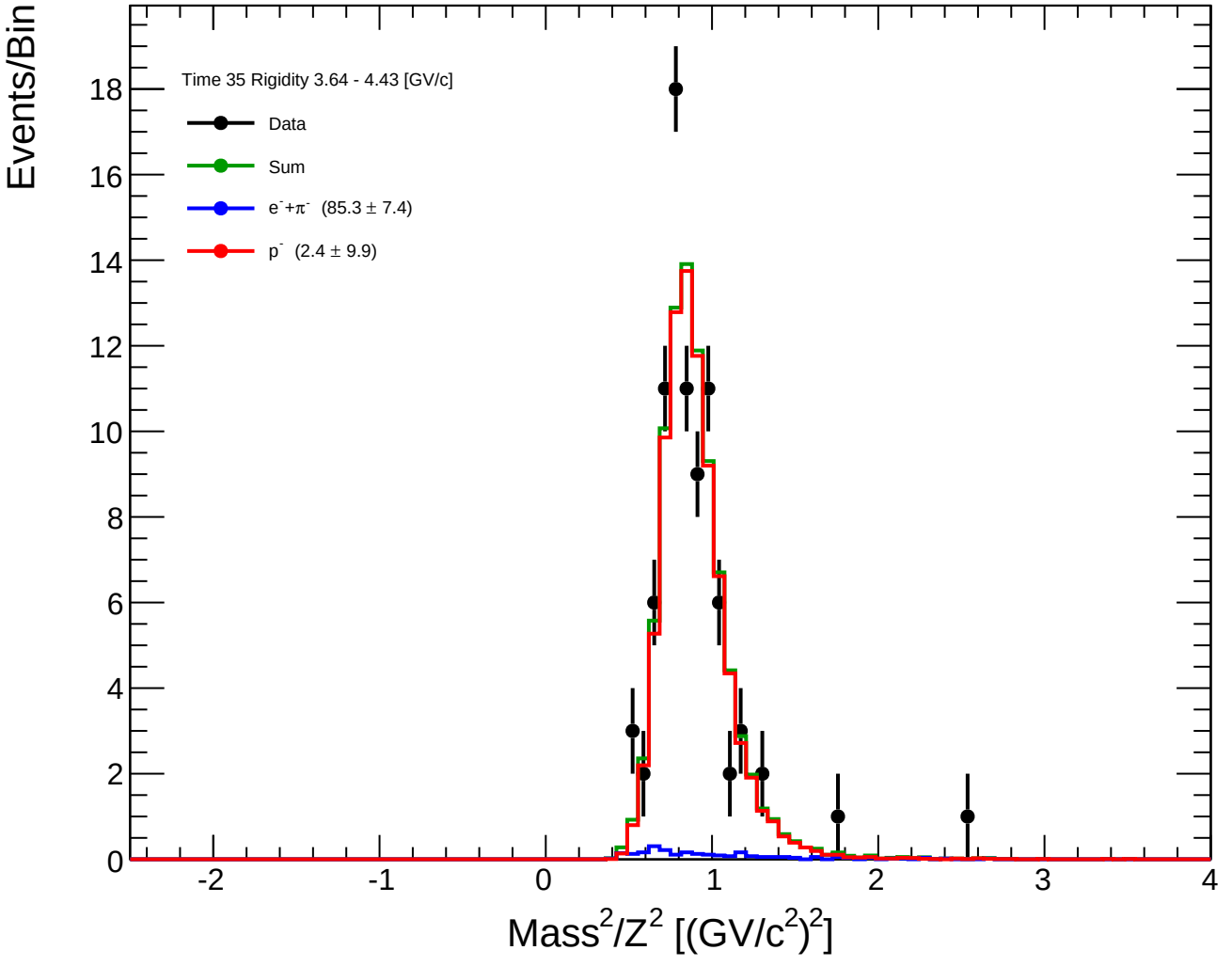

Time 34 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (160.4 ± 9.3)
p⁻ (52.9 ± 5.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
22
24
-2
-1
0
1
2
3
4

