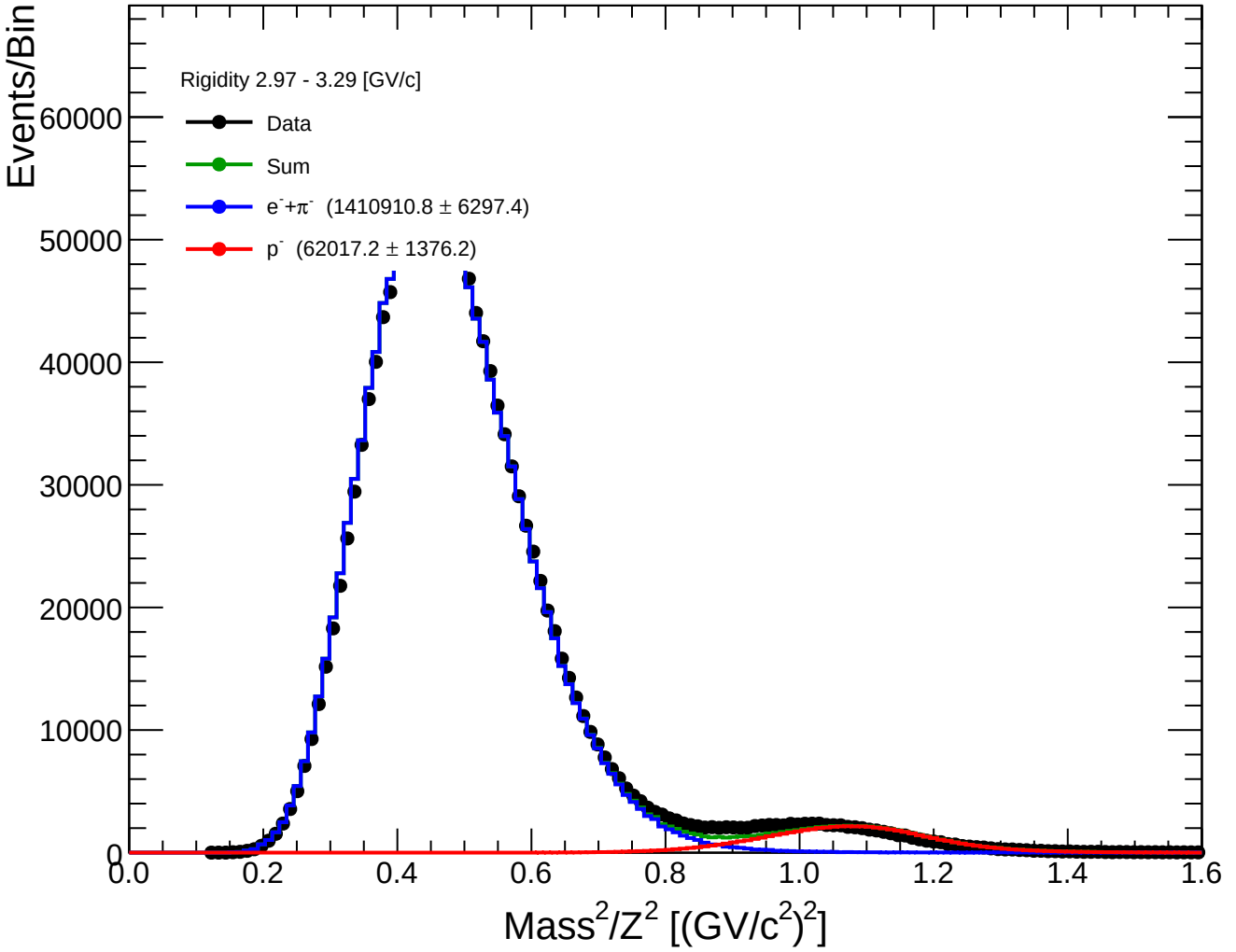
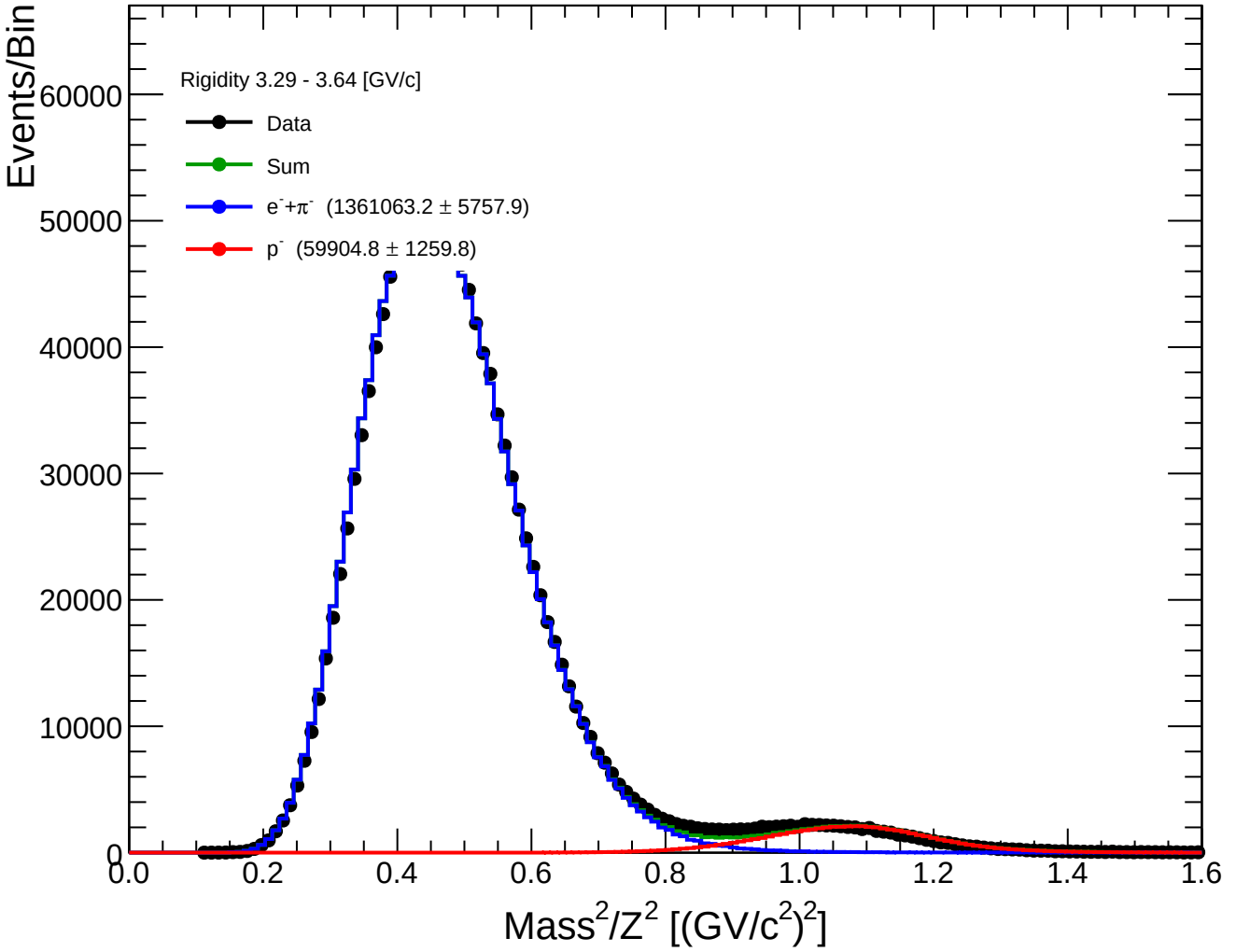
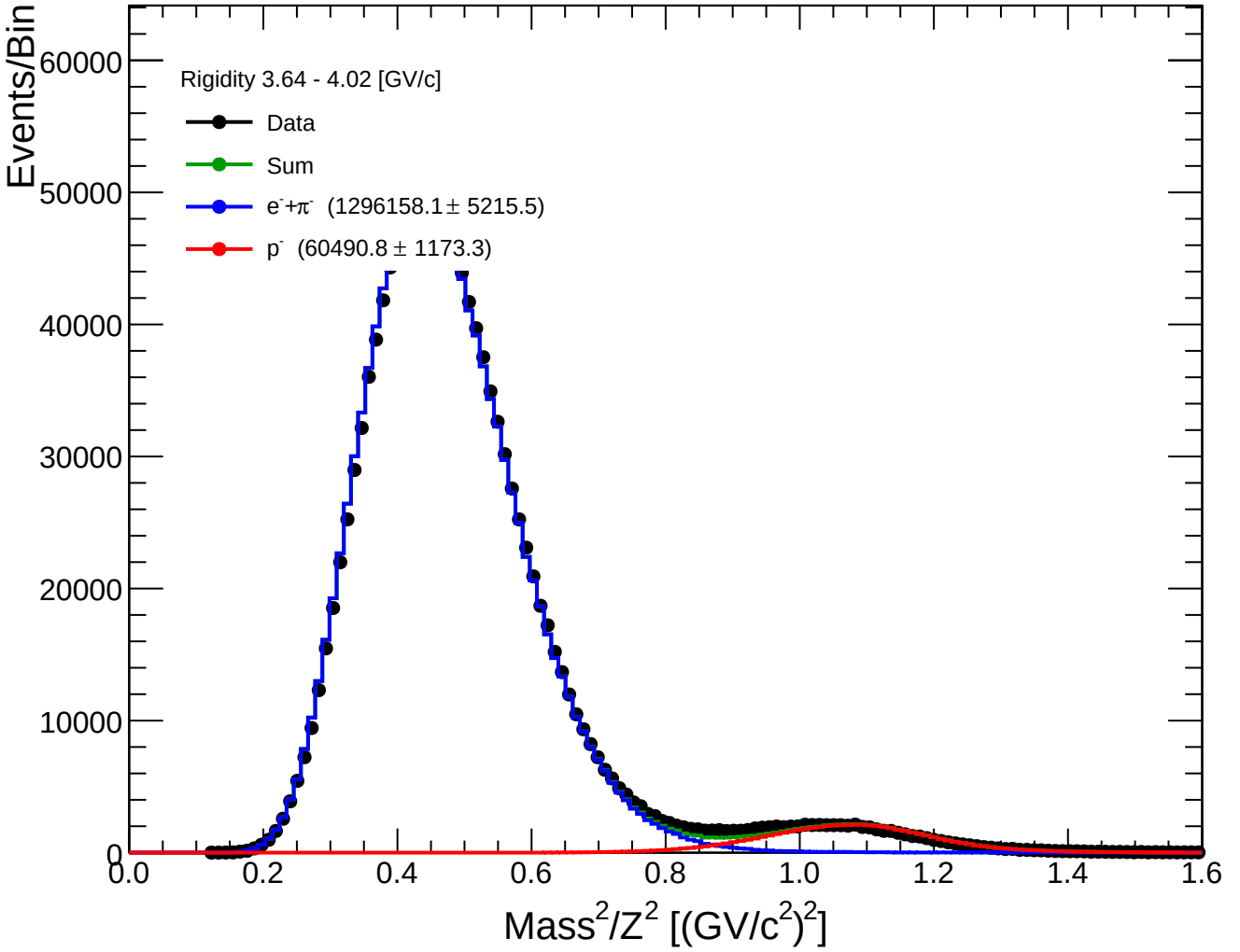
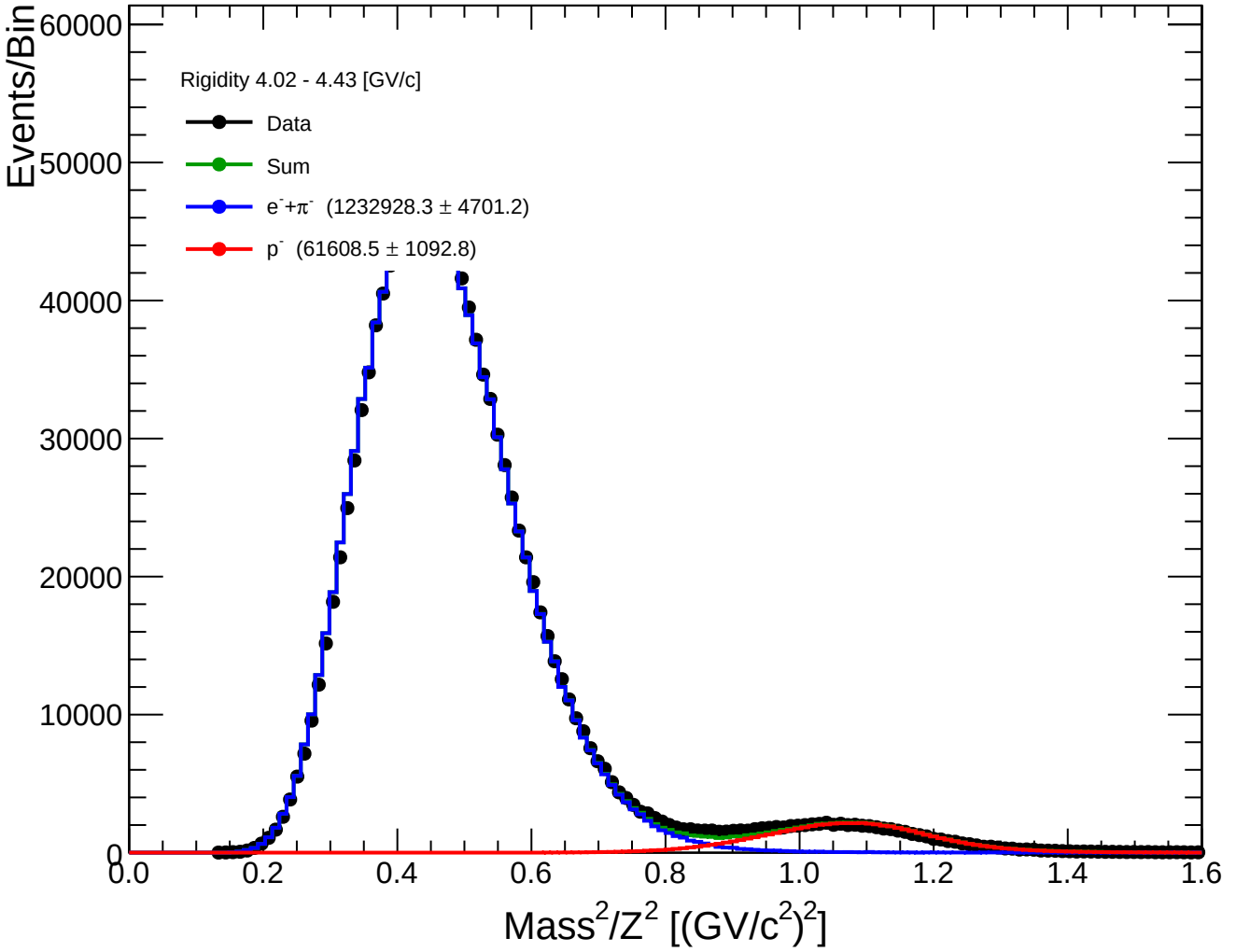
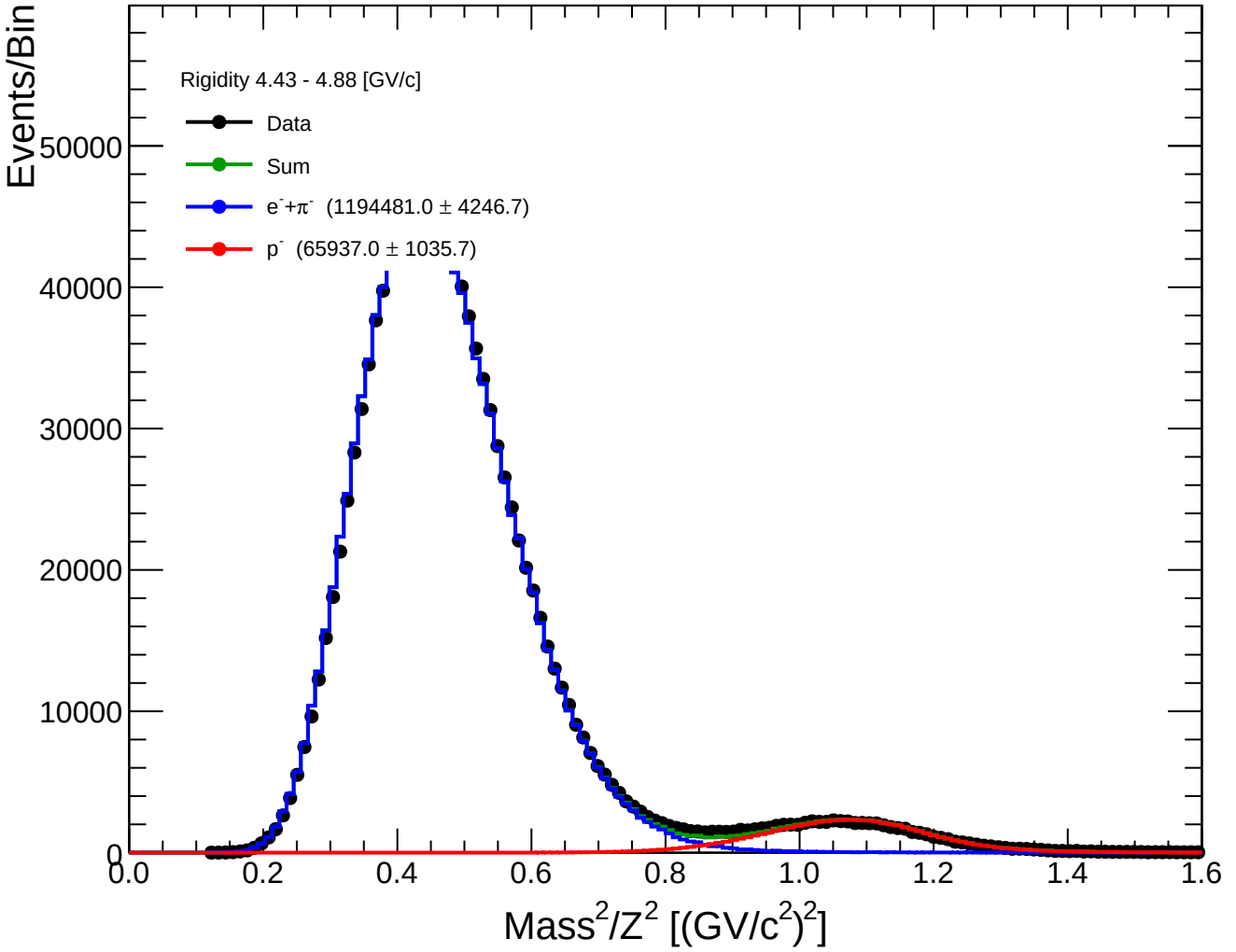
<< START >> antip_i

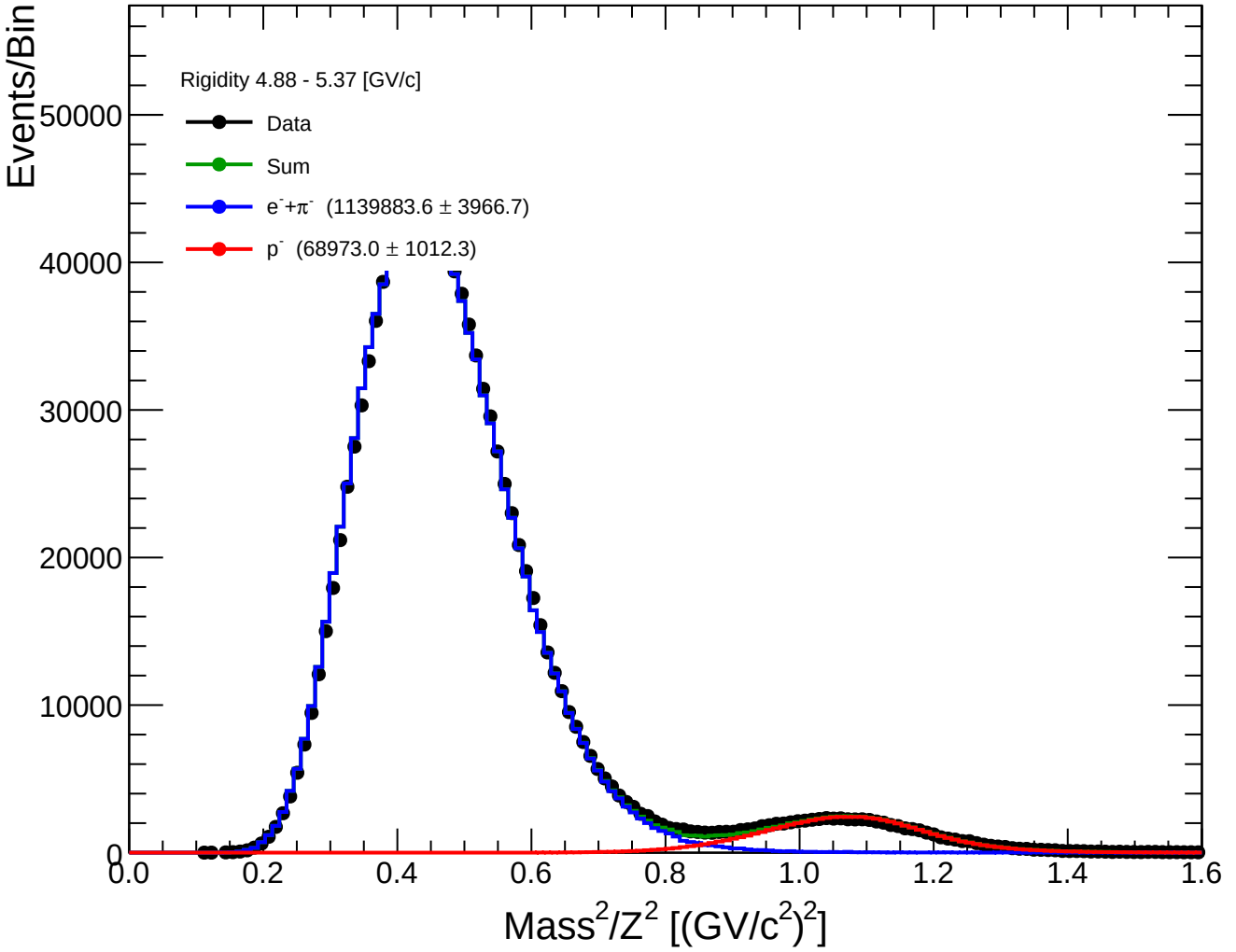

Rigidity 2.97 - 3.29 [GV/c]
Data
Sum
e⁻+π⁻ (1410910.8 ± 6297.4)
p⁻ (62017.2 ± 1376.2)
Events/Bin
0
10000
20000
30000
40000
50000
60000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

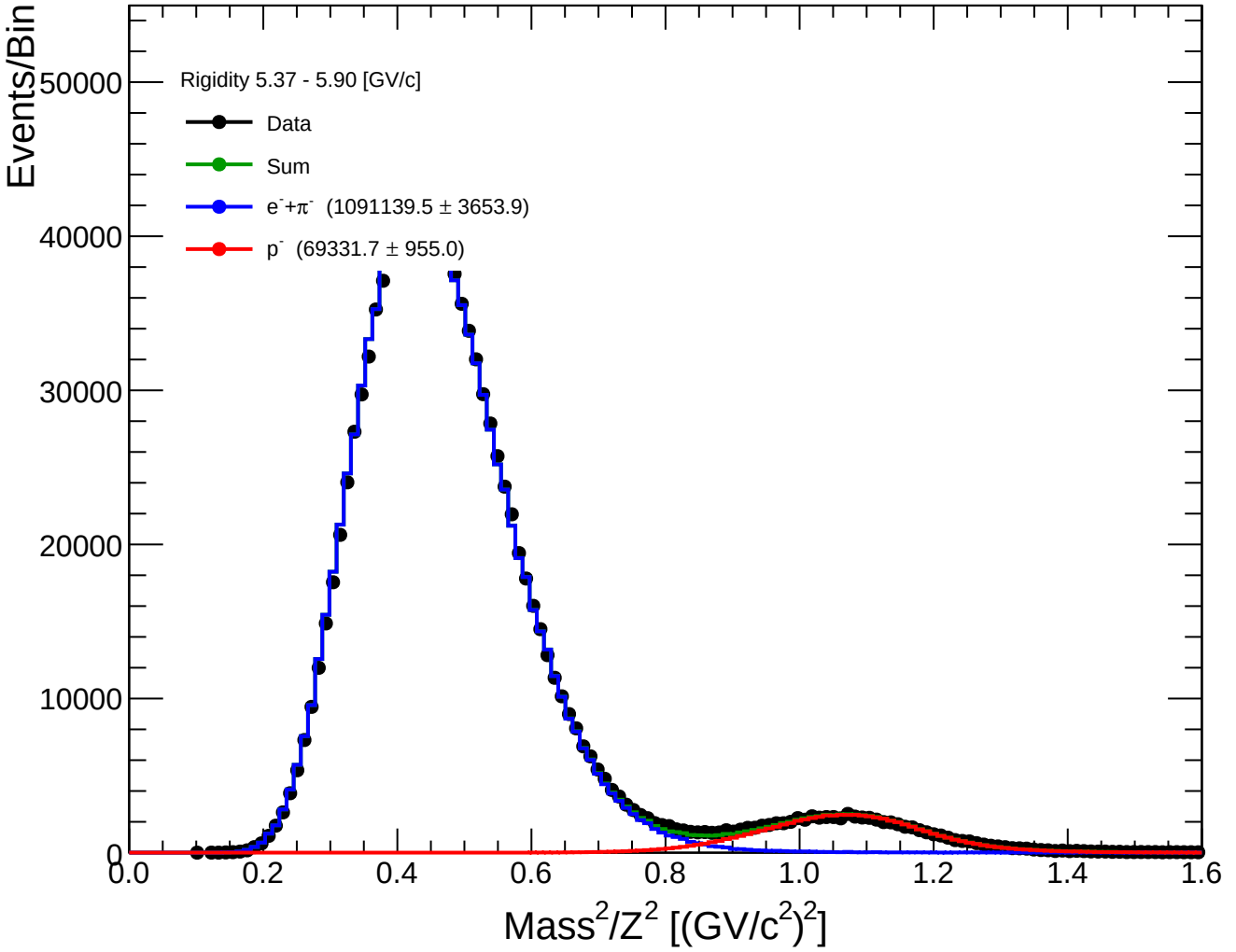

Rigidity 3.29 - 3.64 [GV/c]
Data
Sum
e⁻+π⁻ (1361063.2 ± 5757.9)
p⁻ (59904.8 ± 1259.8)
Events/Bin
0
10000
20000
30000
40000
50000
60000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

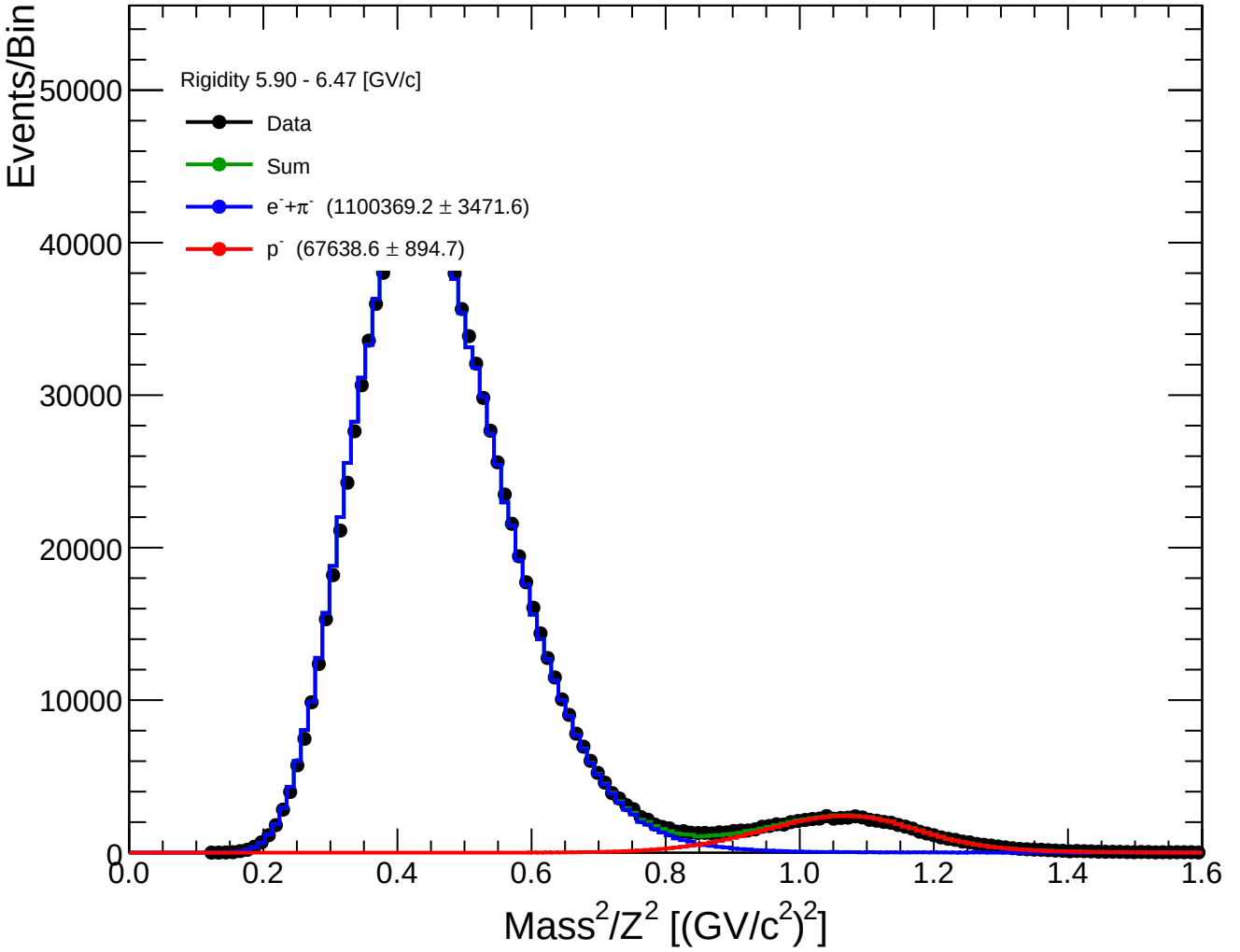

Rigidity 3.64 - 4.02 [GV/c]
Data
Sum
e⁻+π⁻ (1296158.1 ± 5215.5)
p⁻ (60490.8 ± 1173.3)
Events/Bin
60000
50000
40000
30000
20000
10000
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

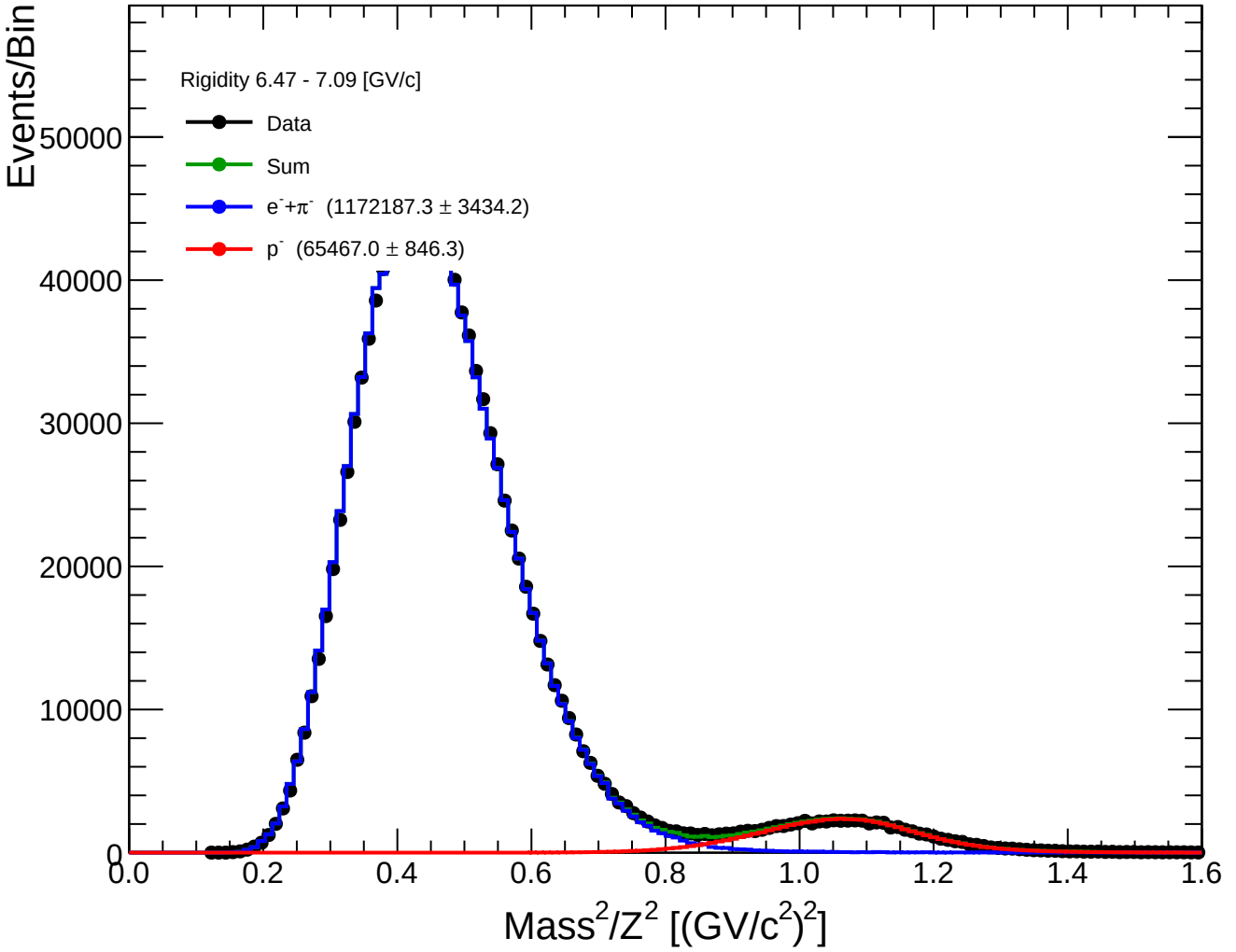

Rigidity 4.02 - 4.43 [GV/c]
Data
Sum
e⁻+π⁻ (1232928.3 ± 4701.2)
p⁻ (61608.5 ± 1092.8)
Events/Bin
0
10000
20000
30000
40000
50000
60000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

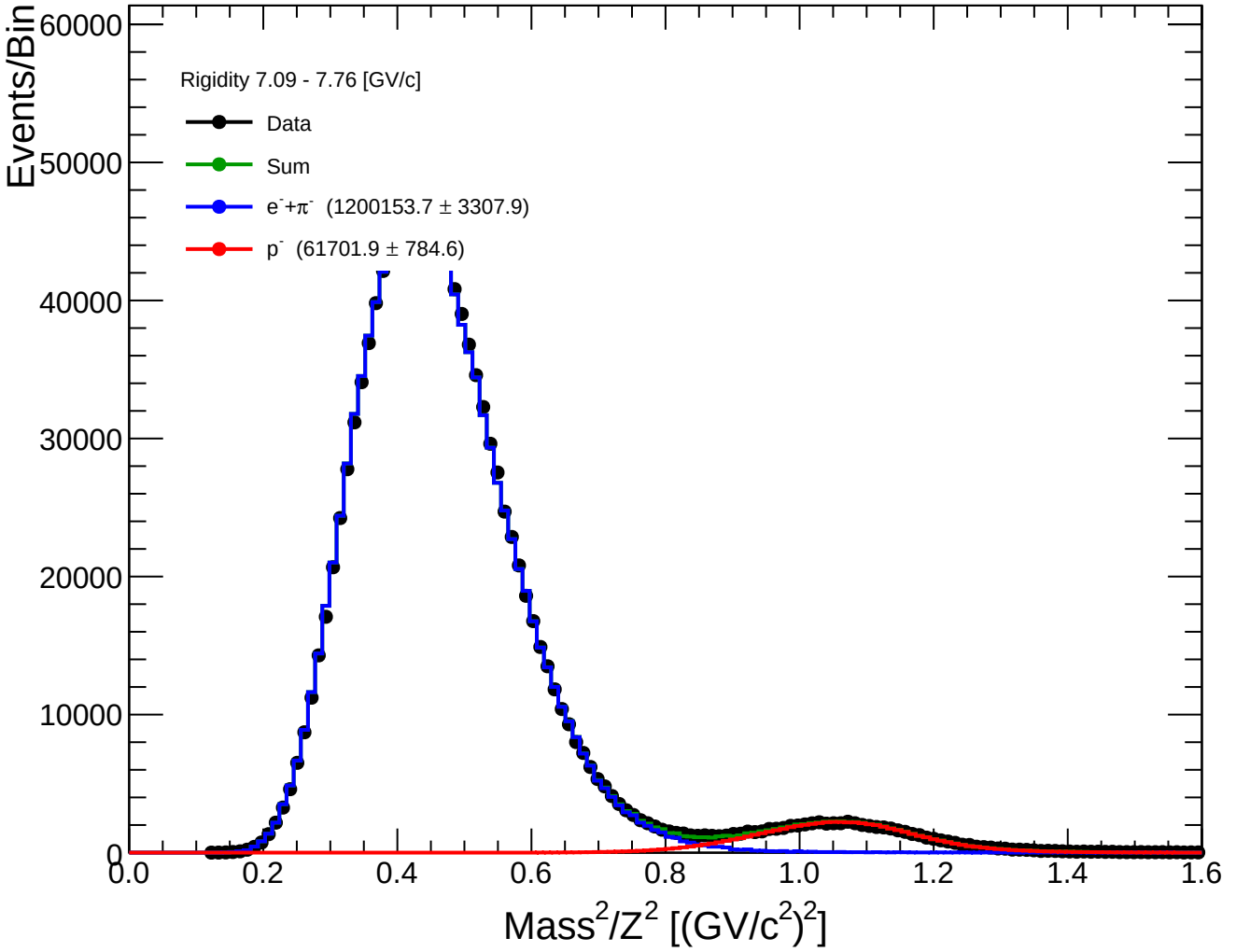

Rigidity 4.43 - 4.88 [GV/c]
Data
Sum
e⁻+π⁻ (1194481.0 ± 4246.7)
p⁻ (65937.0 ± 1035.7)
Events/Bin
0
10000
20000
30000
40000
50000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

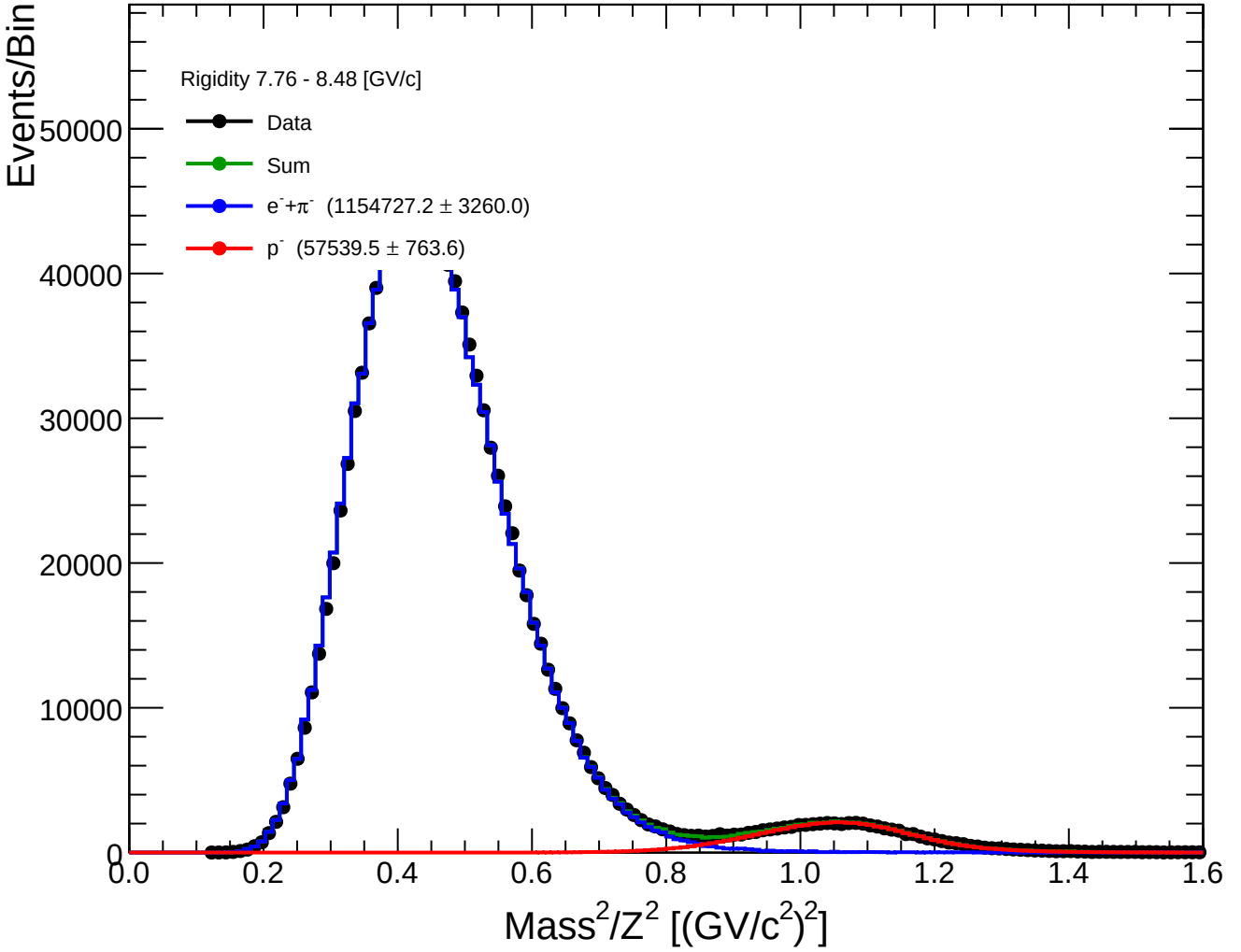

Rigidity 4.88 - 5.37 [GV/c]
Data
Sum
e⁻+π⁻ (1139883.6 ± 3966.7)
p⁻ (68973.0 ± 1012.3)
Events/Bin
0
10000
20000
30000
40000
50000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

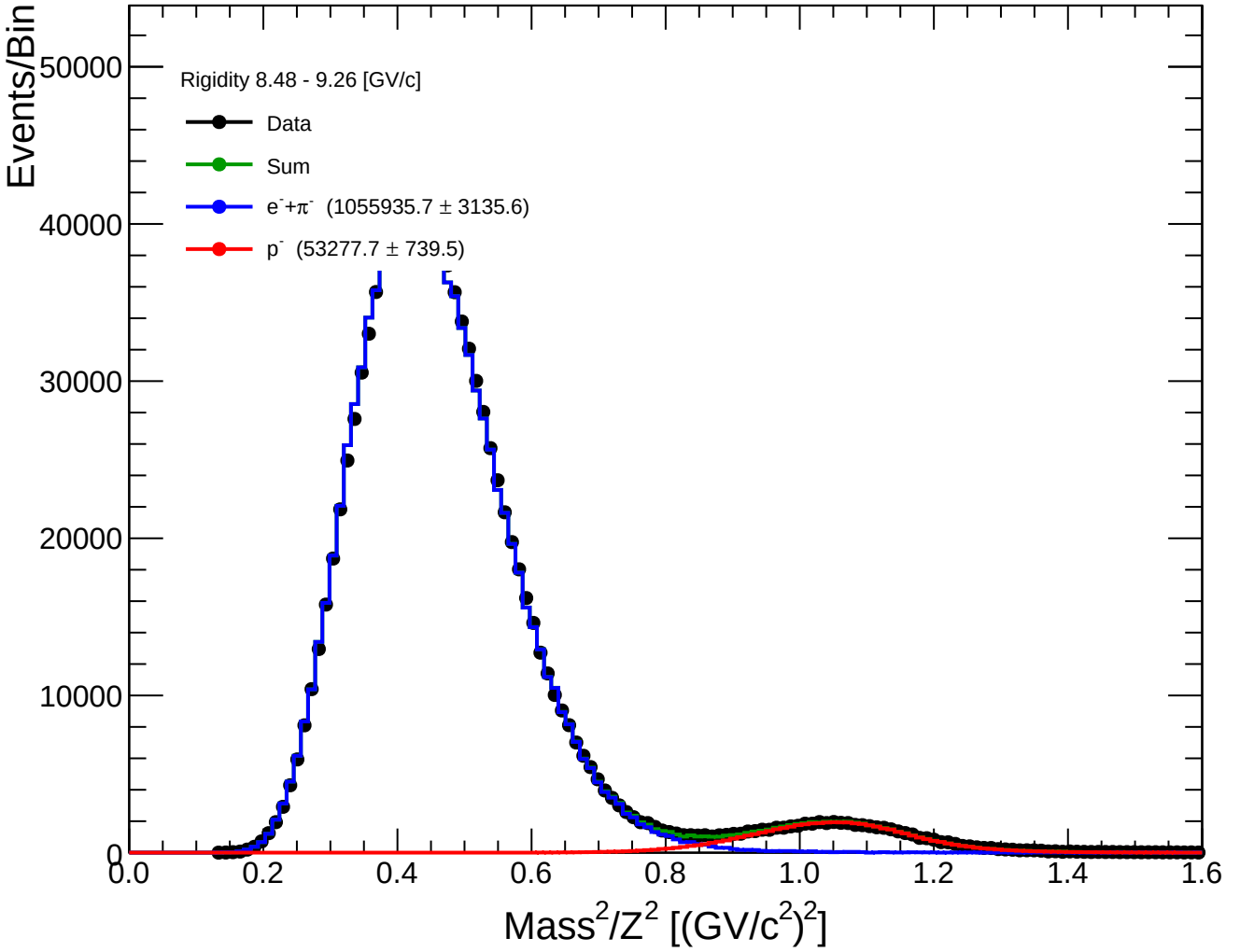

Events/Bin
50000
40000
30000
20000
10000
0
Rigidity 5.37 - 5.90 [GV/c]
Data
Sum
e⁻+π⁻ (1091139.5 ± 3653.9)
p⁻ (69331.7 ± 955.0)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

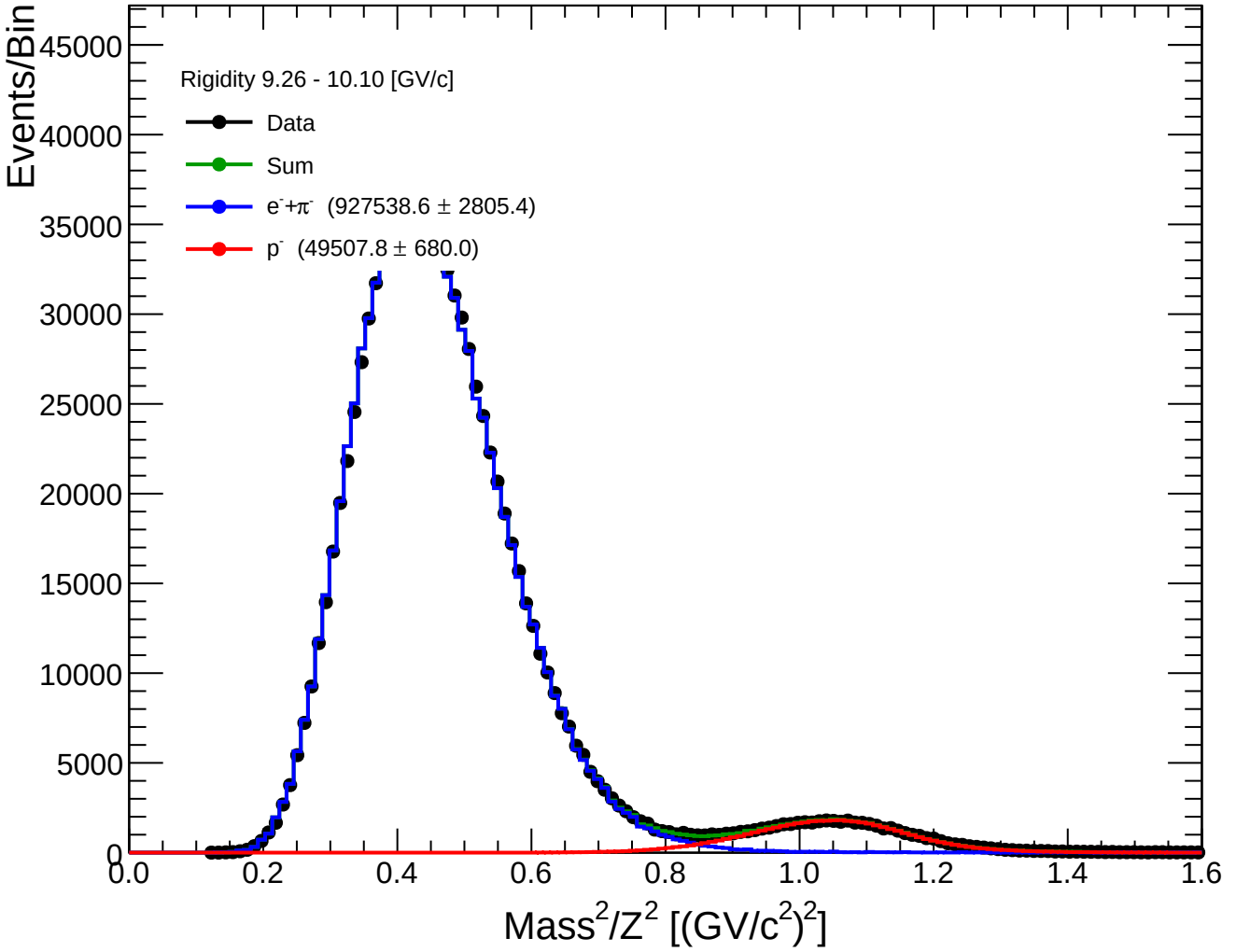

Events/Bin
Rigidity 5.90 - 6.47 [GV/c]
Data
Sum
e⁻+π⁻ (1100369.2 ± 3471.6)
p⁻ (67638.6 ± 894.7)
50000
40000
30000
20000
10000
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