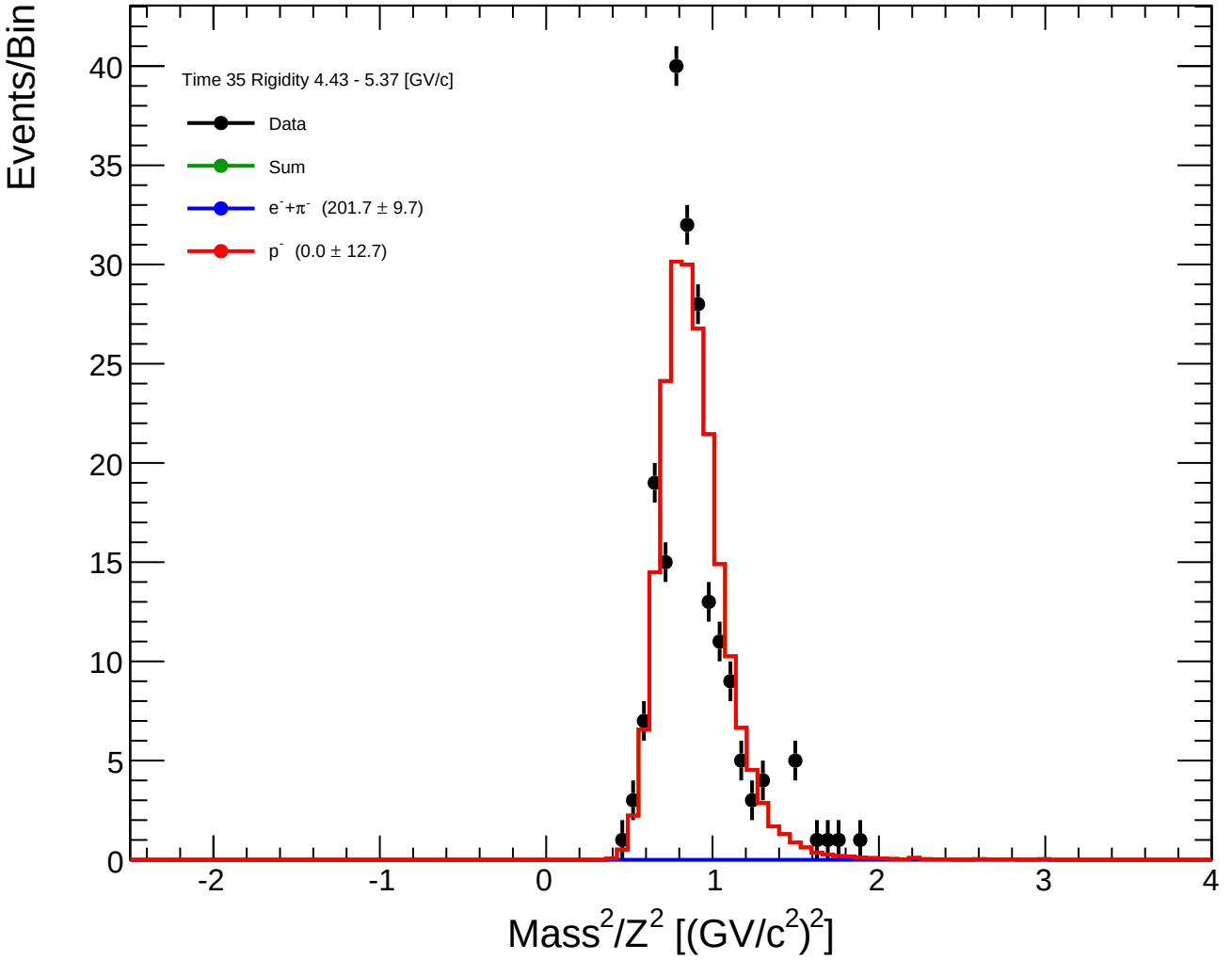

Time 34 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (318.7 ± 10.9)
p⁻ (143.0 ± 7.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
-2
-1
0
1
2
3
4

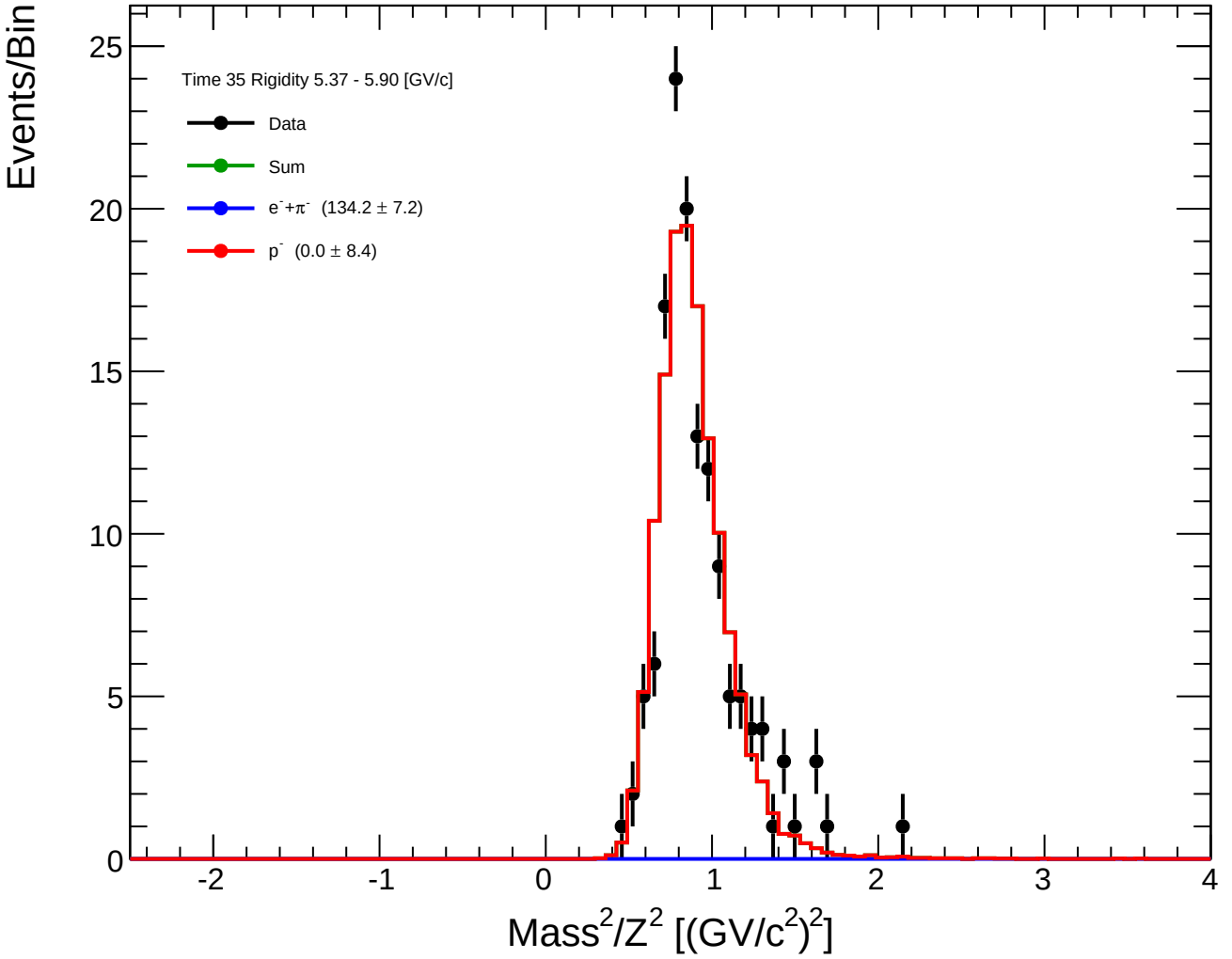

Time 34 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (298.2 ± 12.3)
p⁻ (143.5 ± 9.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

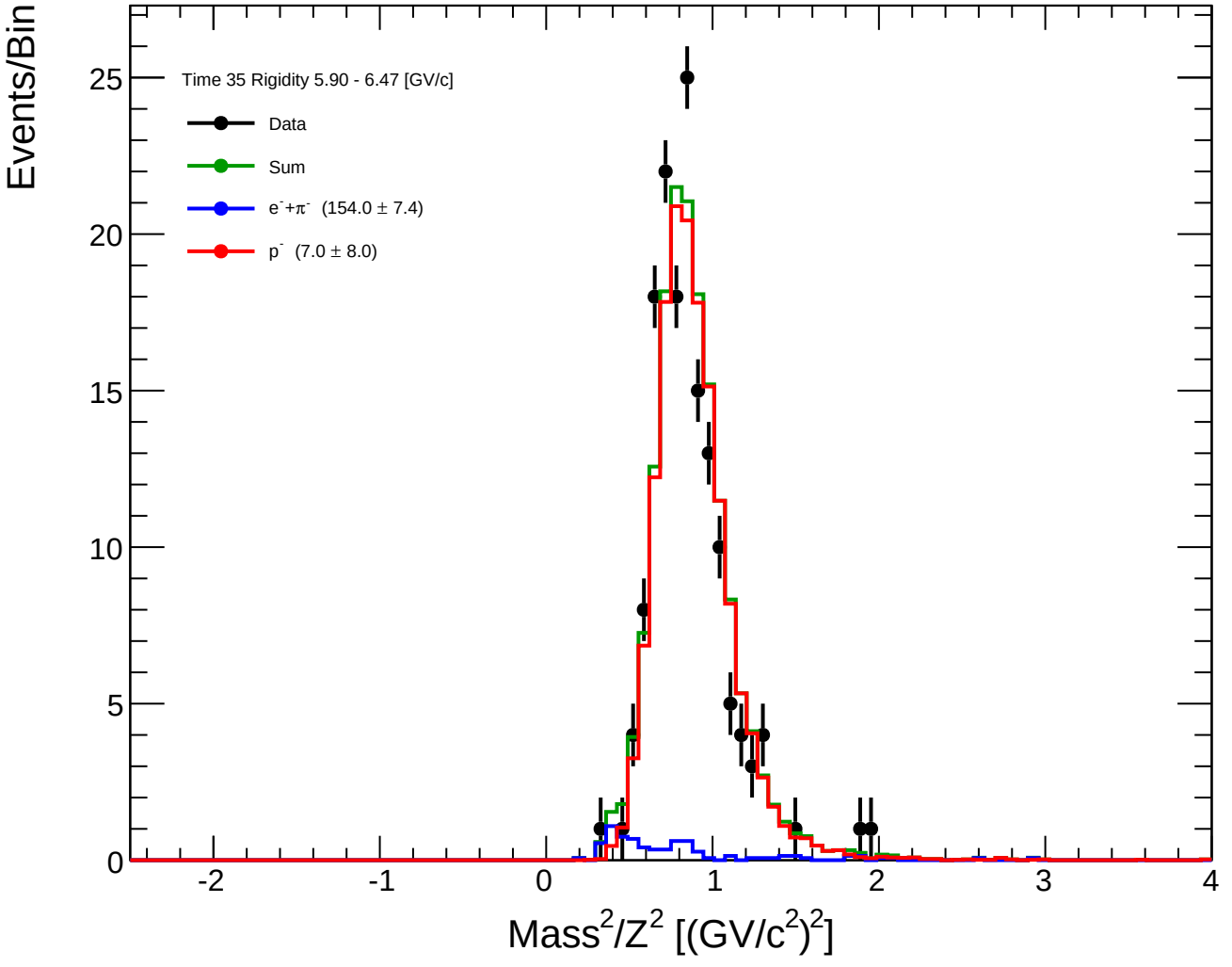

Time 34 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (252.3 ± 15.1)
p⁻ (95.7 ± 12.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
-2
-1
0
1
2
3
4