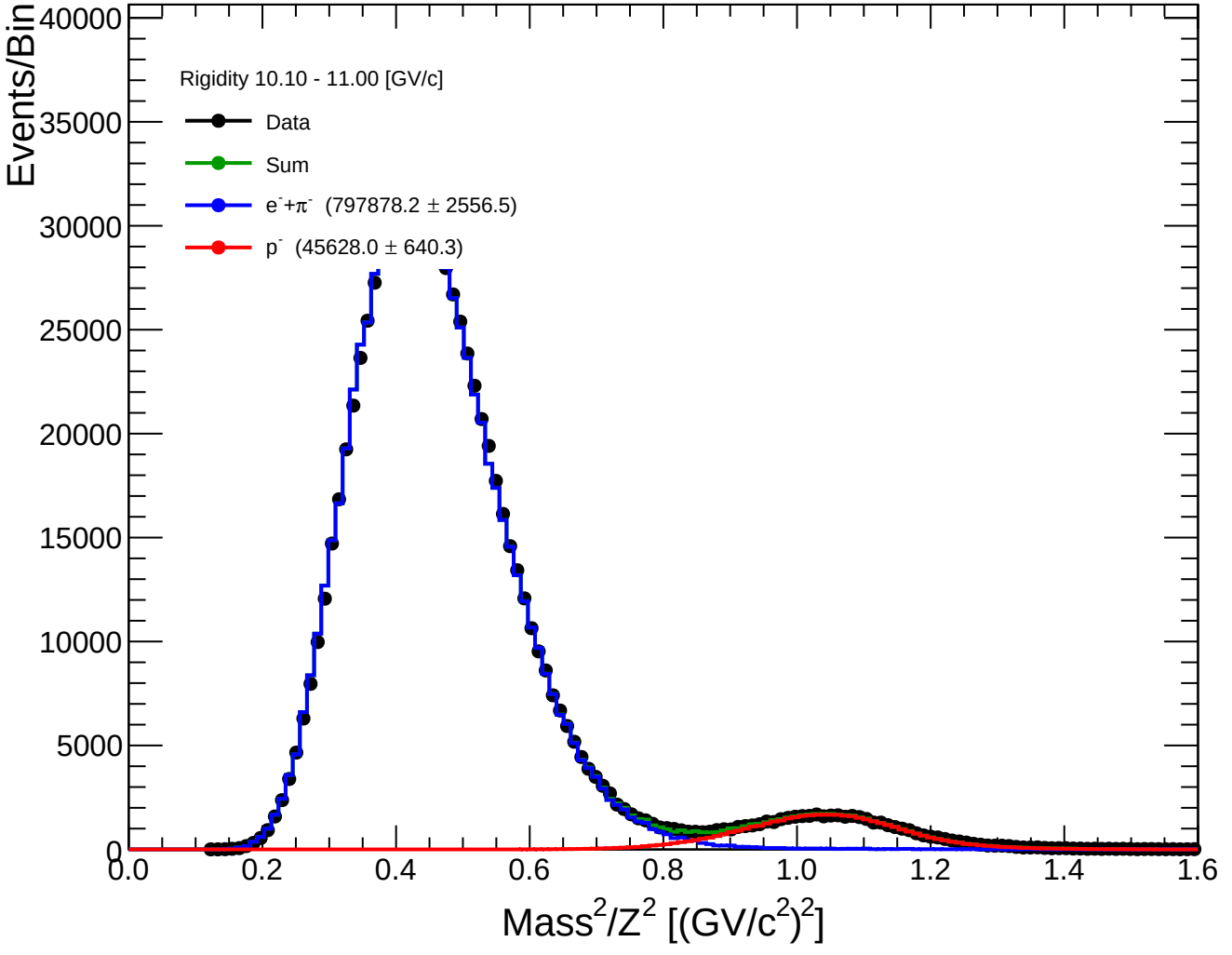

Rigidity 6.47 - 7.09 [GV/c]
Data
Sum
e⁻+π⁻ (1172187.3 ± 3434.2)
p⁻ (65467.0 ± 846.3)
Events/Bin
0
10000
20000
30000
40000
50000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

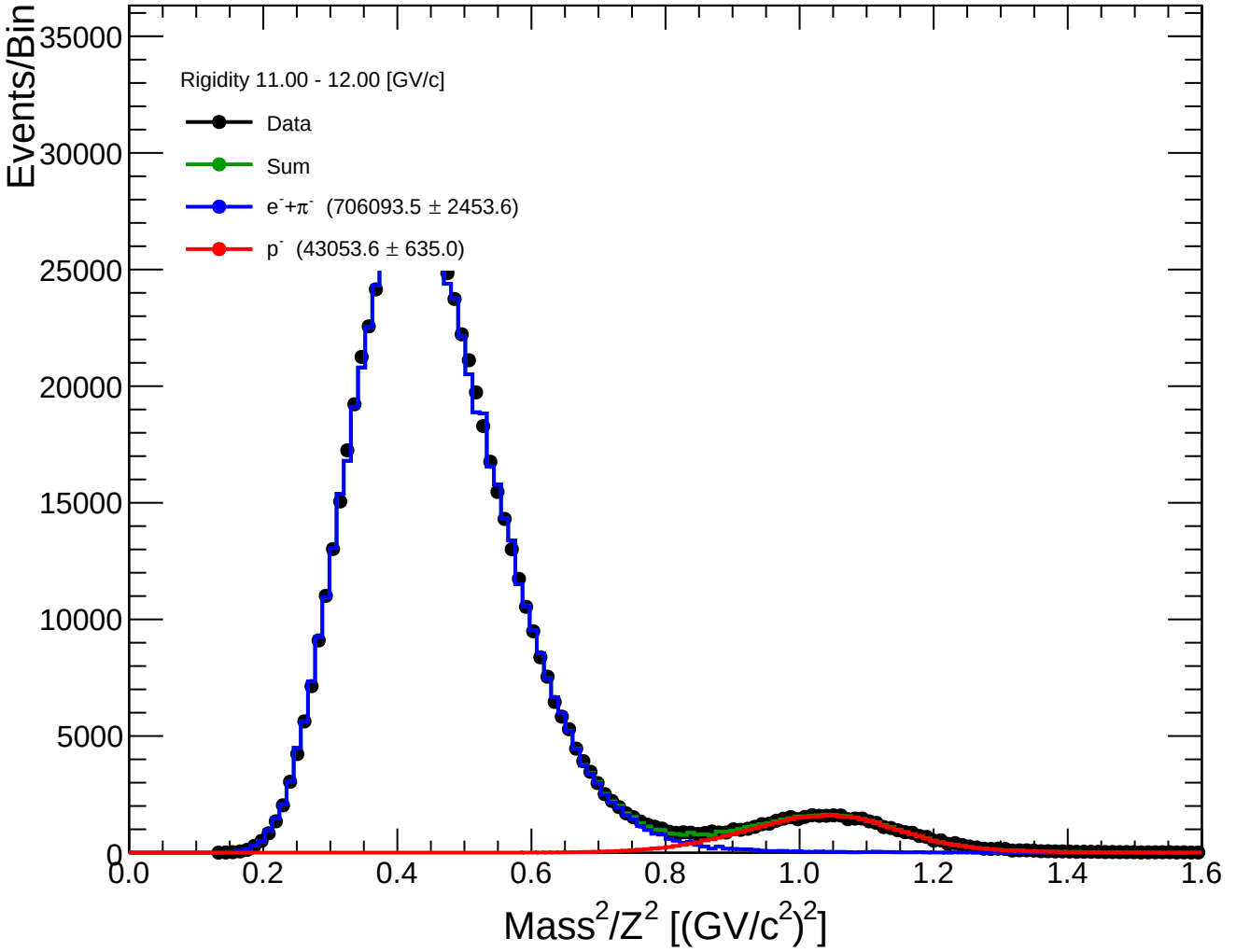

Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1200153.7 ± 3307.9)
p⁻ (61701.9 ± 784.6)
Events/Bin
0
10000
20000
30000
40000
50000
60000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

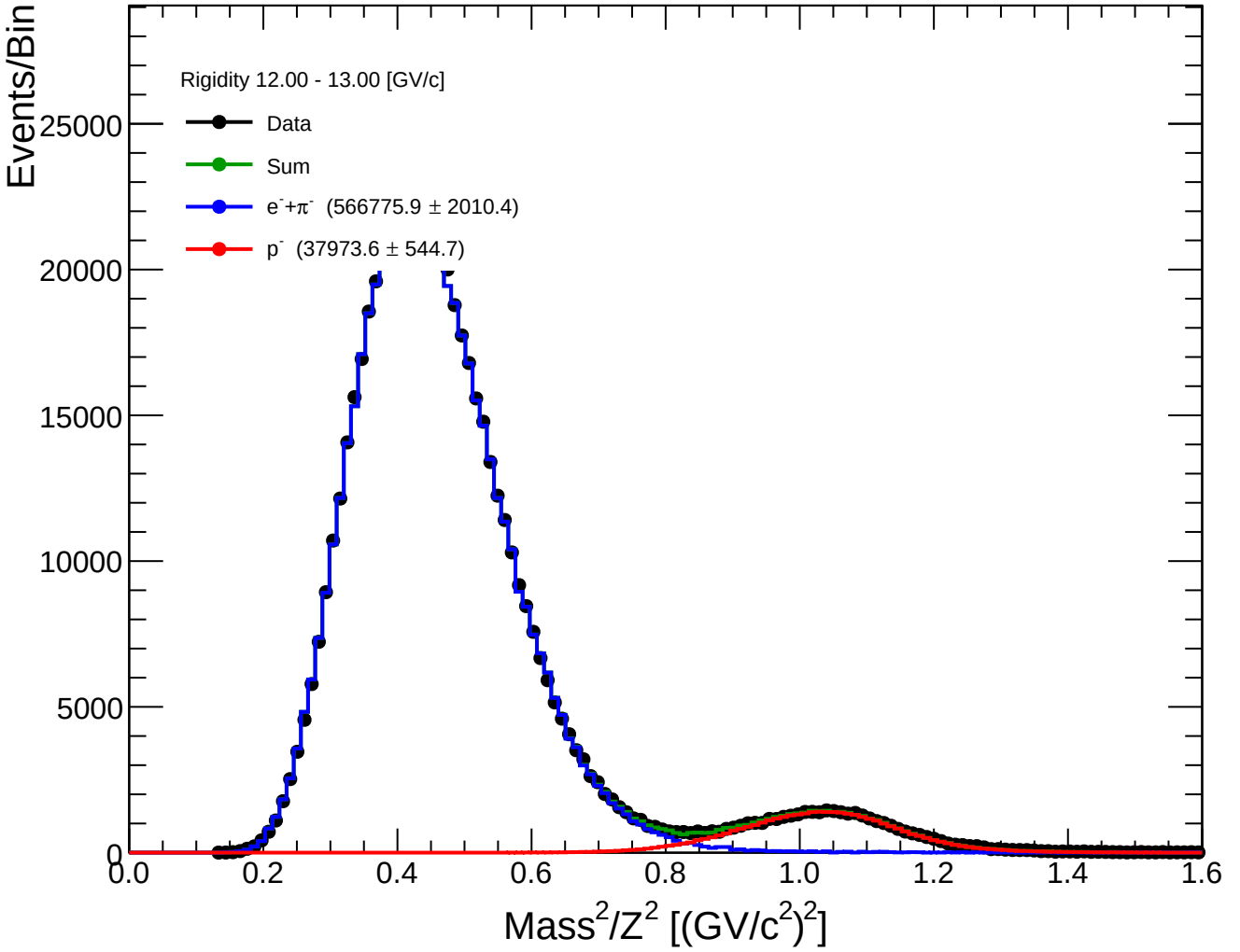

Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1154727.2 ± 3260.0)
p⁻ (57539.5 ± 763.6)
Events/Bin
0
10000
20000
30000
40000
50000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

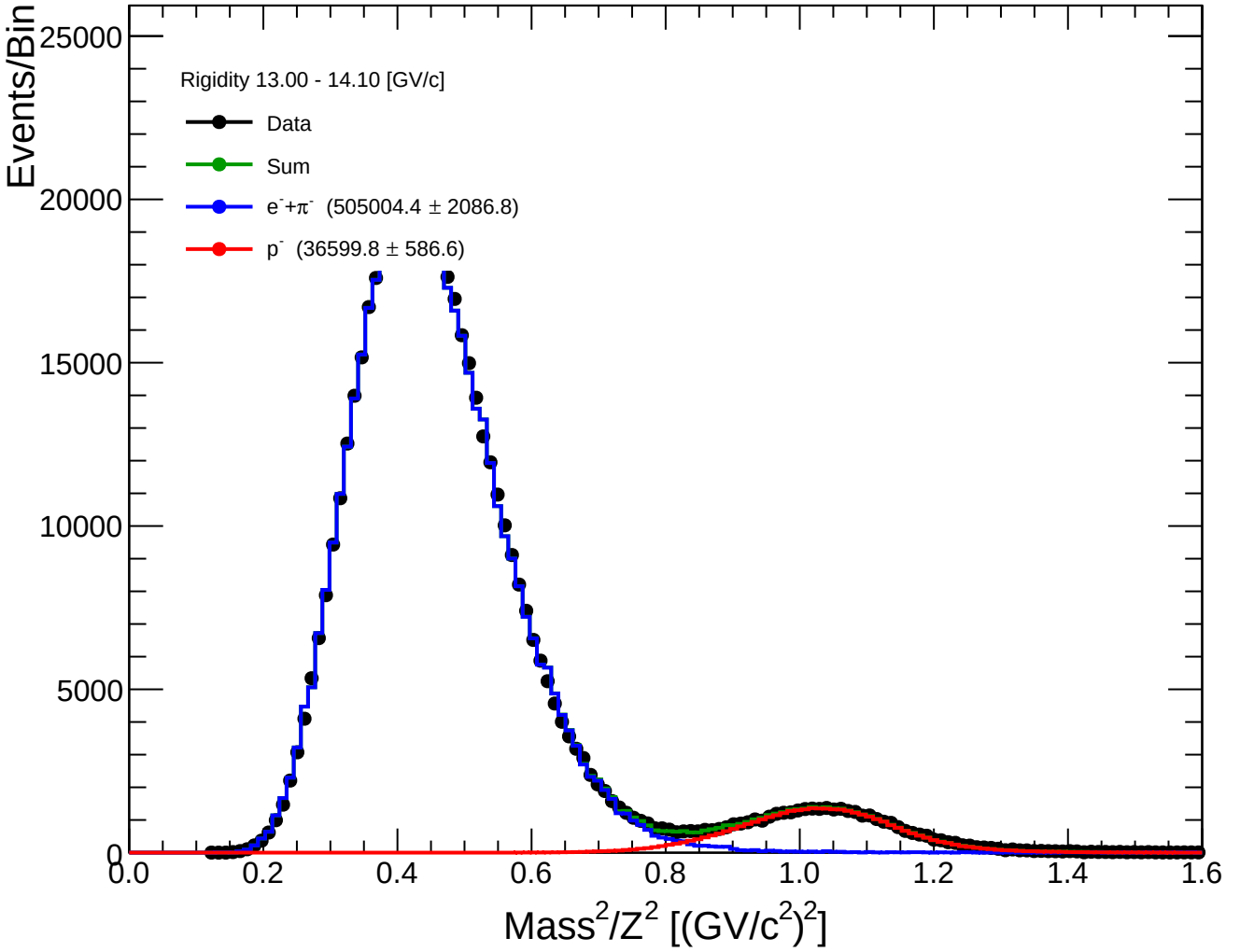

Events/Bin
50000
40000
30000
20000
10000
0
Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1055935.7 ± 3135.6)
p⁻ (53277.7 ± 739.5)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

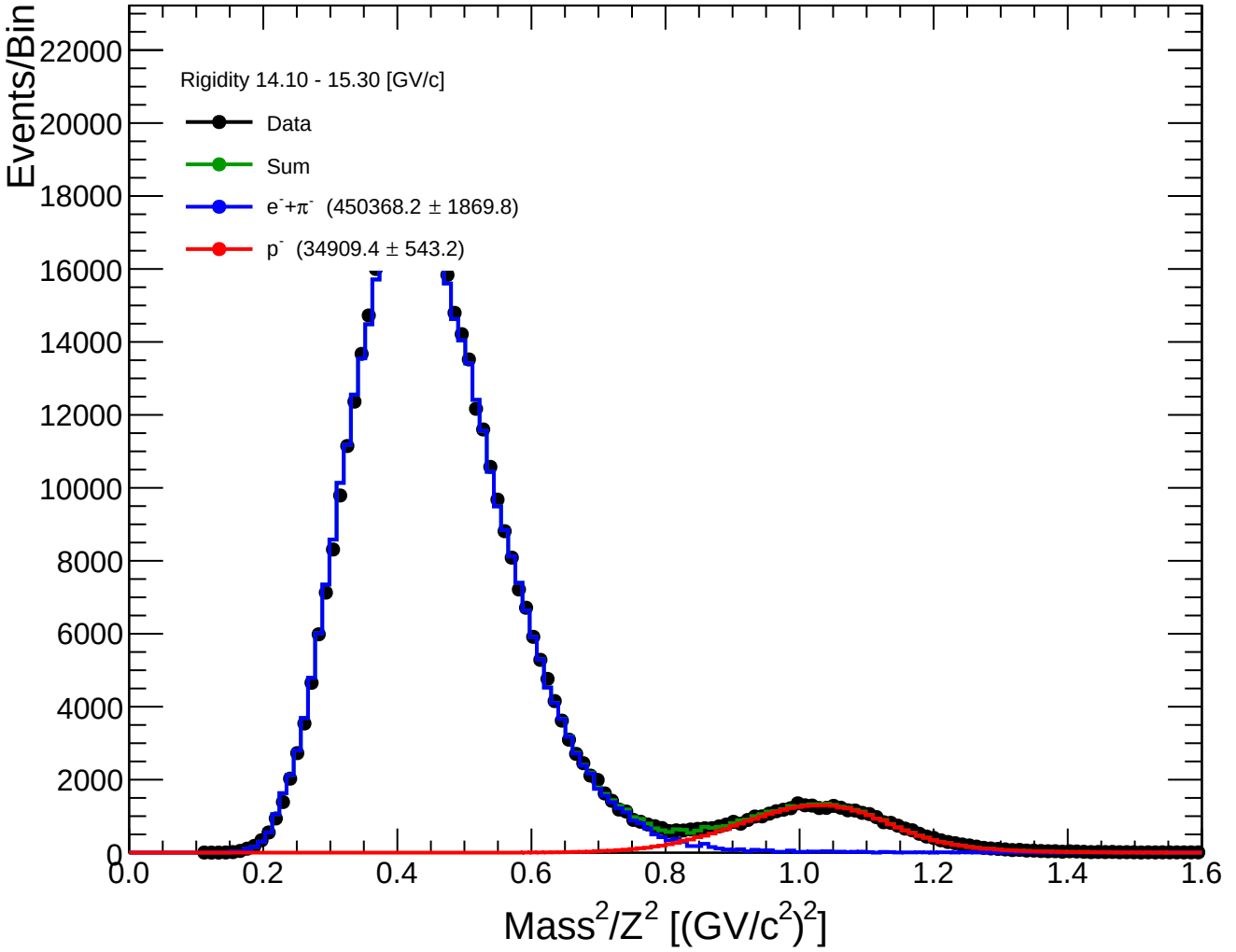

Rigidity 9.26 - 10.10 [GV/c]
Data
Sum
e⁻+π⁻ (927538.6 ± 2805.4)
p⁻ (49507.8 ± 680.0)
Events/Bin
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

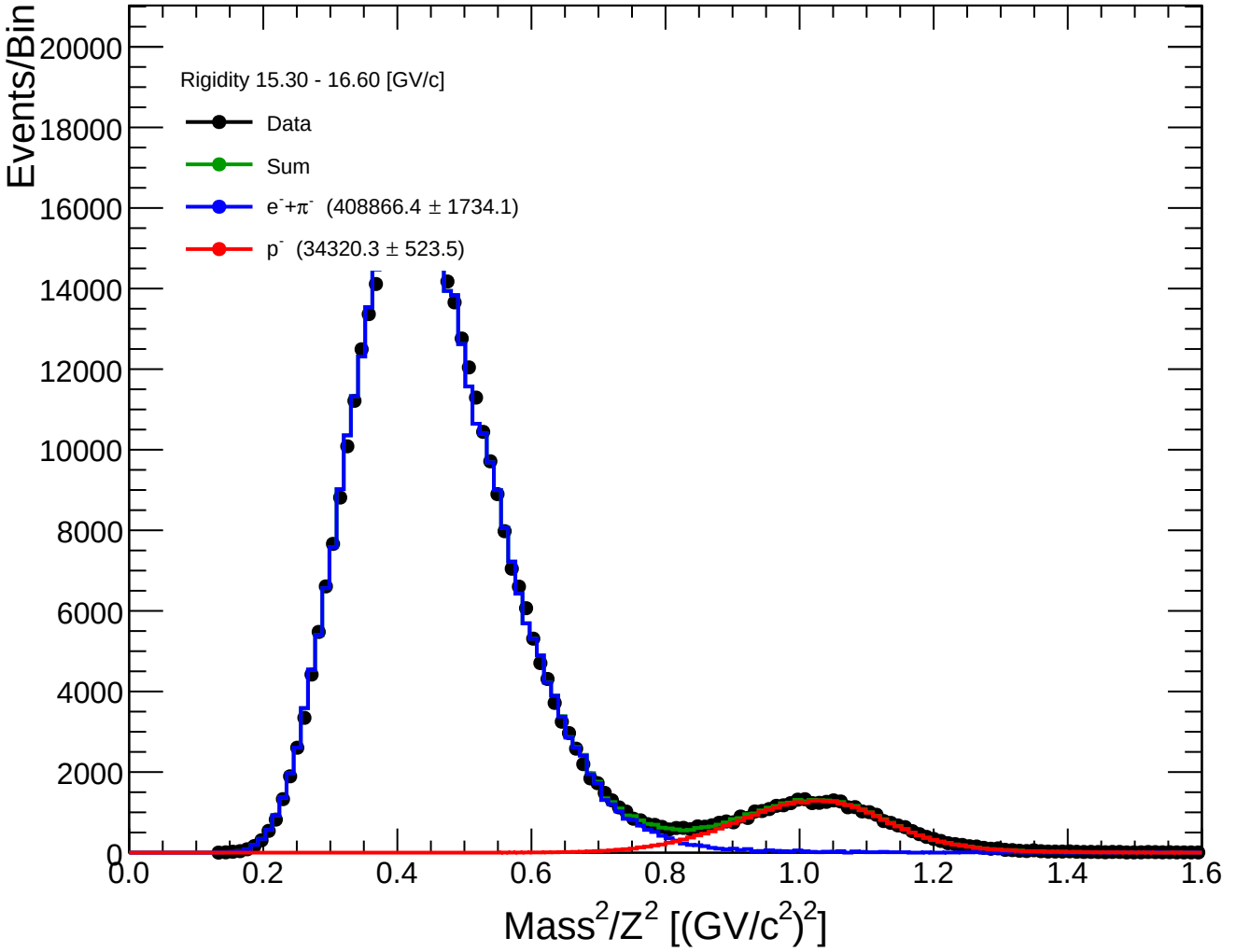

Rigidity 10.10 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (797878.2 ± 2556.5)
p⁻ (45628.0 ± 640.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5000
10000
15000
20000
25000
30000
35000
40000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

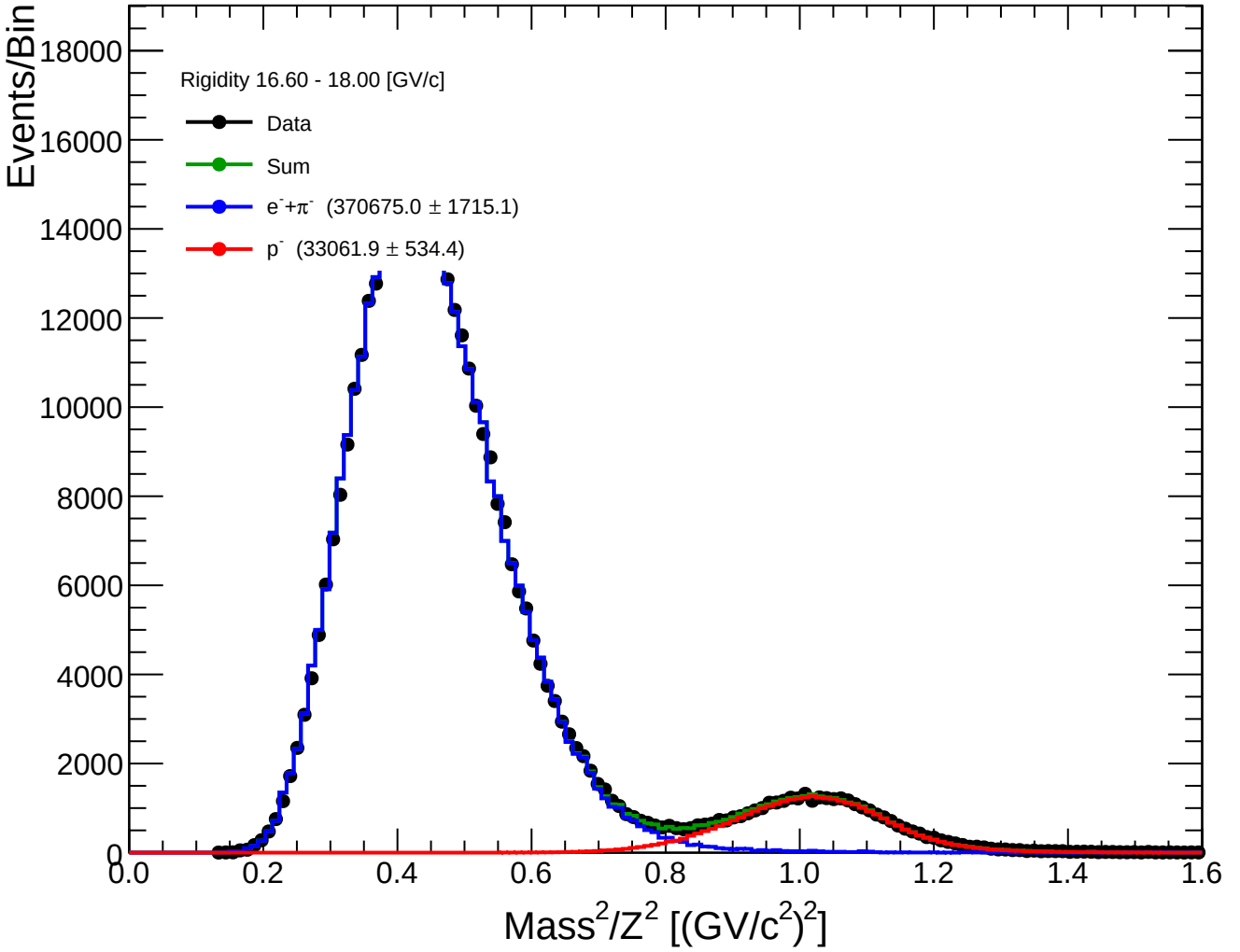

Rigidity 11.00 - 12.00 [GV/c]
Data
Sum
e⁻+π⁻ (706093.5 ± 2453.6)
p⁻ (43053.6 ± 635.0)
Events/Bin
35000
30000
25000
20000
15000
10000
5000
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

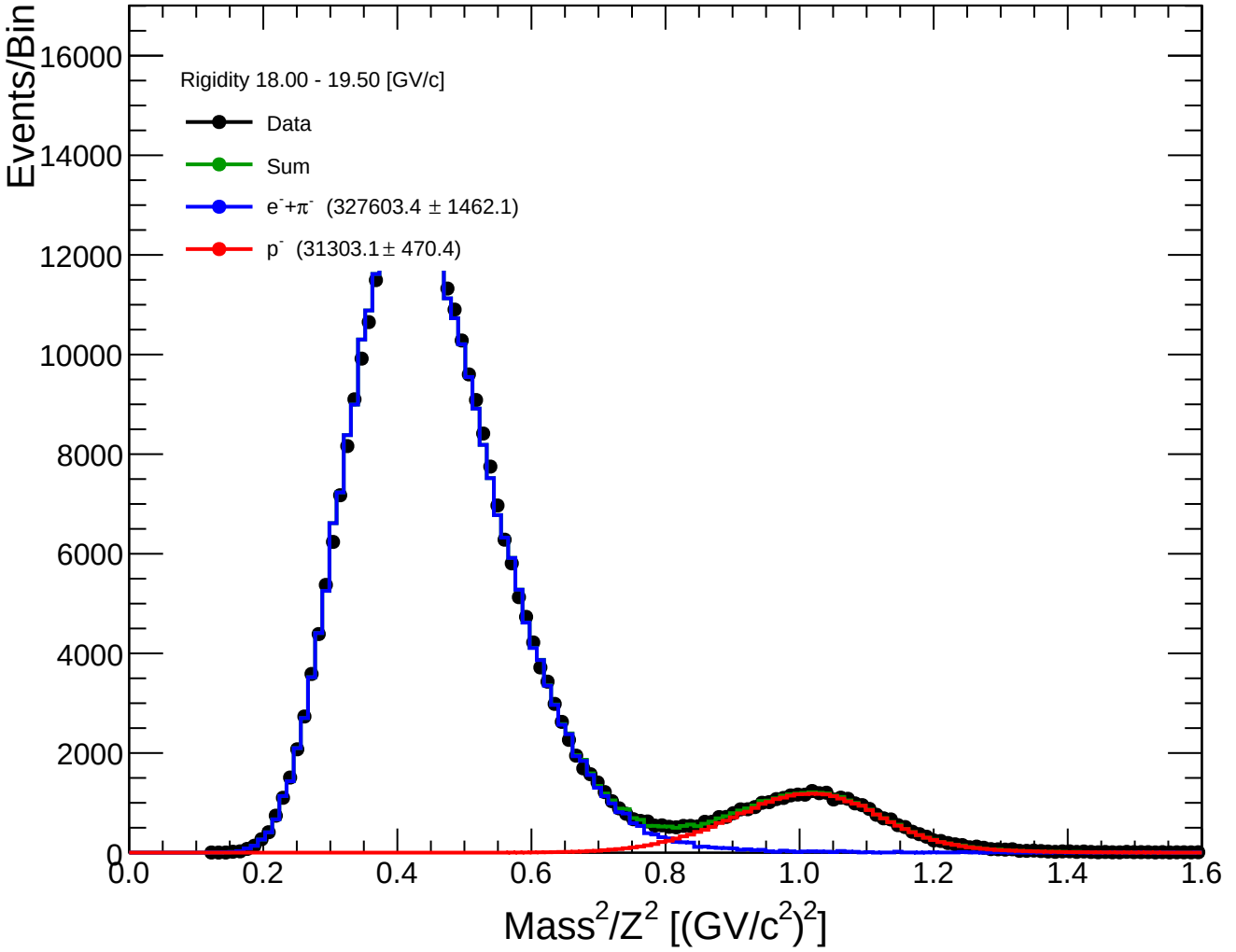

Rigidity 12.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (566775.9 ± 2010.4)
p⁻ (37973.6 ± 544.7)
Events/Bin
0
5000
10000
15000
20000
25000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

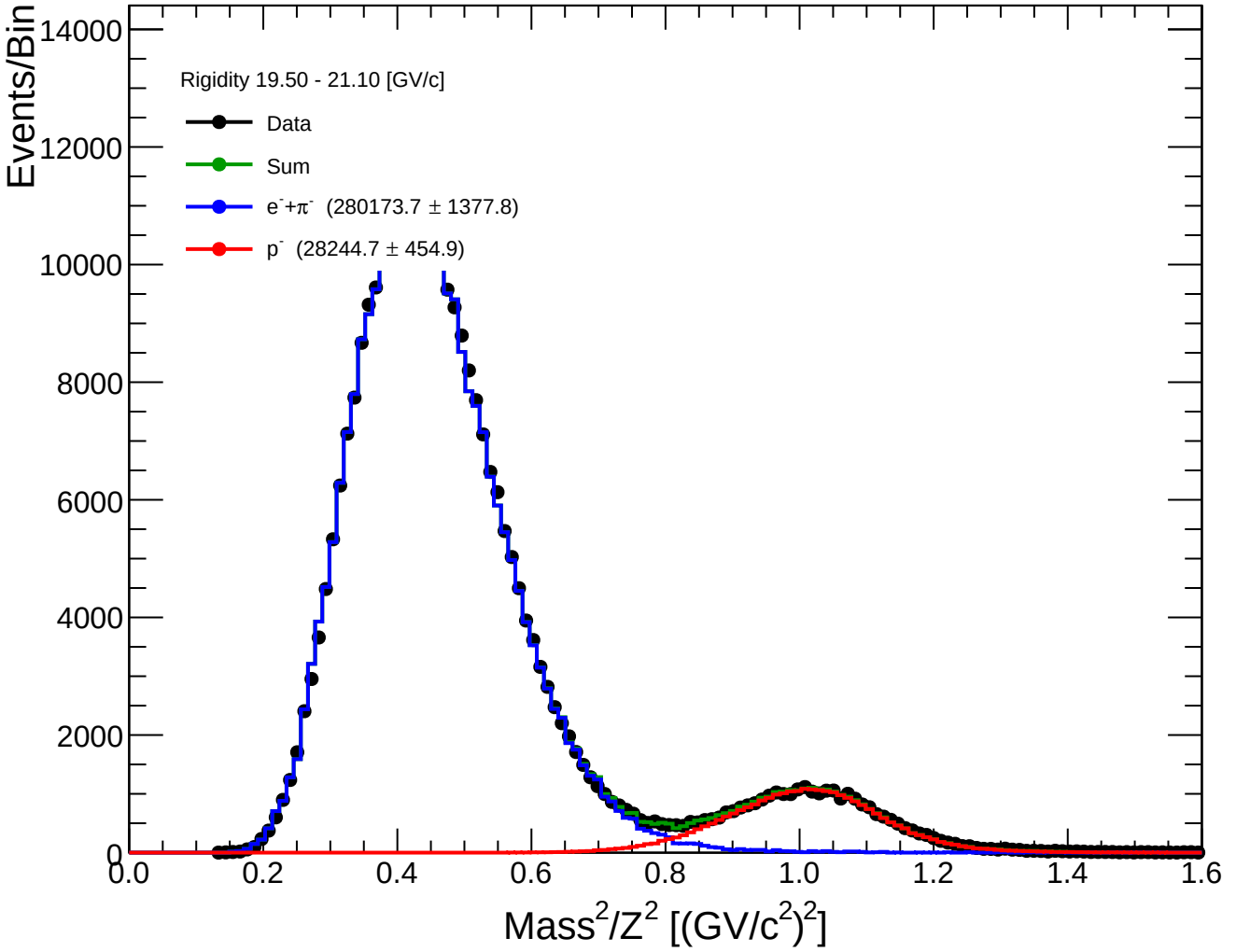

Events/Bin
25000
20000
15000
10000
5000
0
Rigidity 13.00 - 14.10 [GV/c]
Data
Sum
e⁻+π⁻ (505004.4 ± 2086.8)
p⁻ (36599.8 ± 586.6)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

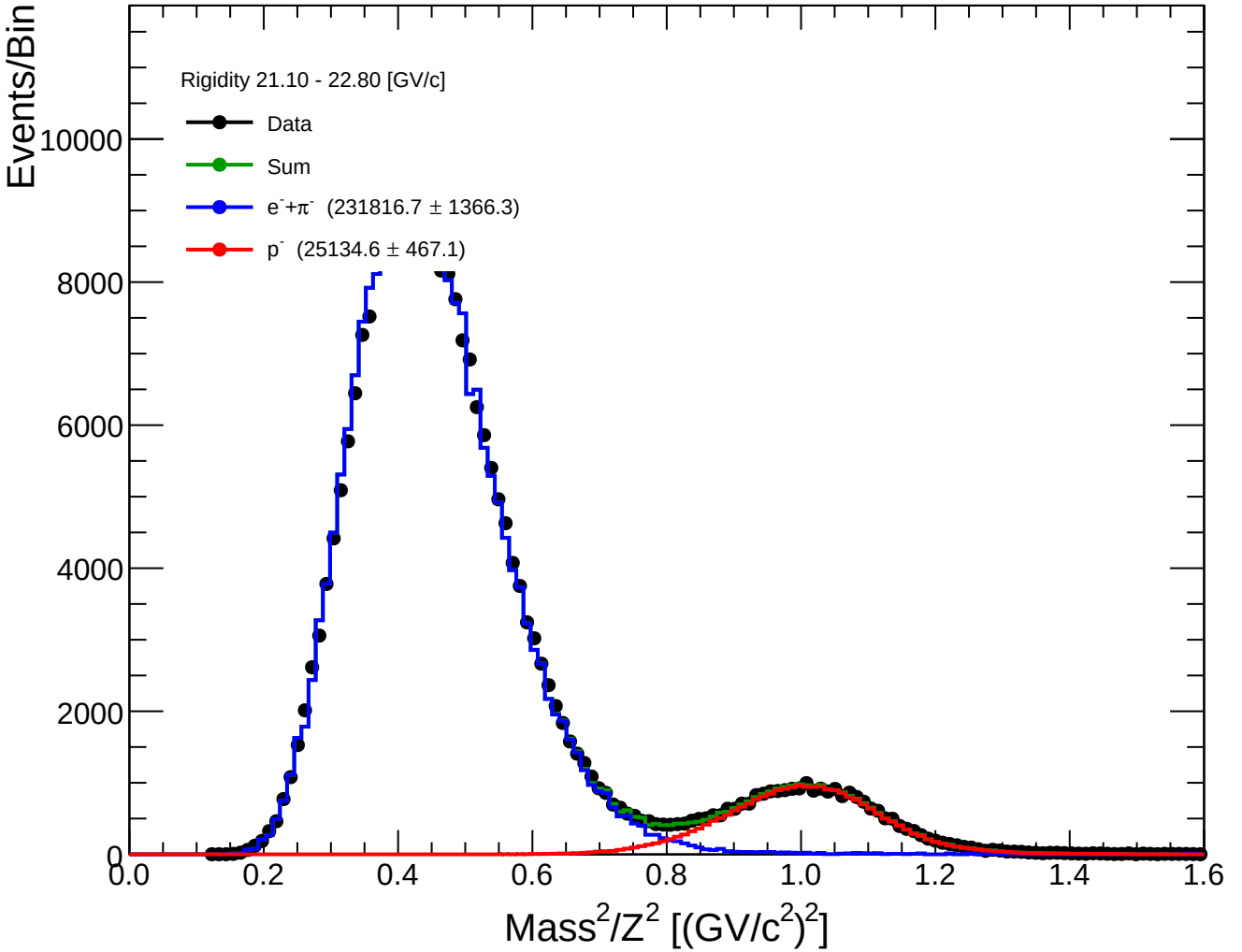

Events/Bin
Rigidity 14.10 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (450368.2 ± 1869.8)
p⁻ (34909.4 ± 543.2)
Mass²/Z² [(GV/c²)²]

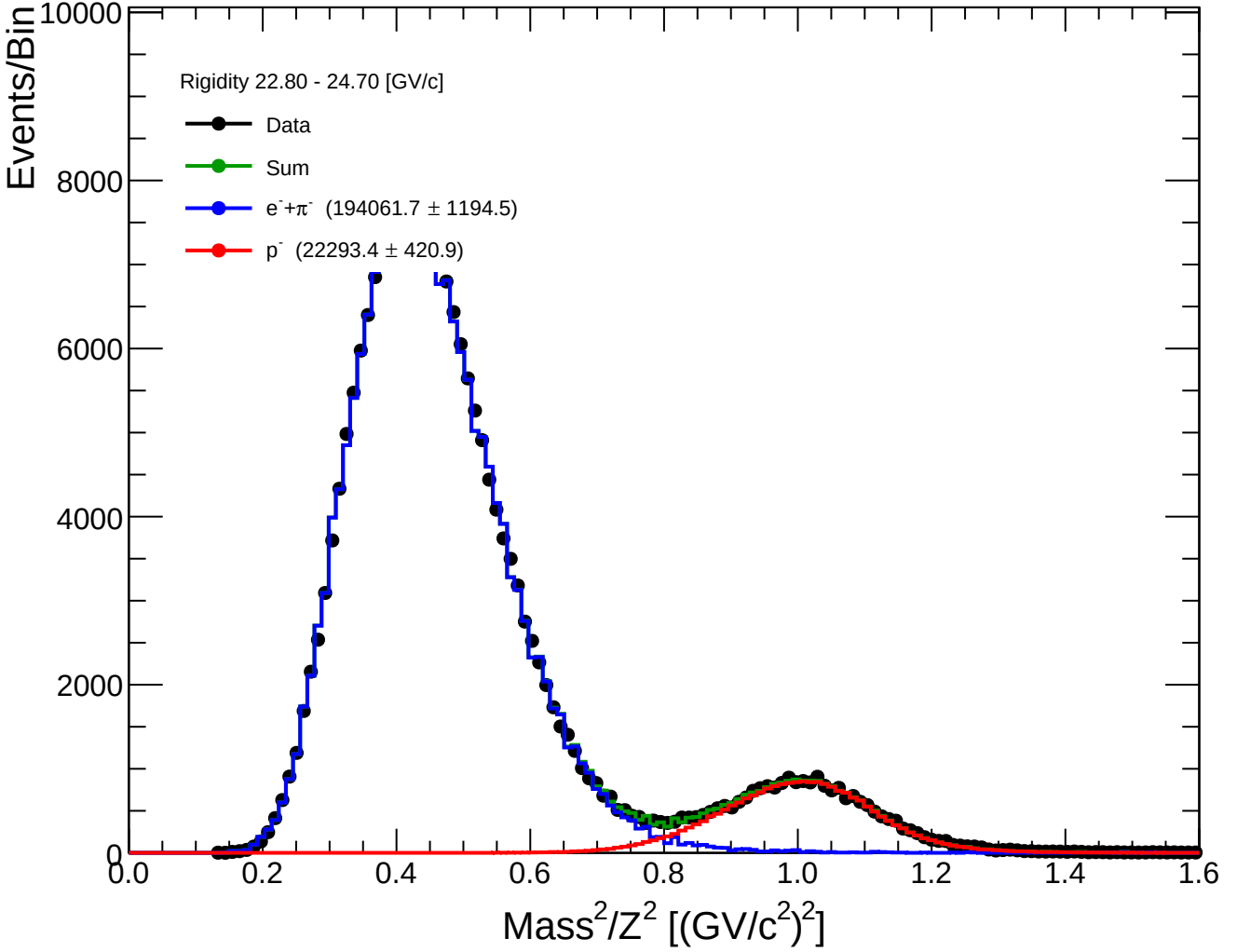

Events/Bin
Rigidity 15.30 - 16.60 [GV/c]
Data
Sum
e⁻+π⁻ (408866.4 ± 1734.1)
p⁻ (34320.3 ± 523.5)
Mass²/Z² [(GV/c²)²]

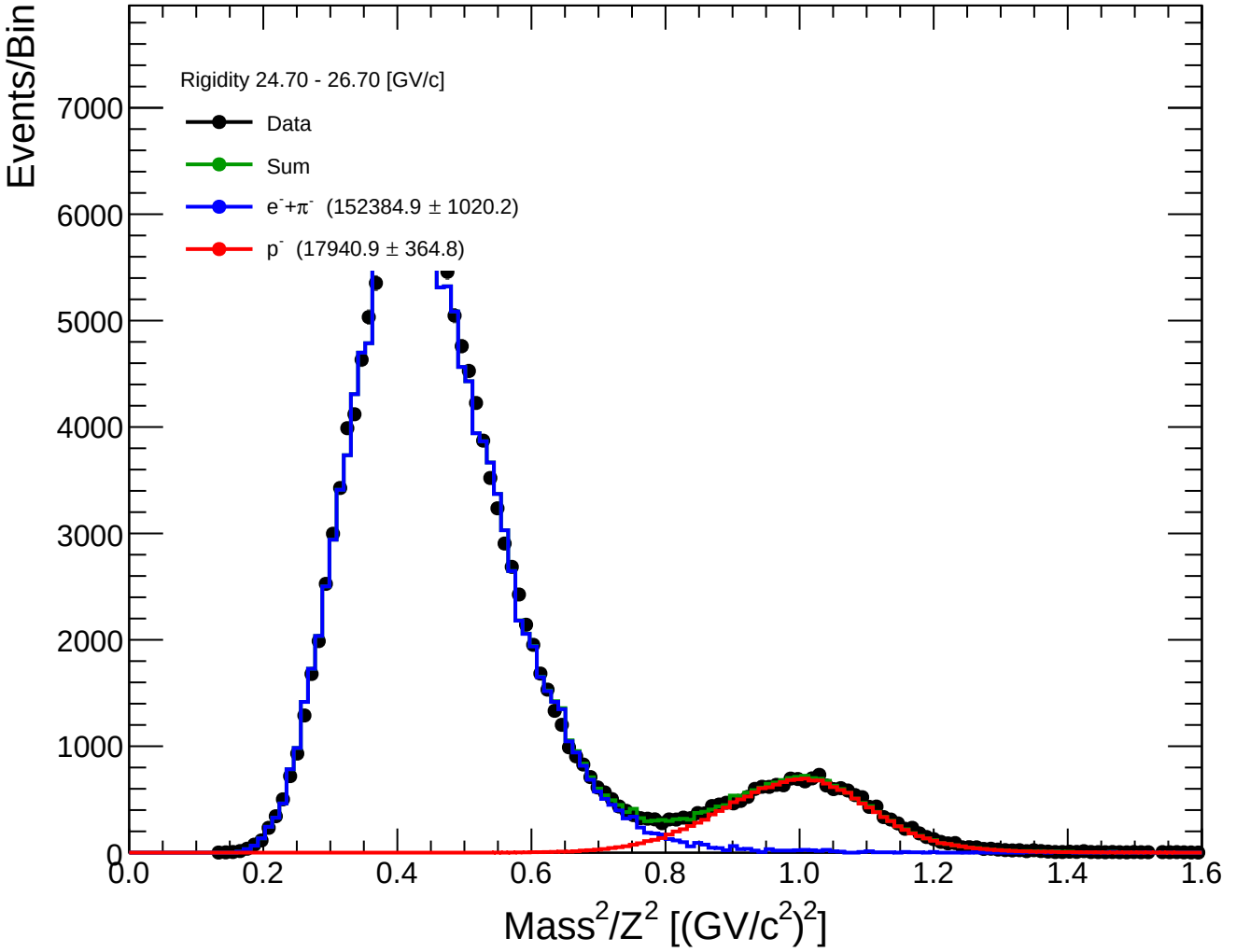

Events/Bin
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Rigidity 16.60 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (370675.0 ± 1715.1)
p⁻ (33061.9 ± 534.4)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

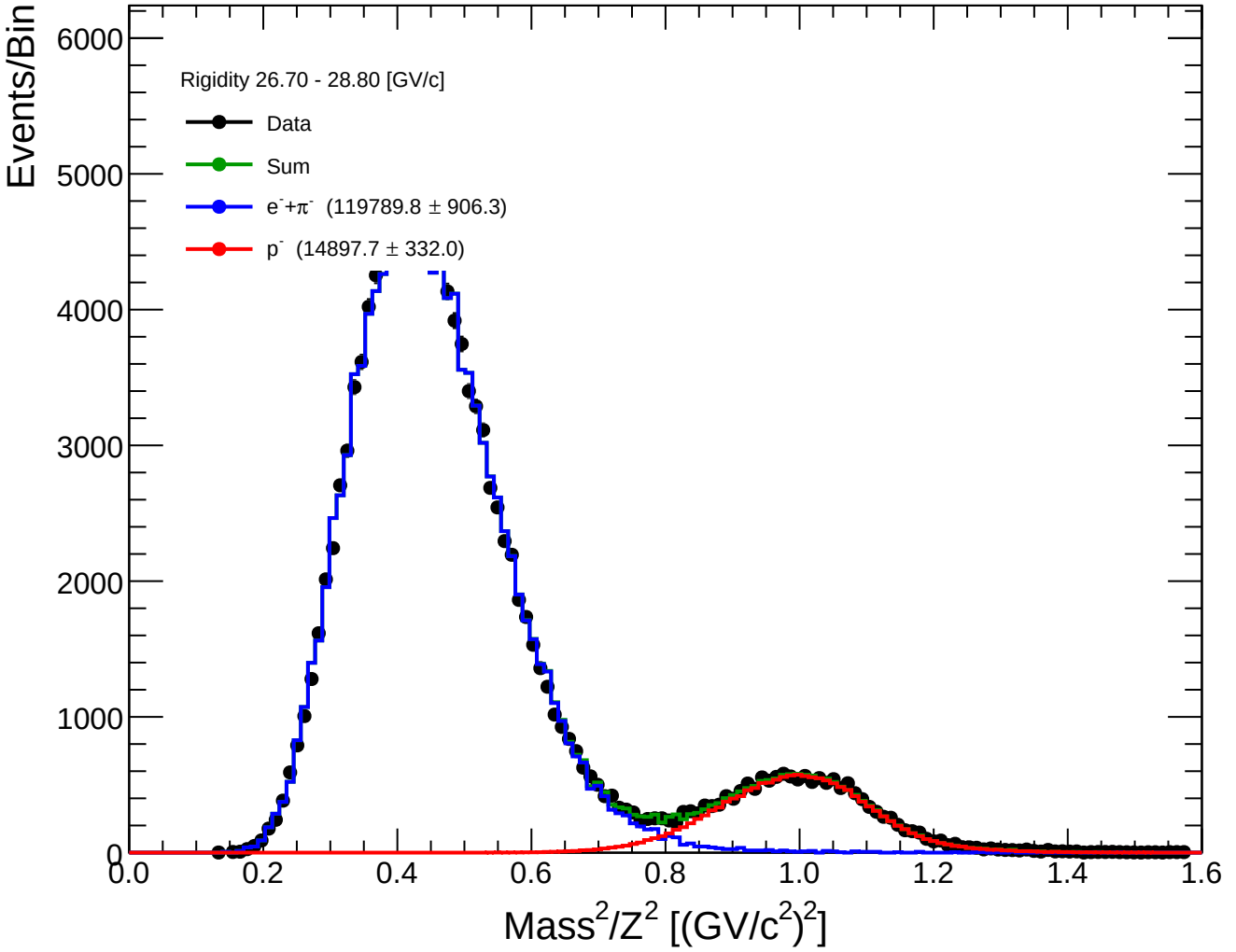

Events/Bin
16000
14000
12000
10000
8000
6000
4000
2000
0
Rigidity 18.00 - 19.50 [GV/c]
Data
Sum
e⁻+π⁻ (327603.4 ± 1462.1)
p⁻ (31303.1 ± 470.4)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

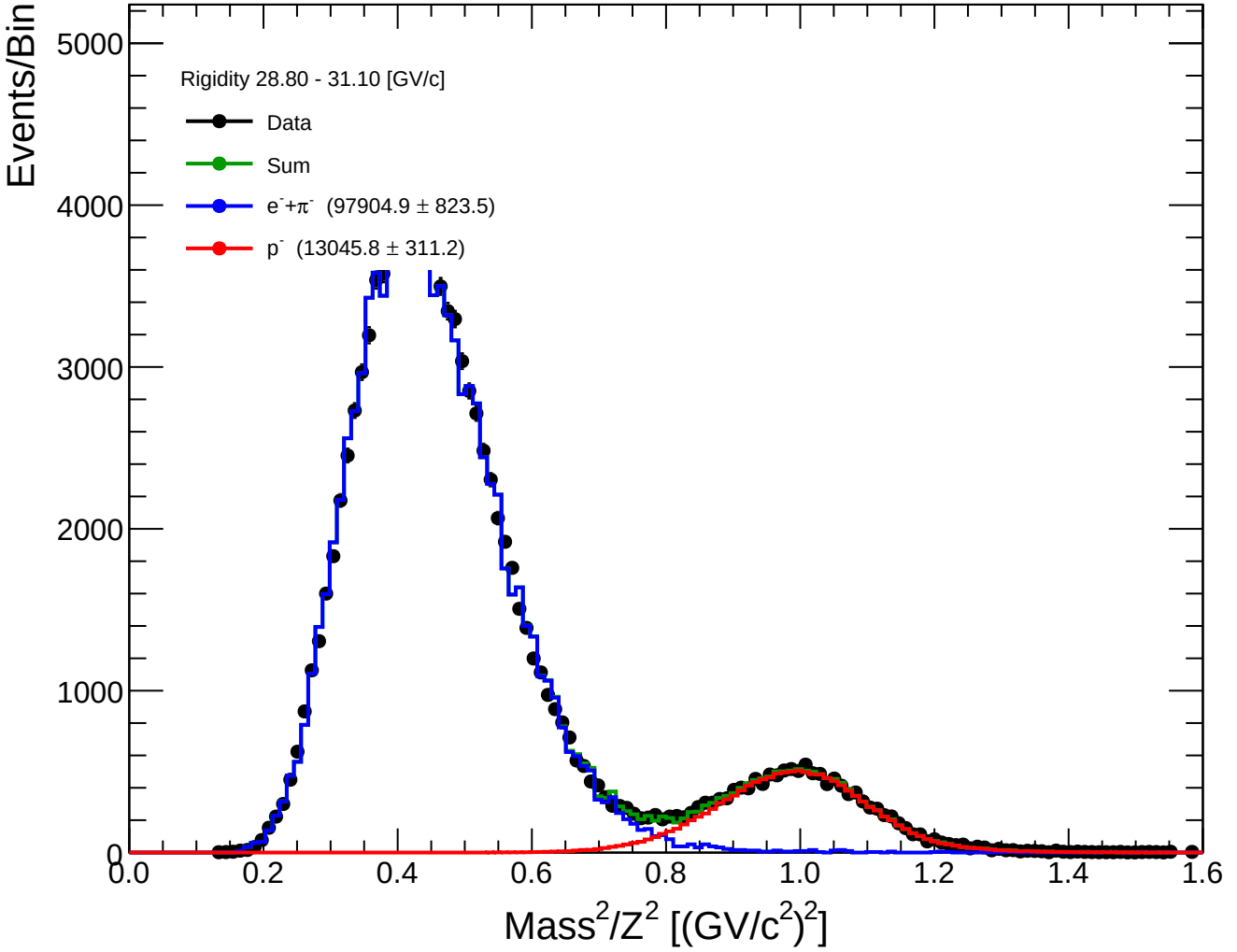

Events/Bin
14000
12000
10000
8000
6000
4000
2000
0
Rigidity 19.50 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (280173.7 ± 1377.8)
p⁻ (28244.7 ± 454.9)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

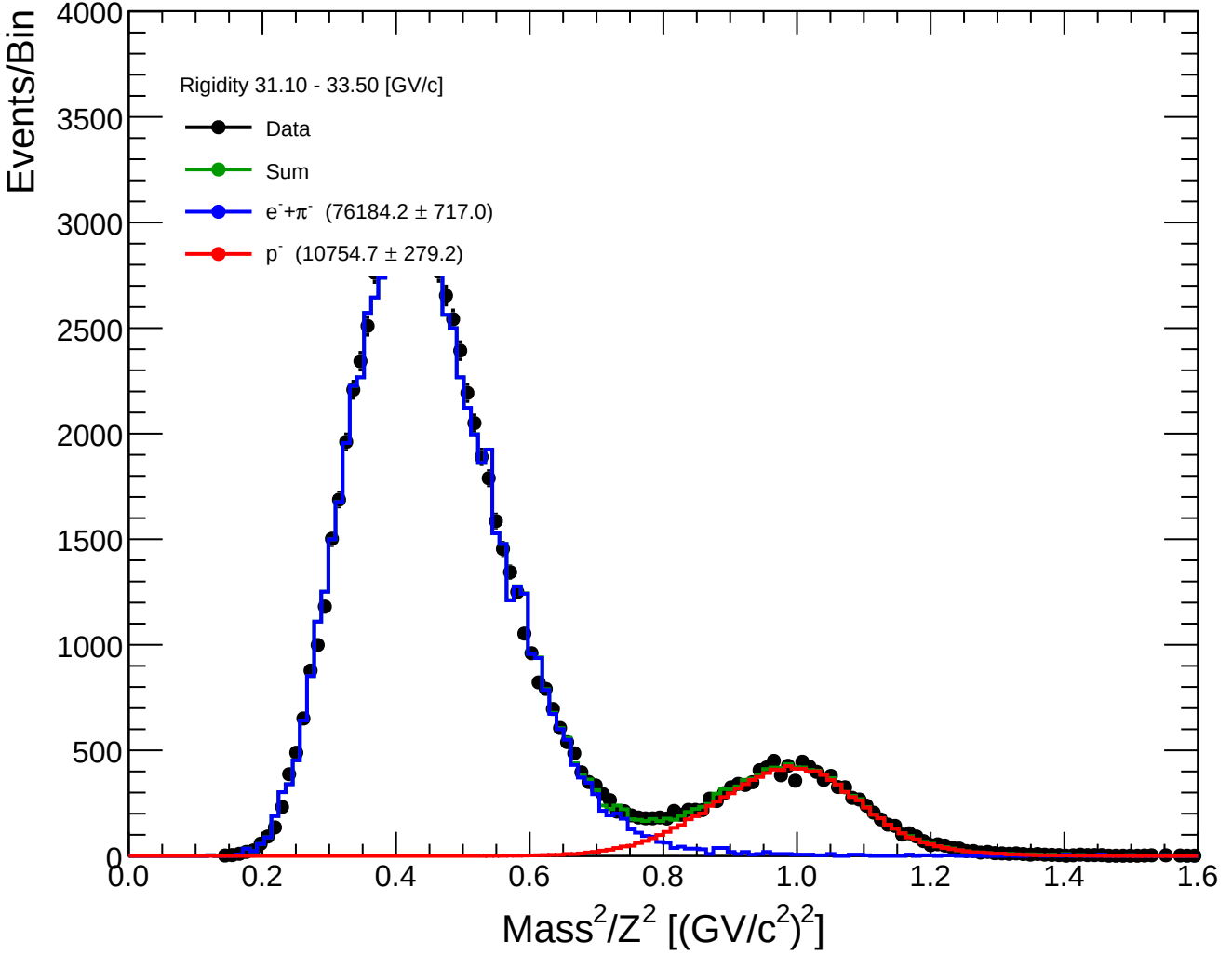

Rigidity 21.10 - 22.80 [GV/c]
Data
Sum
e⁻+π⁻ (231816.7 ± 1366.3)
p⁻ (25134.6 ± 467.1)
Events/Bin
0
2000
4000
6000
8000
10000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

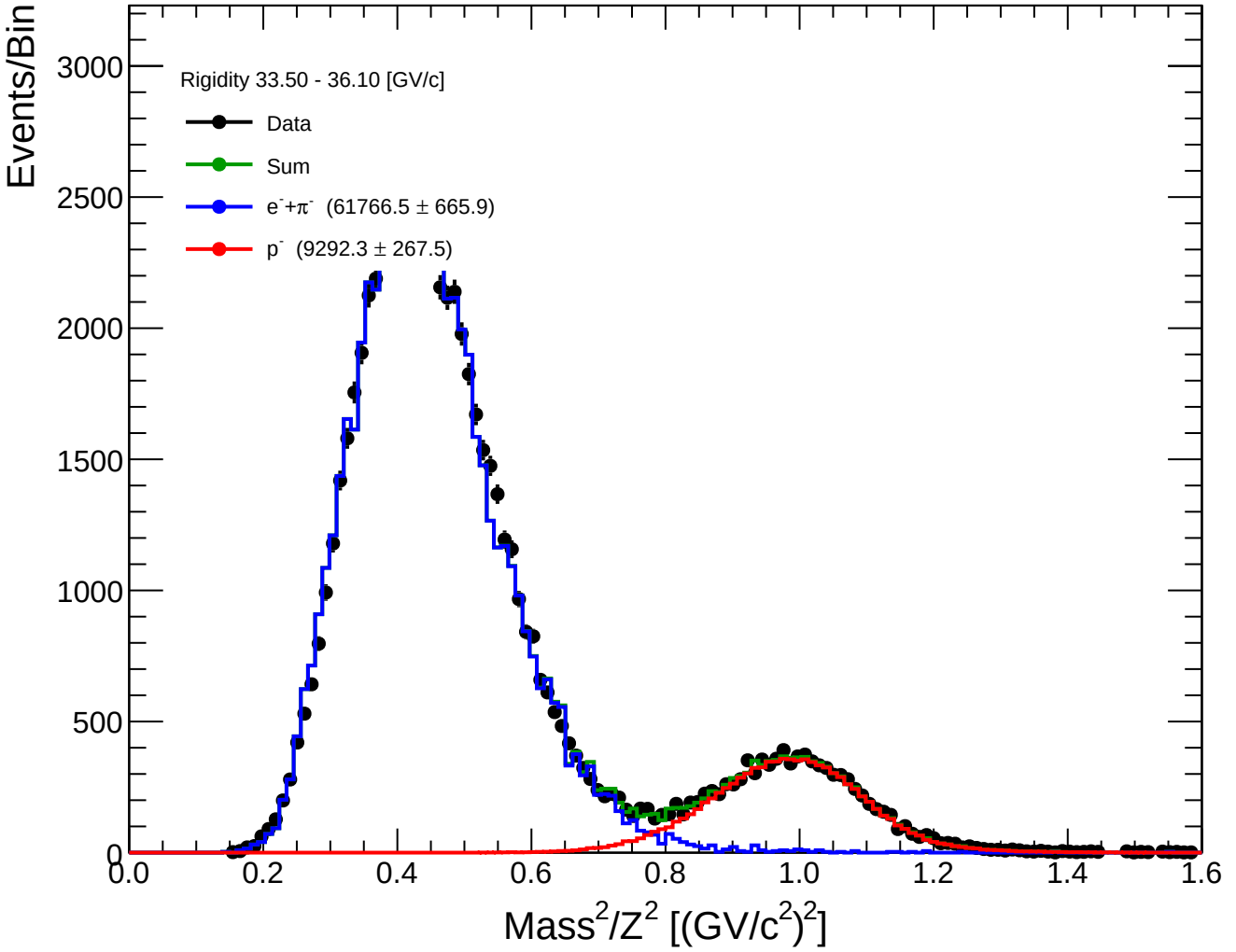

Rigidity 22.80 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (194061.7 ± 1194.5)
p⁻ (22293.4 ± 420.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
2000
4000
6000
8000
10000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

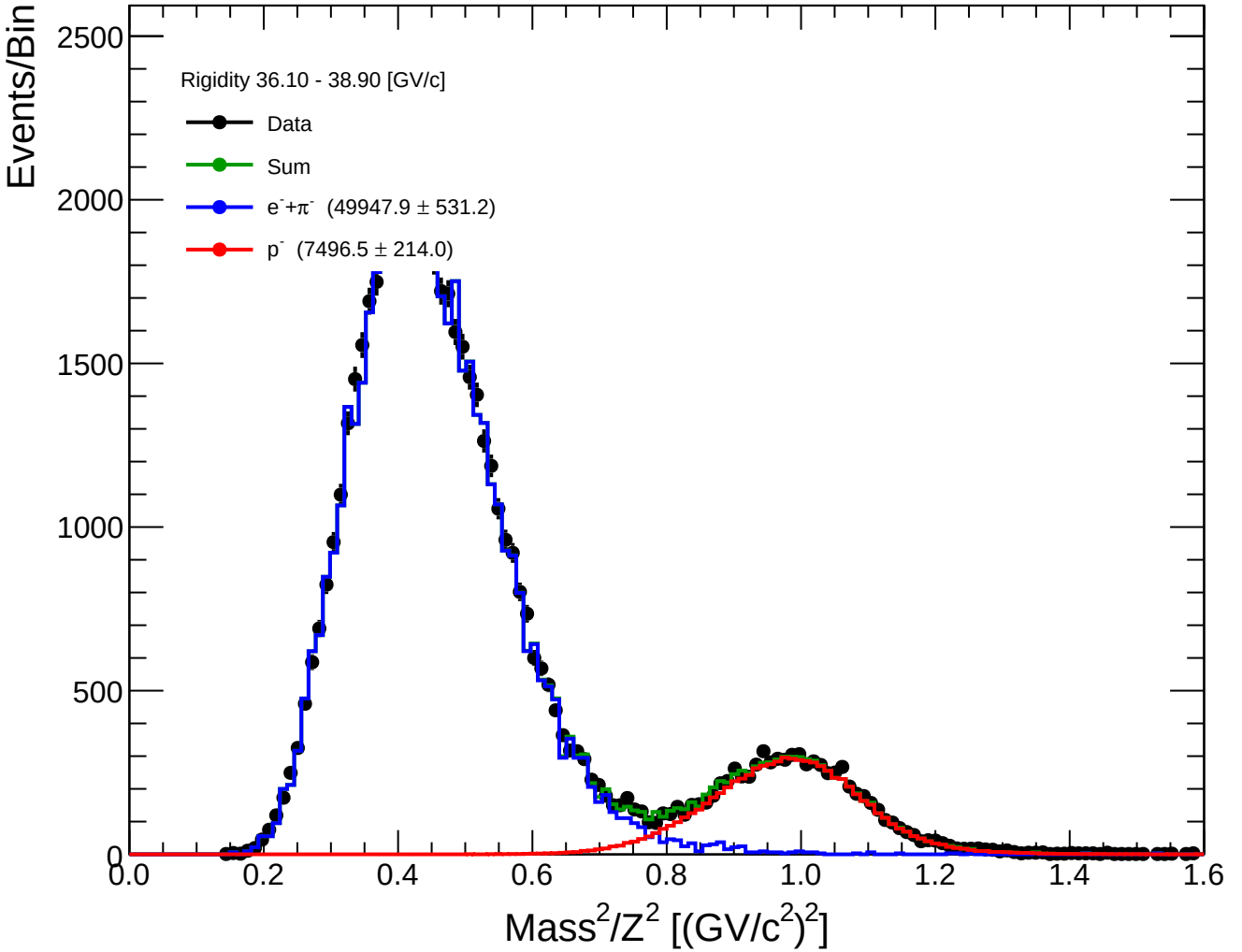

Rigidity 24.70 - 26.70 [GV/c]
Data
Sum
e⁻+π⁻ (152384.9 ± 1020.2)
p⁻ (17940.9 ± 364.8)
Events/Bin
0
1000
2000
3000
4000
5000
6000
7000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

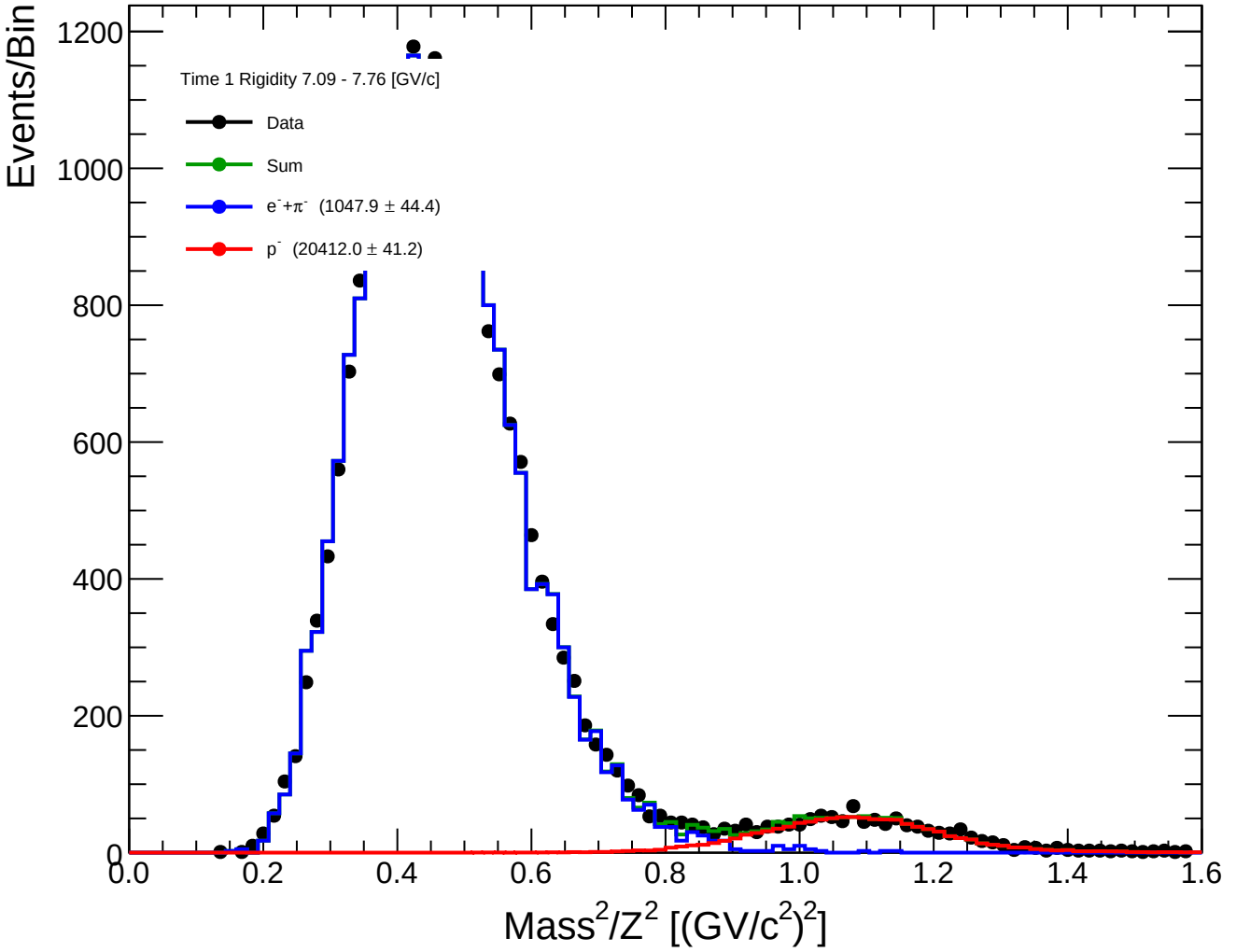

Events/Bin
6000
5000
4000
3000
2000
1000
0
Rigidity 26.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (119789.8 ± 906.3)
p⁻ (14897.7 ± 332.0)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

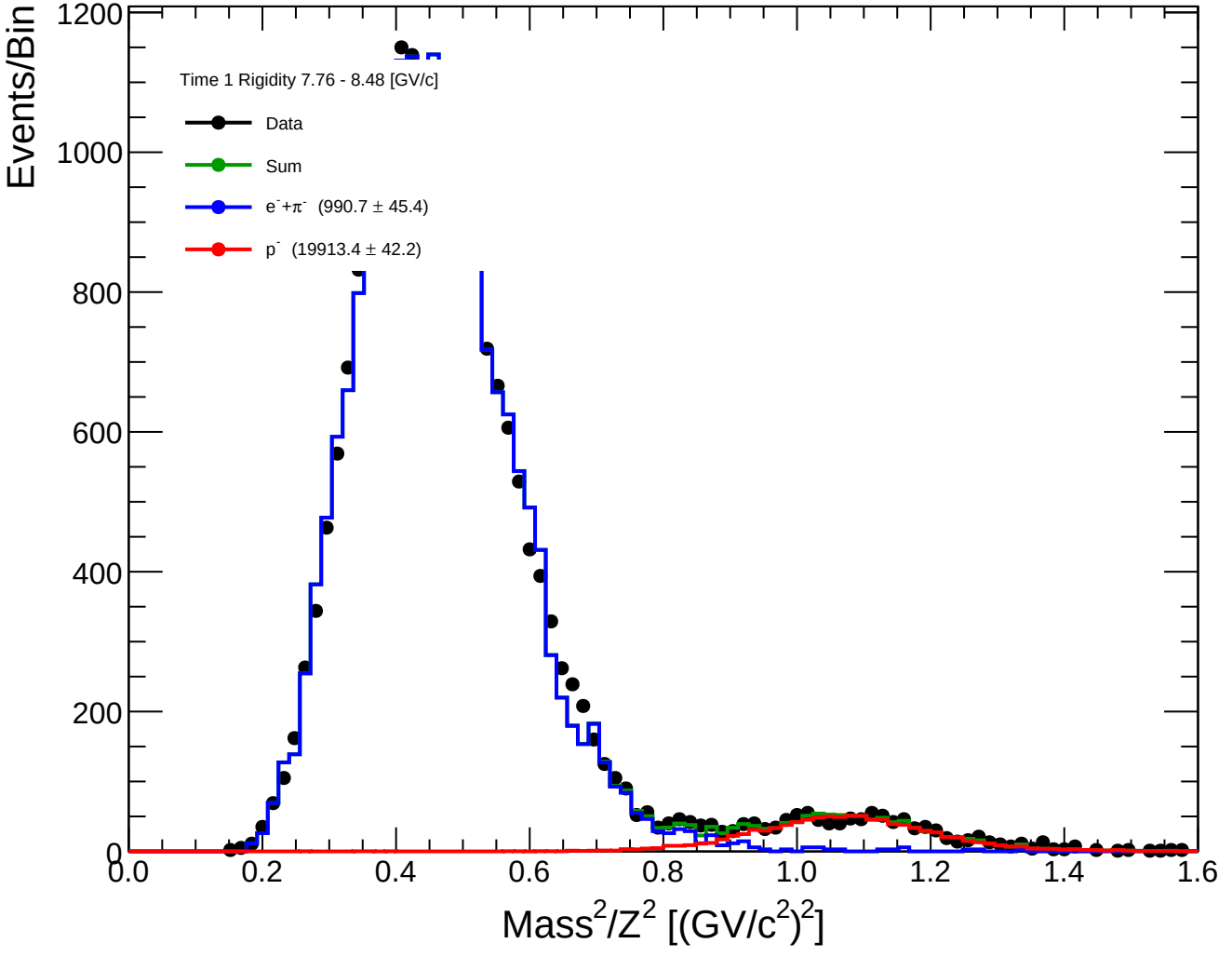

Events/Bin
5000
4000
3000
2000
1000
0
Rigidity 28.80 - 31.10 [GV/c]
Data
Sum
e⁻+π⁻ (97904.9 ± 823.5)
p⁻ (13045.8 ± 311.2)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

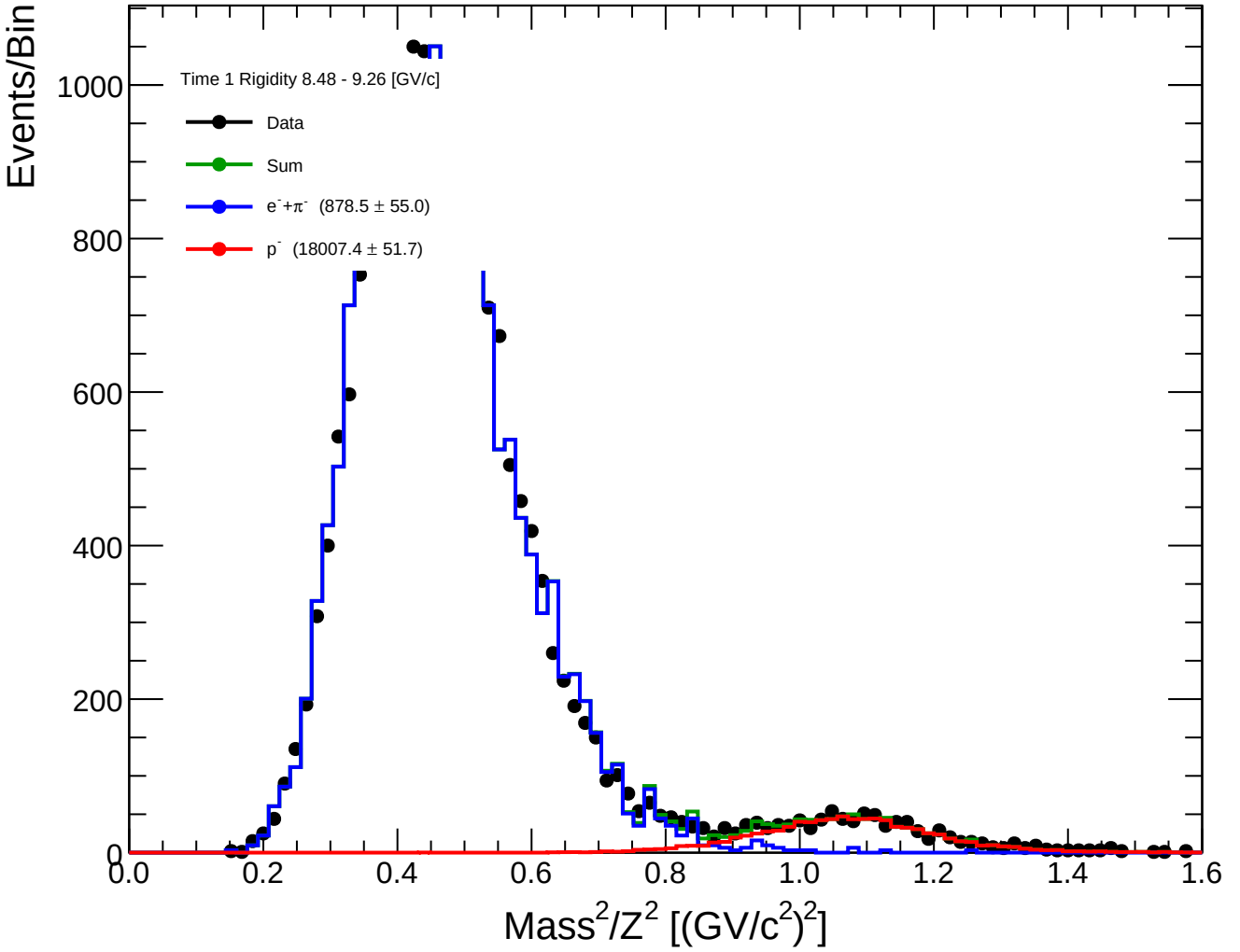

Rigidity 31.10 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (76184.2 ± 717.0)
p⁻ (10754.7 ± 279.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
3500
4000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

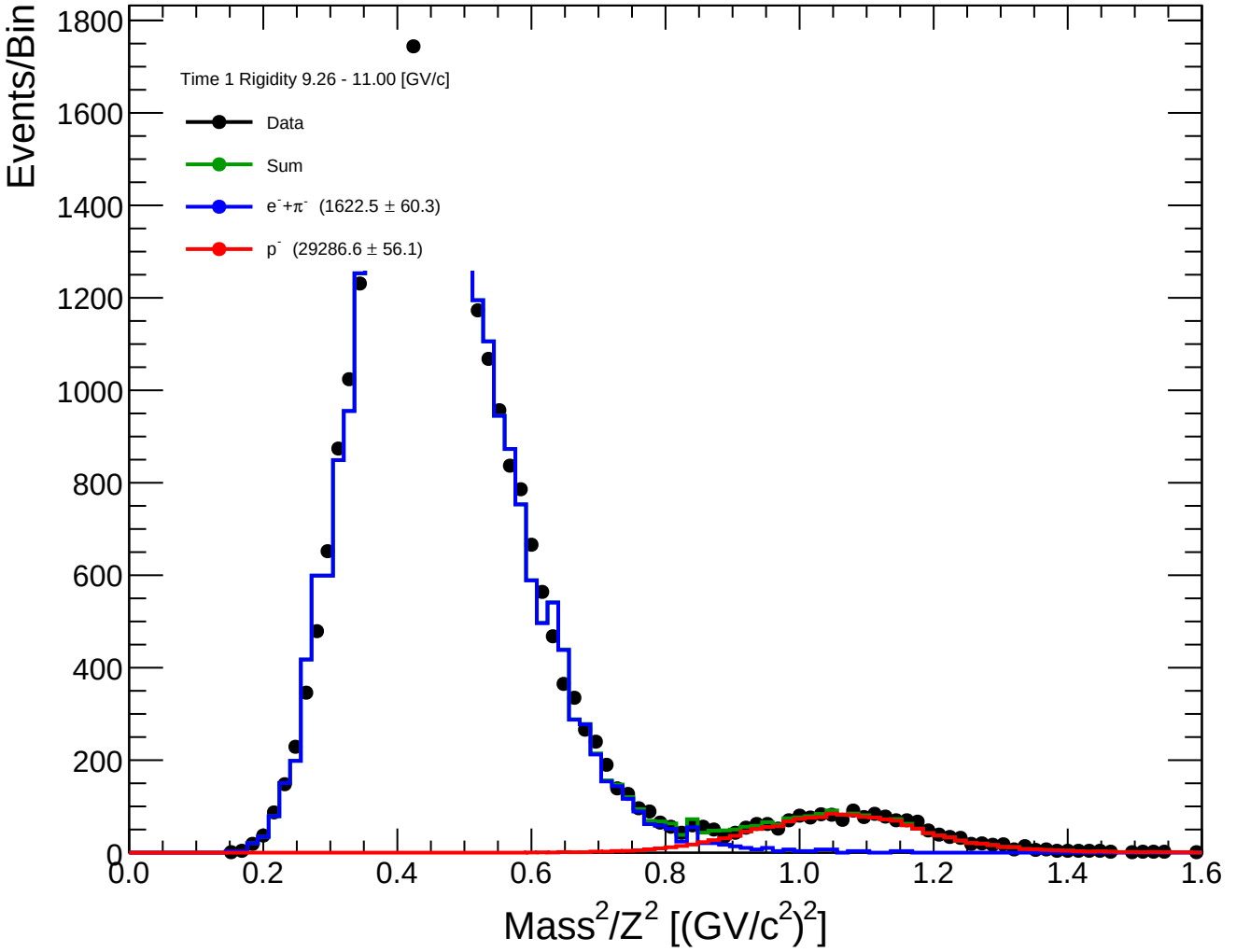

Rigidity 33.50 - 36.10 [GV/c]
Data
Sum
e⁻+π⁻ (61766.5 ± 665.9)
p⁻ (9292.3 ± 267.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

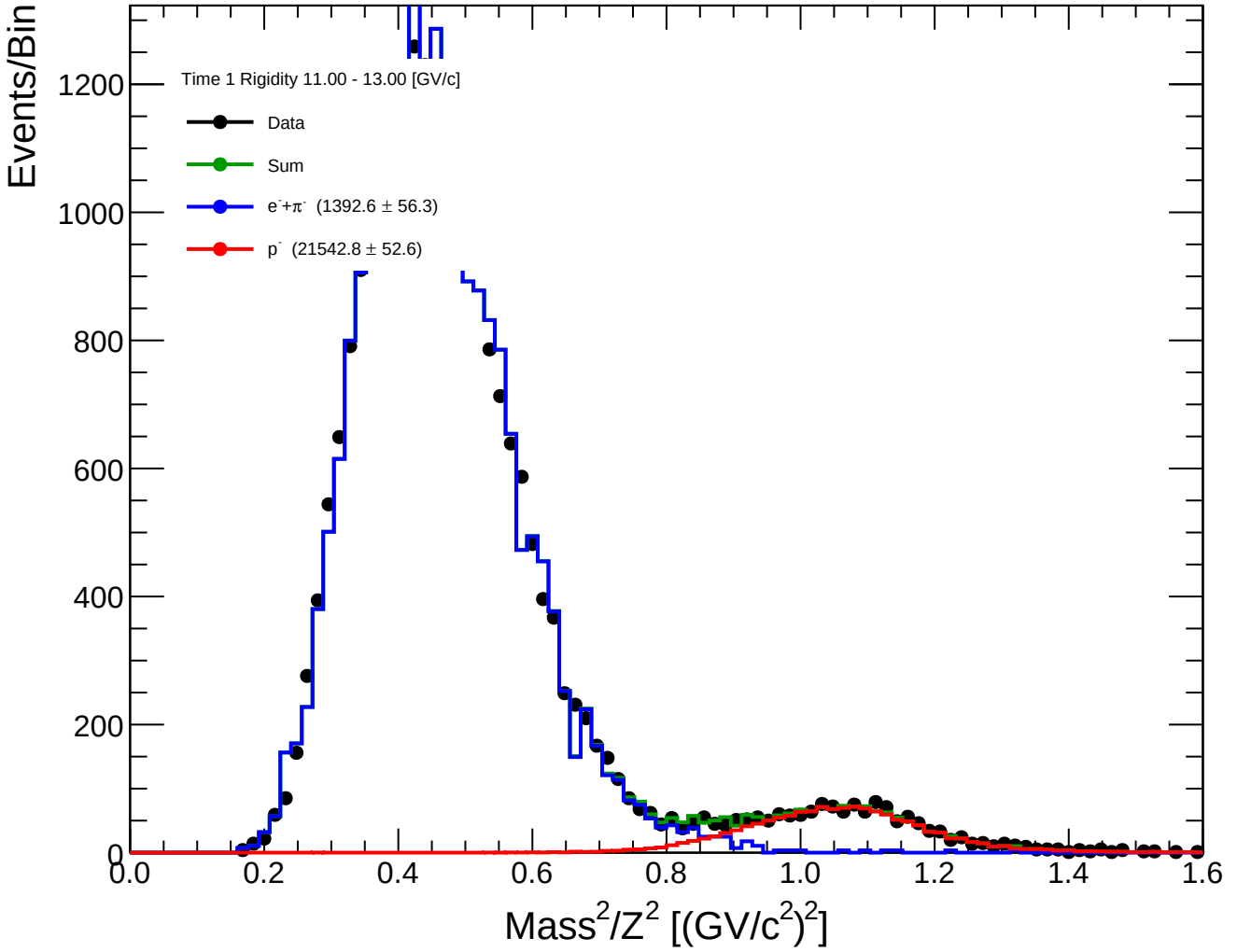

Events/Bin
2500
2000
1500
1000
500
0
Rigidity 36.10 - 38.90 [GV/c]
Data
Sum
e⁻+π⁻ (49947.9 ± 531.2)
p⁻ (7496.5 ± 214.0)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

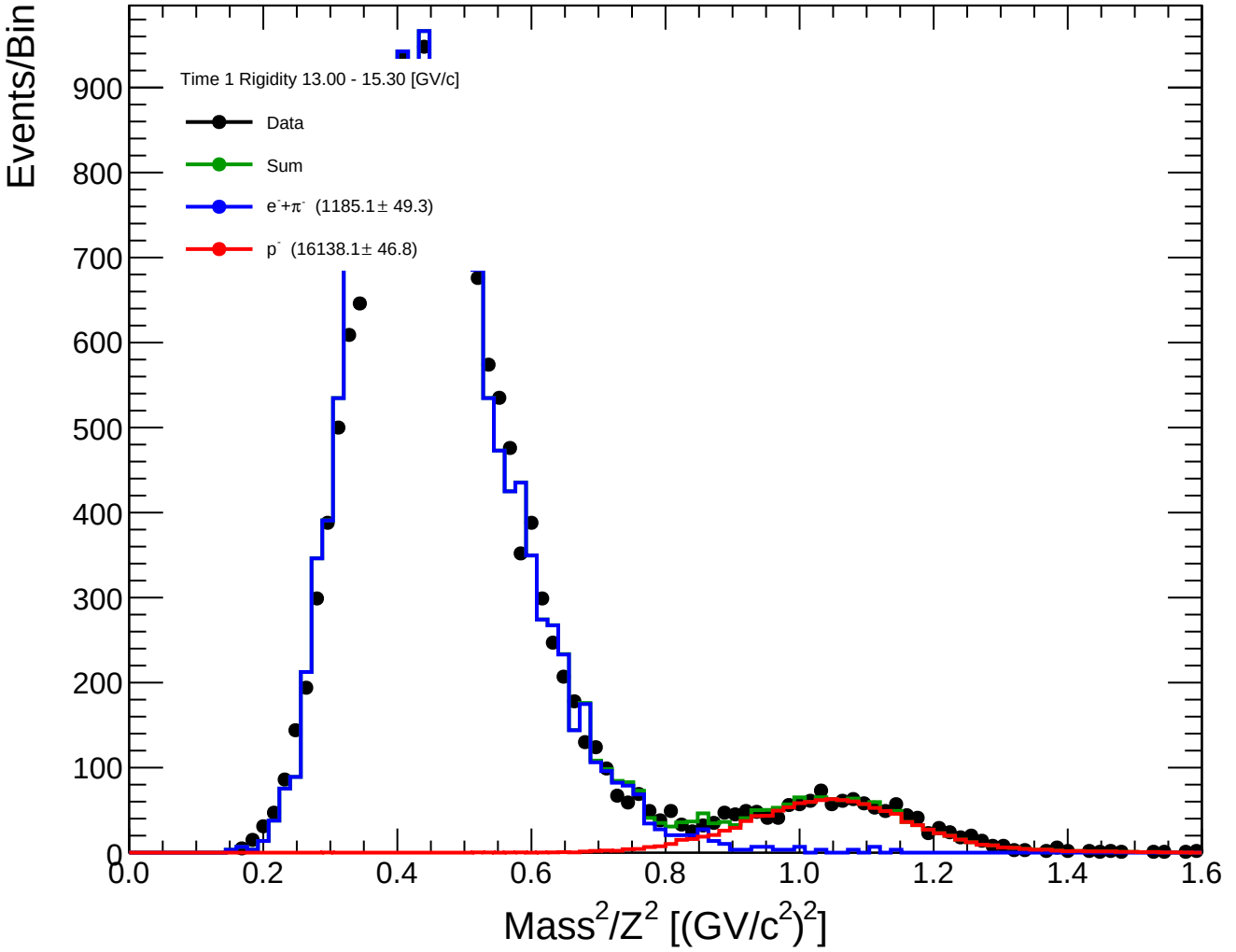

Events/Bin
1200
1000
800
600
400
200
0
Time 1 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1047.9 ± 44.4)
p⁻ (20412.0 ± 41.2)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

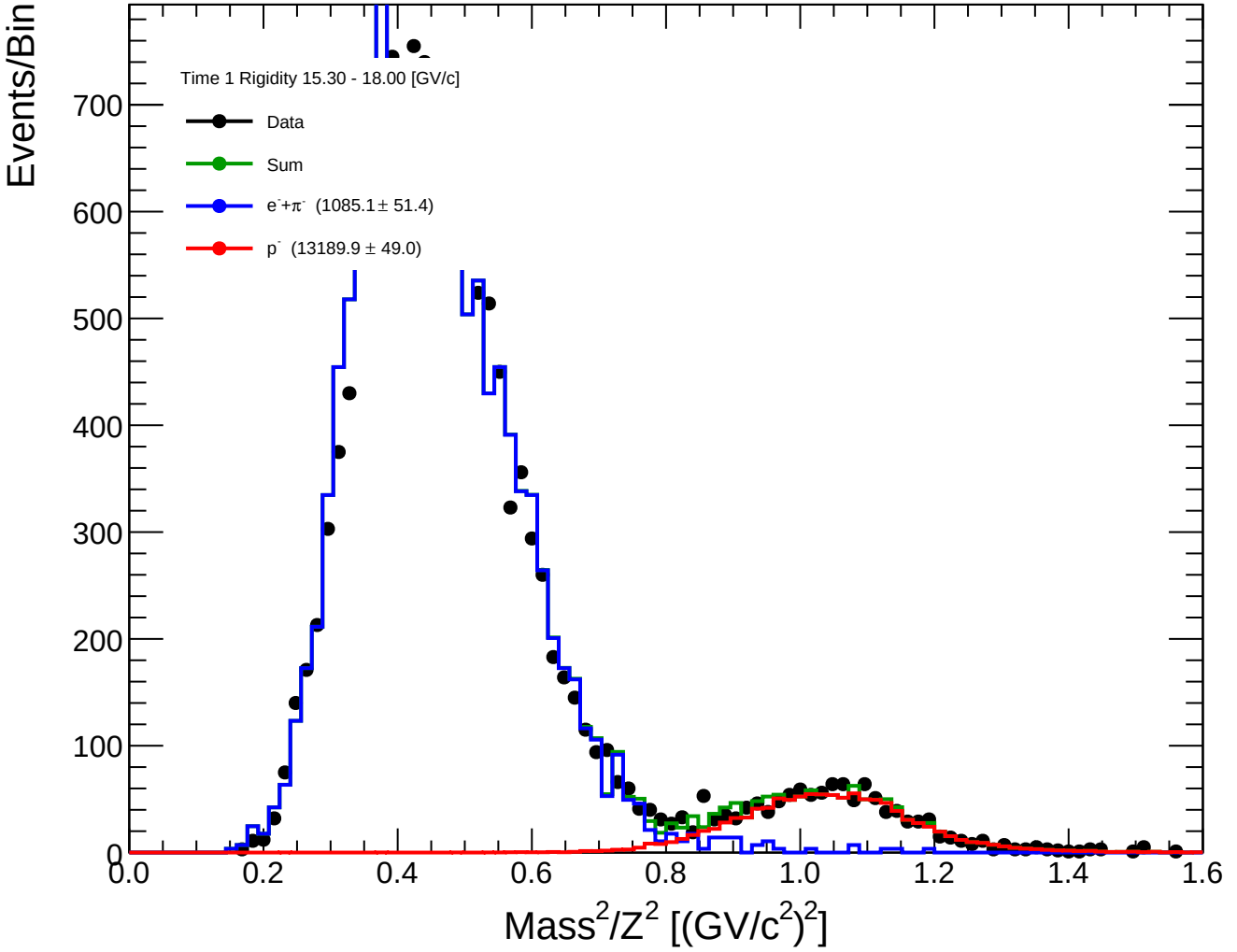

Time 1 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (990.7 ± 45.4)
p⁻ (19913.4 ± 42.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

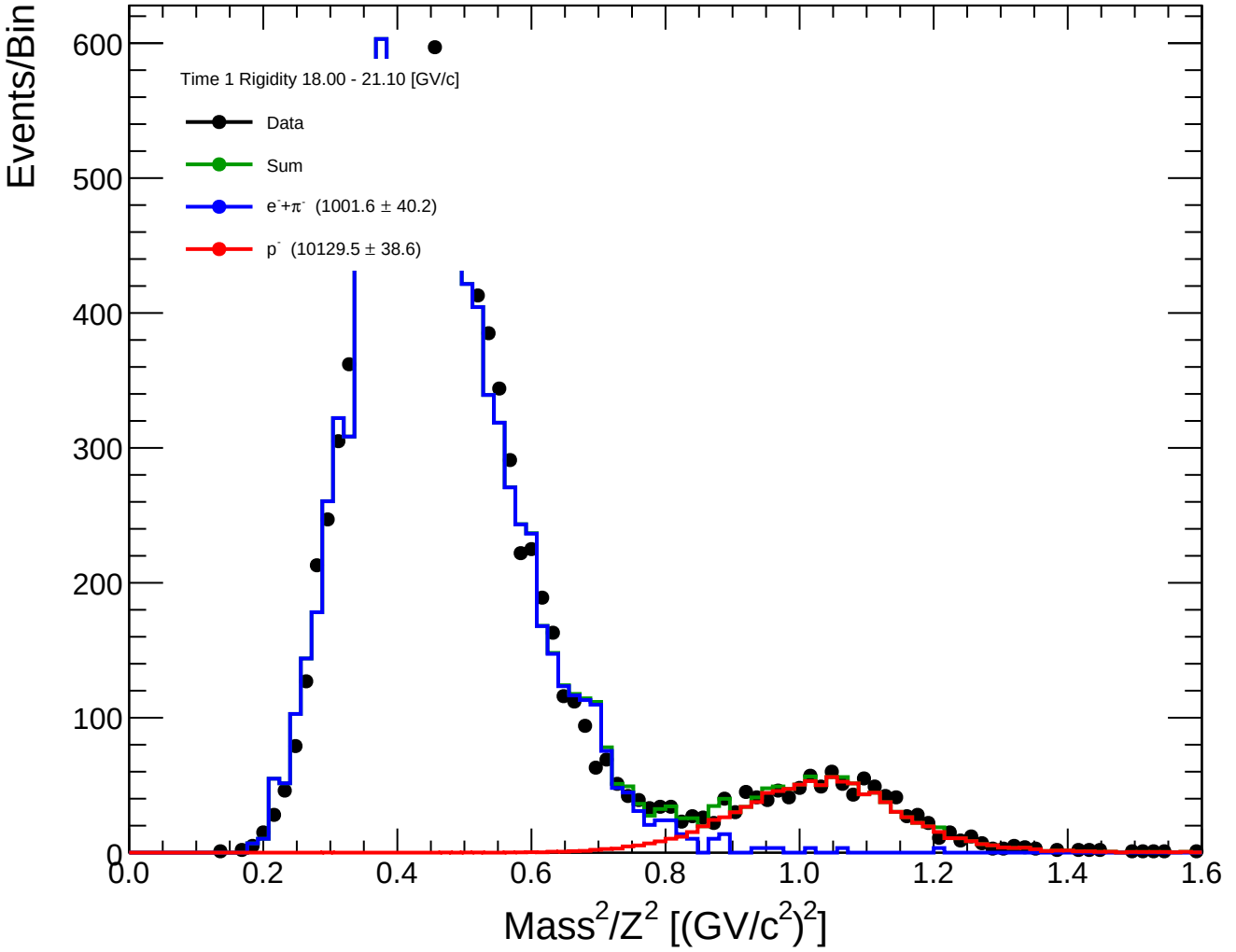

Time 1 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (878.5 ± 55.0)
p⁻ (18007.4 ± 51.7)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