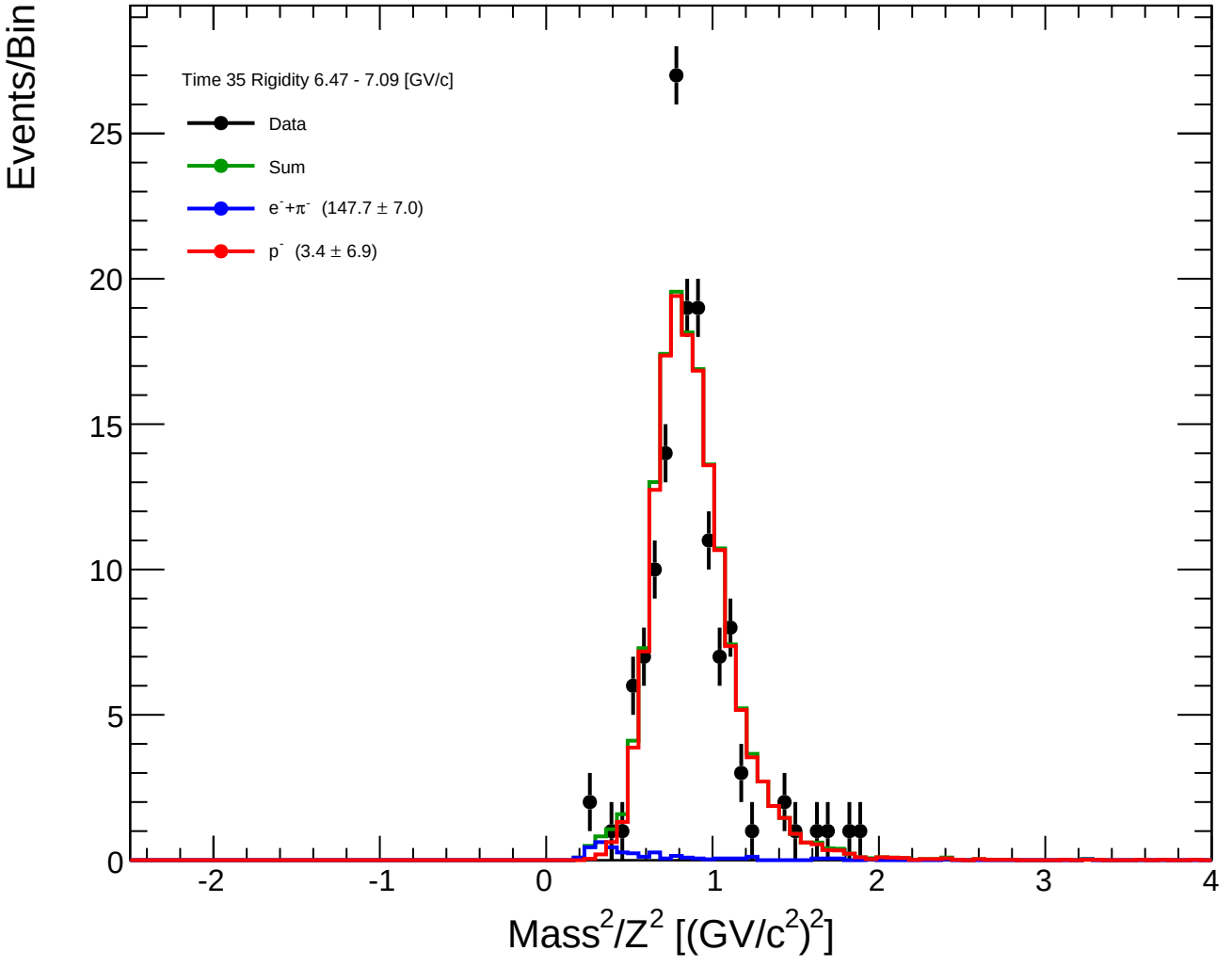

Events/Bin
Time 35 Rigidity 2.97 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (11.9 ± 6.5)
p⁻ (4.2 ± 7.8)
0
1
2
3
4
5
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

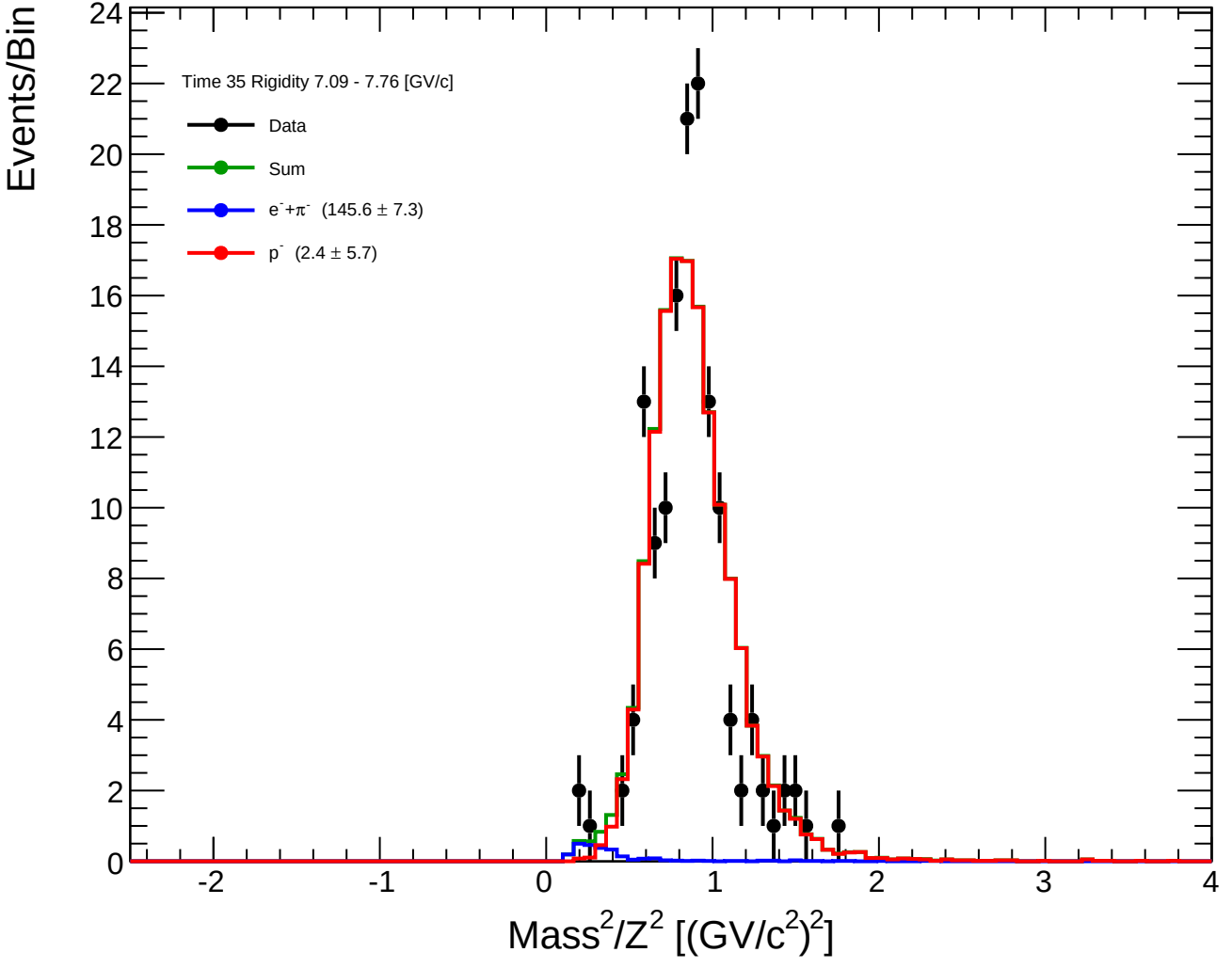

Time 35 Rigidity 3.64 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (85.3 ± 7.4)
p⁻ (2.4 ± 9.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
-2
-1
0
1
2
3
4

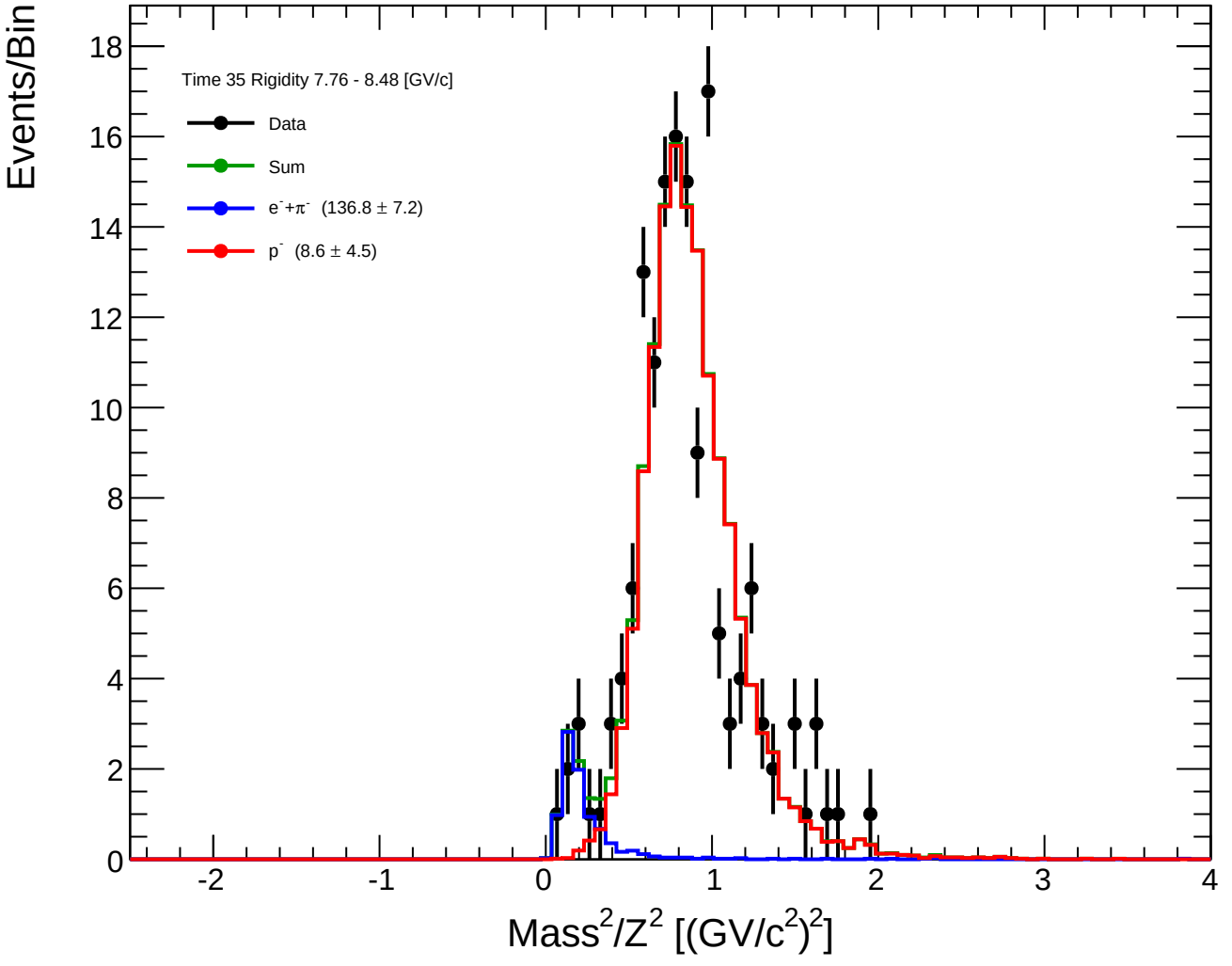

Time 35 Rigidity 4.43 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (201.7 ± 9.7)
p⁻ (0.0 ± 12.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
-2
-1
0
1
2
3
4