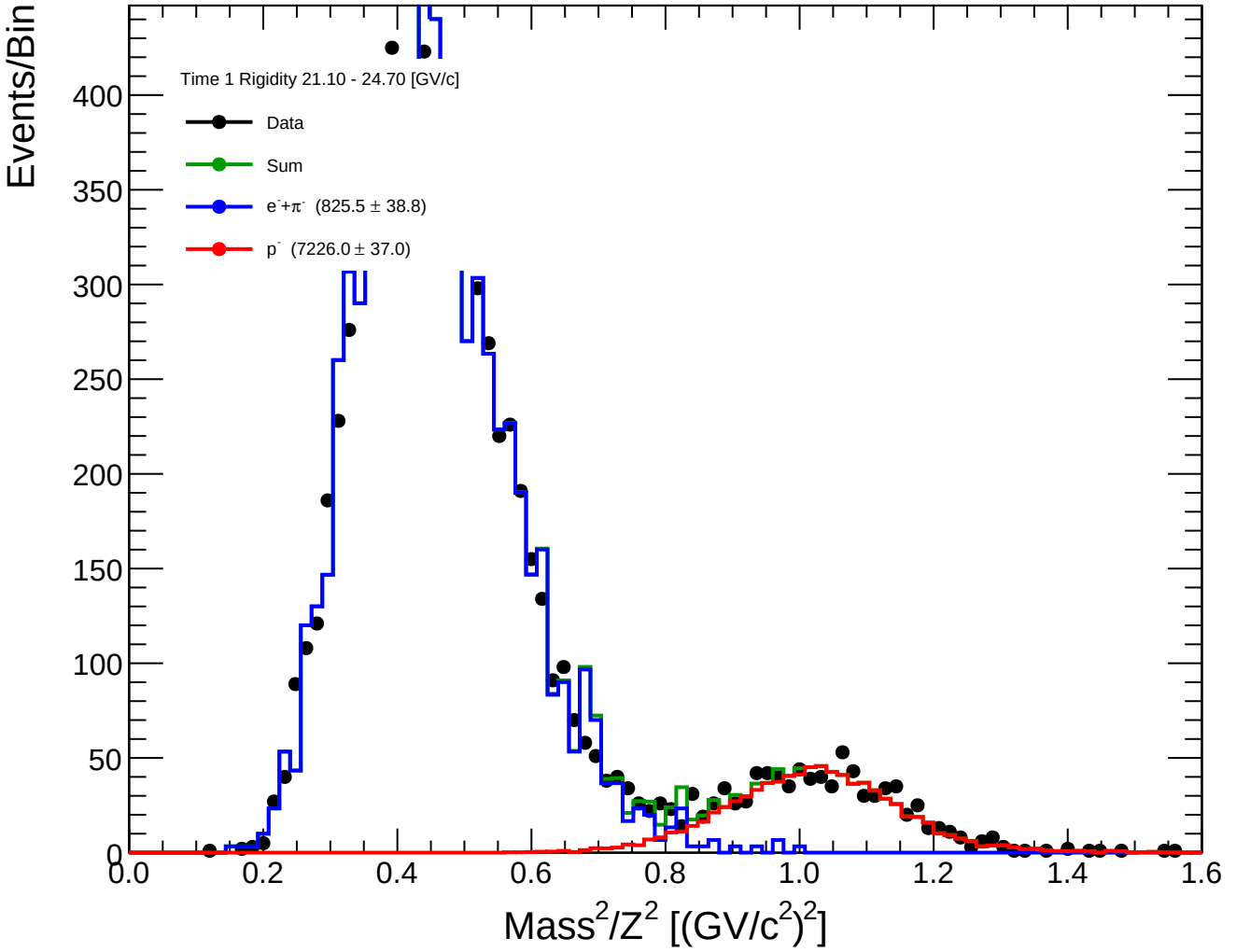

Time 1 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (1622.5 ± 60.3)
p⁻ (29286.6 ± 56.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

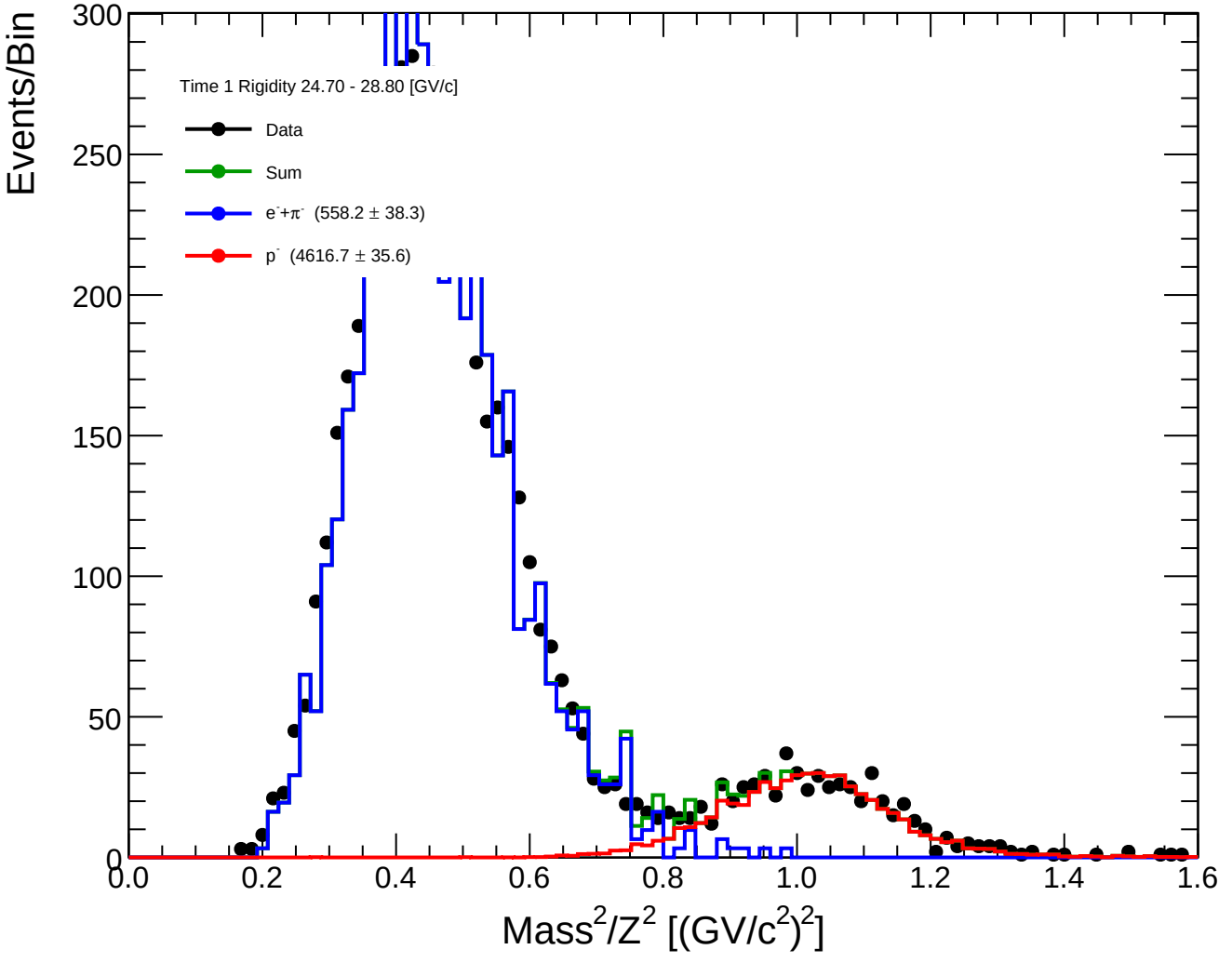

Time 1 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (1392.6 ± 56.3)
p⁻ (21542.8 ± 52.6)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

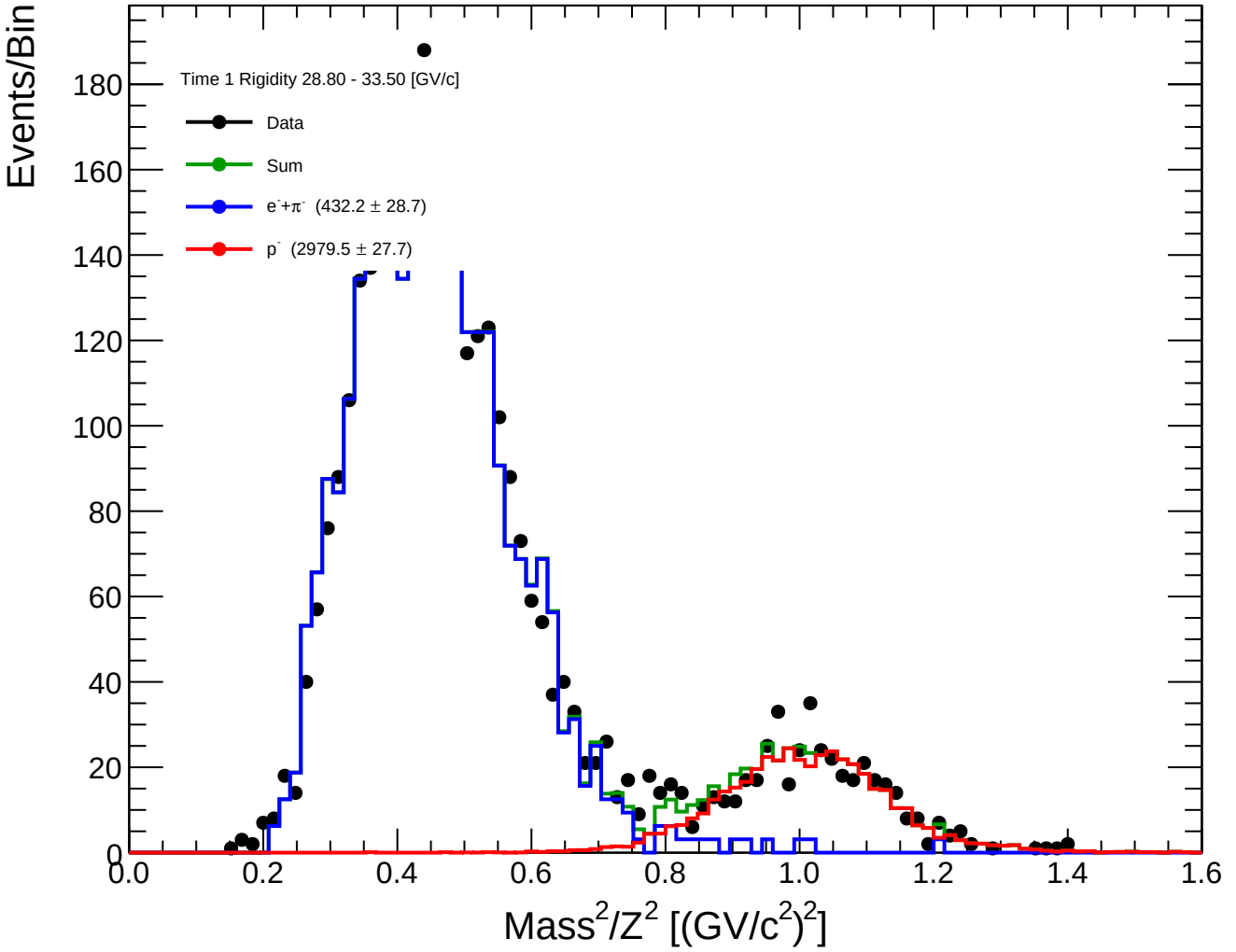

Time 1 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (1185.1± 49.3)
p⁻ (16138.1± 46.8)
Events/Bin
0
100
200
300
400
500
600
700
800
900
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

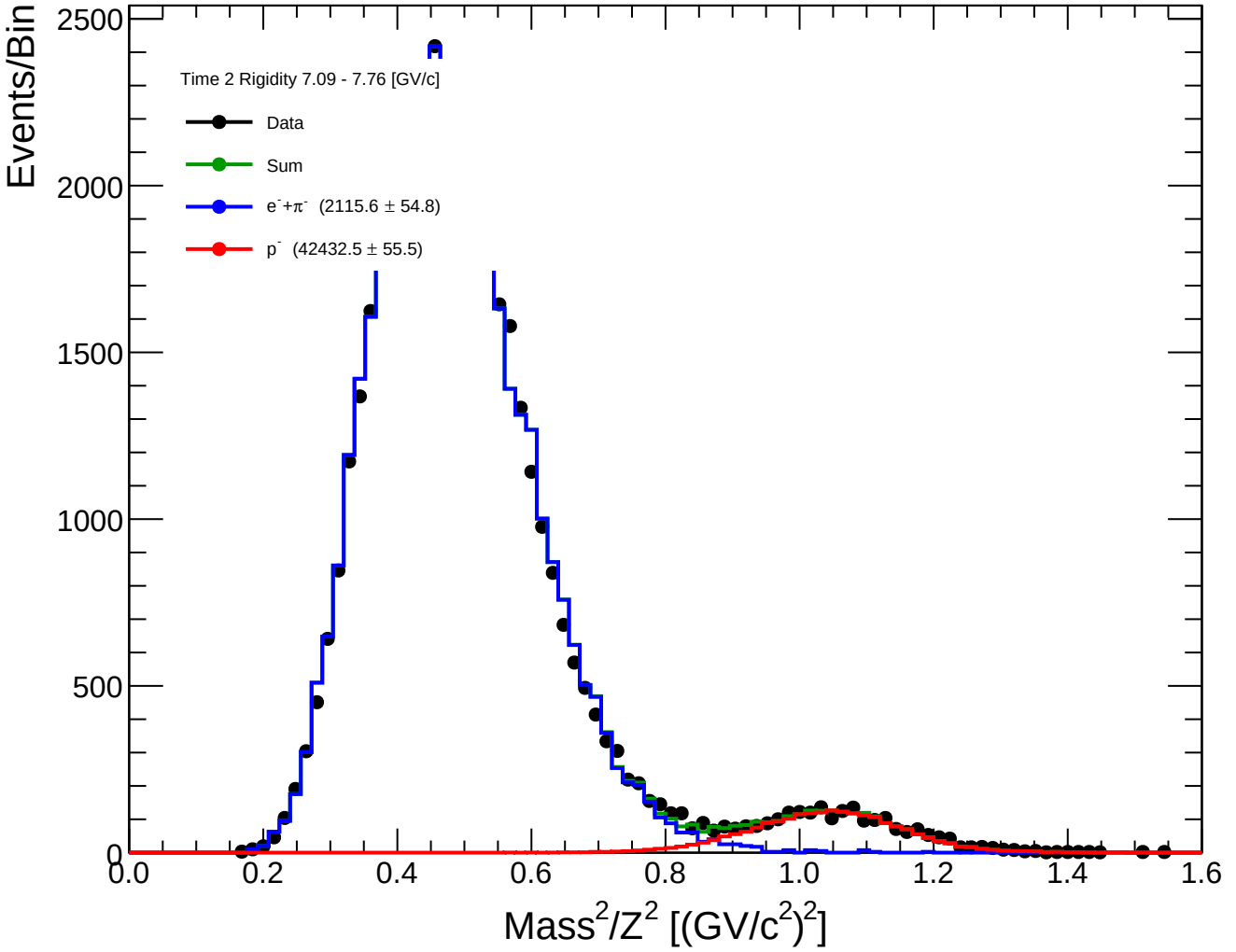

Time 1 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1085.1± 51.4)
p⁻ (13189.9 ± 49.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

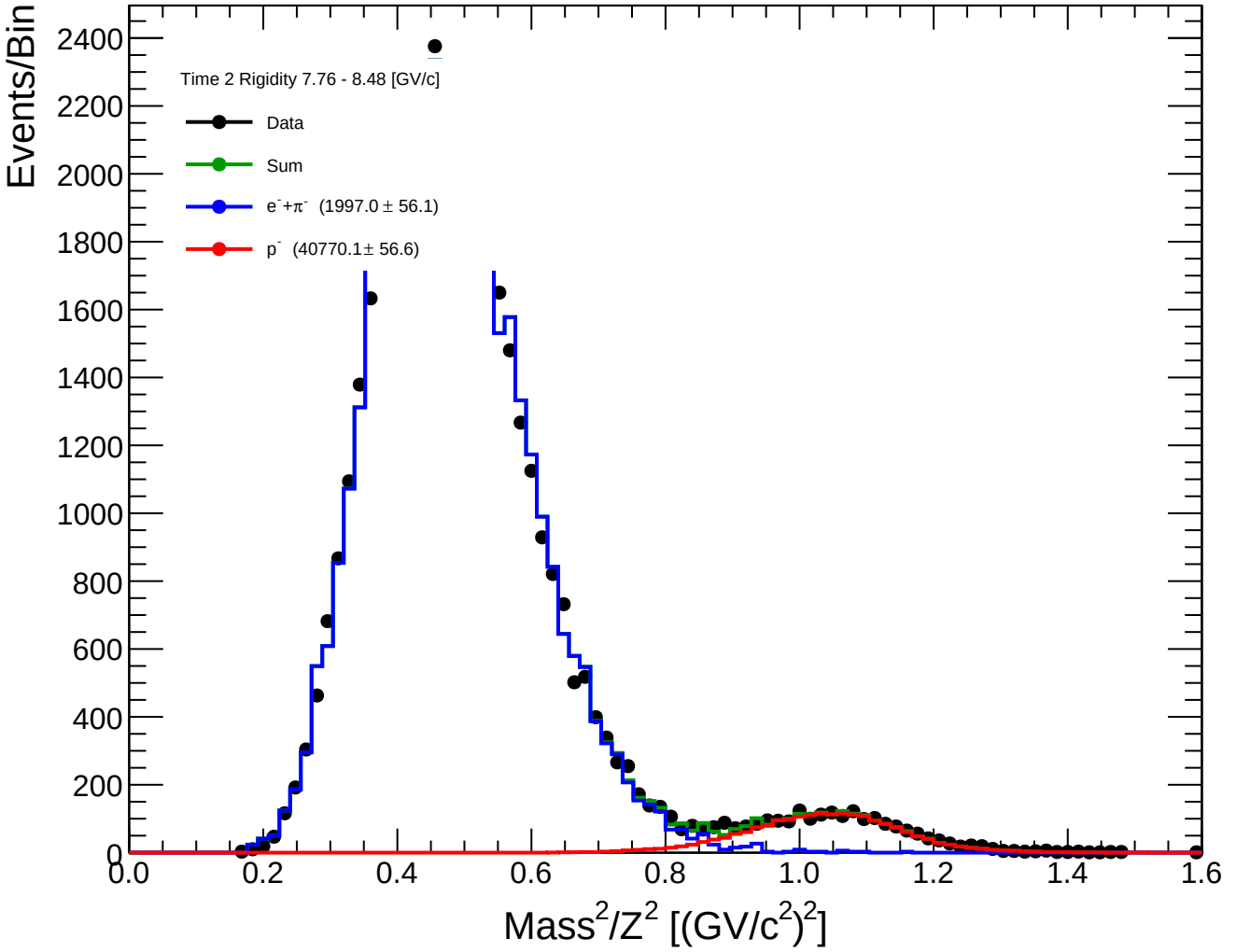

Time 1 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1001.6 ± 40.2)
p⁻ (10129.5 ± 38.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

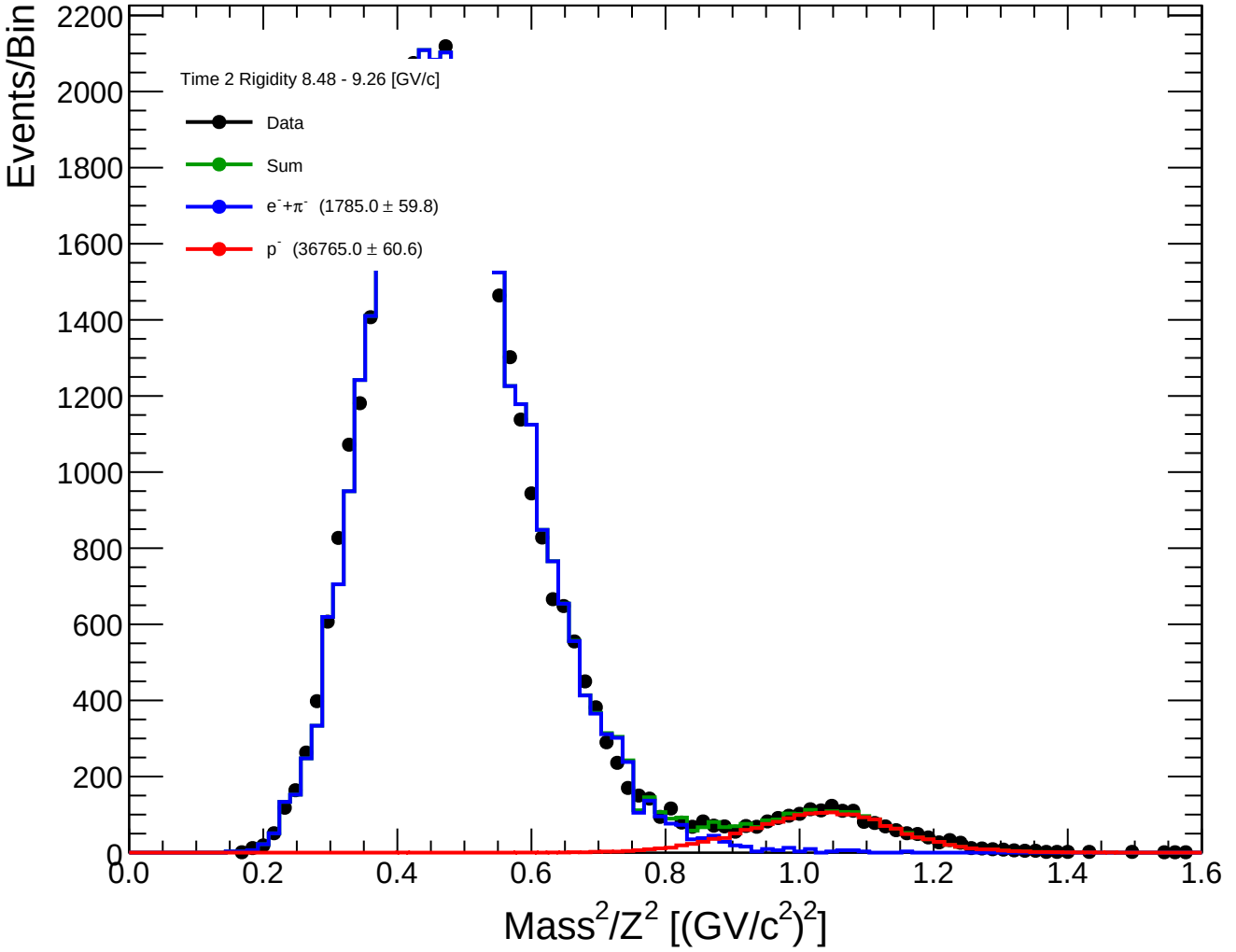

Time 1 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (825.5 ± 38.8)
p⁻ (7226.0 ± 37.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

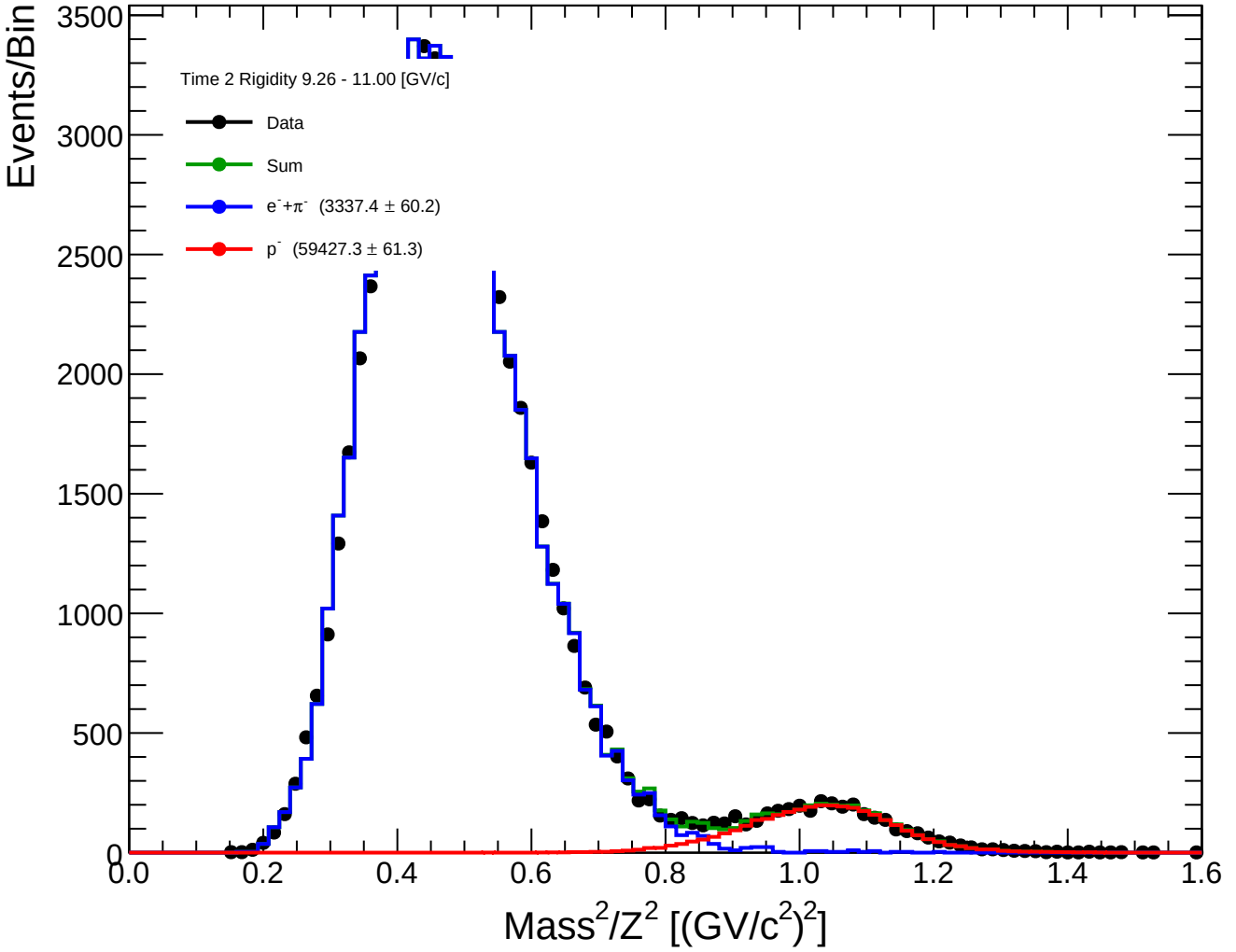

Time 1 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (558.2 ± 38.3)
p⁻ (4616.7 ± 35.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

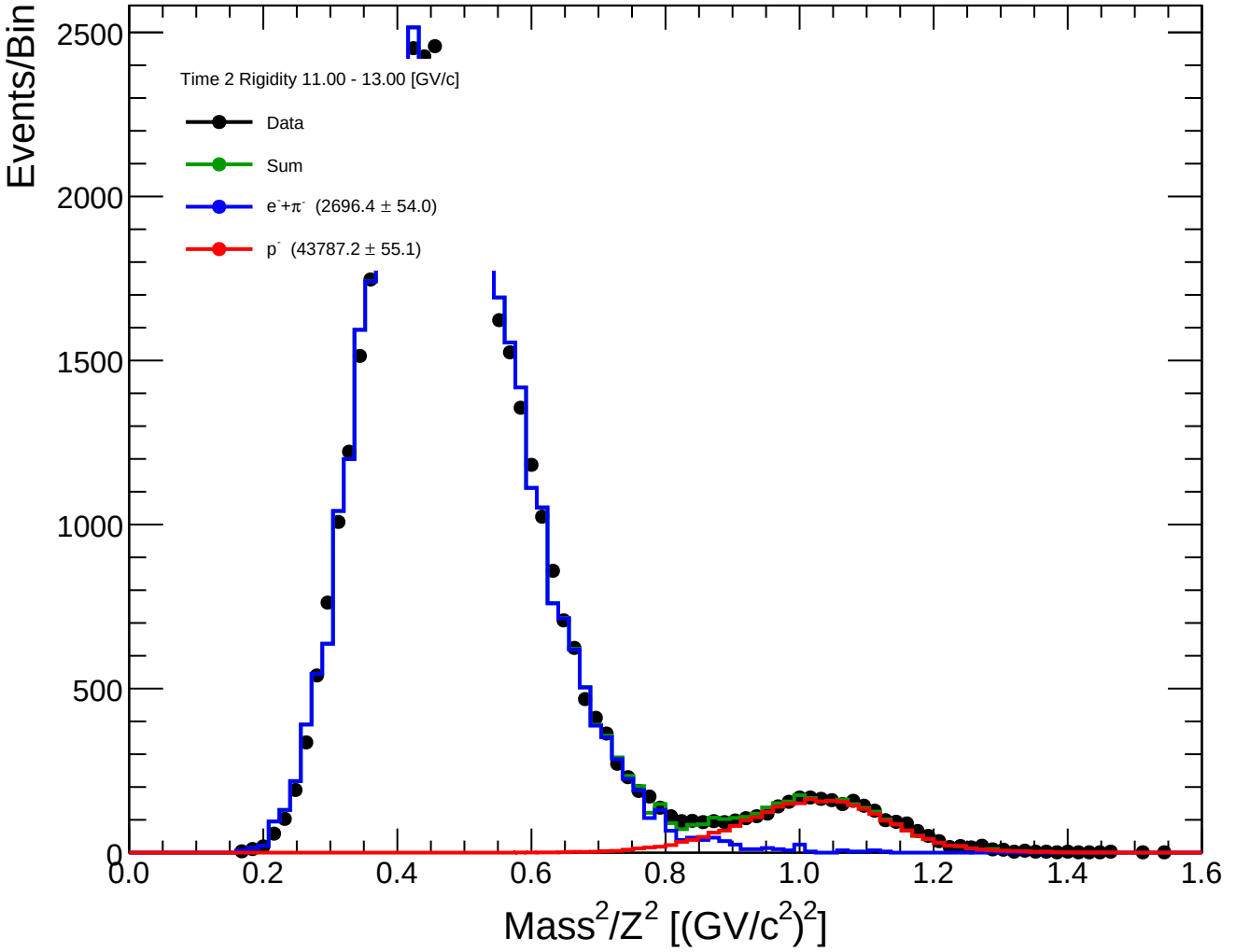

Time 1 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (432.2 ± 28.7)
p⁻ (2979.5 ± 27.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

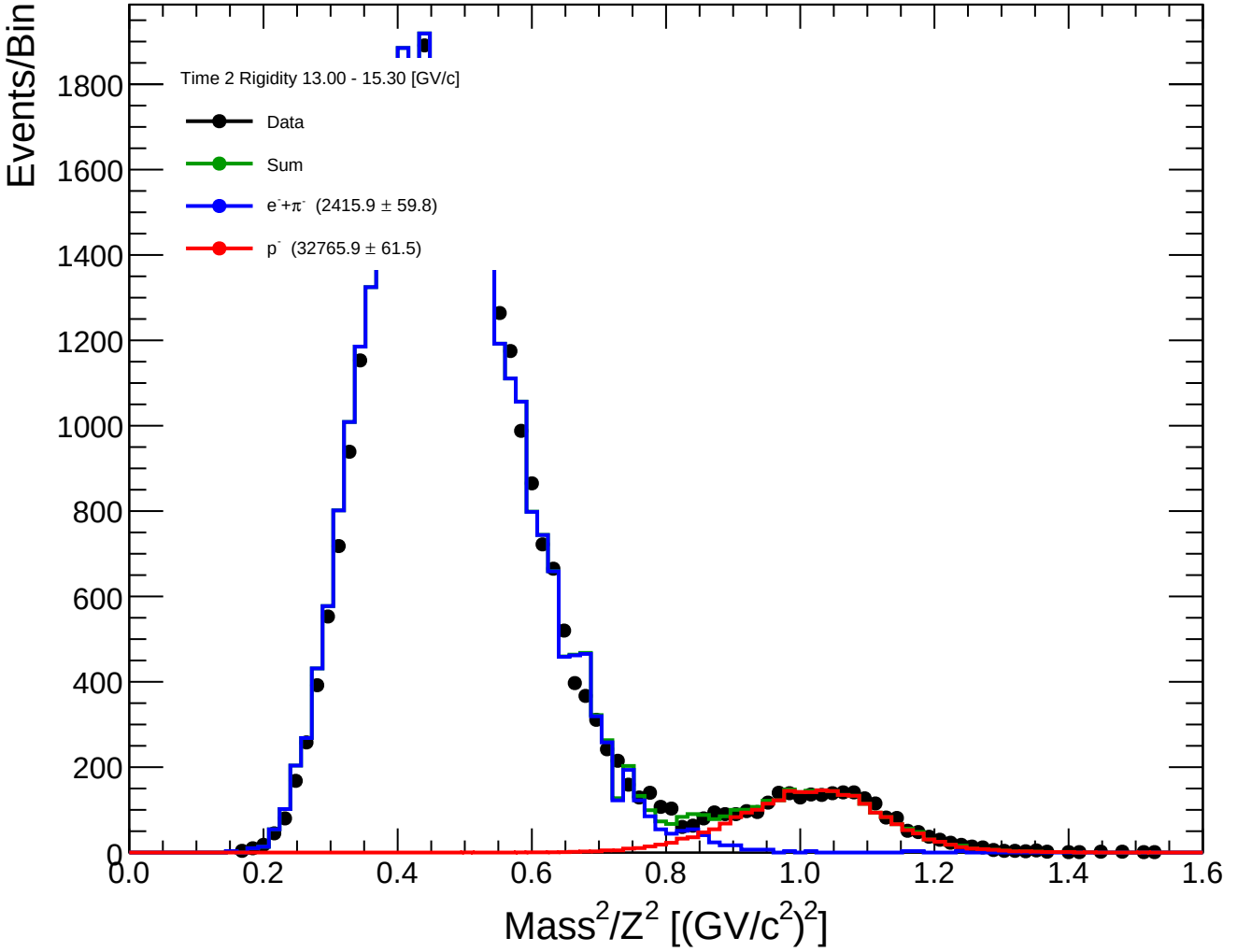

Time 2 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (2115.6 ± 54.8)
p⁻ (42432.5 ± 55.5)
Events/Bin
2500
2000
1500
1000
500
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

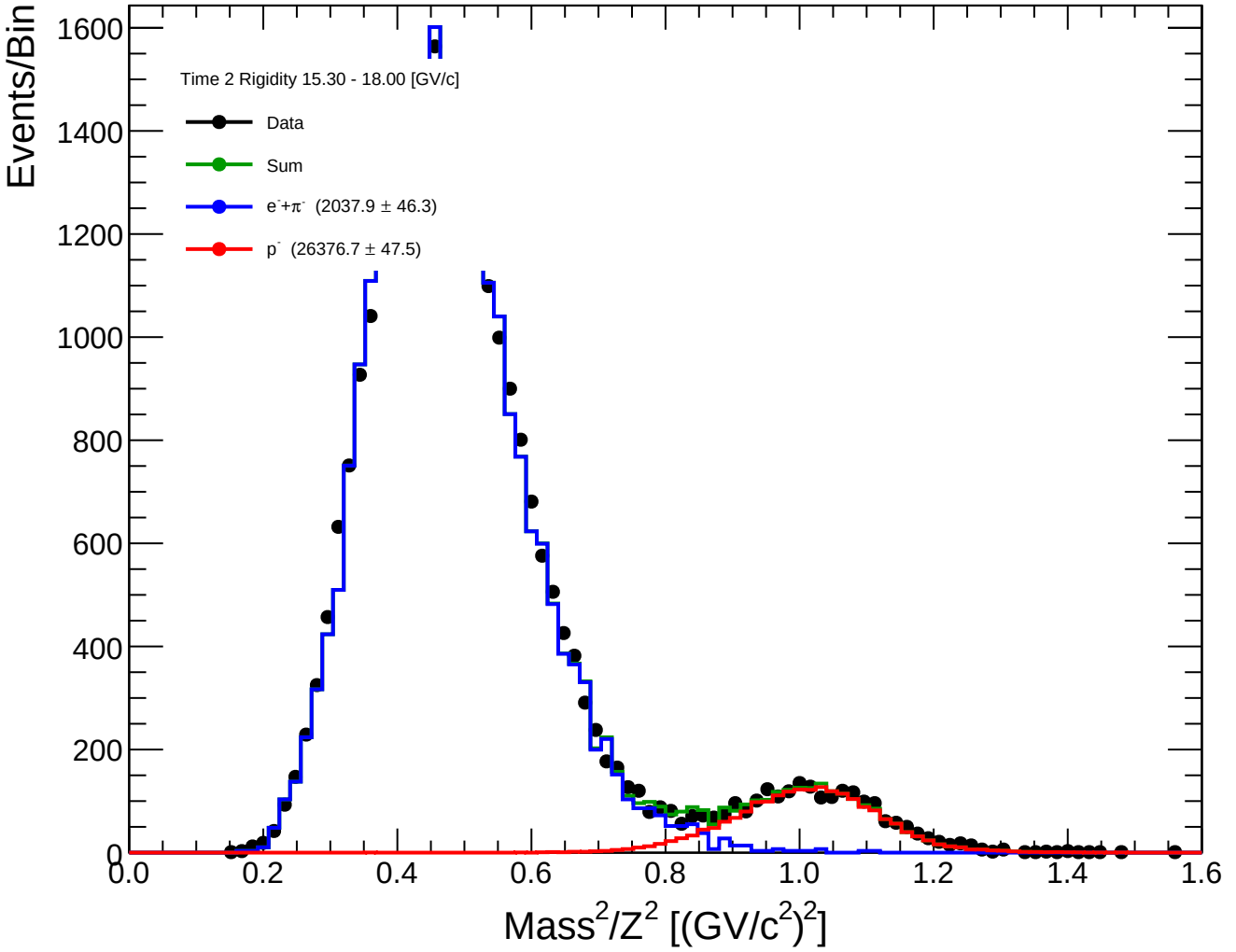

Time 2 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1997.0 ± 56.1)
p⁻ (40770.1± 56.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

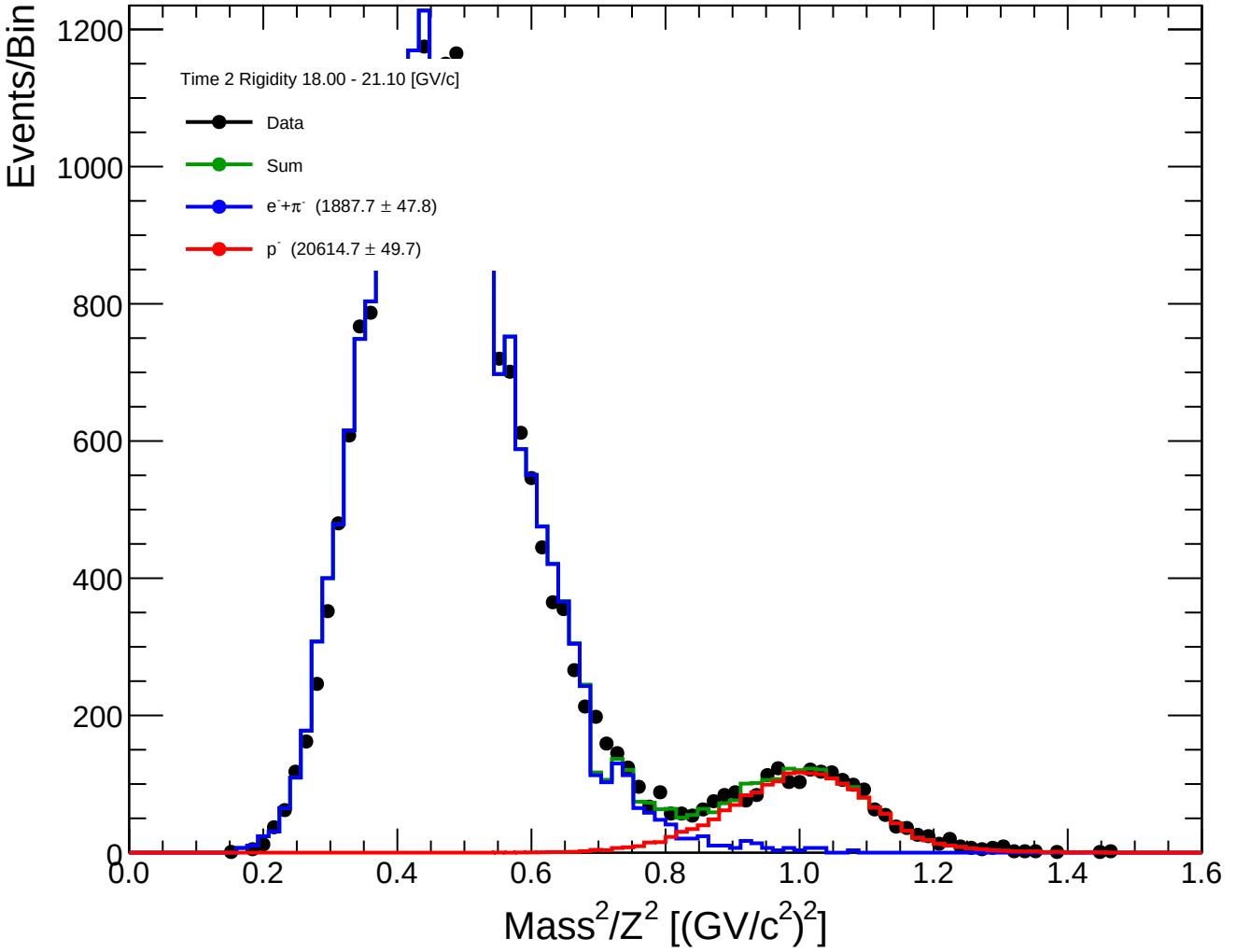

Time 2 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1785.0 ± 59.8)
p⁻ (36765.0 ± 60.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

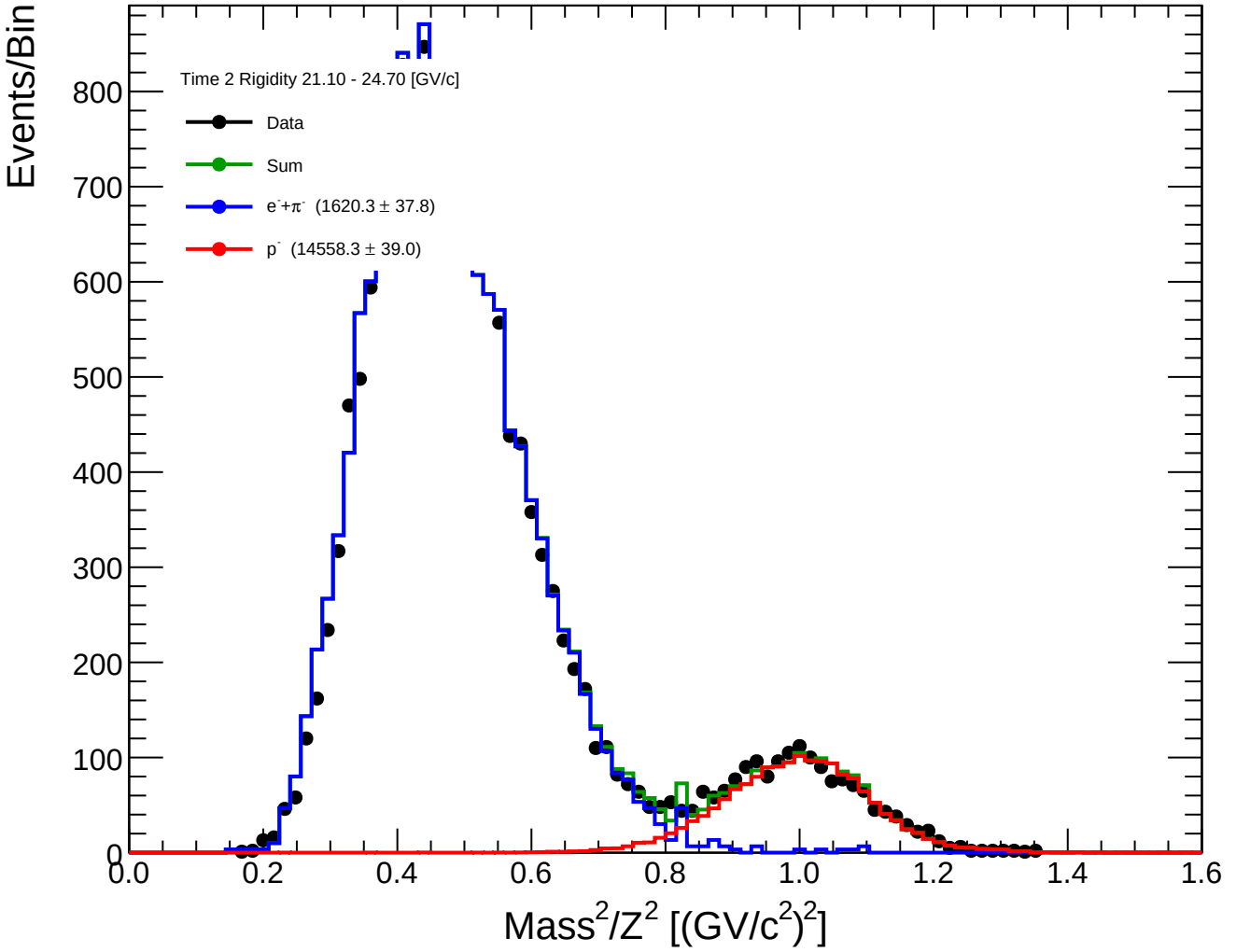

Time 2 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (3337.4 ± 60.2)
p⁻ (59427.3 ± 61.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
3500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

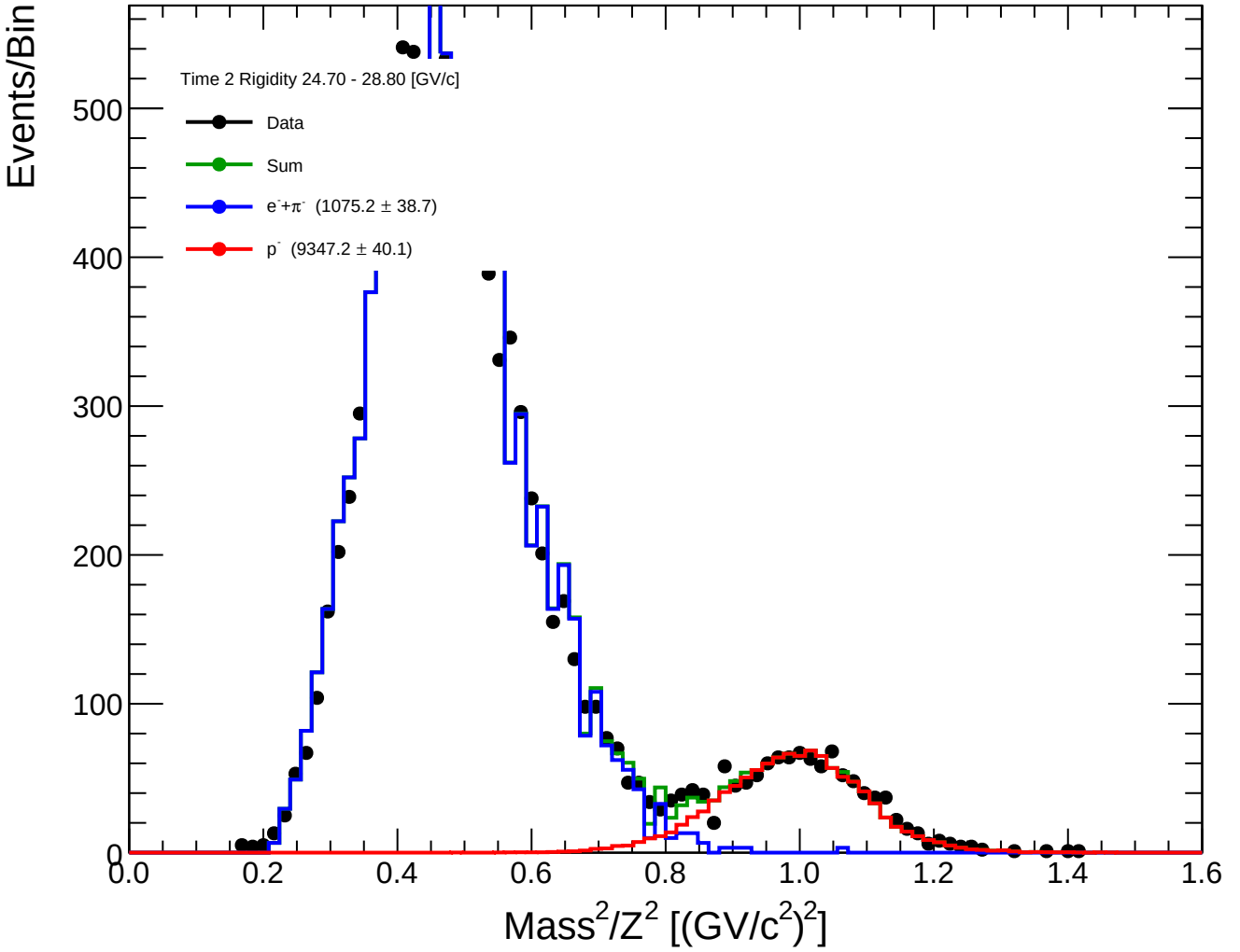

Time 2 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2696.4 ± 54.0)
p⁻ (43787.2 ± 55.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

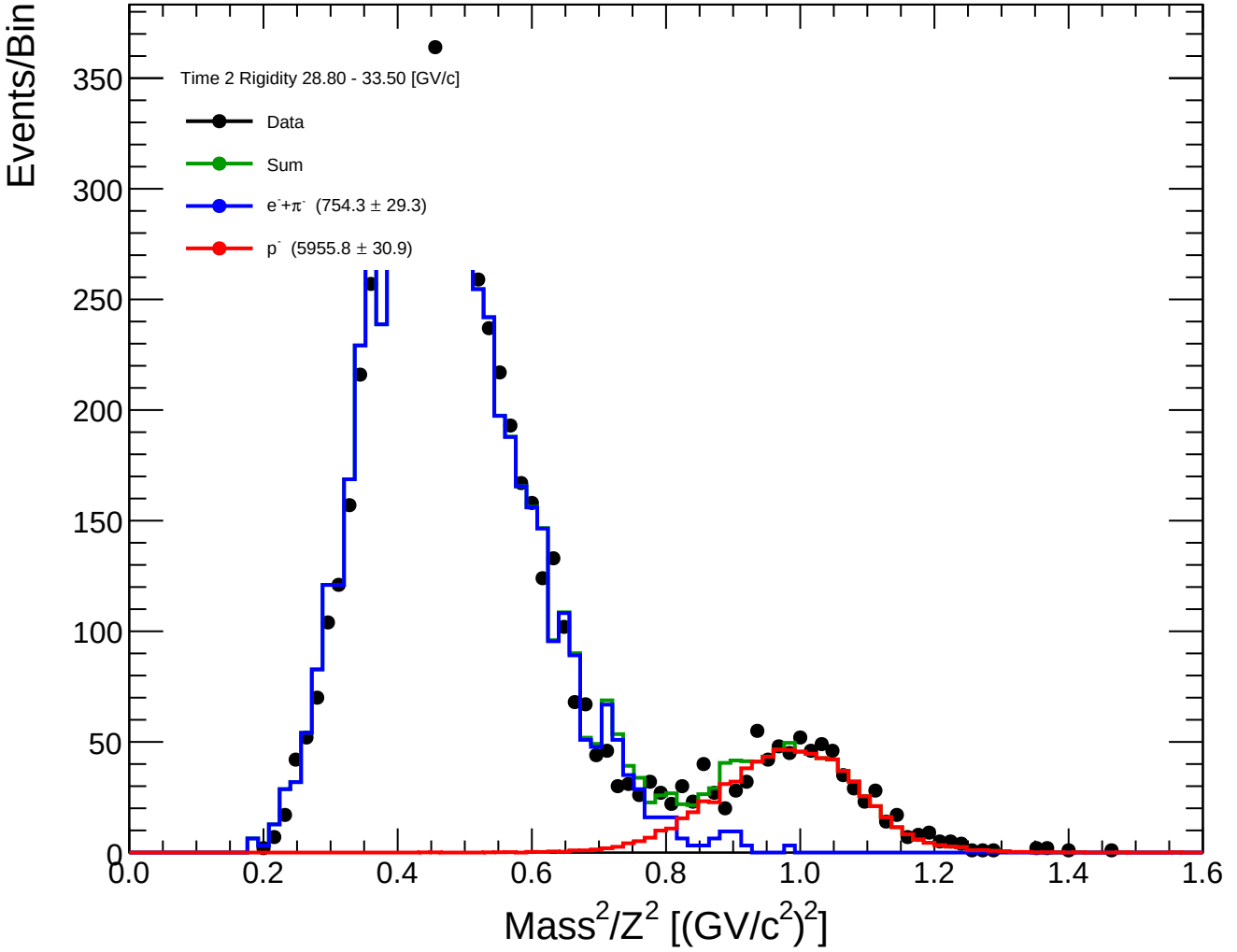

Time 2 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2415.9 ± 59.8)
p⁻ (32765.9 ± 61.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

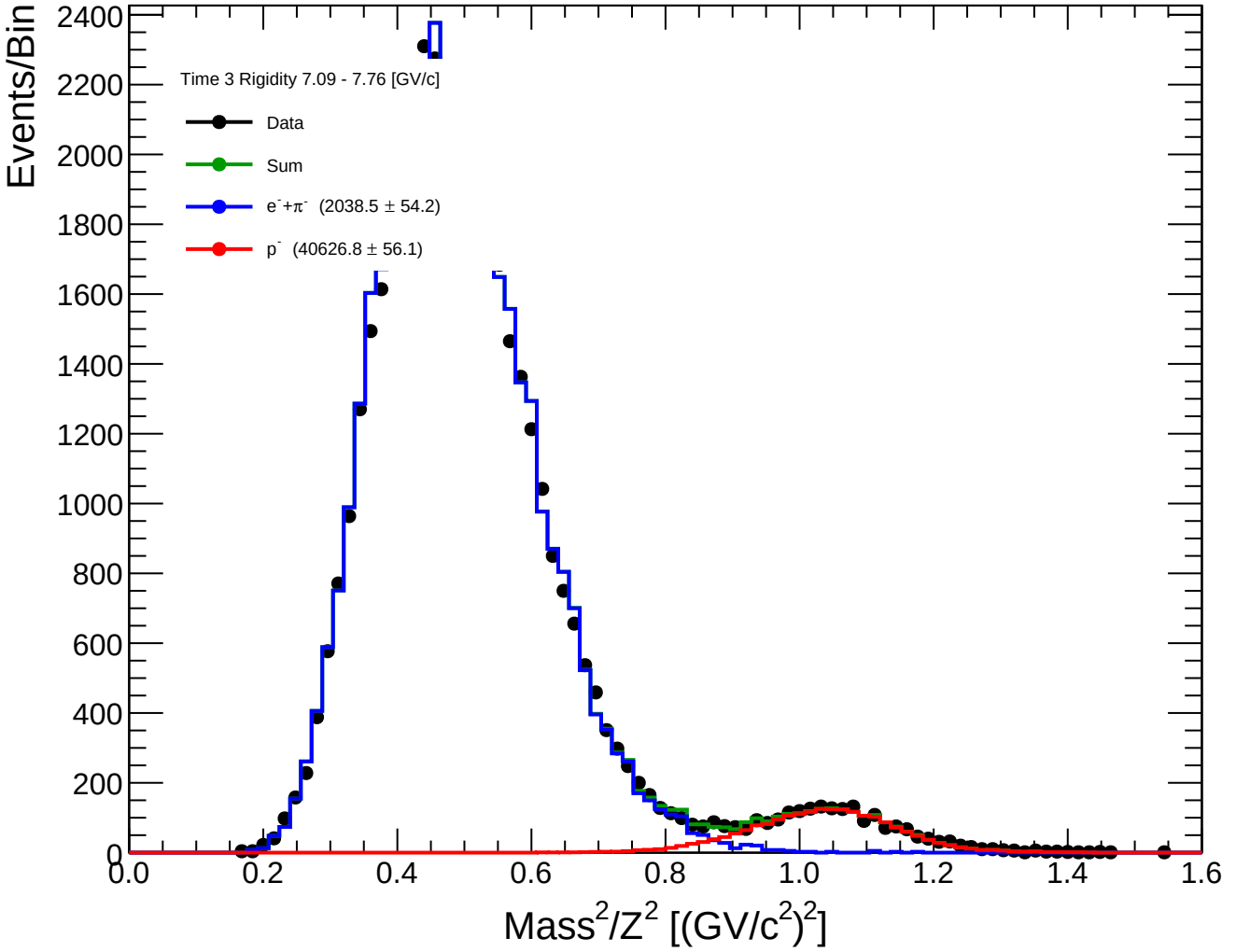

Time 2 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2037.9 ± 46.3)
p⁻ (26376.7 ± 47.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

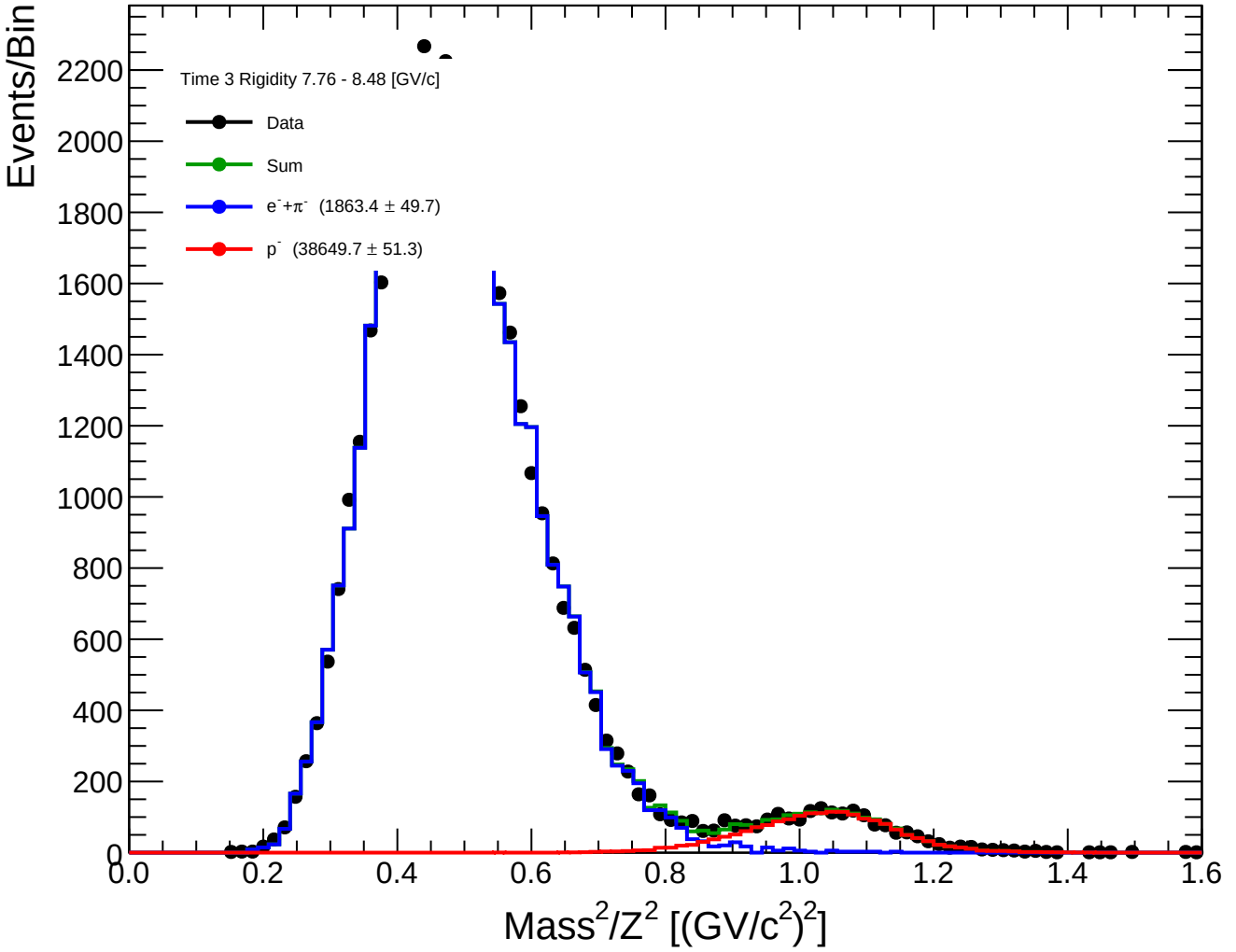

Time 2 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1887.7 ± 47.8)
p⁻ (20614.7 ± 49.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

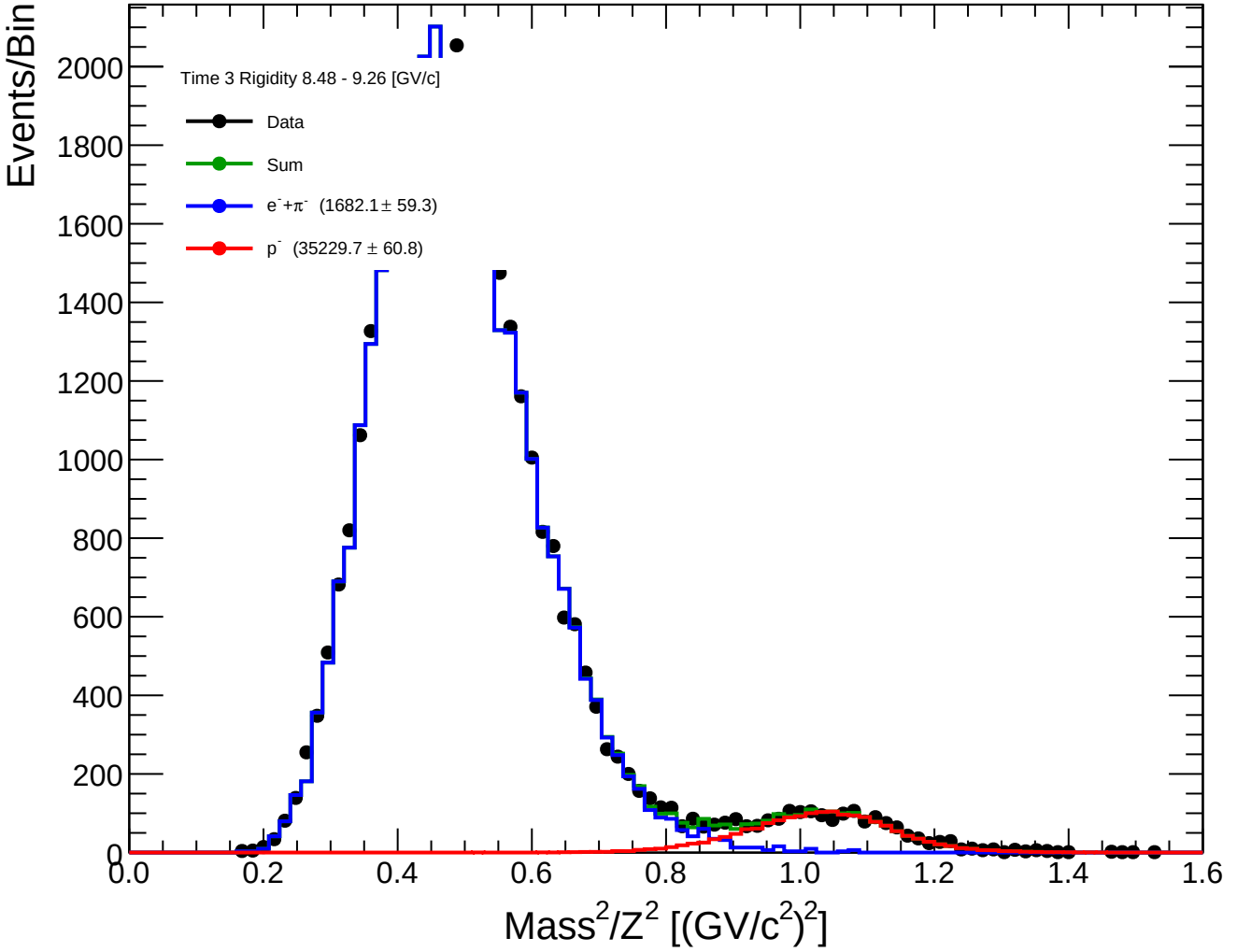

Time 2 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1620.3 ± 37.8)
p⁻ (14558.3 ± 39.0)
Events/Bin
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

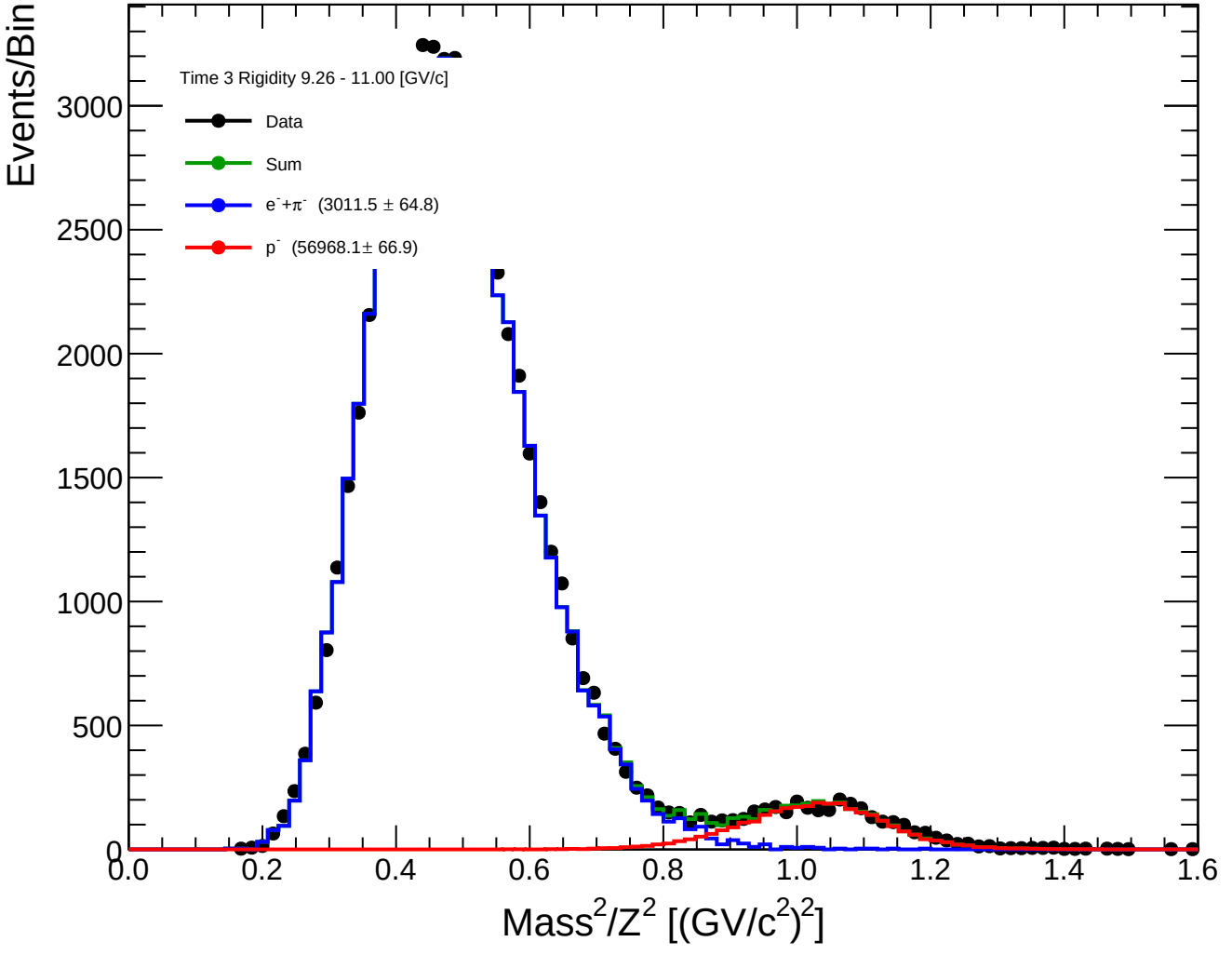

Time 2 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1075.2 ± 38.7)
p⁻ (9347.2 ± 40.1)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

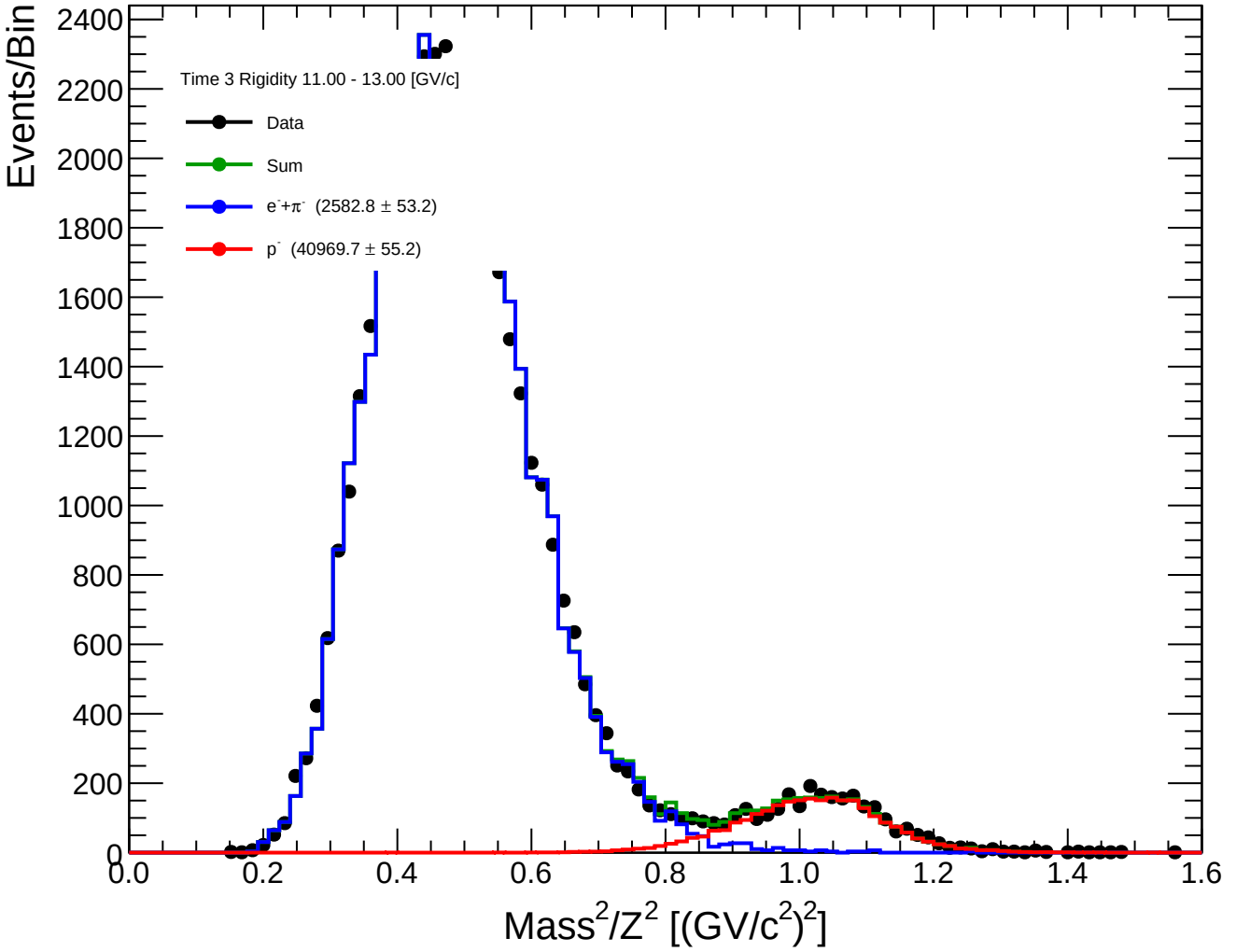

Time 2 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (754.3 ± 29.3)
p⁻ (5955.8 ± 30.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

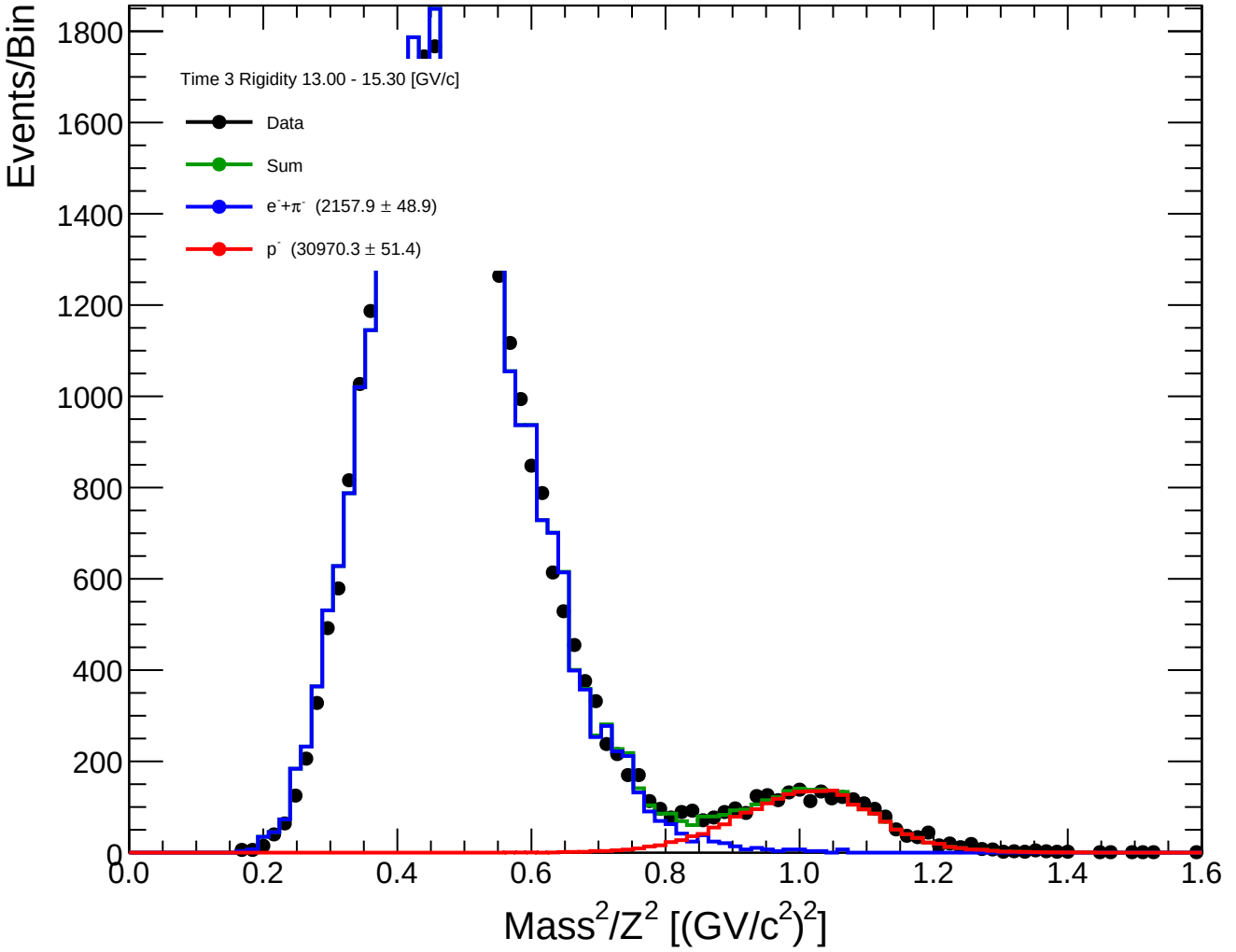

Events/Bin
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Time 3 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (2038.5 ± 54.2)
p⁻ (40626.8 ± 56.1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

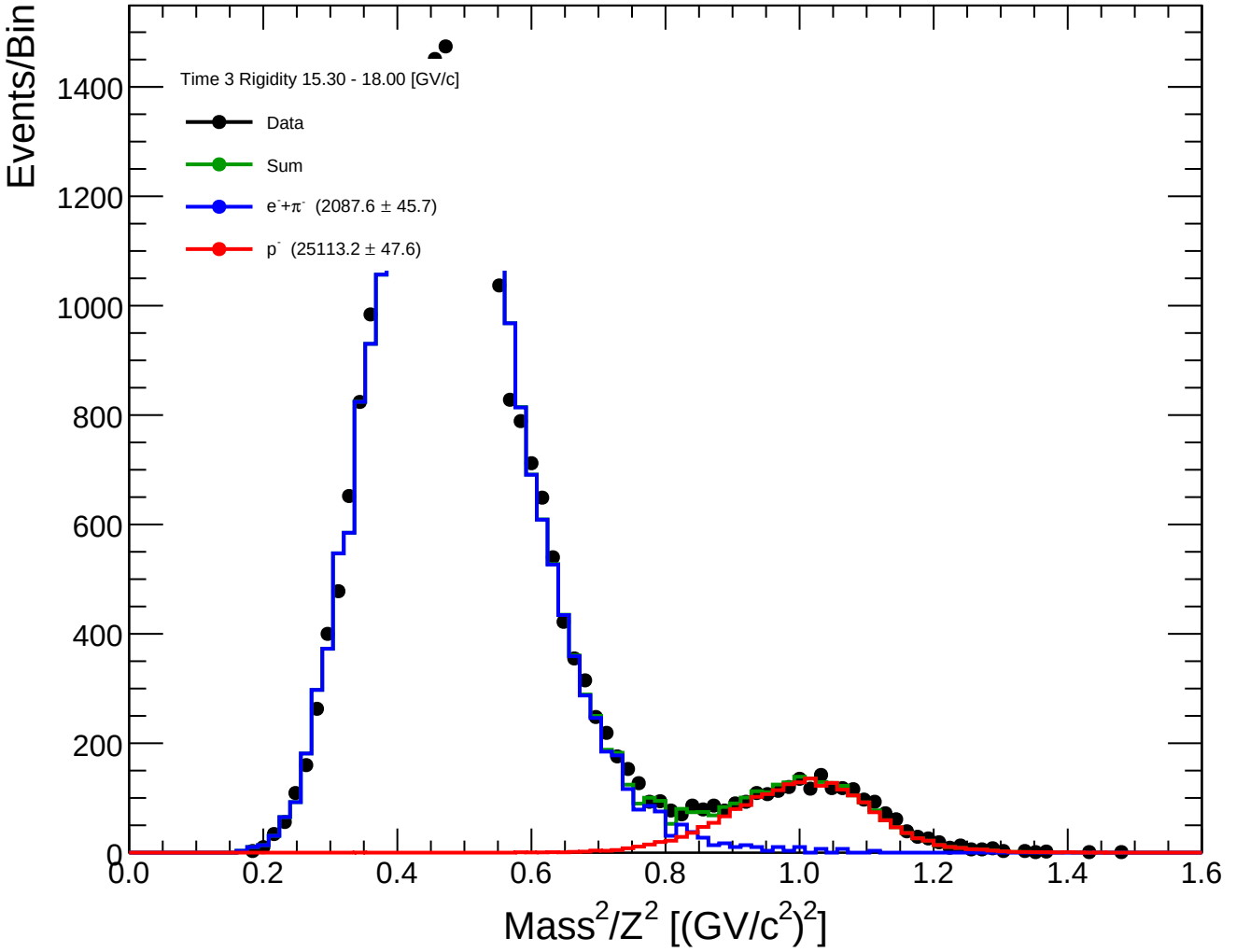

Time 3 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1863.4 ± 49.7)
p⁻ (38649.7 ± 51.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

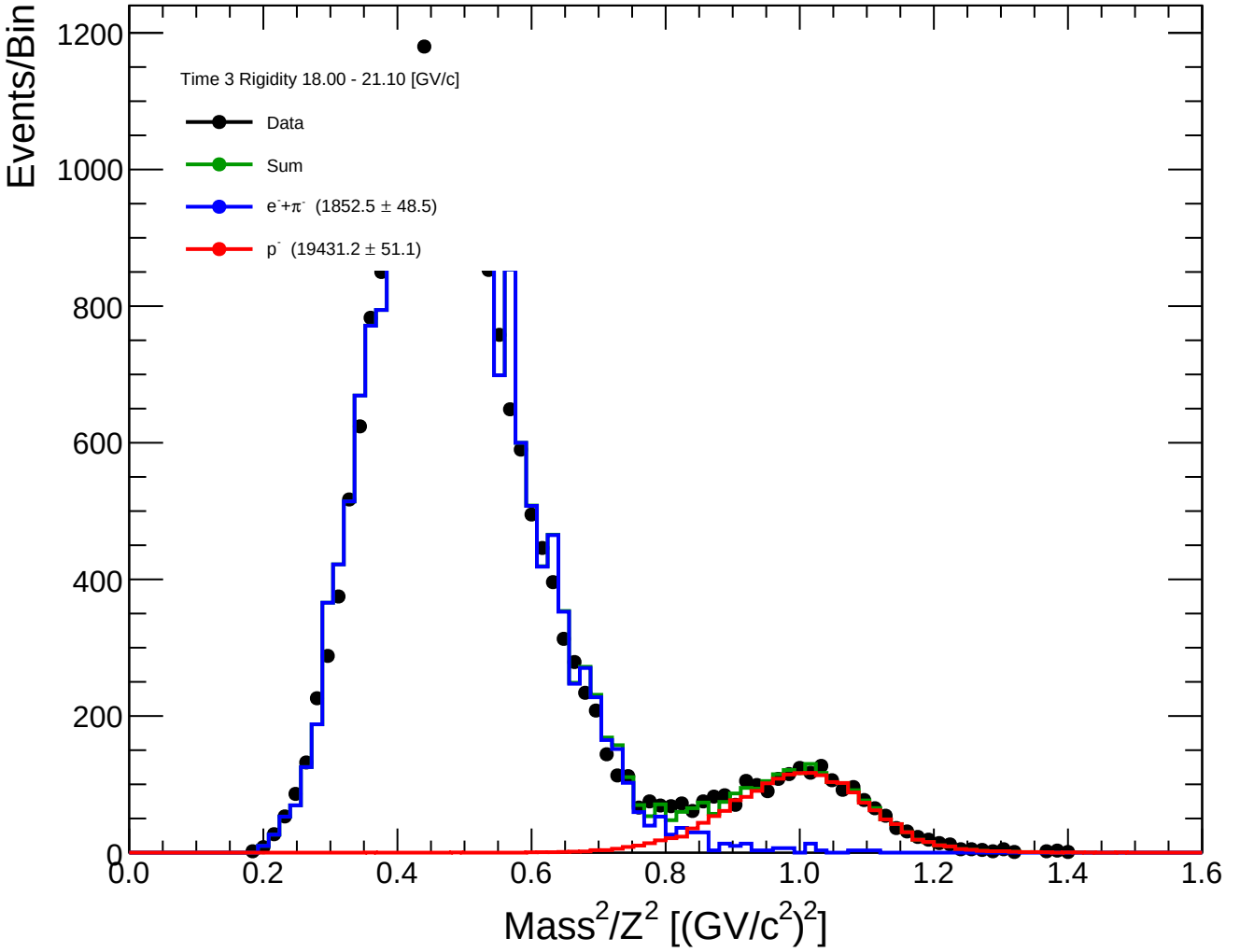

Time 3 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1682.1± 59.3)
p⁻ (35229.7 ± 60.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

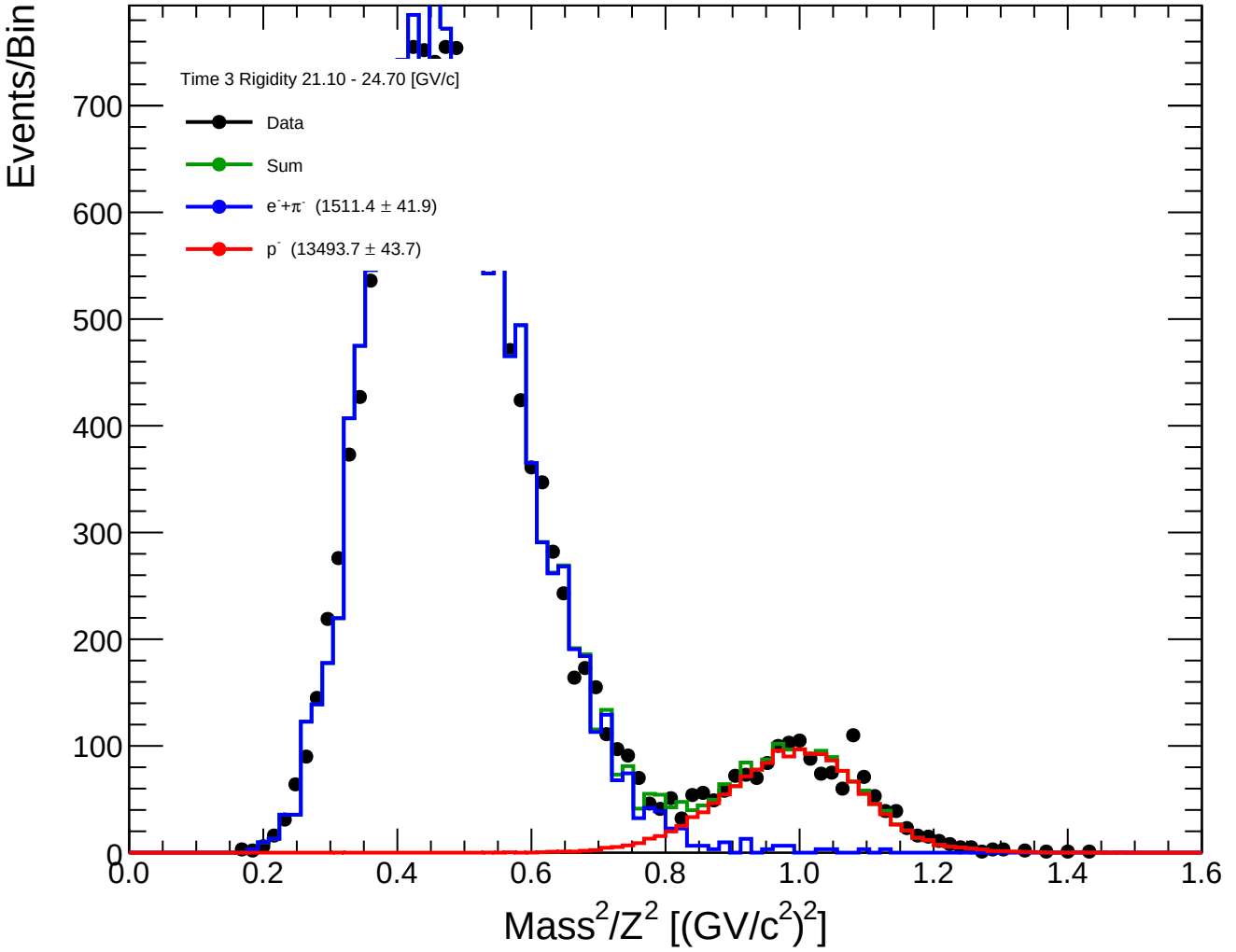

Time 3 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (3011.5 ± 64.8)
p⁻ (56968.1± 66.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

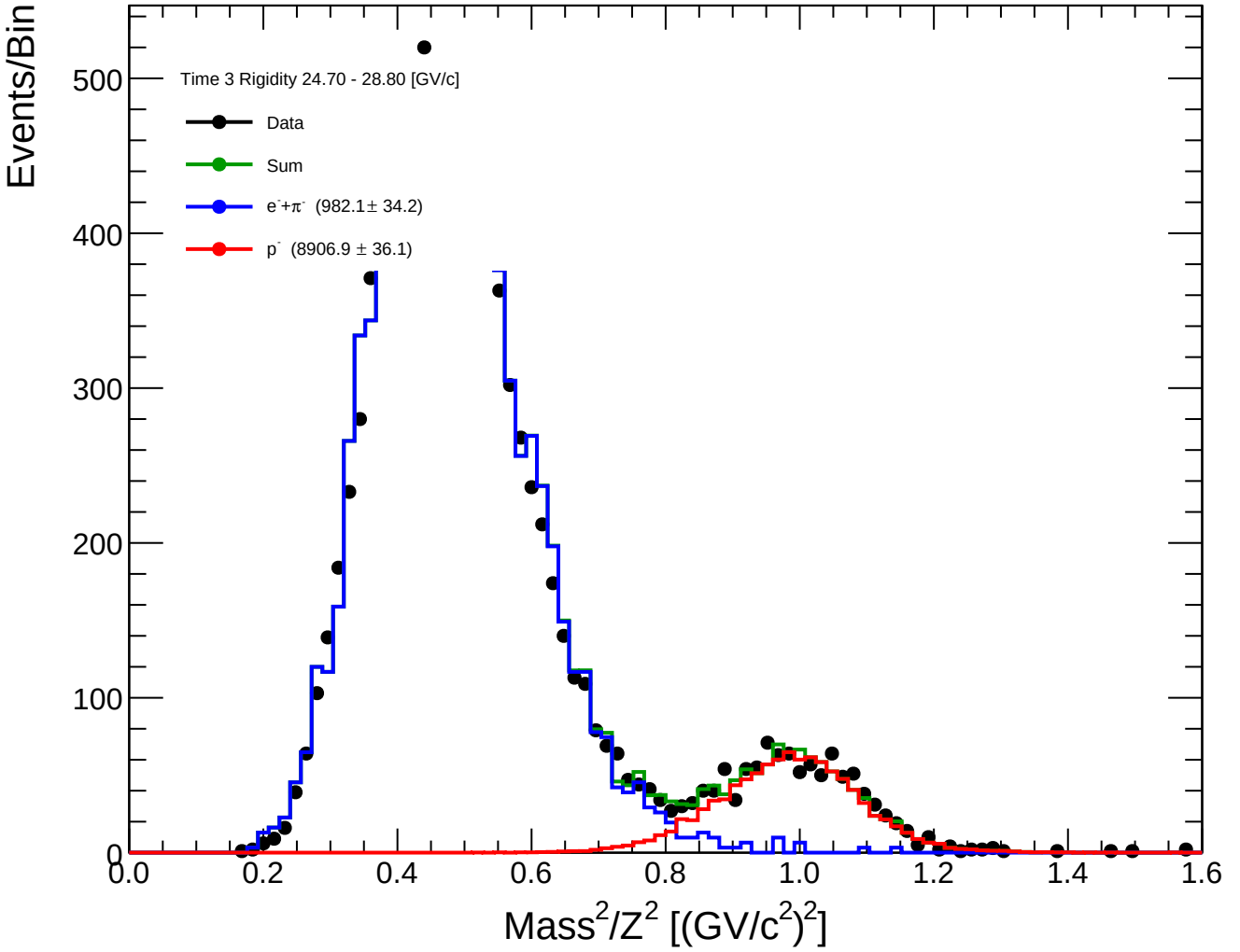

Time 3 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2582.8 ± 53.2)
p⁻ (40969.7 ± 55.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

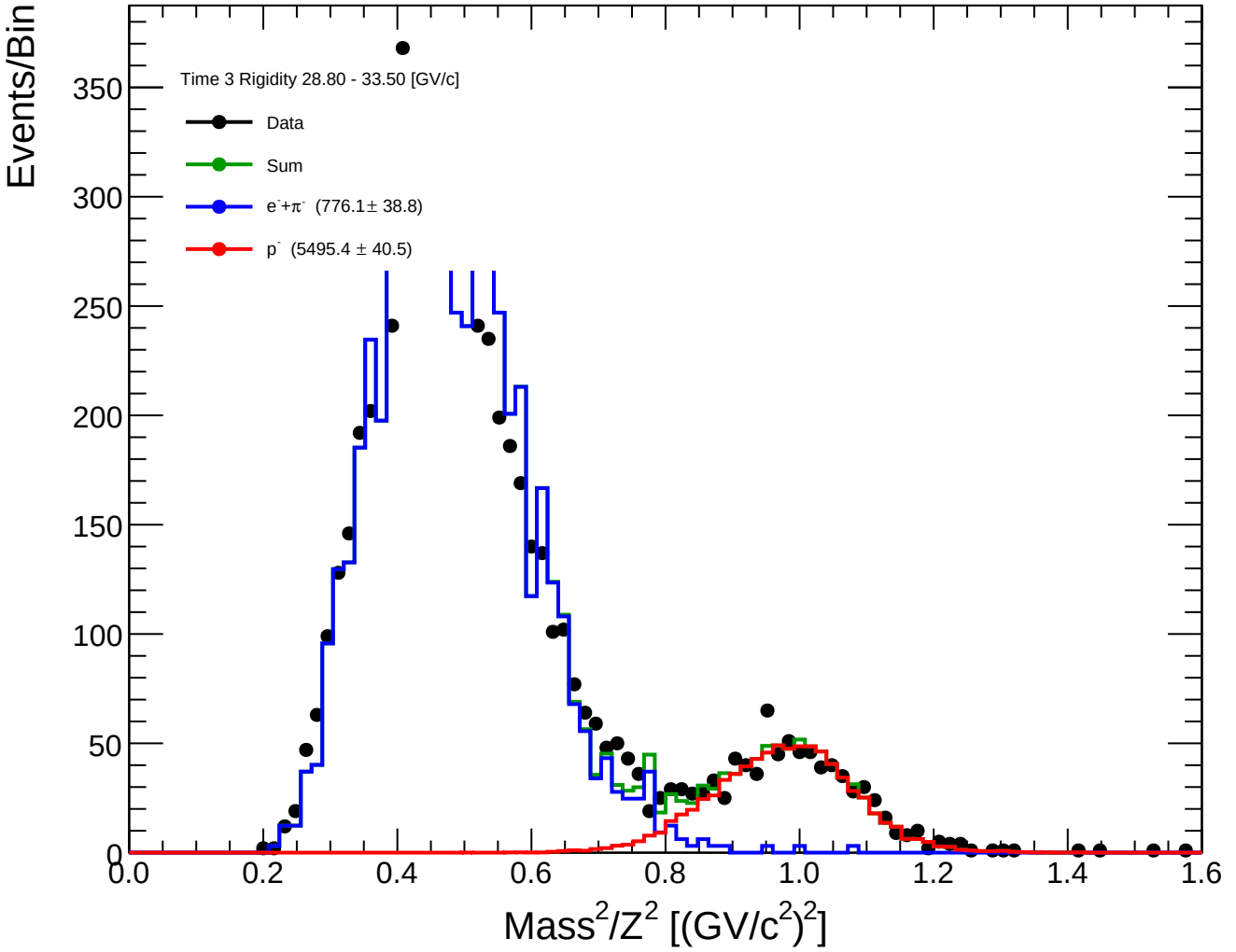

Time 3 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2157.9 ± 48.9)
p⁻ (30970.3 ± 51.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