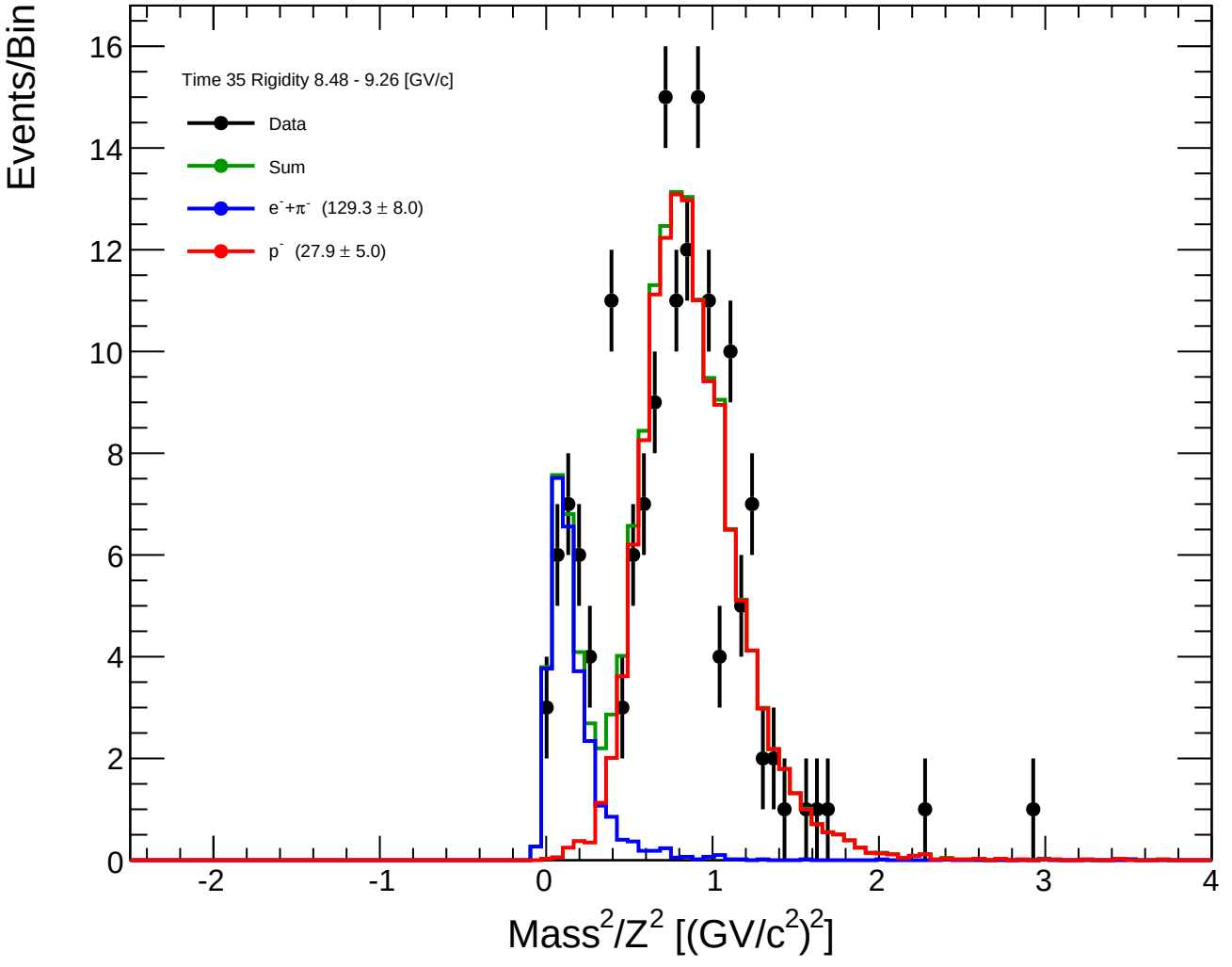

Events/Bin
Time 35 Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (134.2 ± 7.2)
p⁻ (0.0 ± 8.4)
25
20
15
10
5
0
-2
-1
0
1
2
3
4
Mass²/Z² [(GV/c²)²]

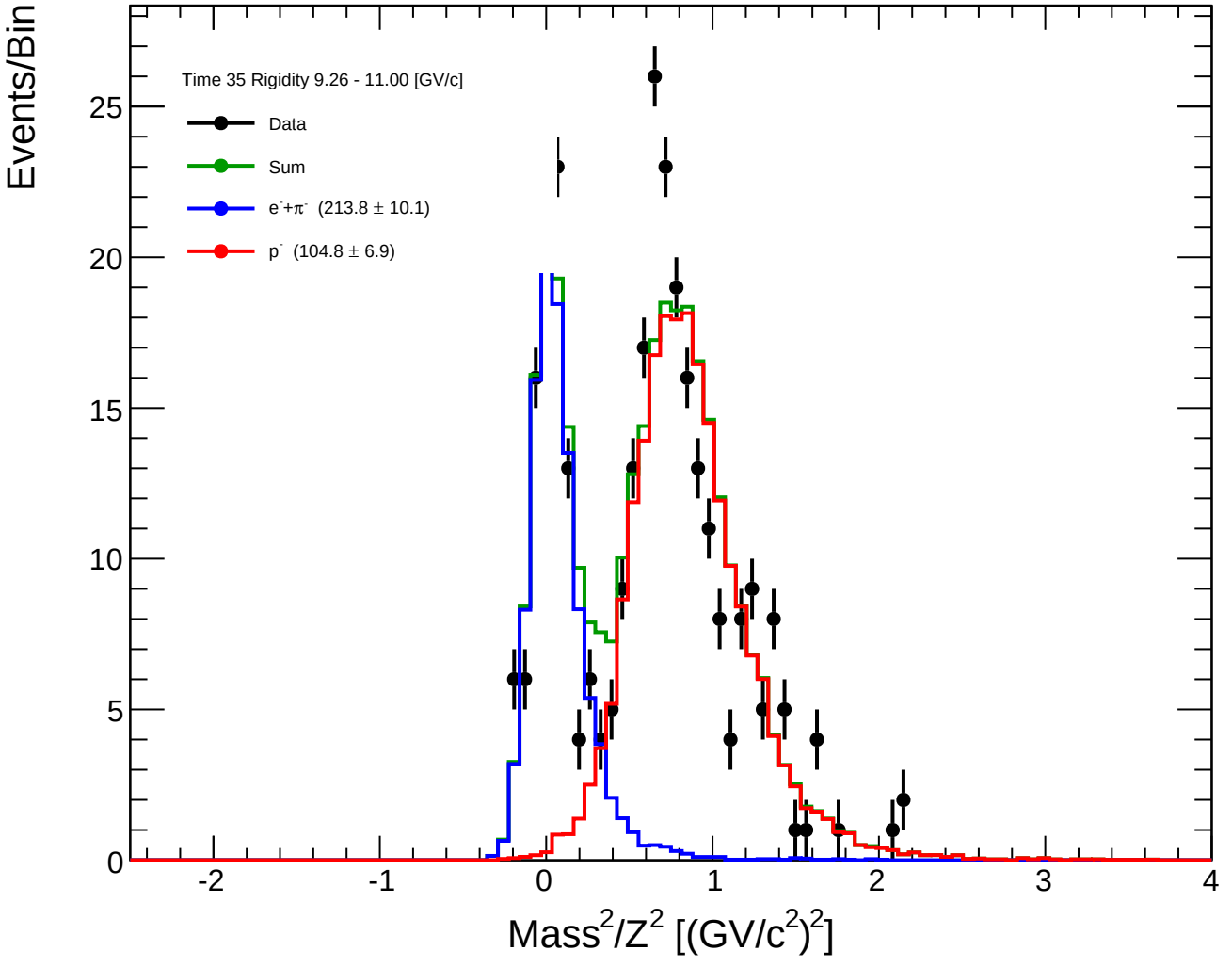

Time 35 Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (154.0 ± 7.4)
p⁻ (7.0 ± 8.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