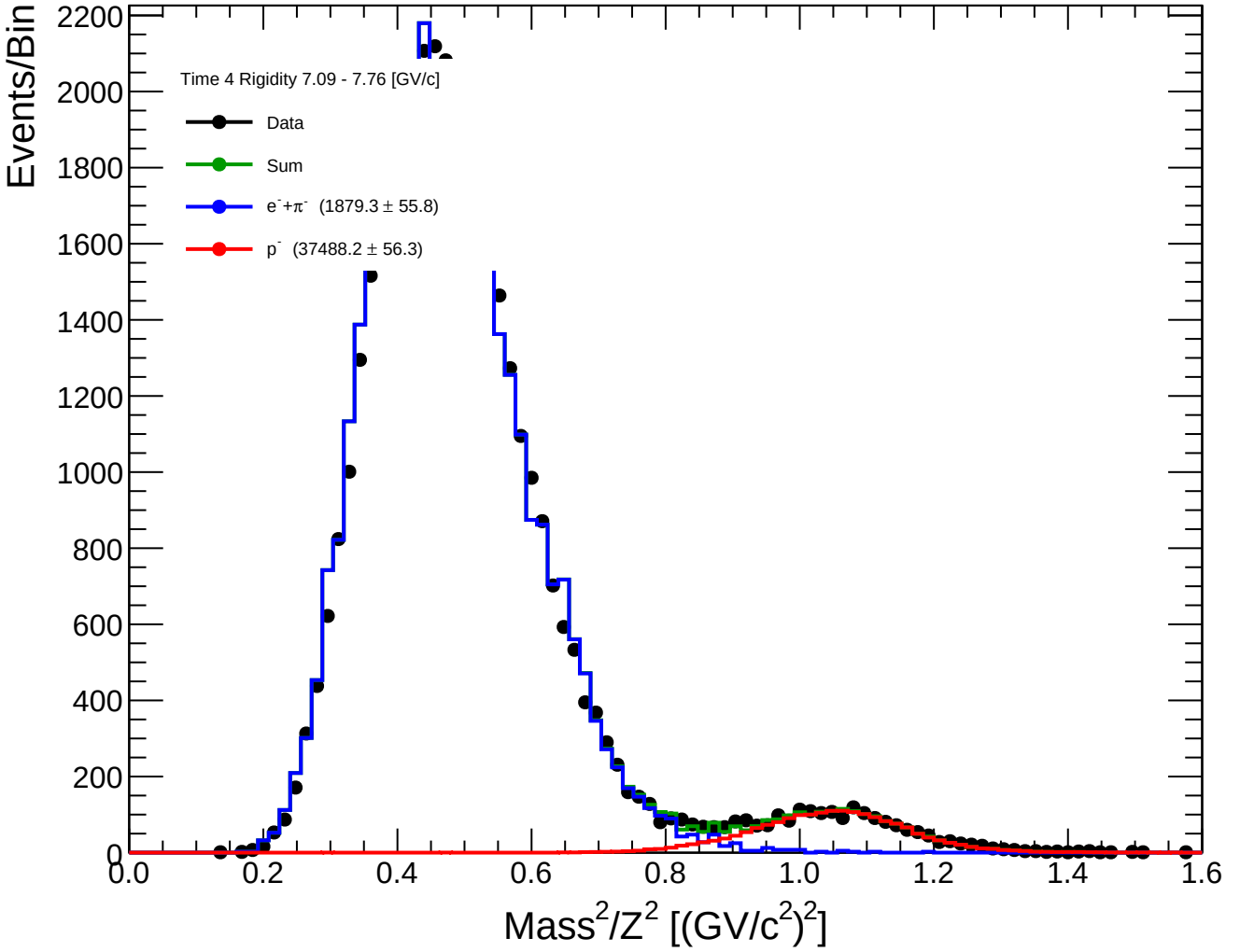

Time 3 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2087.6 ± 45.7)
p⁻ (25113.2 ± 47.6)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

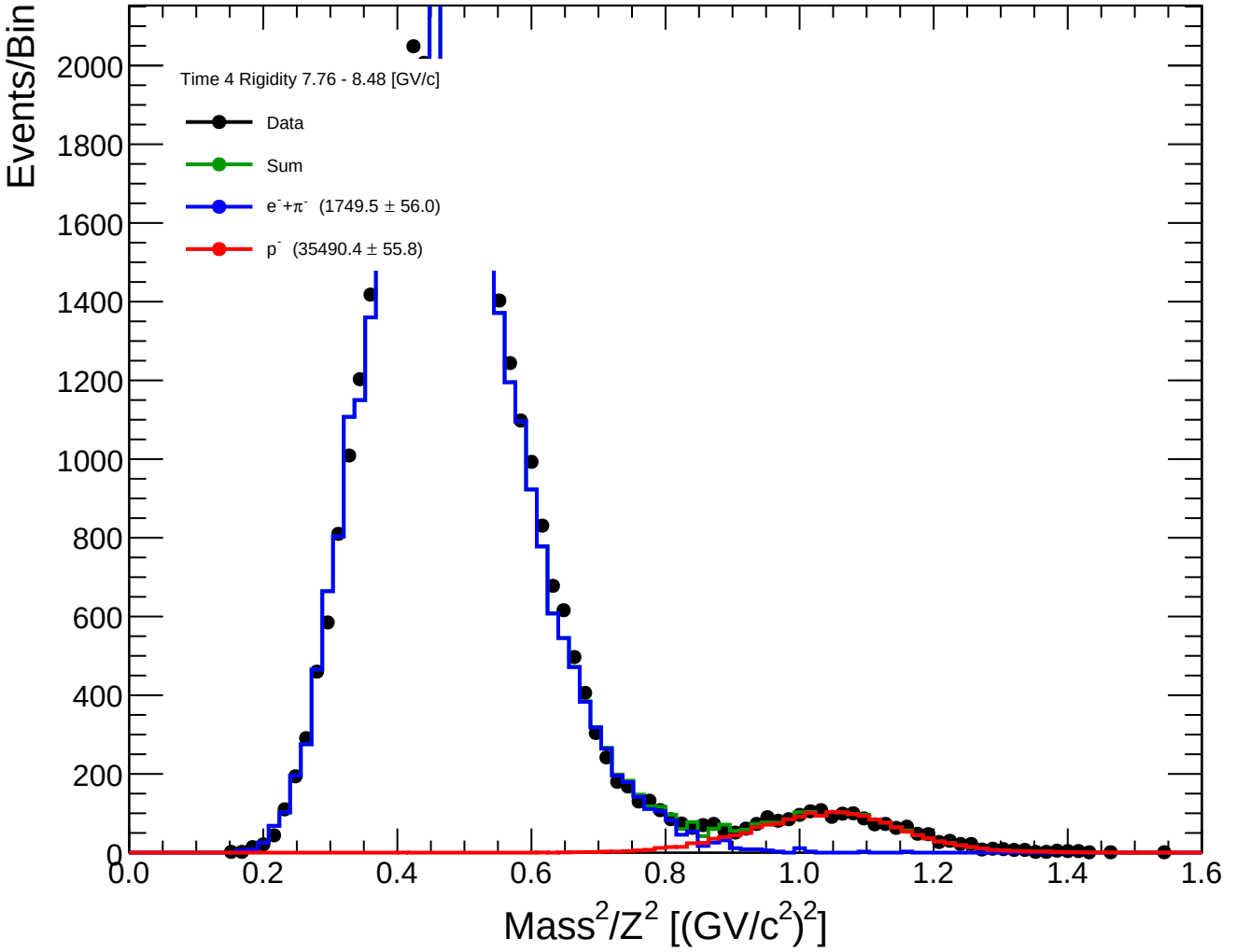

Time 3 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1852.5 ± 48.5)
p⁻ (19431.2 ± 51.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

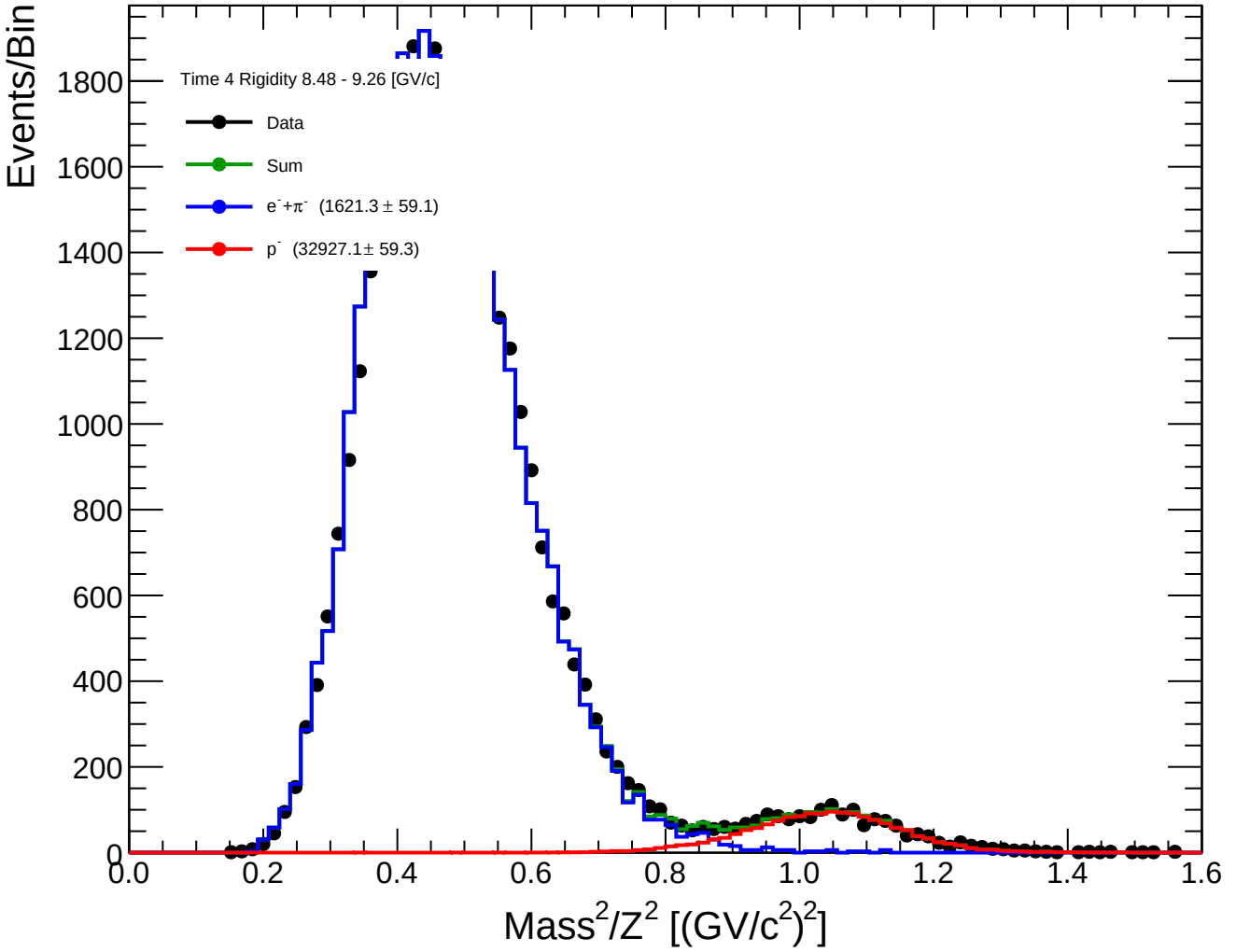

Time 3 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1511.4 ± 41.9)
p⁻ (13493.7 ± 43.7)
Events/Bin
0
100
200
300
400
500
600
700
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

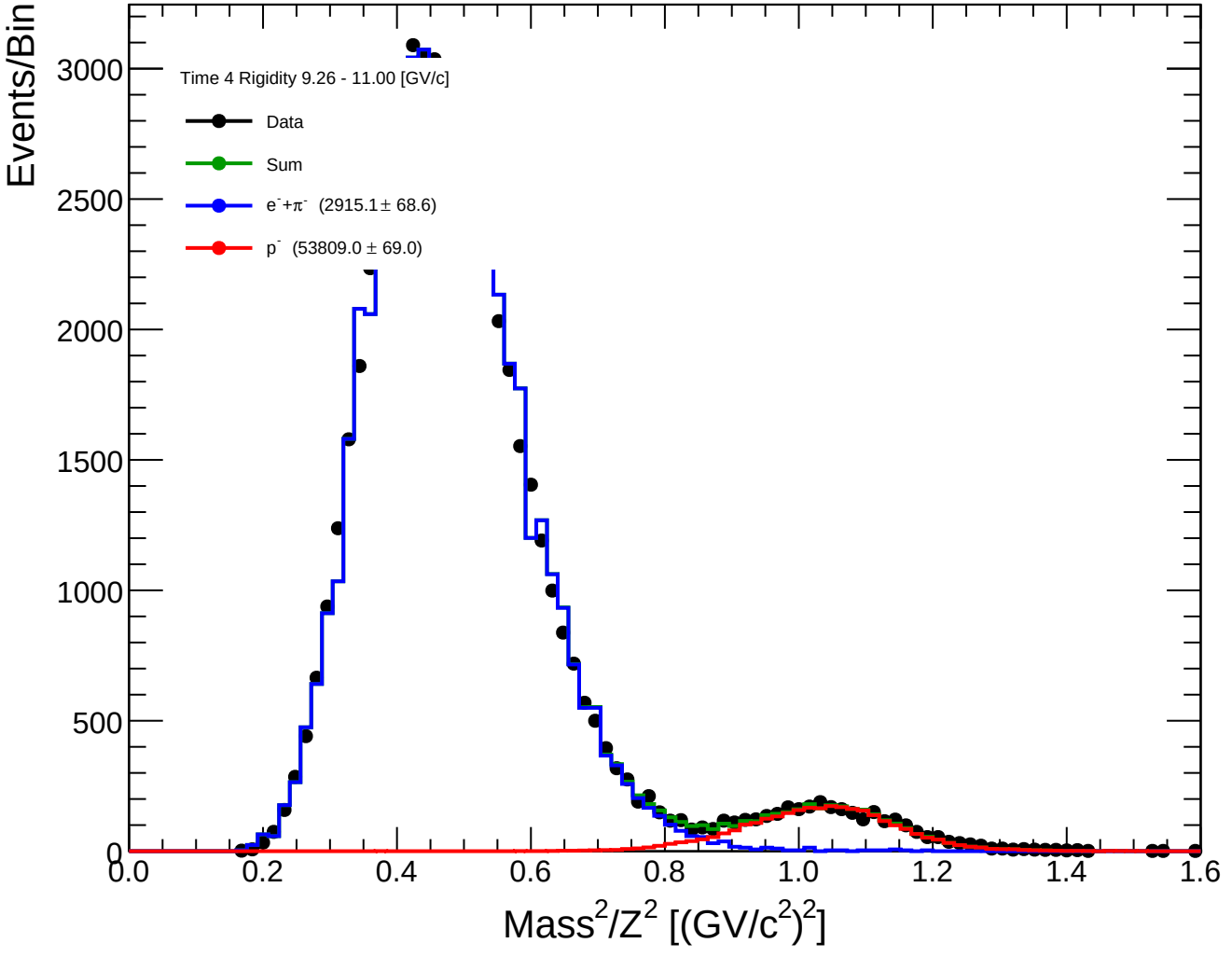

Time 3 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (982.1± 34.2)
p⁻ (8906.9 ± 36.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

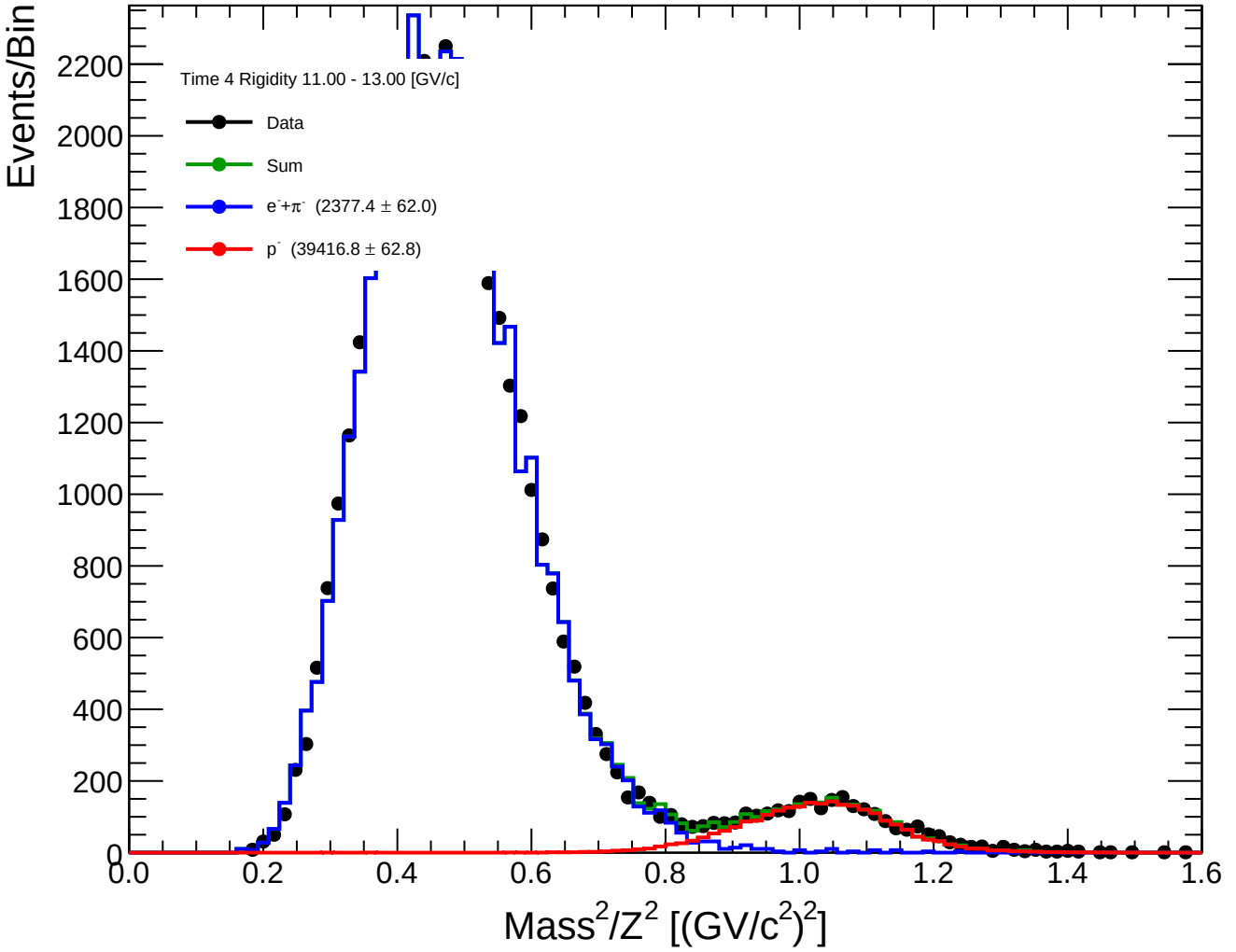

Time 3 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (776.1± 38.8)
p⁻ (5495.4 ± 40.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

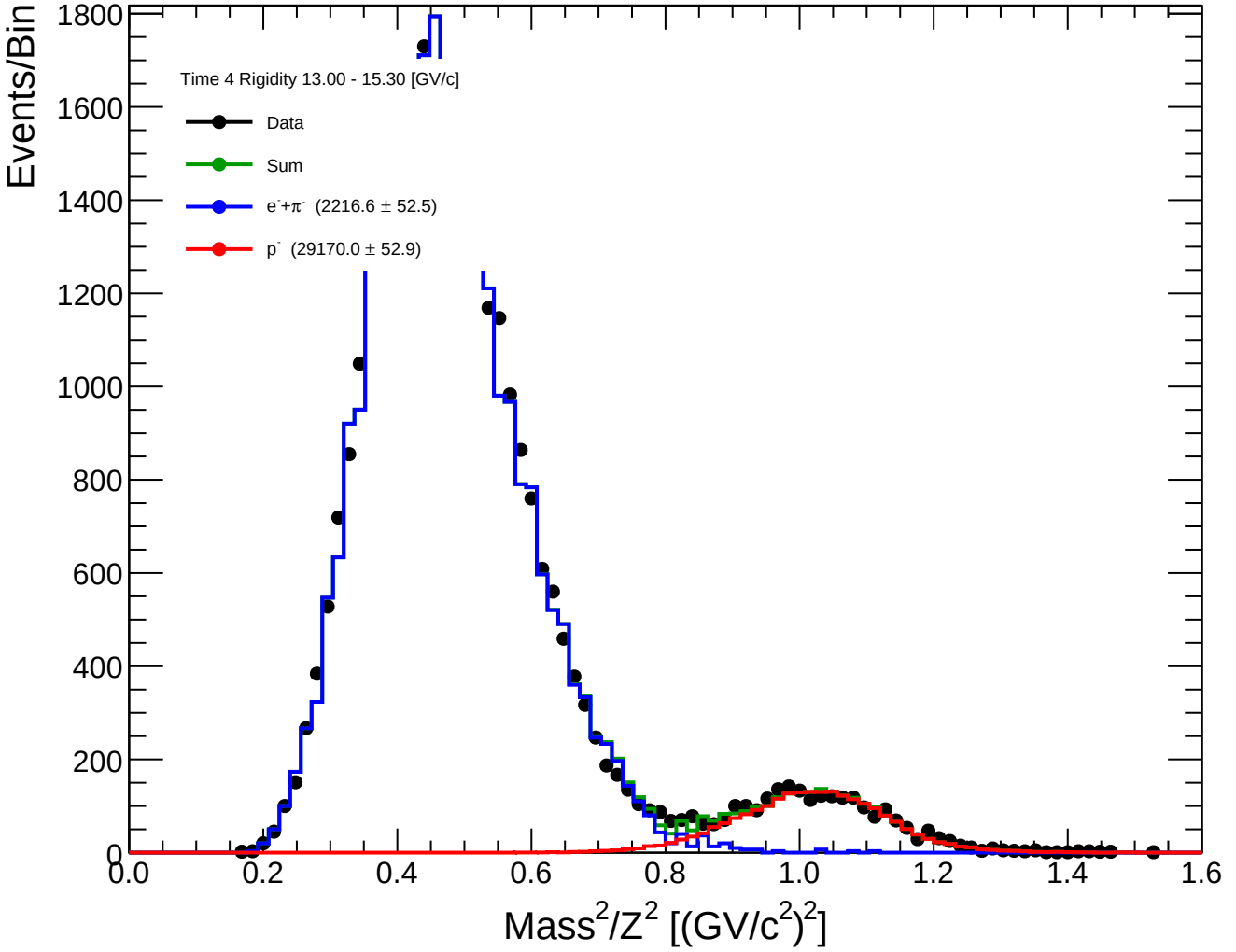

Time 4 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1879.3 ± 55.8)
p⁻ (37488.2 ± 56.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

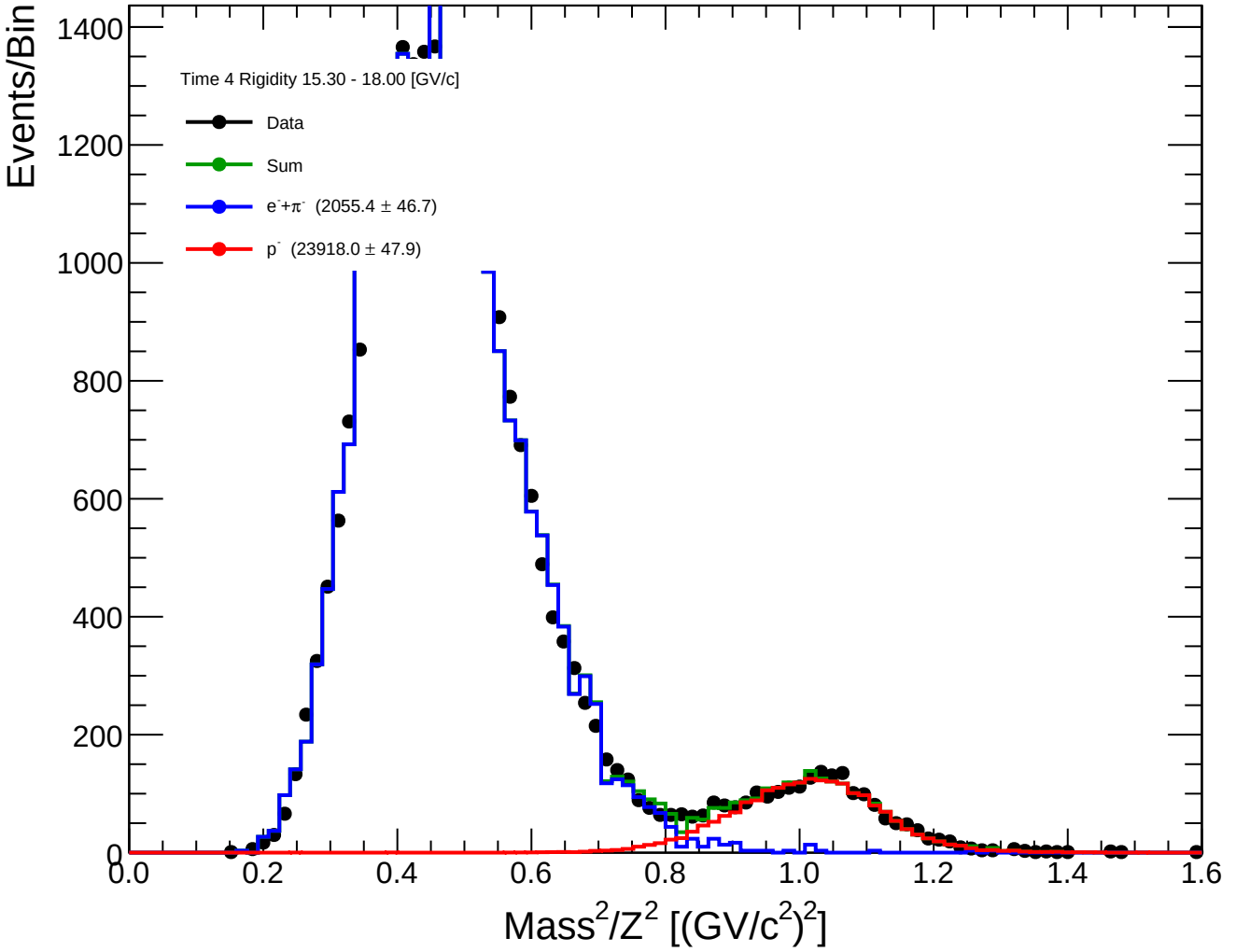

Time 4 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1749.5 ± 56.0)
p⁻ (35490.4 ± 55.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

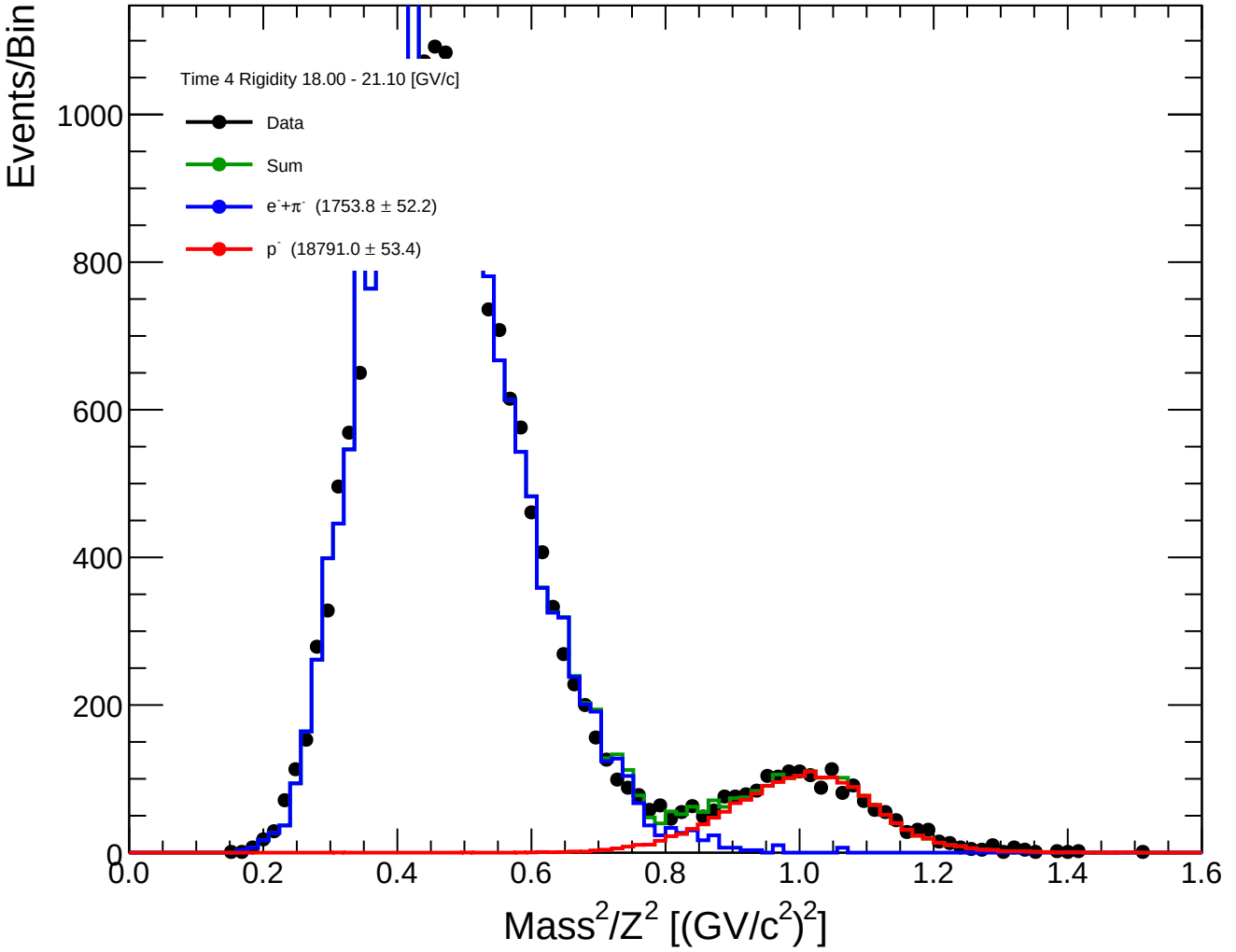

Time 4 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1621.3 ± 59.1)
p⁻ (32927.1± 59.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

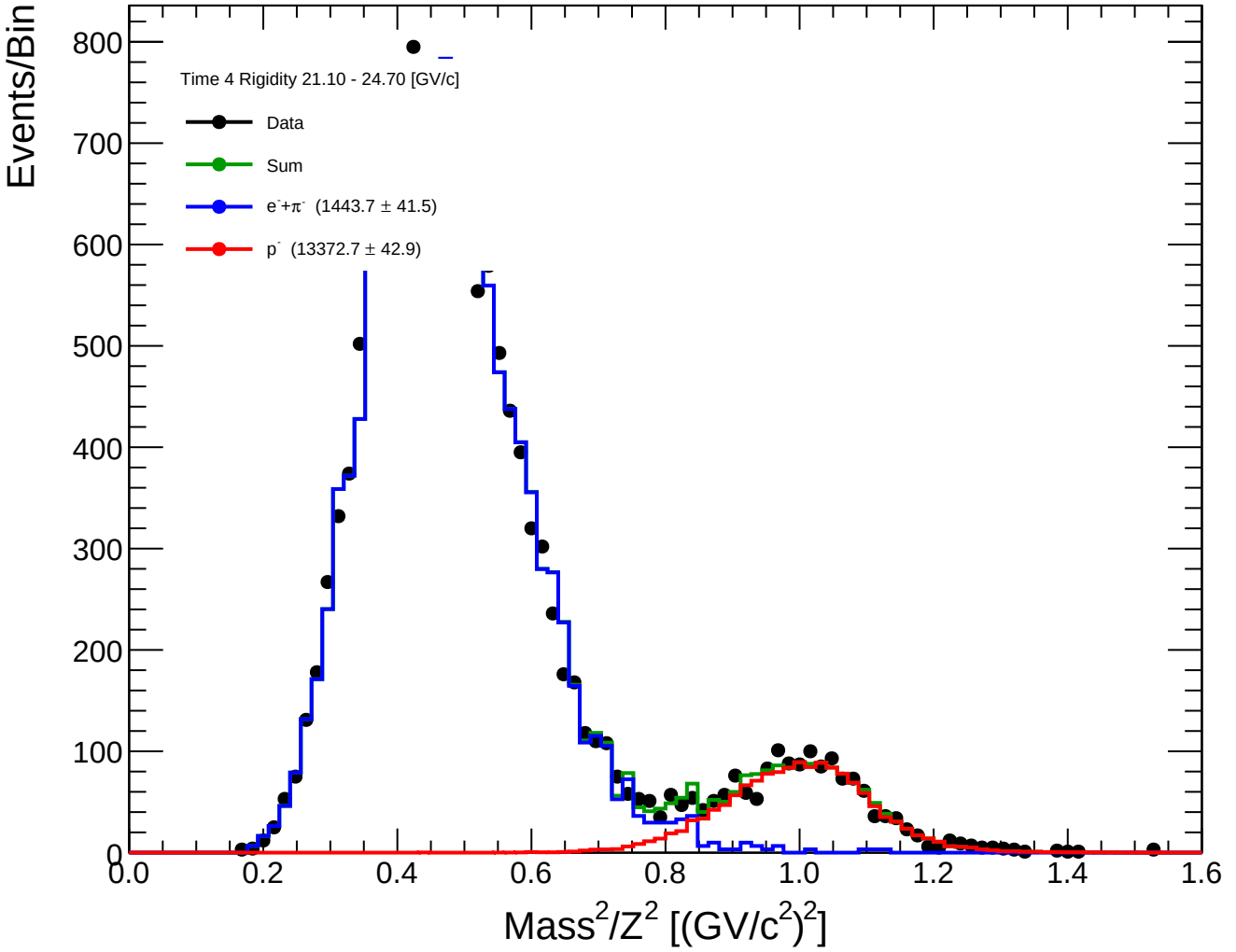

Time 4 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2915.1± 68.6)
p⁻ (53809.0 ± 69.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

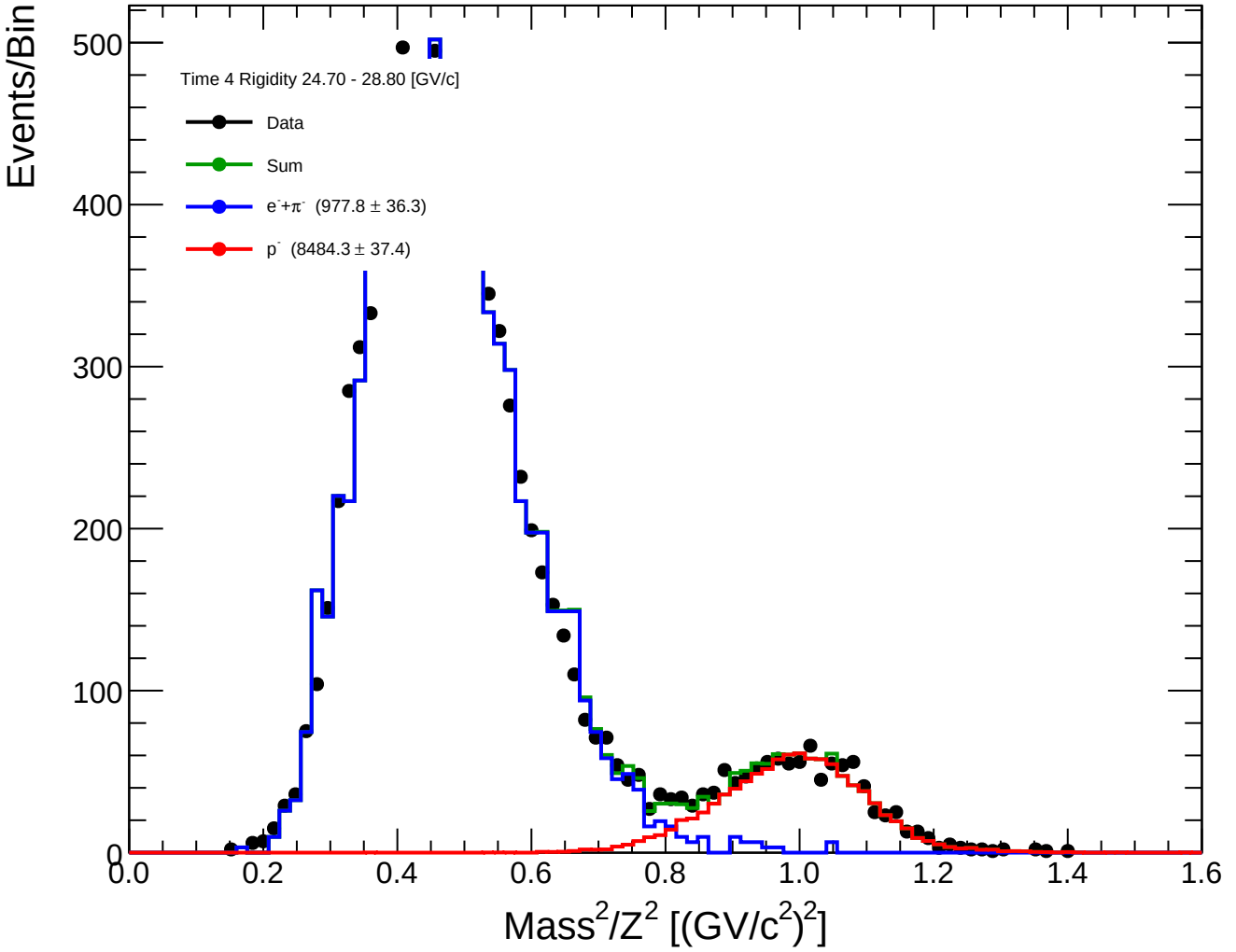

Time 4 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2377.4 ± 62.0)
p⁻ (39416.8 ± 62.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

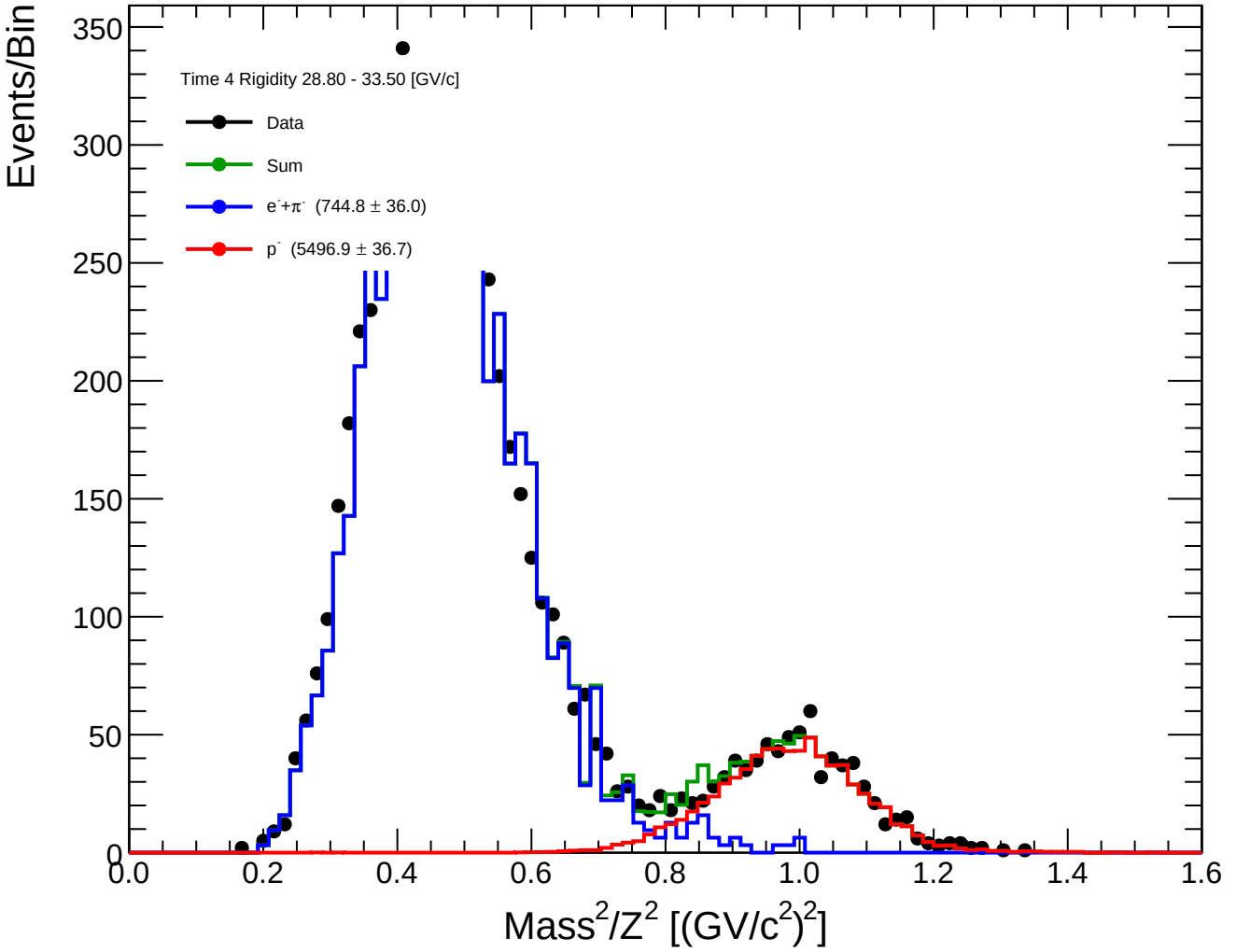

Time 4 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2216.6 ± 52.5)
p⁻ (29170.0 ± 52.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

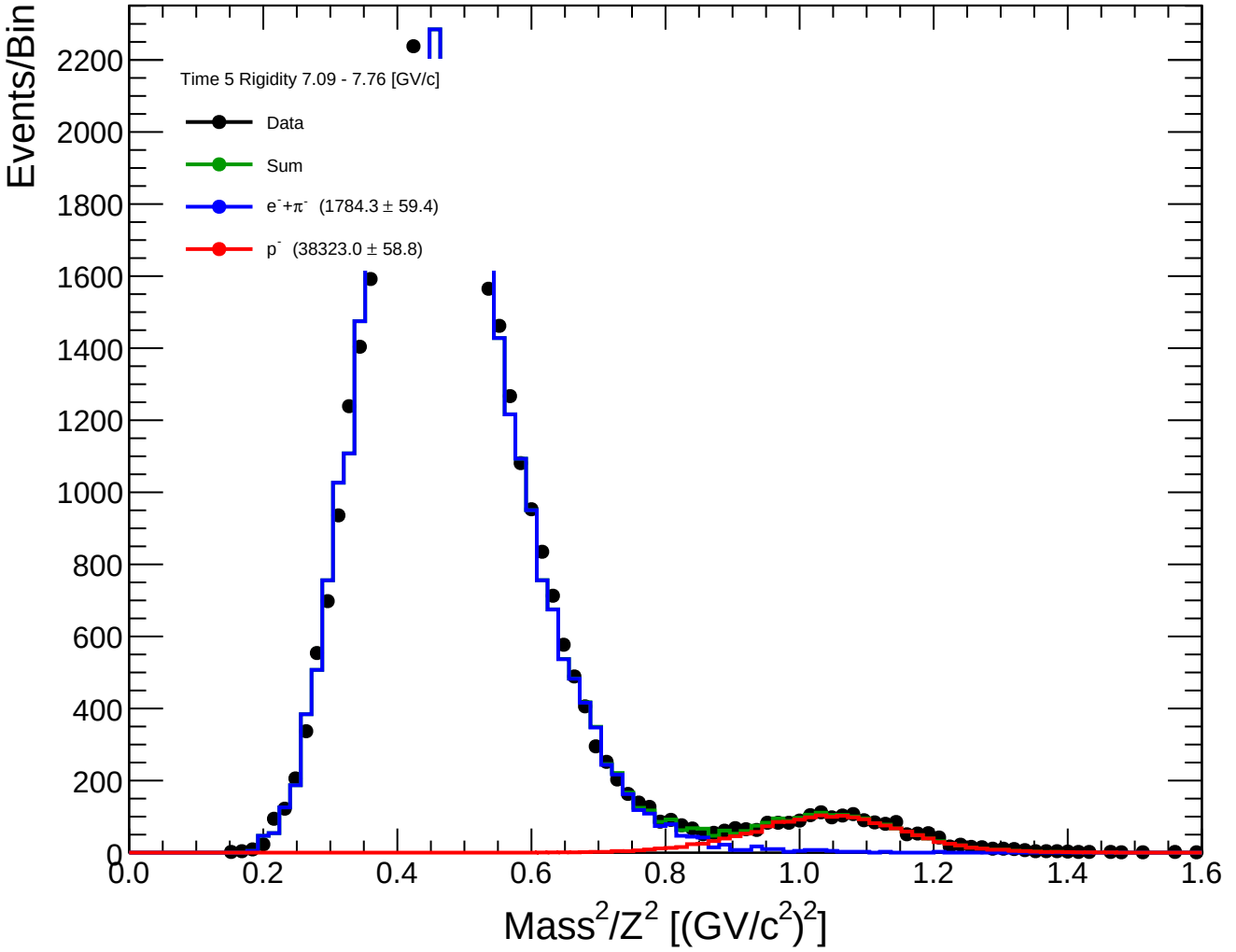

Time 4 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2055.4 ± 46.7)
p⁻ (23918.0 ± 47.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

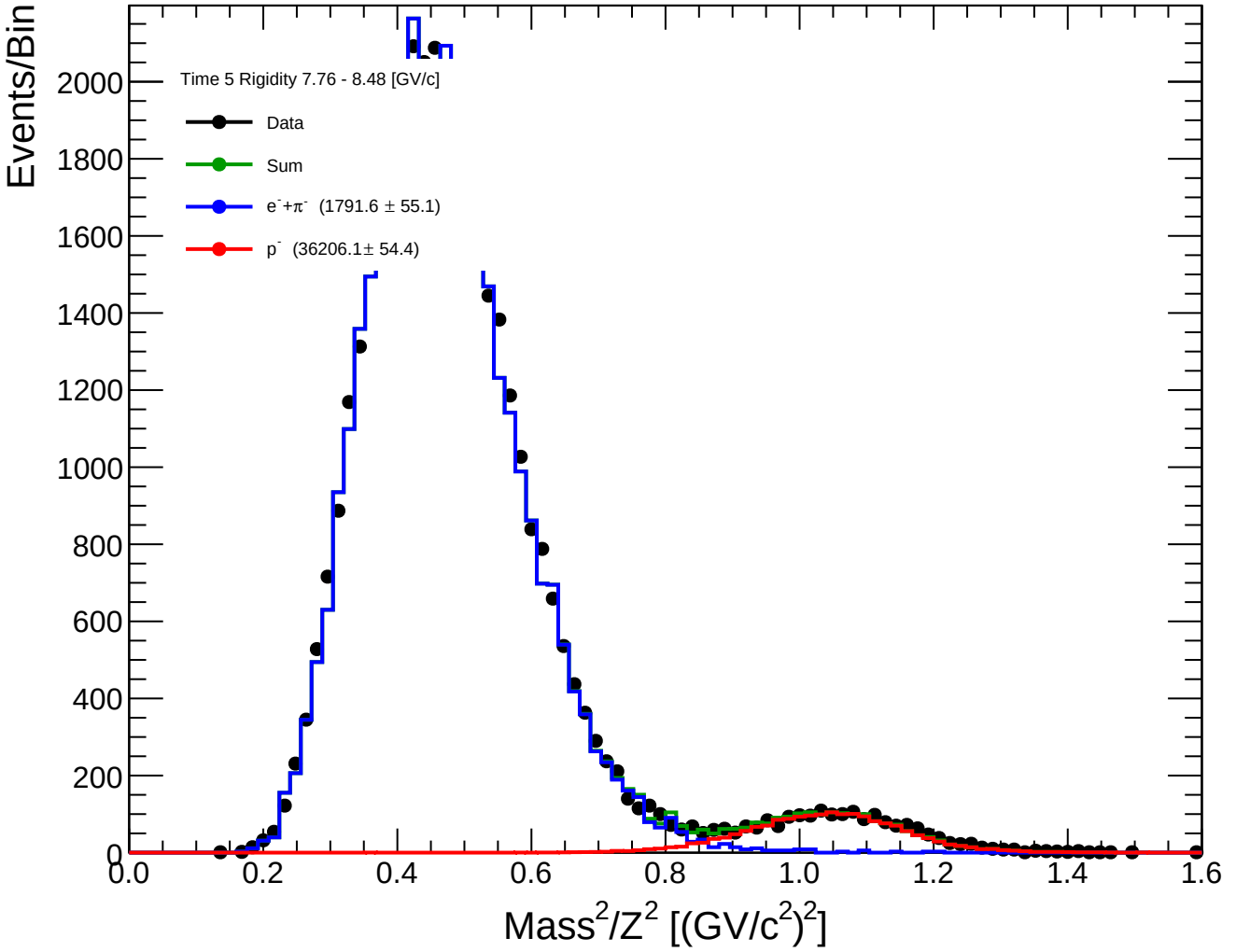

Time 4 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1753.8 ± 52.2)
p⁻ (18791.0 ± 53.4)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