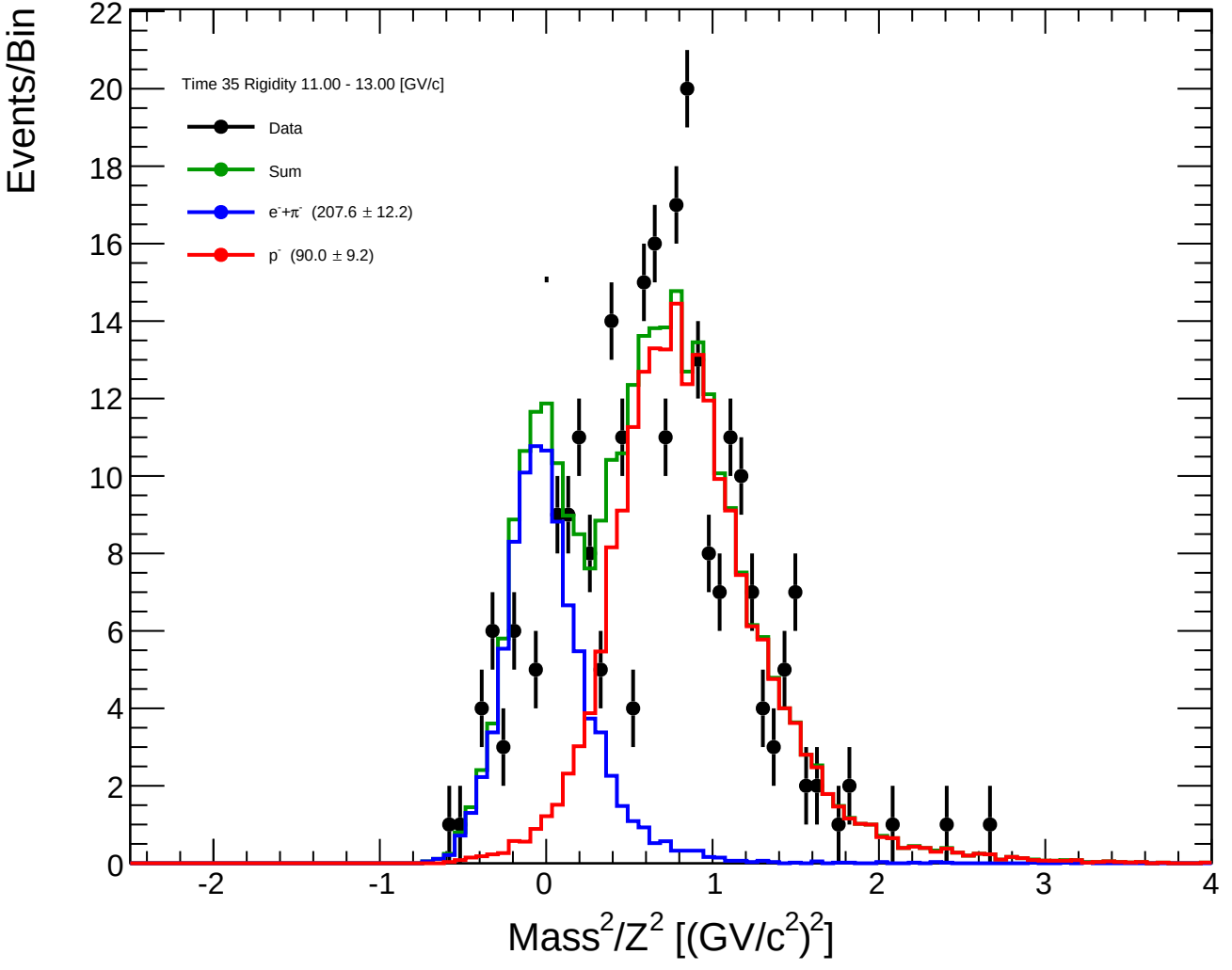

Time 35 Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (147.7 ± 7.0)
p⁻ (3.4 ± 6.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4

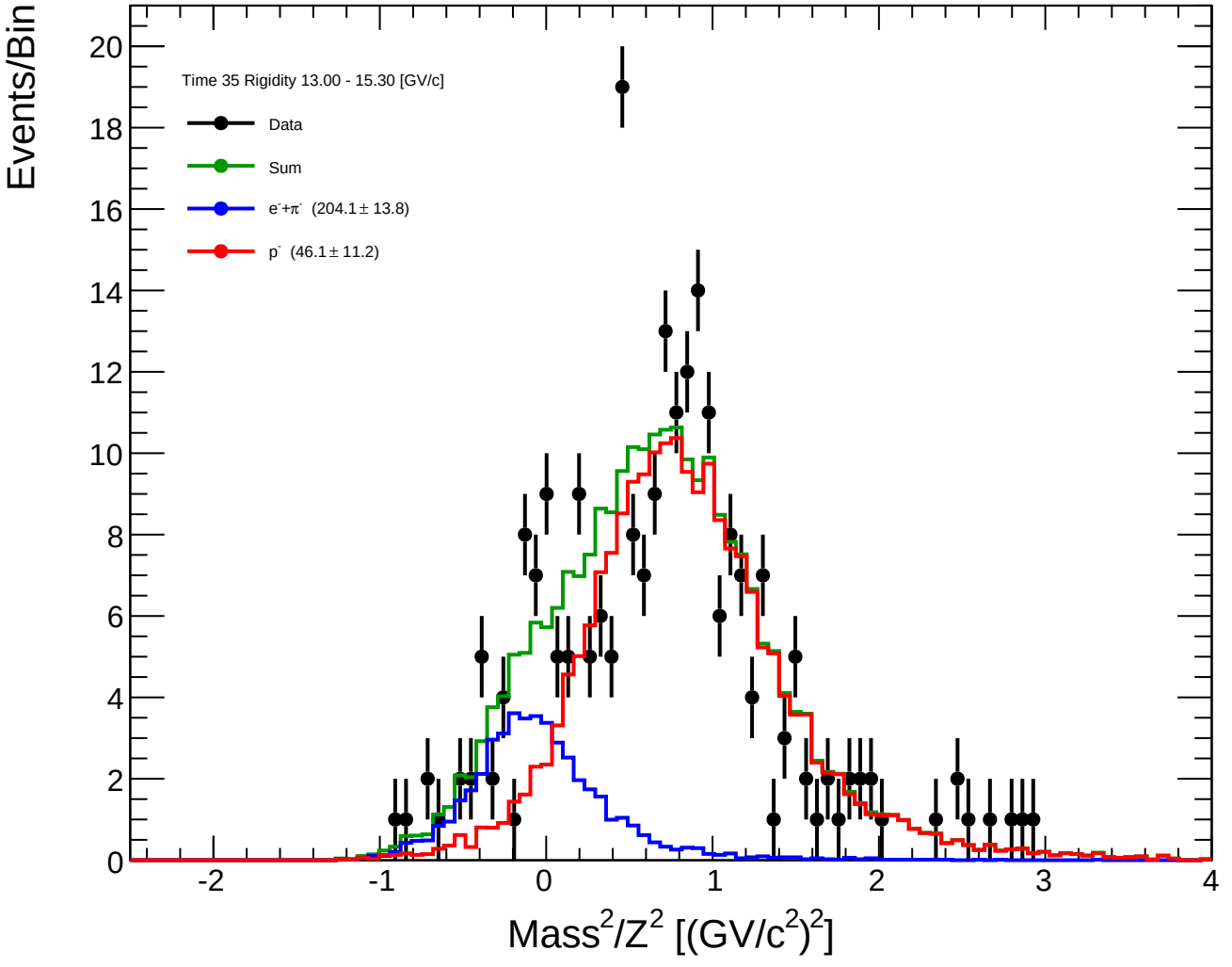

Time 35 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (145.6 ± 7.3)
p⁻ (2.4 ± 5.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
22
24
-2
-1
0
1
2
3
4


Time 35 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (136.8 ± 7.2)
p⁻ (8.6 ± 4.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
-2
-1
0
1
2
3
4


Time 35 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (129.3 ± 8.0)
p⁻ (27.9 ± 5.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
-2
-1
0
1
2
3
4


Time 35 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (213.8 ± 10.1)
p⁻ (104.8 ± 6.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
-2
-1
0
1
2
3
4


Time 35 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (207.6 ± 12.2)
p⁻ (90.0 ± 9.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
22
-2
-1
0
1
2
3
4


Time 35 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (204.1 ± 13.8)
p⁻ (46.1 ± 11.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2
4
6
8
10
12
14
16
18
20
-2
-1
0
1
2
3
4

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