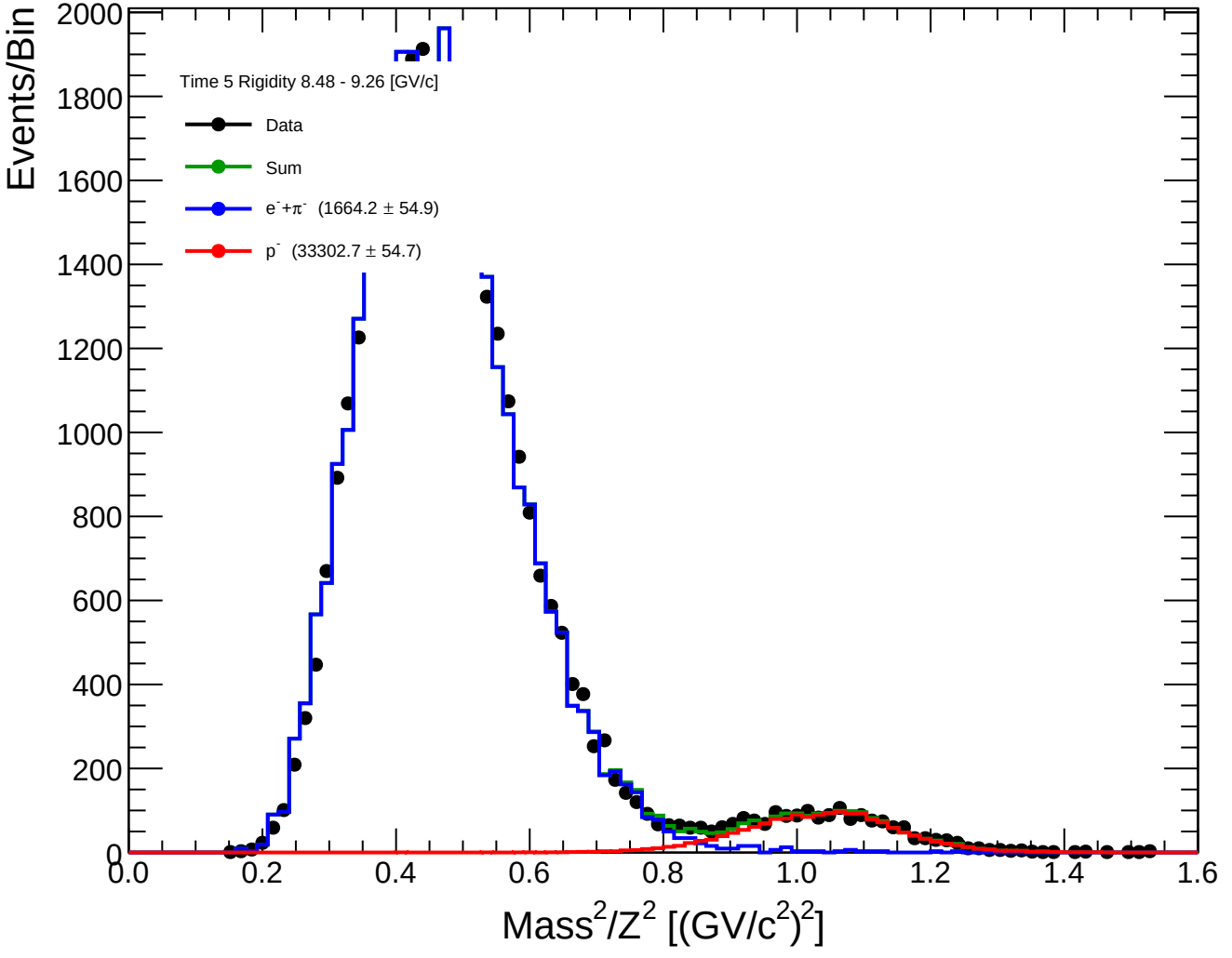

Time 4 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1443.7 ± 41.5)
p⁻ (13372.7 ± 42.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

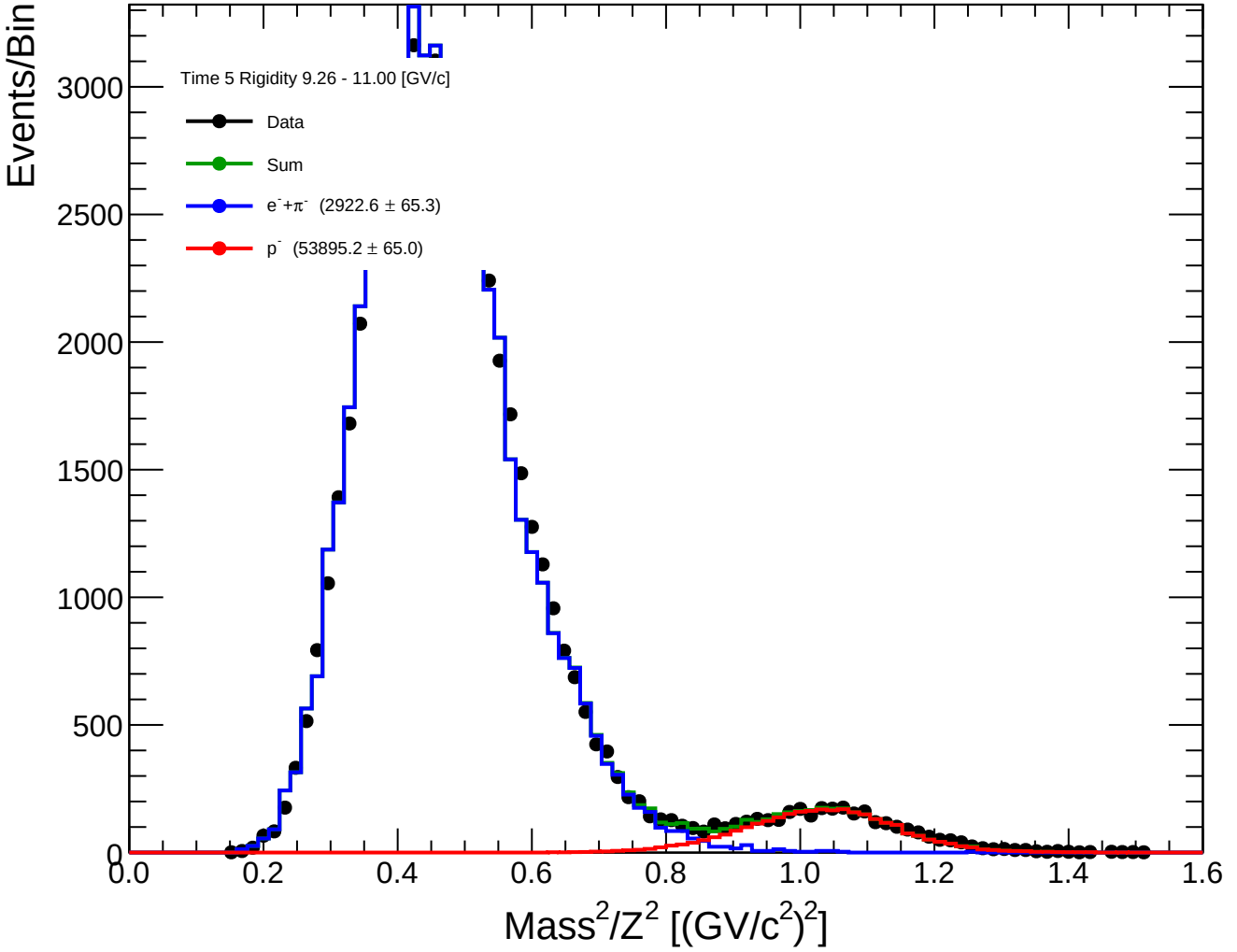

Time 4 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (977.8 ± 36.3)
p⁻ (8484.3 ± 37.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

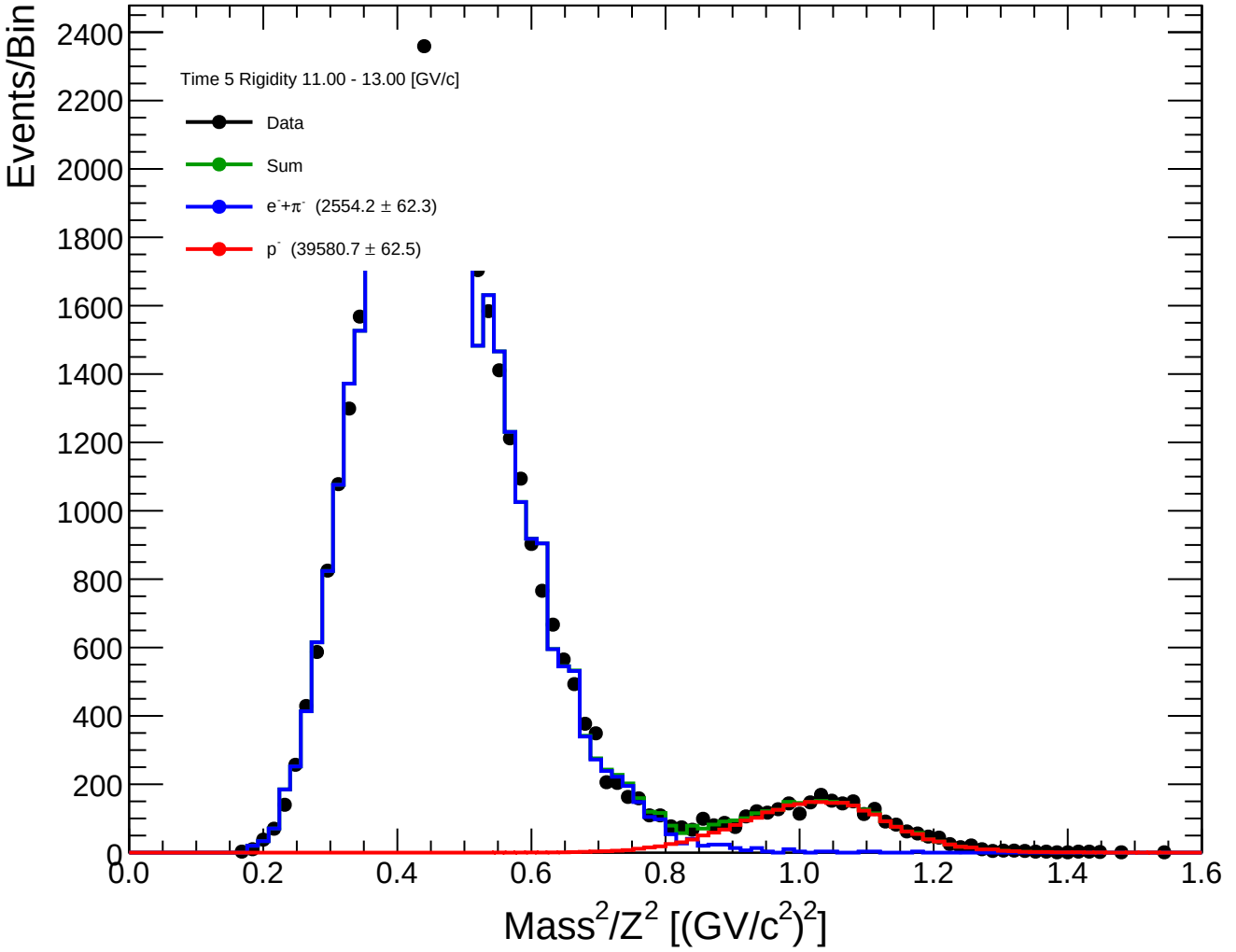

Time 4 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (744.8 ± 36.0)
p⁻ (5496.9 ± 36.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

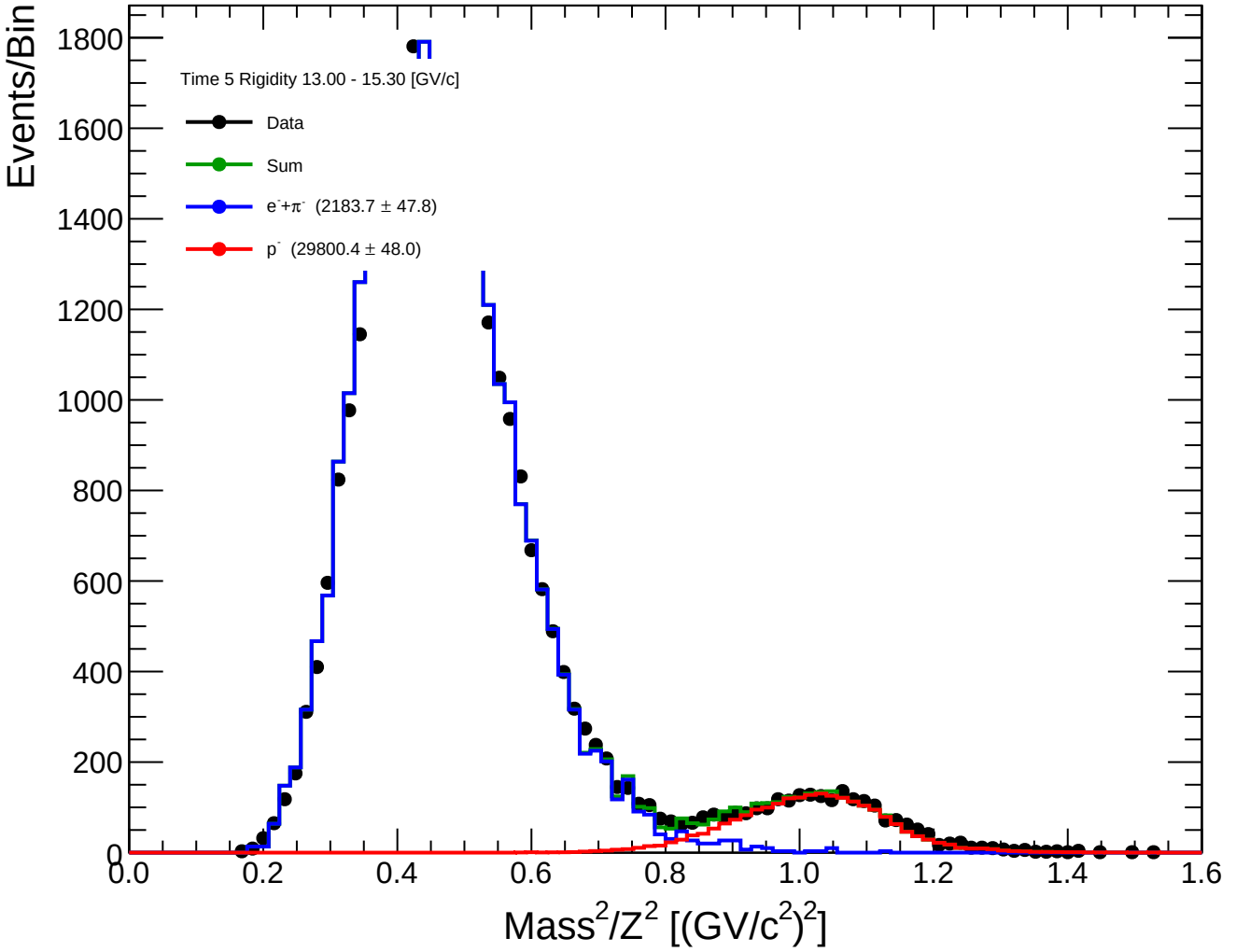

Events/Bin
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass^2/Z^2 [(GV/c^2)^2]
Time 5 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e$^-$+π$^-$ (1784.3 ± 59.4)
p$^-$ (38323.0 ± 58.8)

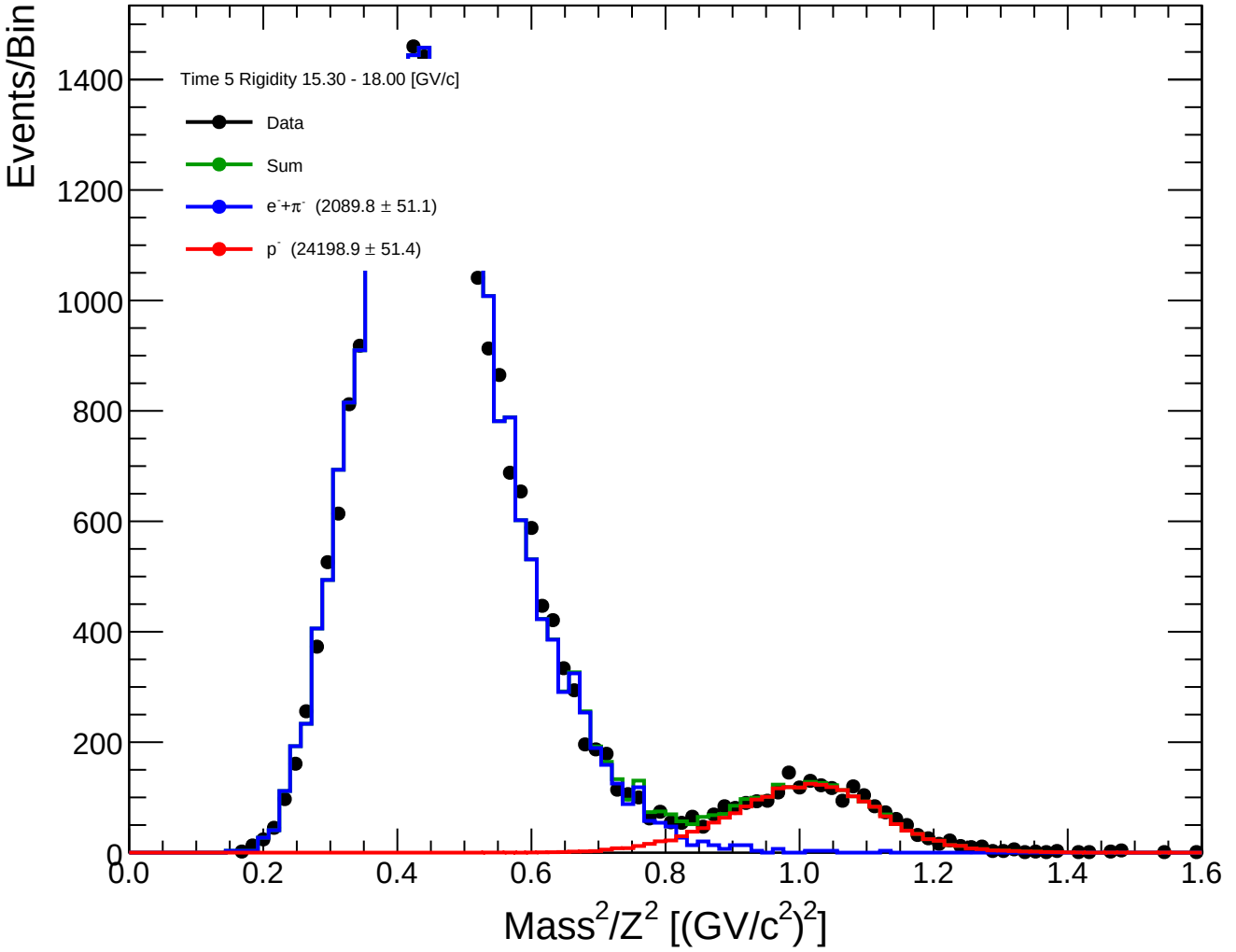

Time 5 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1791.6 ± 55.1)
p⁻ (36206.1± 54.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

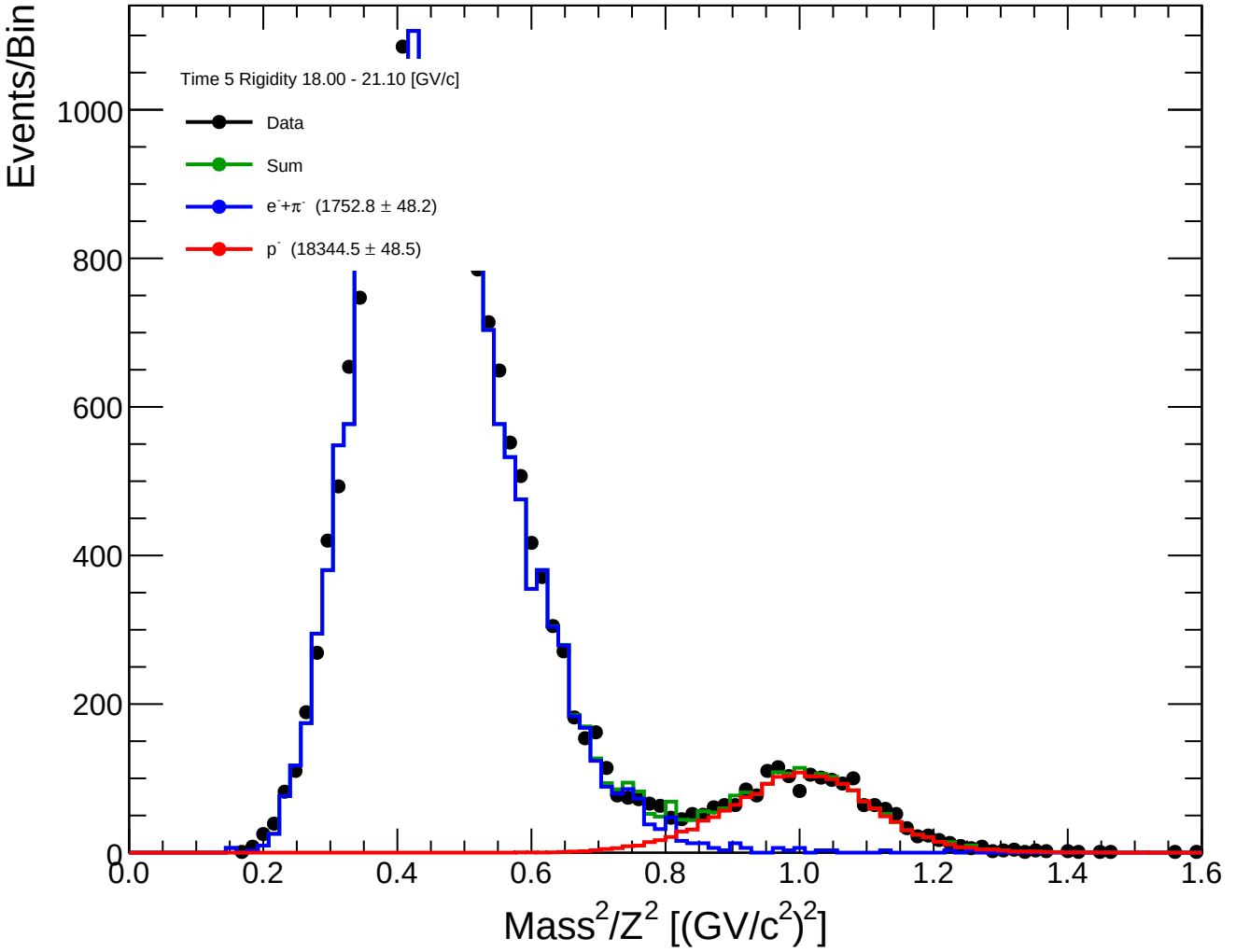

Time 5 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1664.2 ± 54.9)
p⁻ (33302.7 ± 54.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

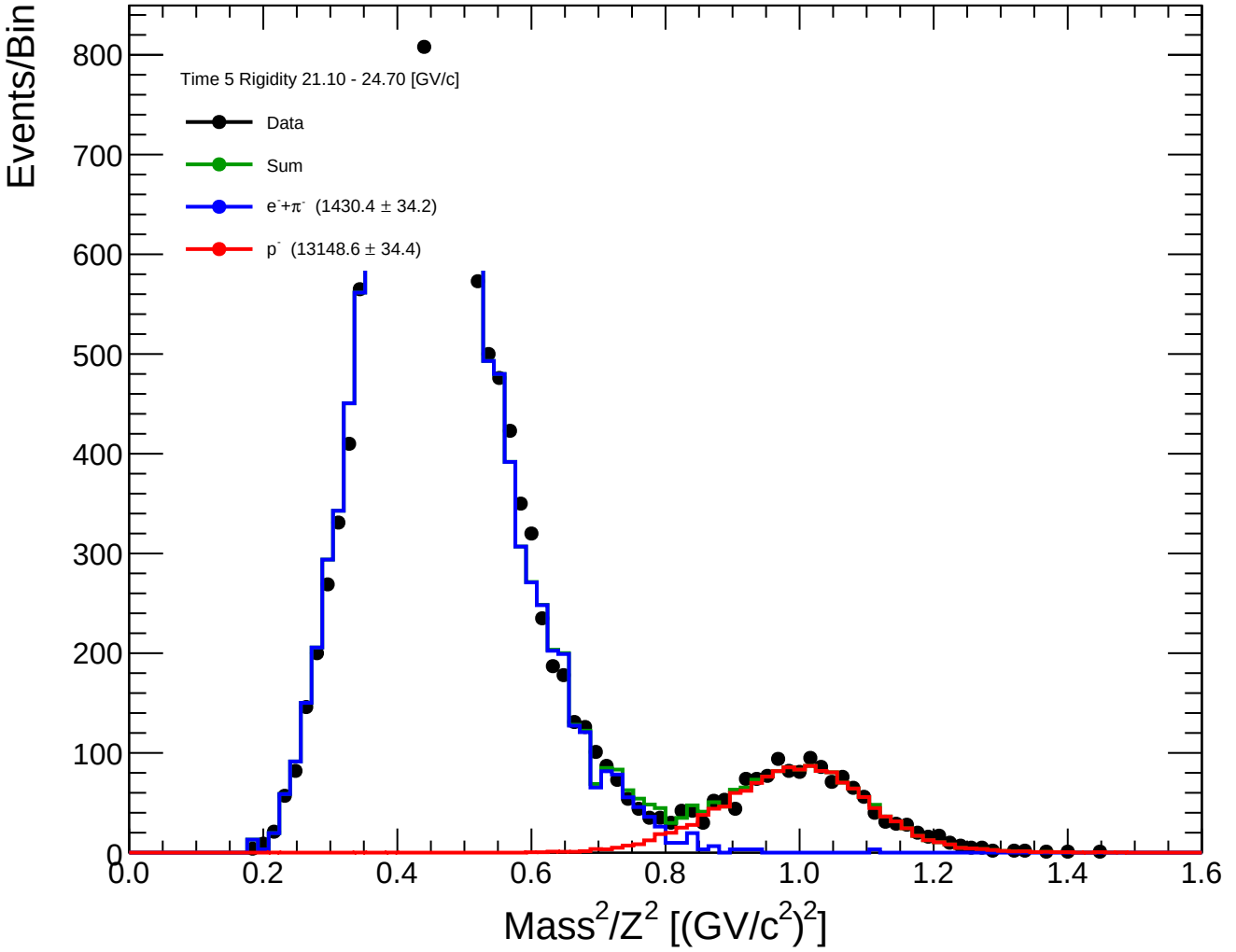

Time 5 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2922.6 ± 65.3)
p⁻ (53895.2 ± 65.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

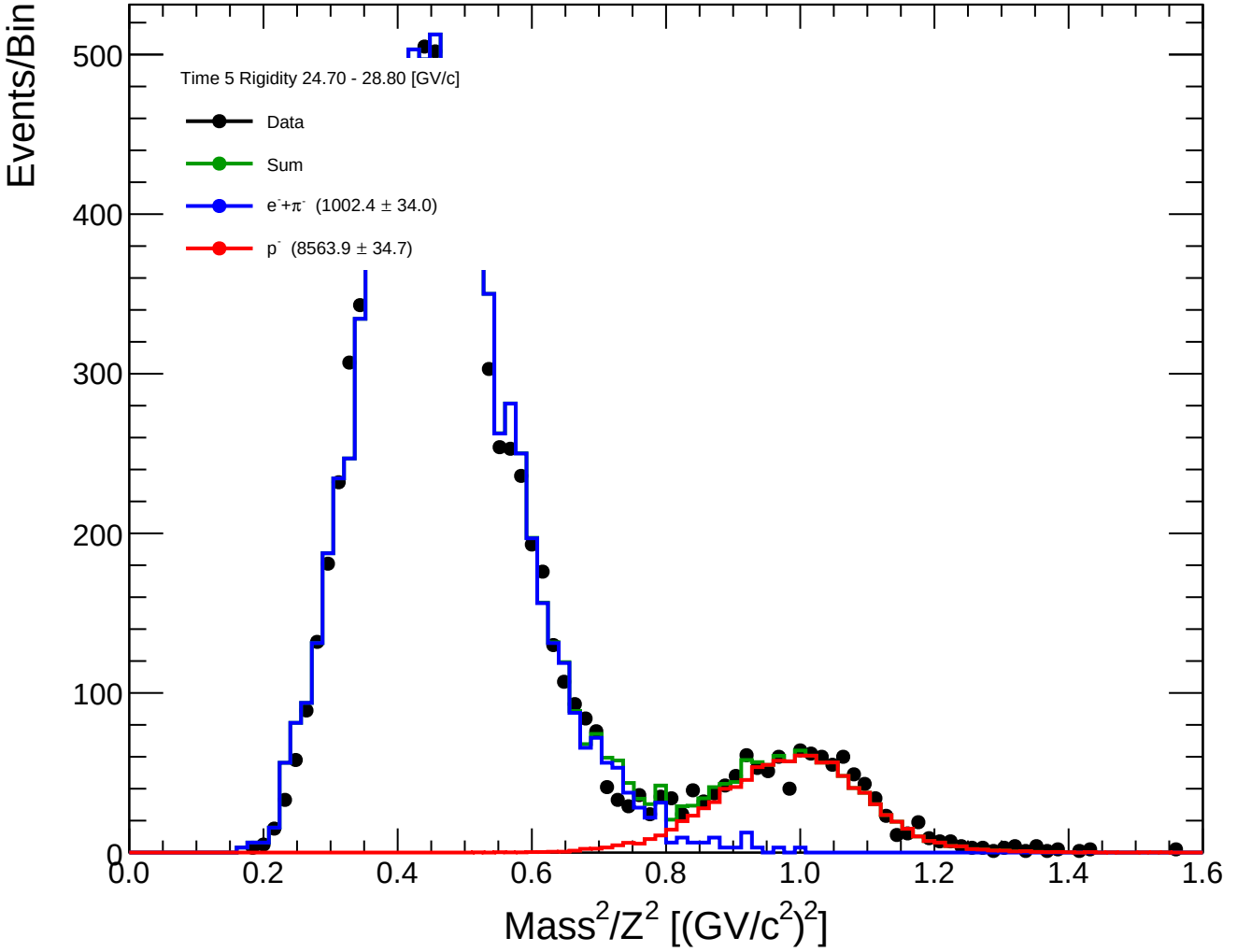

Time 5 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2554.2 ± 62.3)
p⁻ (39580.7 ± 62.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

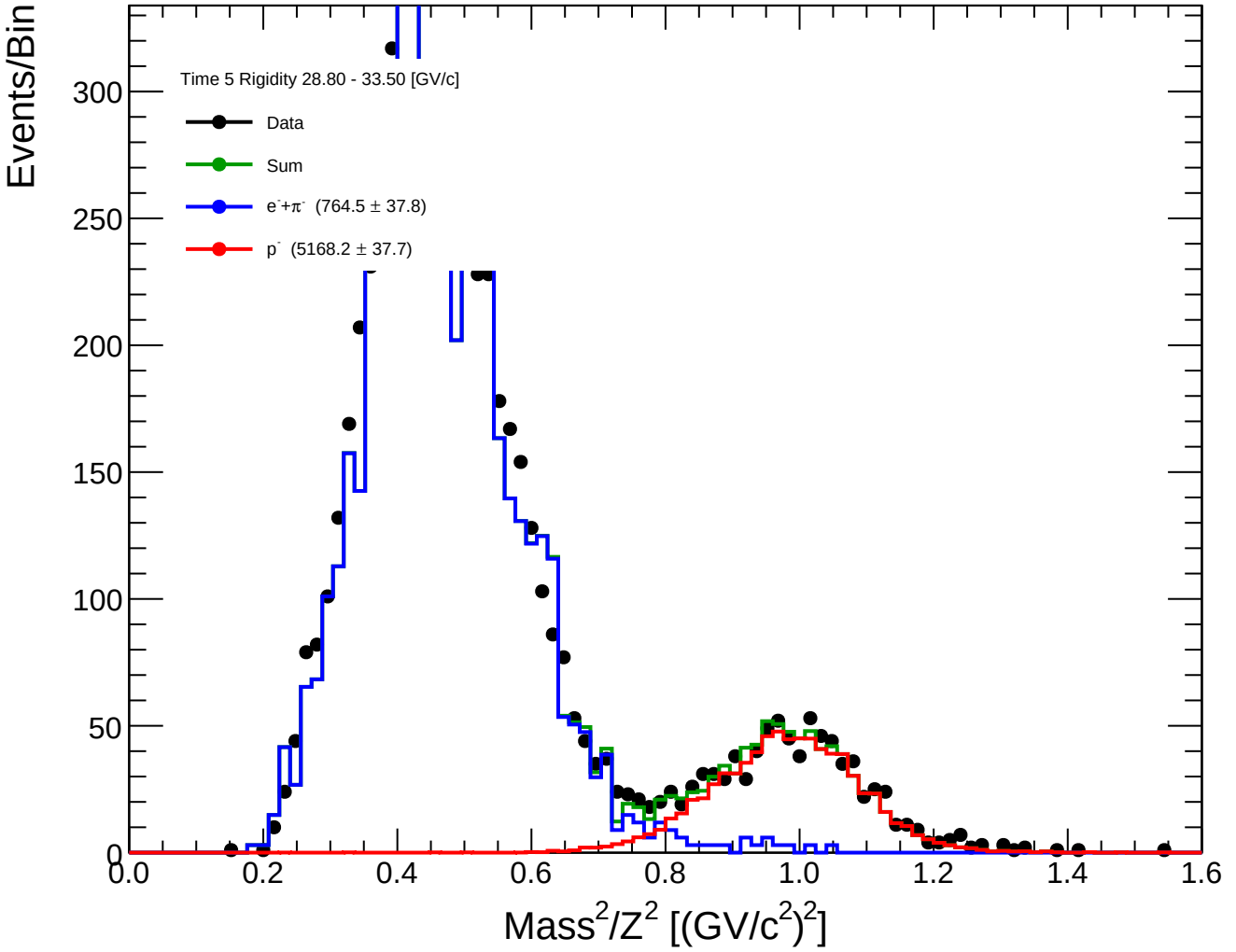

Events/Bin
1800
1600
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass^2/Z^2 [(GV/c^2)^2]
Time 5 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e$^-$+π$^-$ (2183.7 ± 47.8)
p$^-$ (29800.4 ± 48.0)

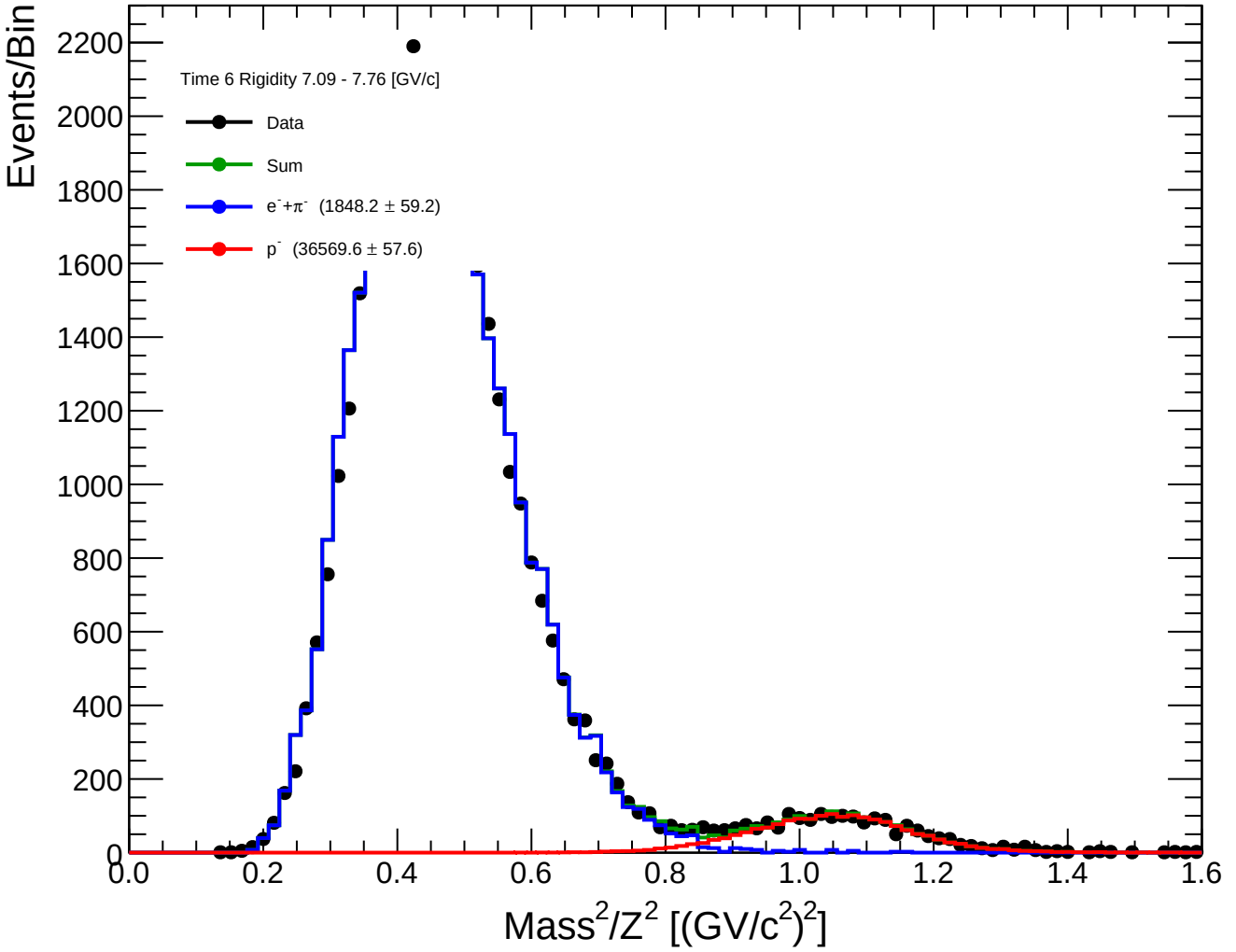

Time 5 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2089.8 ± 51.1)
p⁻ (24198.9 ± 51.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

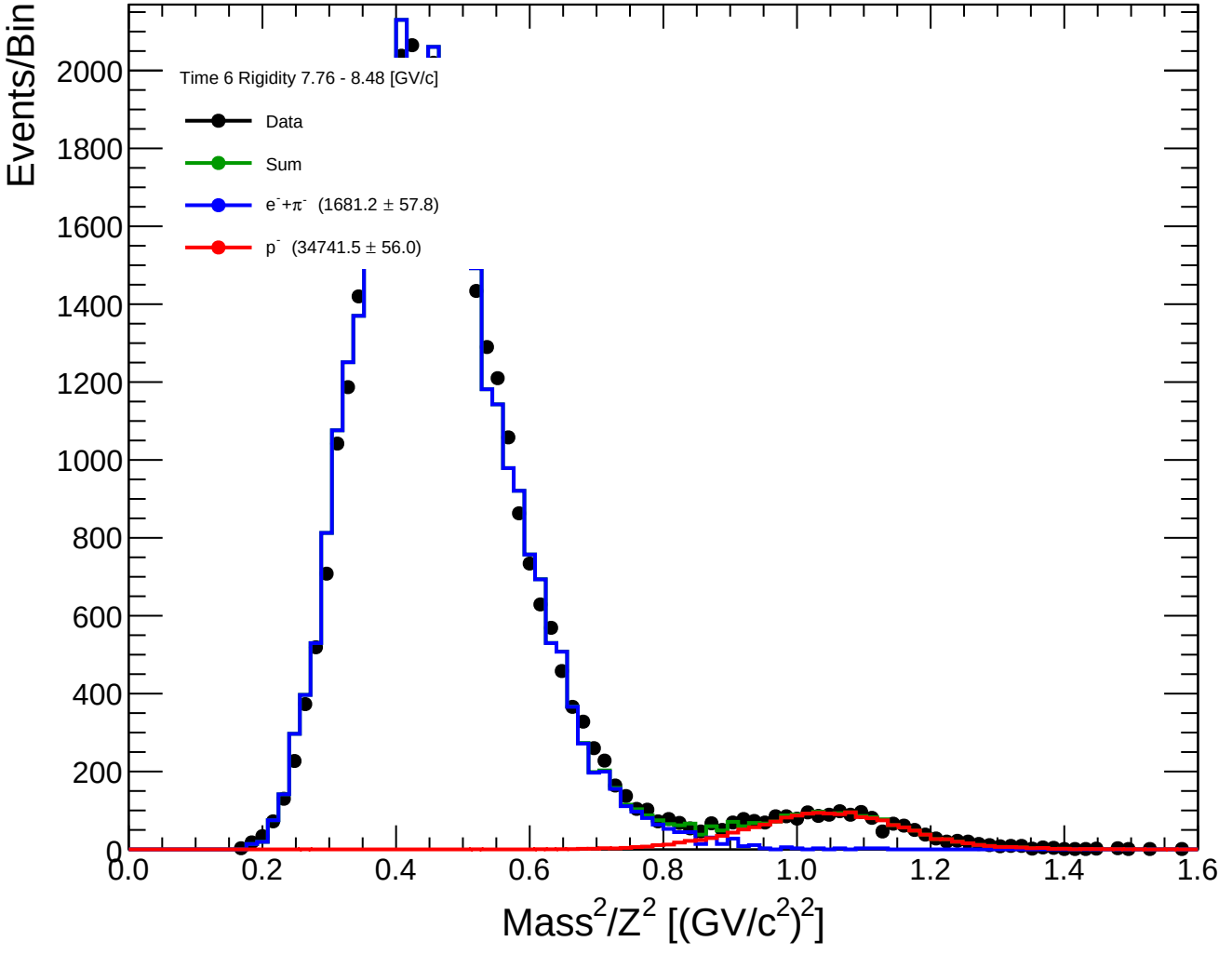

Time 5 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1752.8 ± 48.2)
p⁻ (18344.5 ± 48.5)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

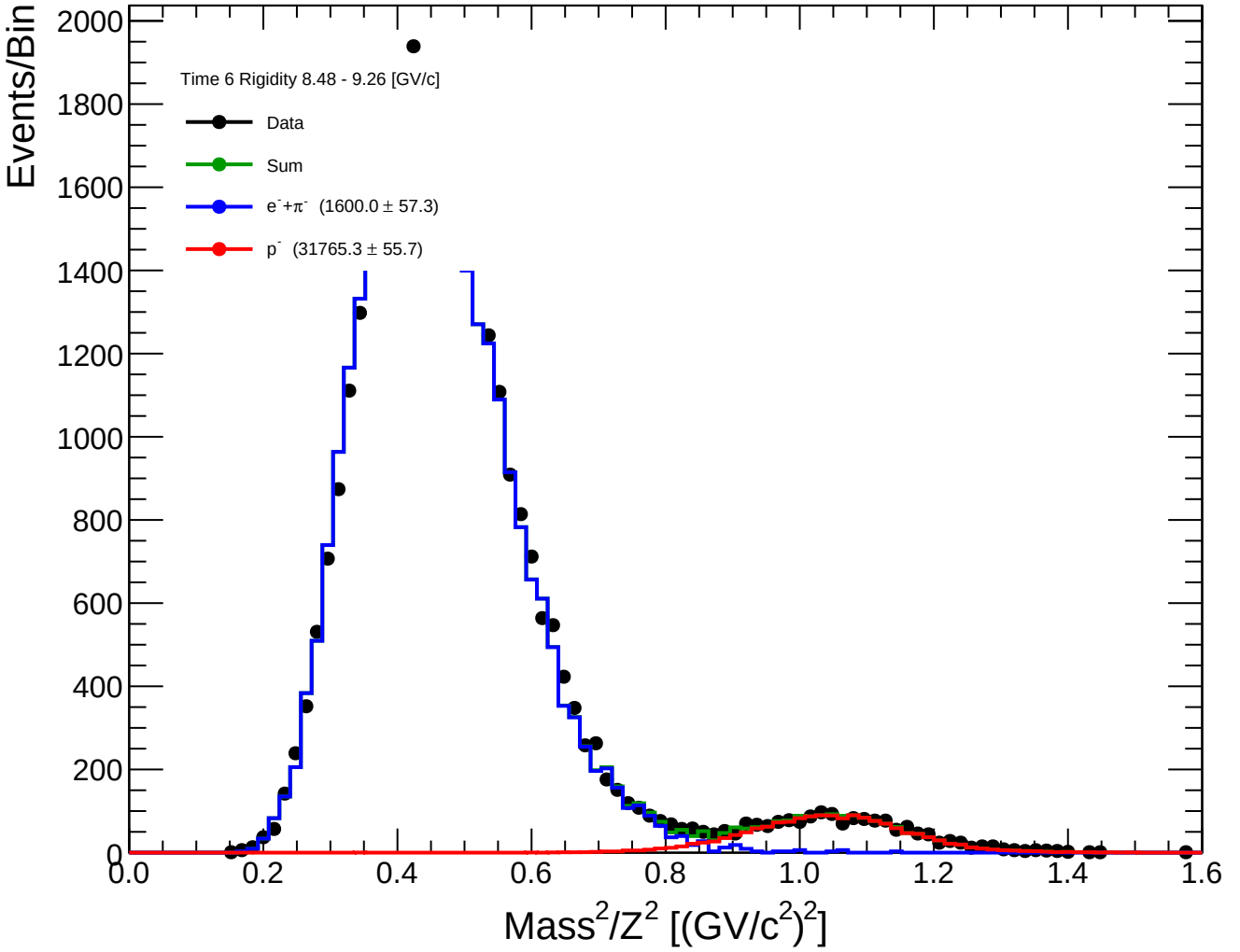

Time 5 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1430.4 ± 34.2)
p⁻ (13148.6 ± 34.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

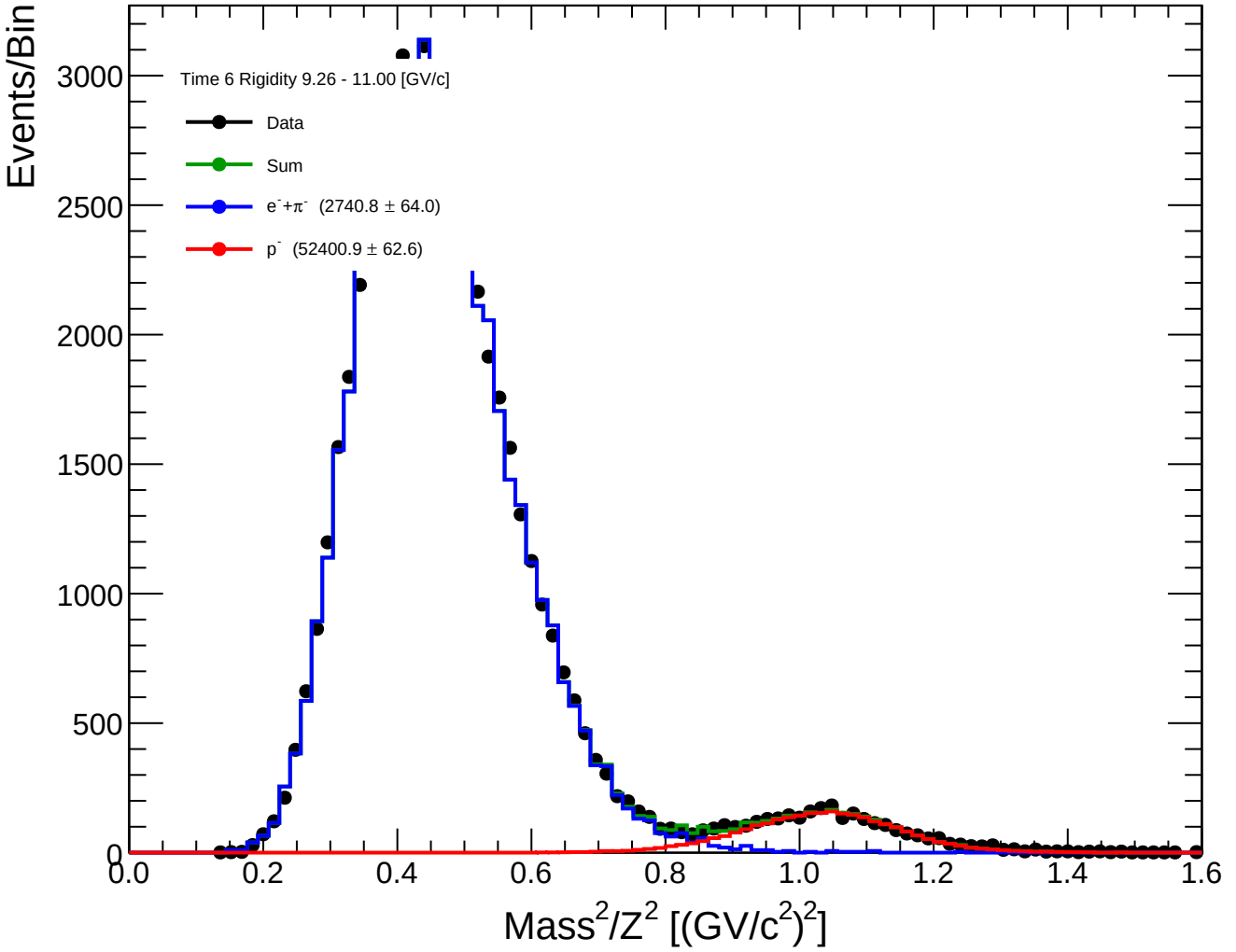

Time 5 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1002.4 ± 34.0)
p⁻ (8563.9 ± 34.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

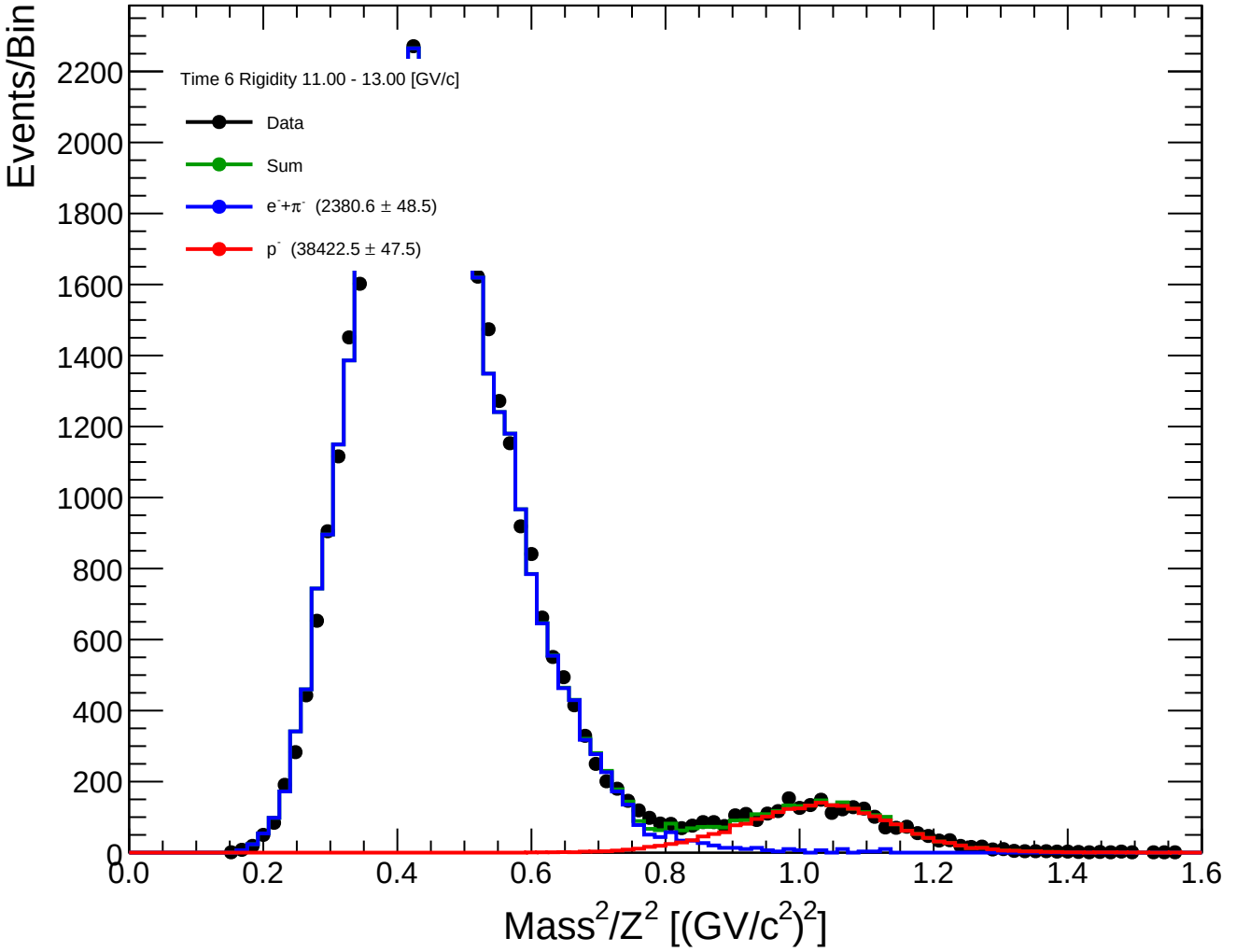

Time 5 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (764.5 ± 37.8)
p⁻ (5168.2 ± 37.7)
Events/Bin
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

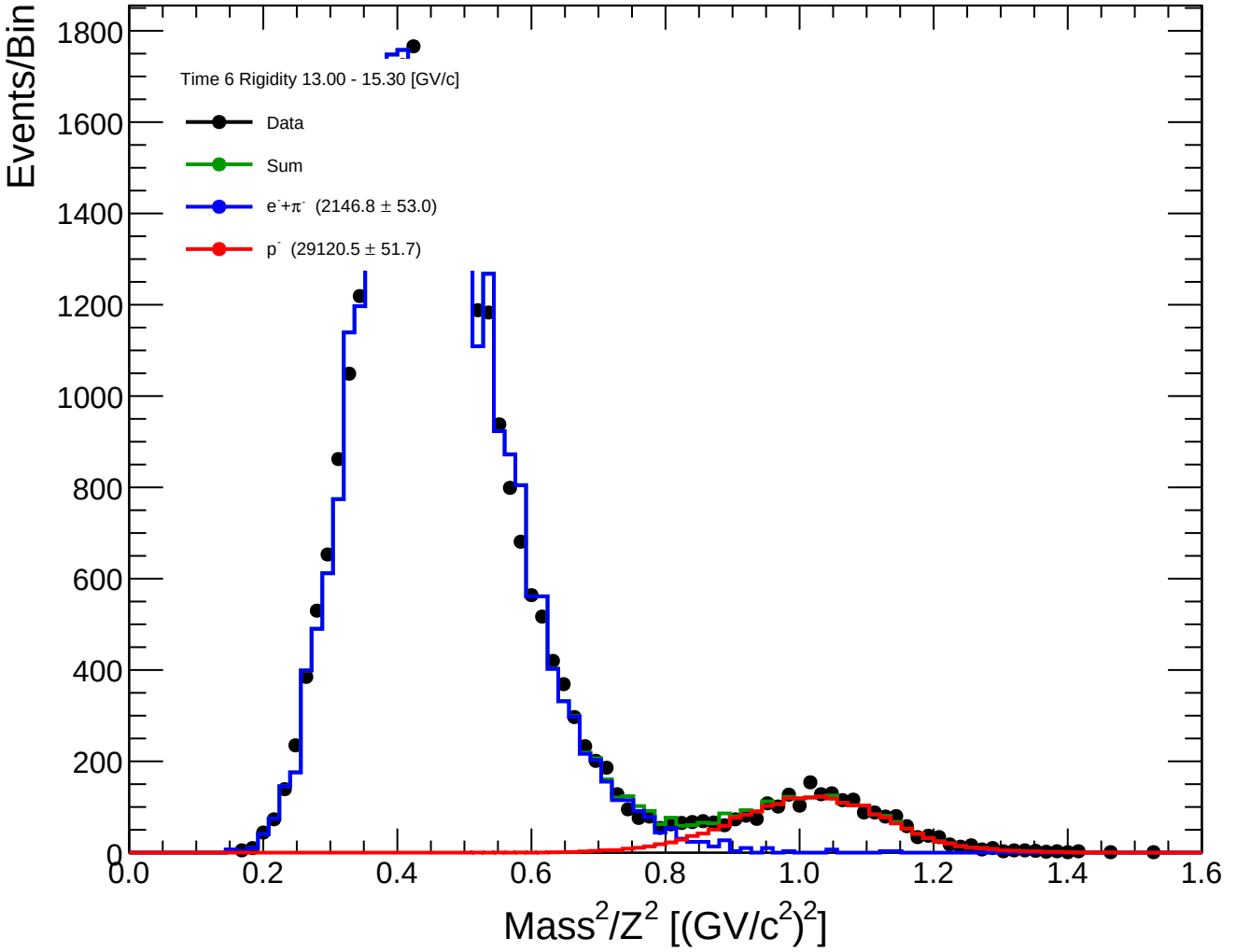

Time 6 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1848.2 ± 59.2)
p⁻ (36569.6 ± 57.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

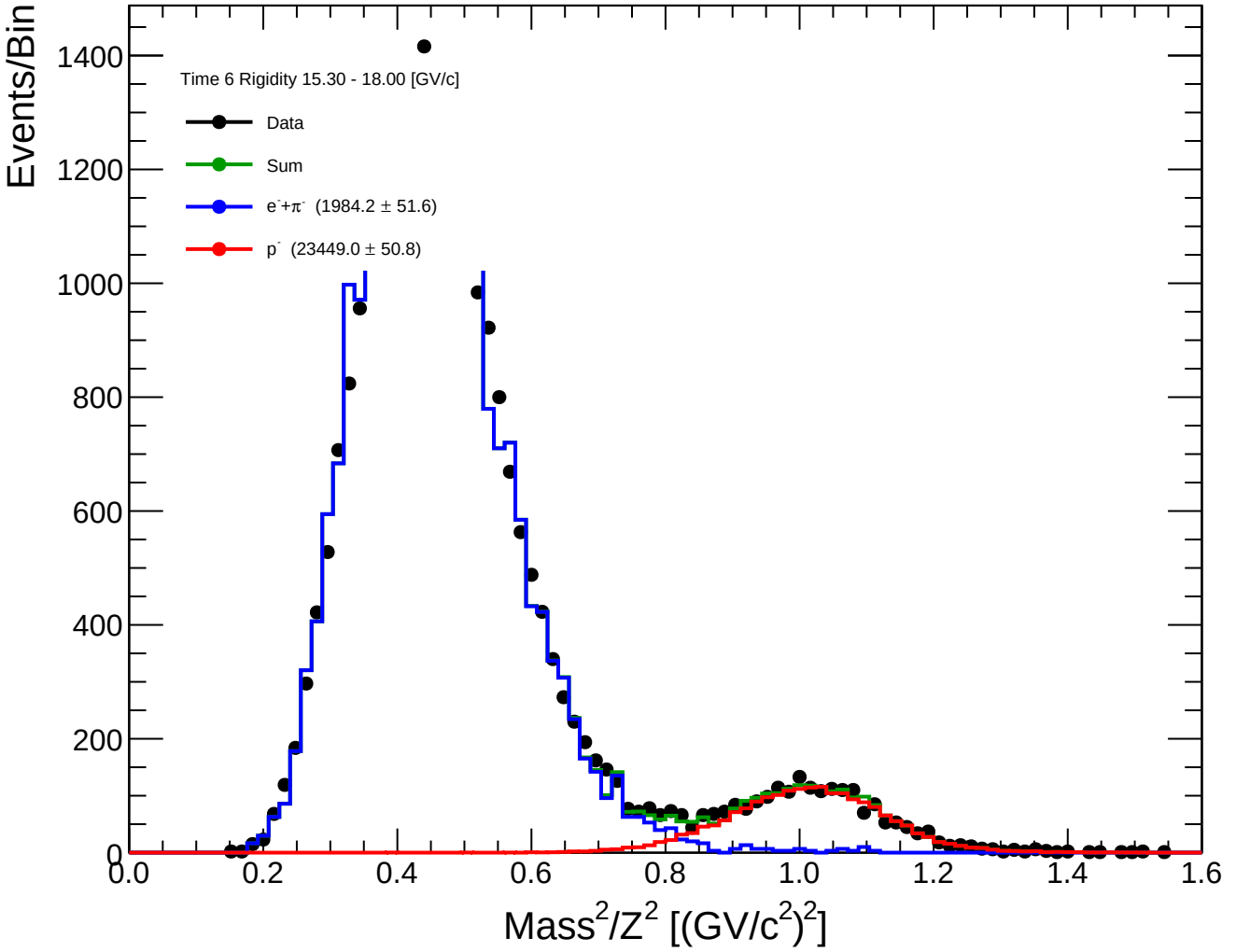

Time 6 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1681.2 ± 57.8)
p⁻ (34741.5 ± 56.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

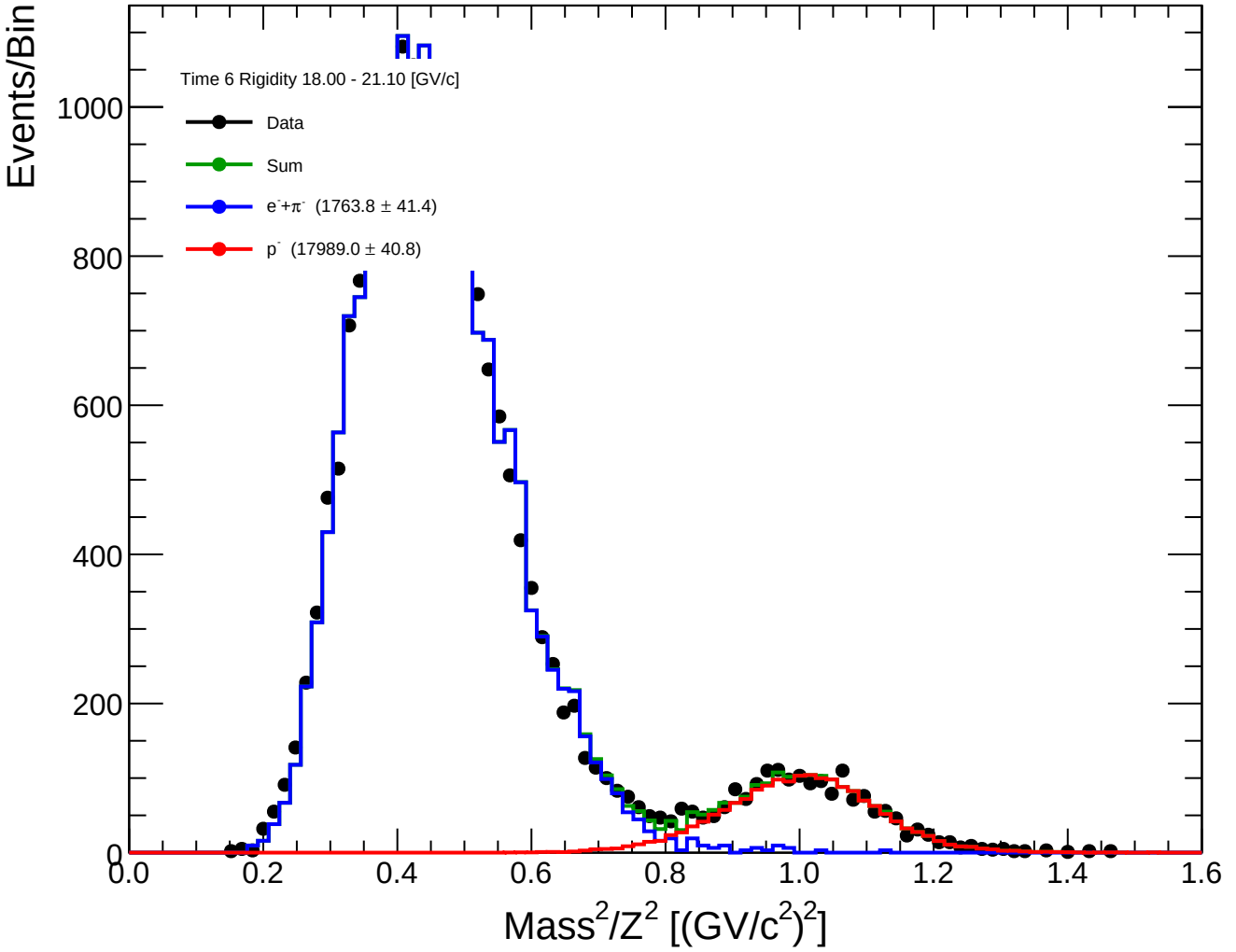

Time 6 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1600.0 ± 57.3)
p⁻ (31765.3 ± 55.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

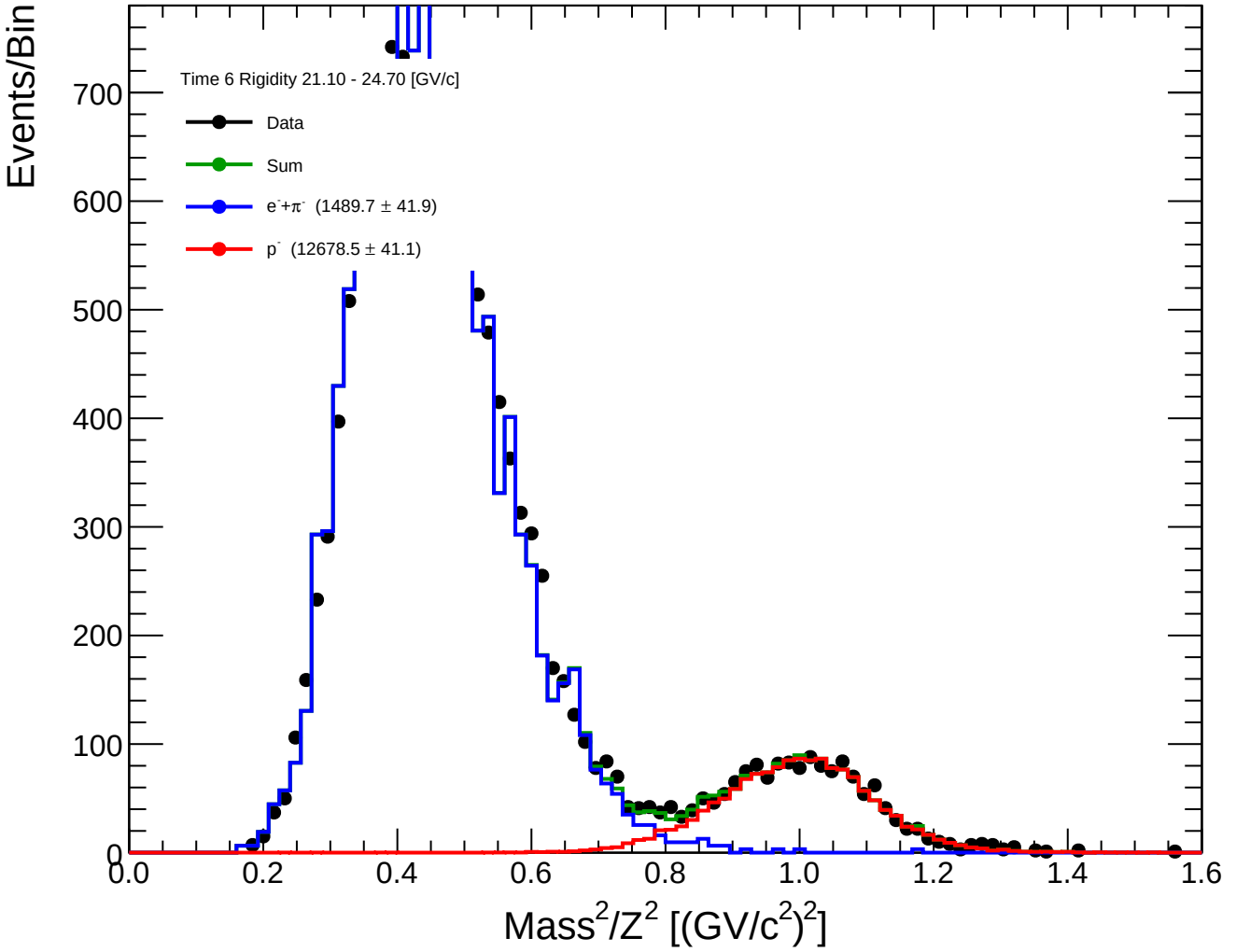

Time 6 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2740.8 ± 64.0)
p⁻ (52400.9 ± 62.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

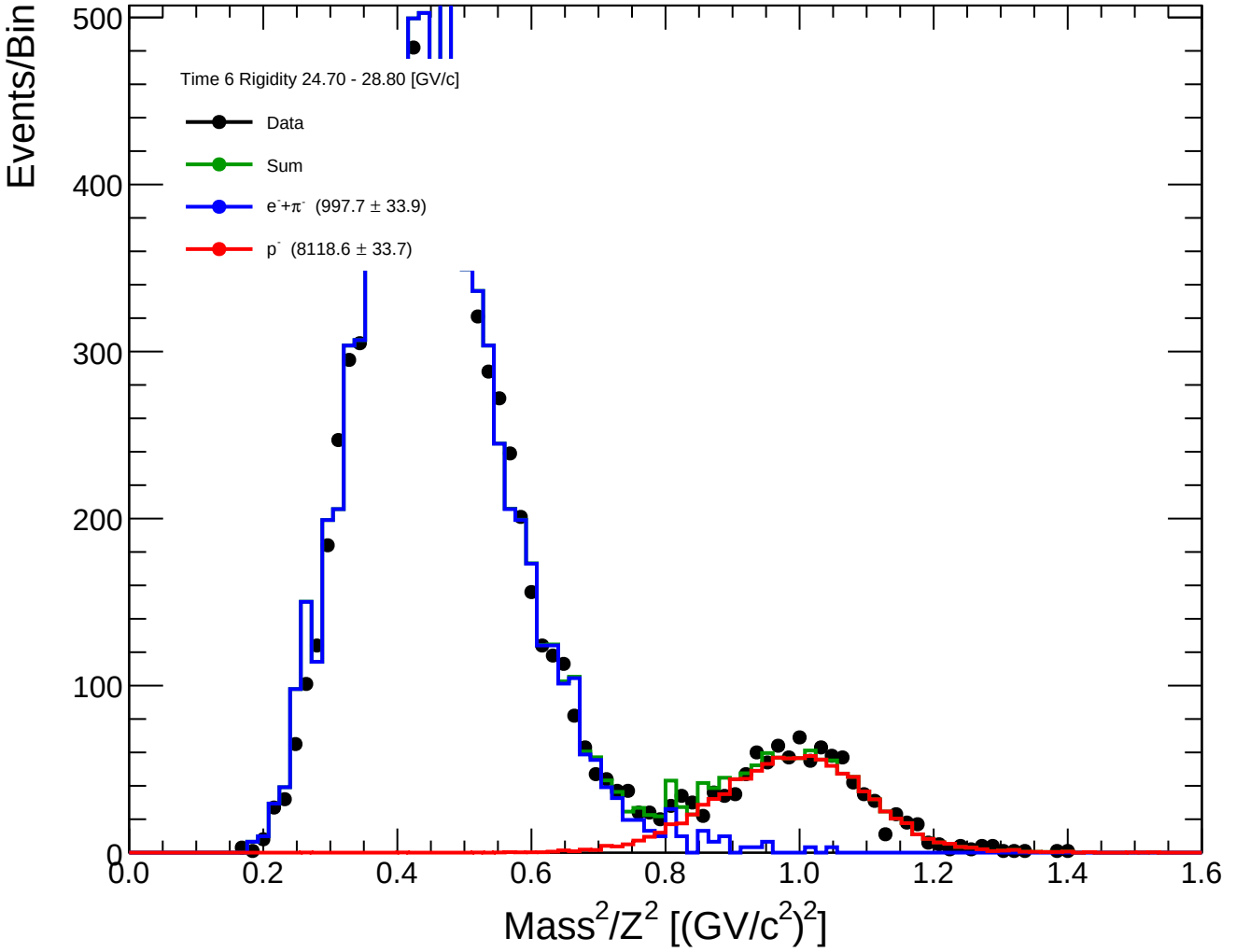

Time 6 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2380.6 ± 48.5)
p⁻ (38422.5 ± 47.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

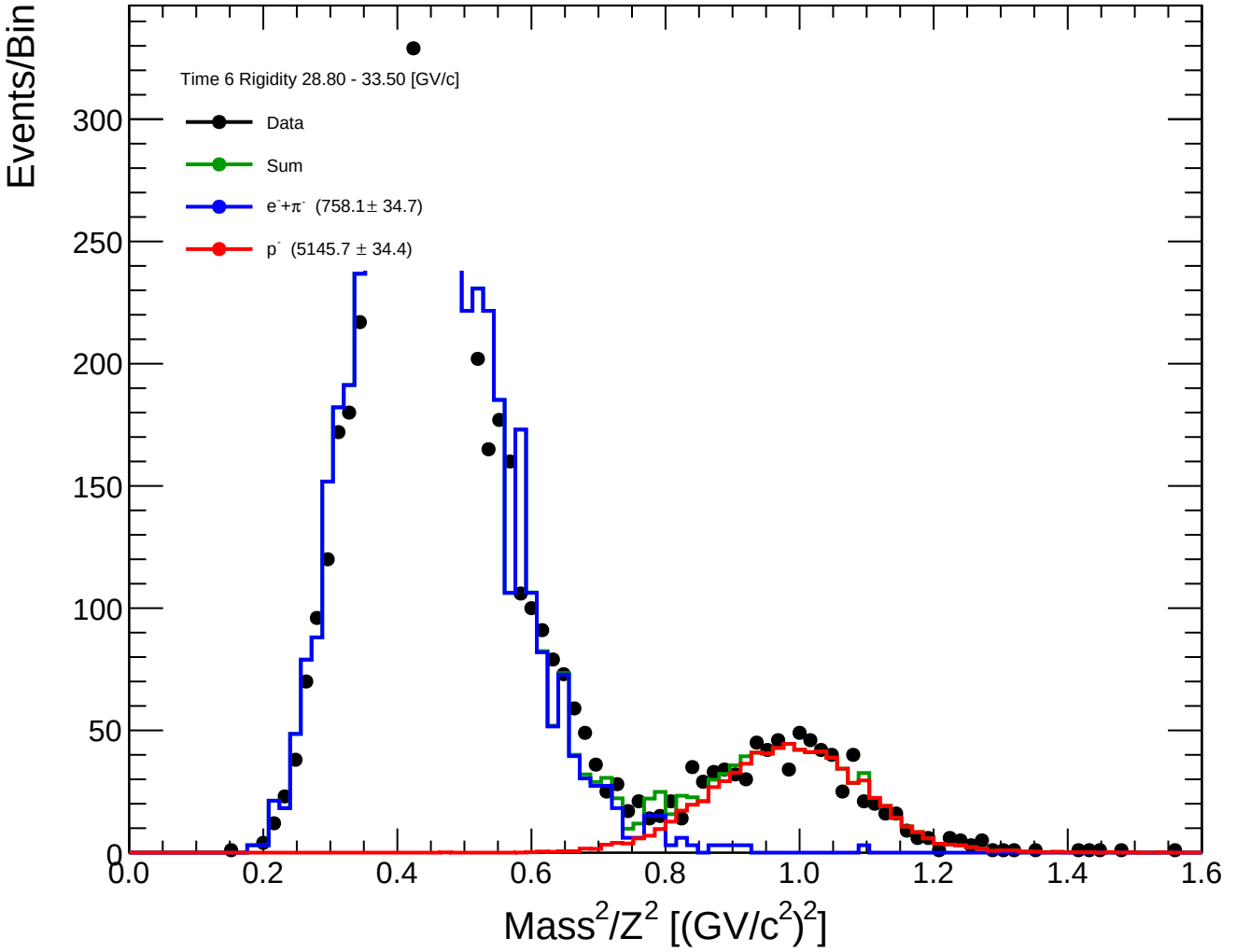

Time 6 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2146.8 ± 53.0)
p⁻ (29120.5 ± 51.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

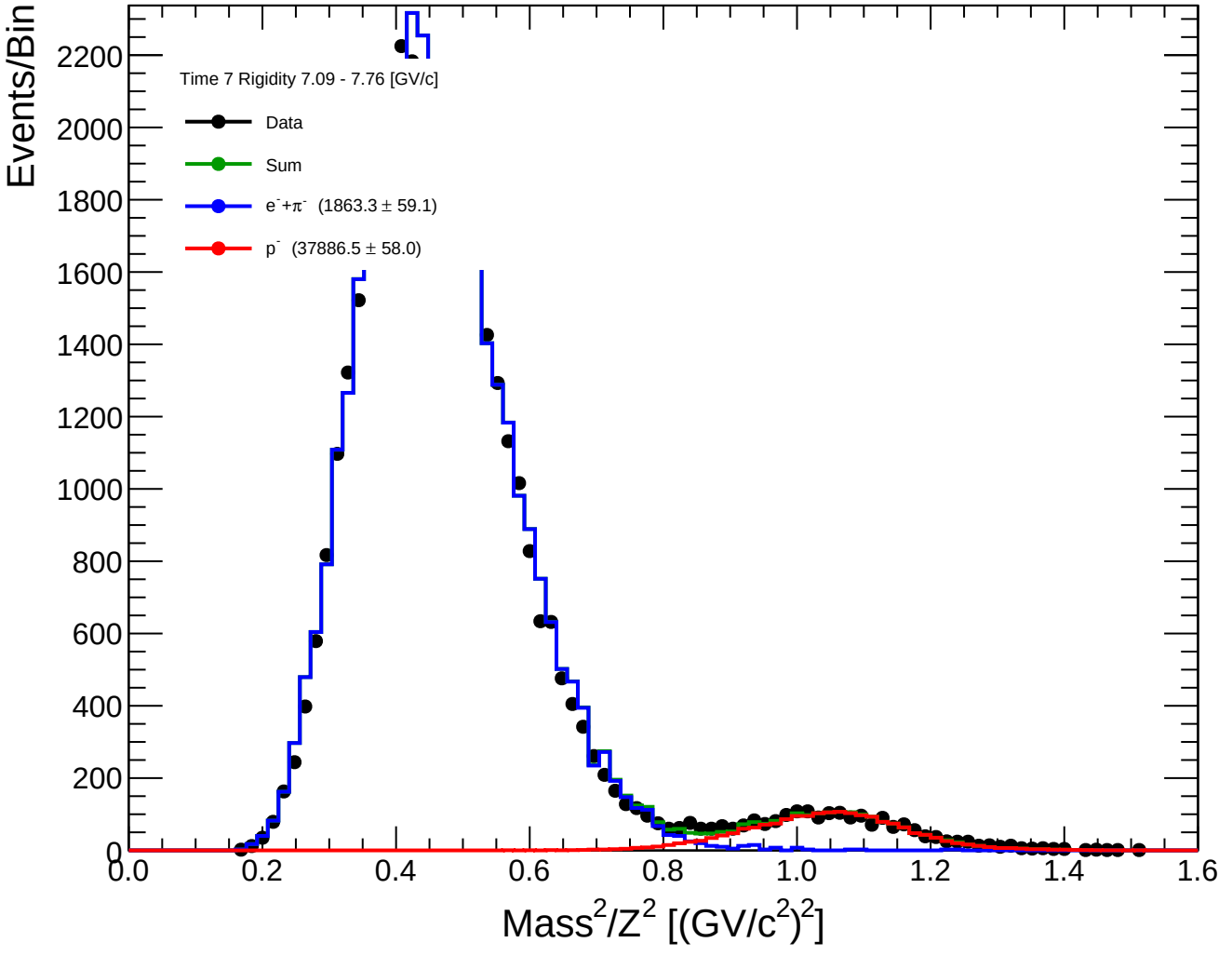

Time 6 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1984.2 ± 51.6)
p⁻ (23449.0 ± 50.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

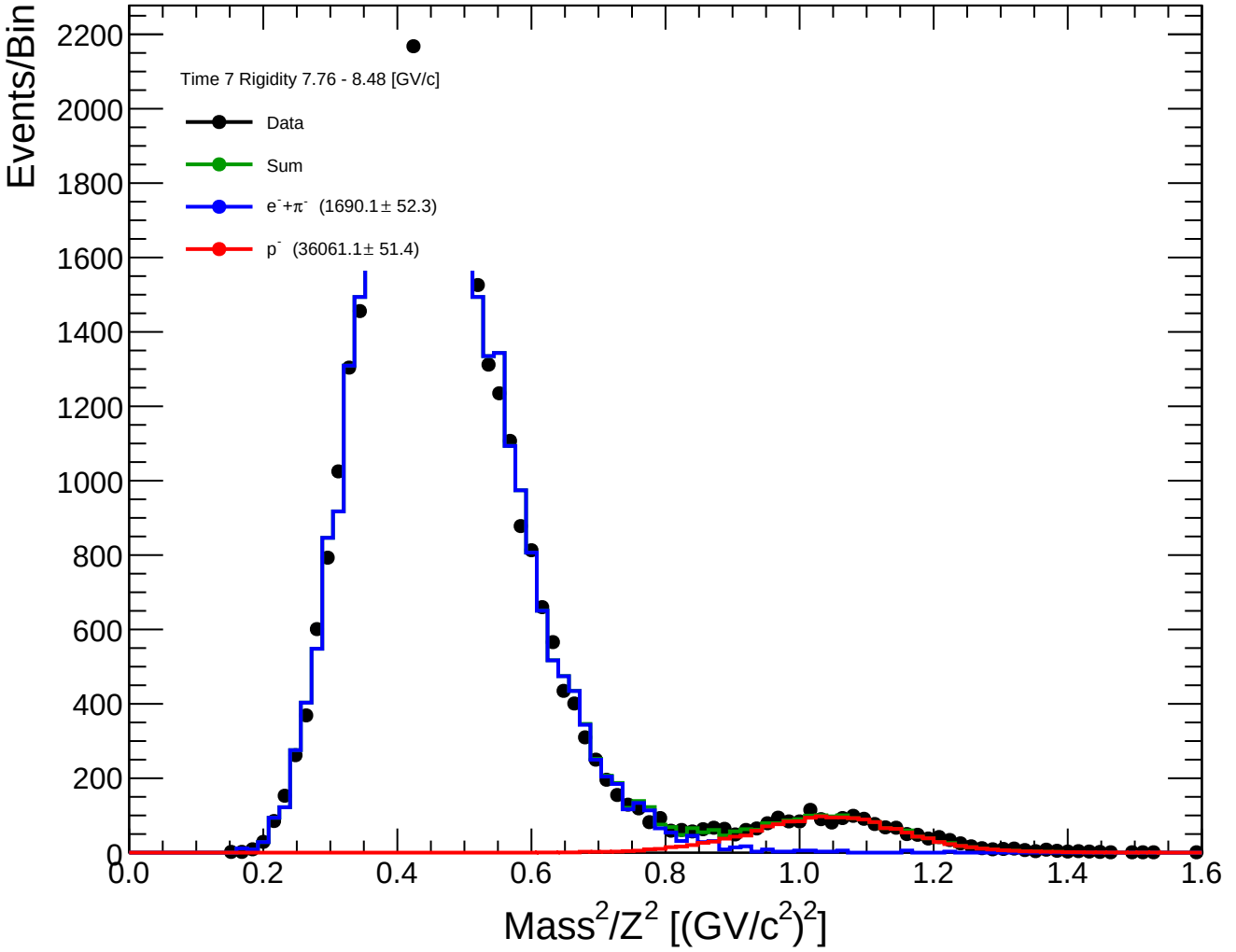

Time 6 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1763.8 ± 41.4)
p⁻ (17989.0 ± 40.8)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

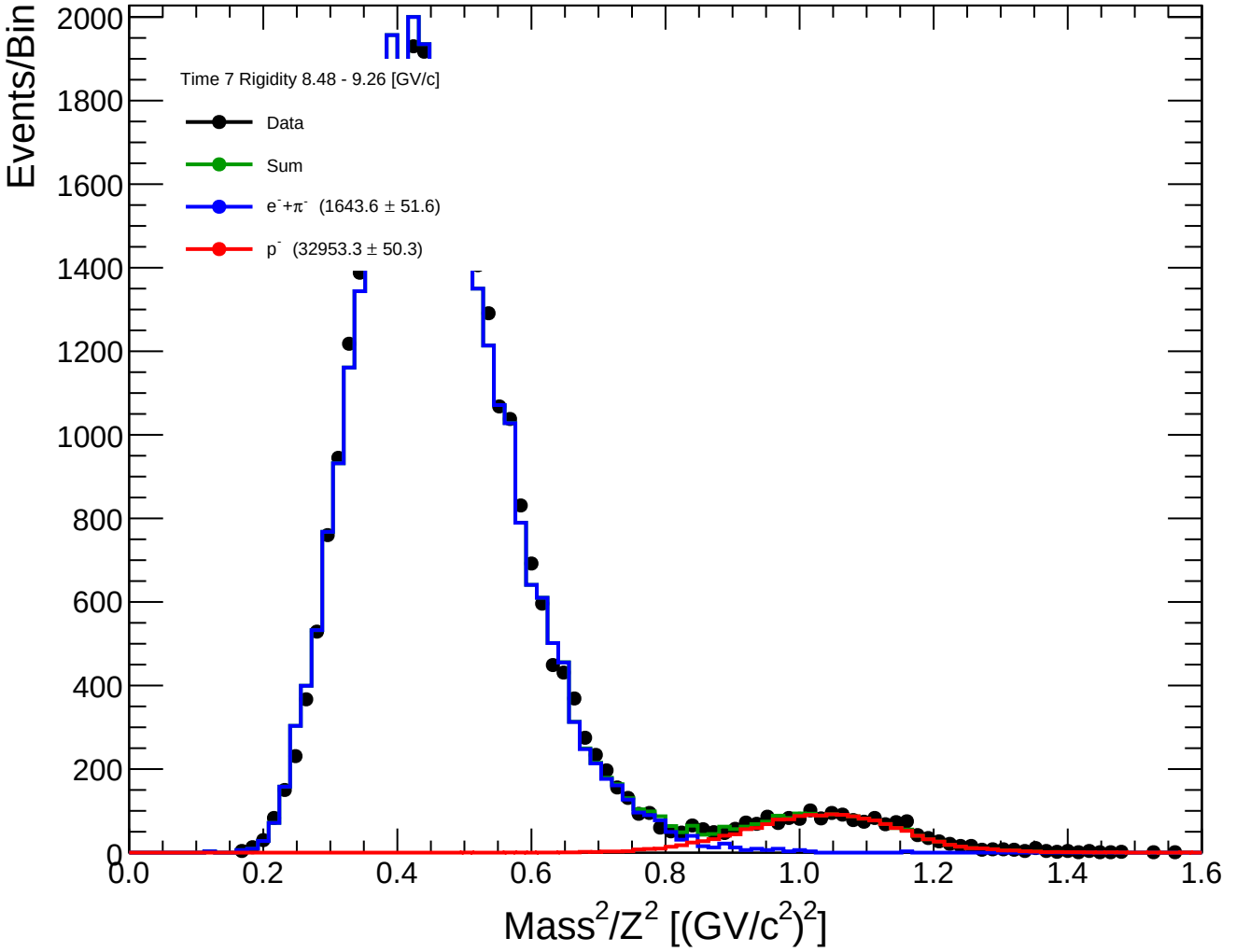

Time 6 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1489.7 ± 41.9)
p⁻ (12678.5 ± 41.1)
Events/Bin
0
100
200
300
400
500
600
700
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

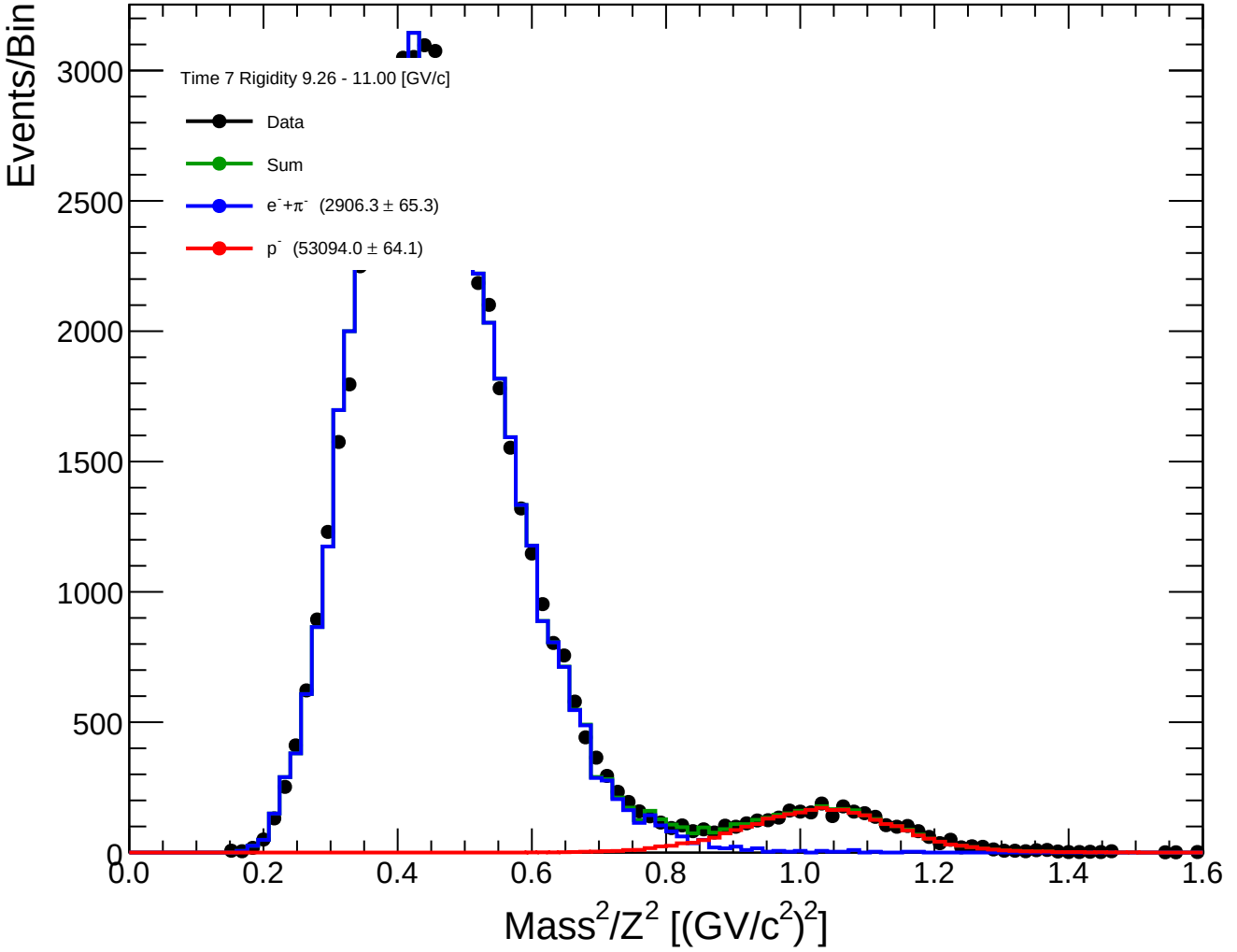

Time 6 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (997.7 ± 33.9)
p⁻ (8118.6 ± 33.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

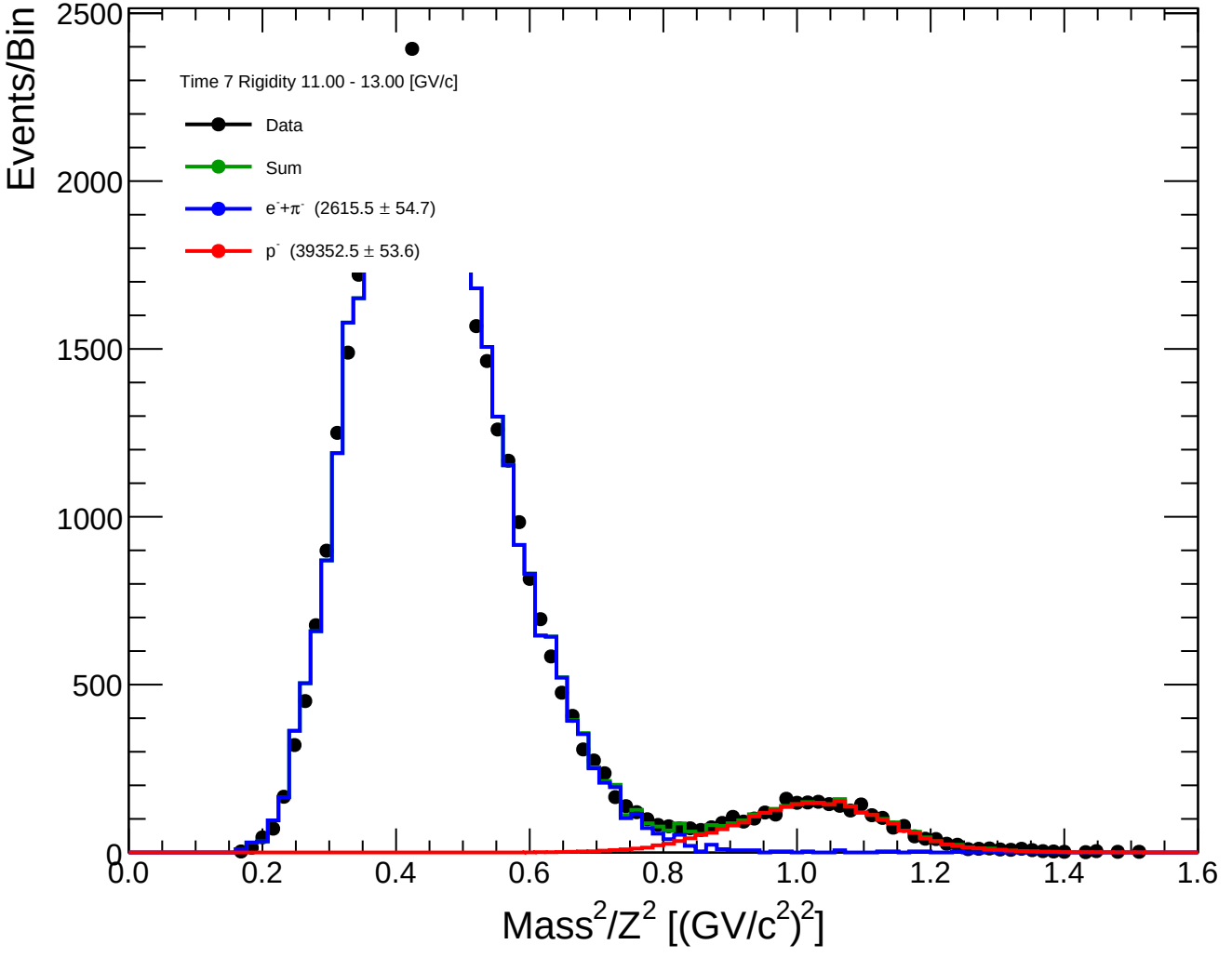

Time 6 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (758.1± 34.7)
p⁻ (5145.7 ± 34.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

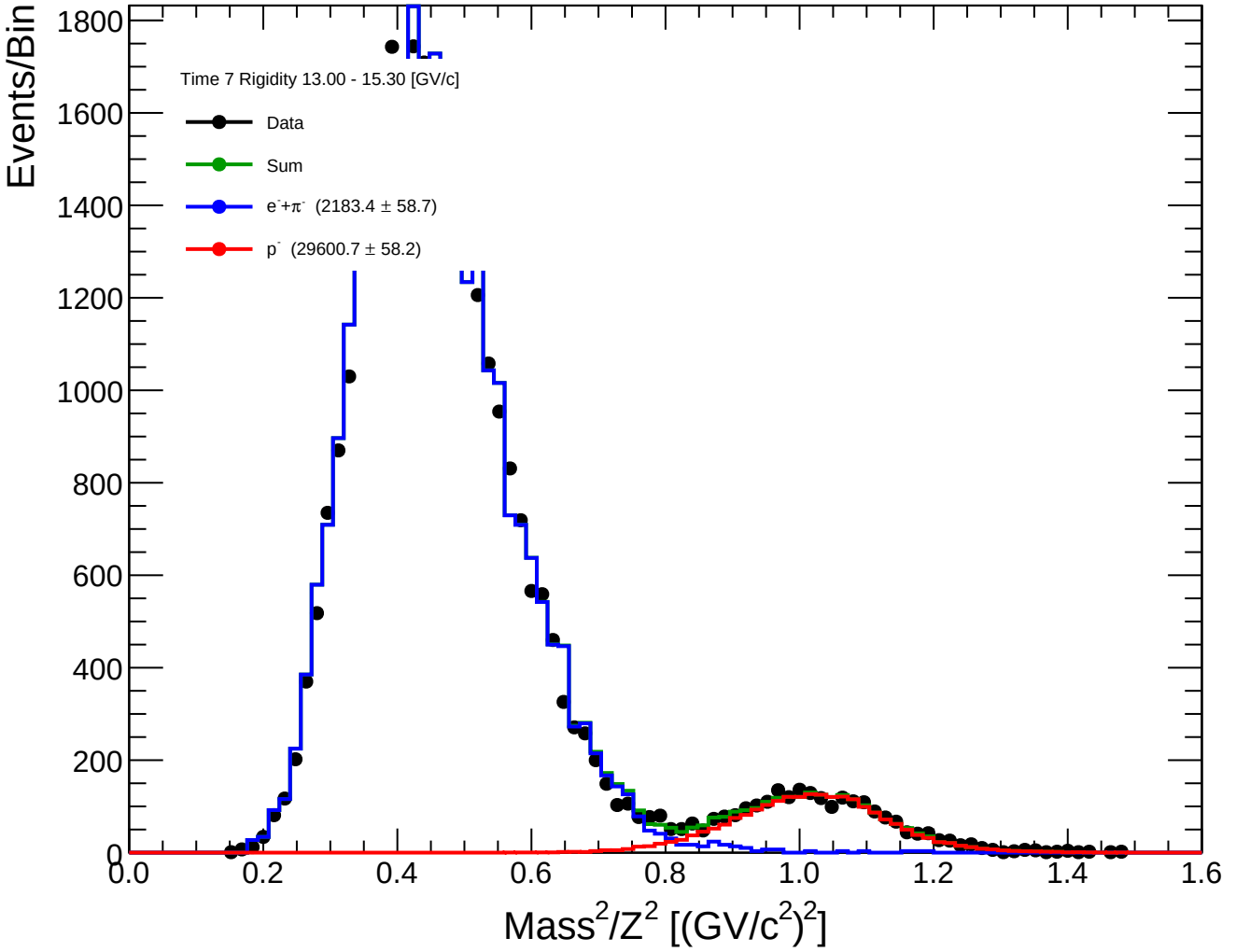

Time 7 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1863.3 ± 59.1)
p⁻ (37886.5 ± 58.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

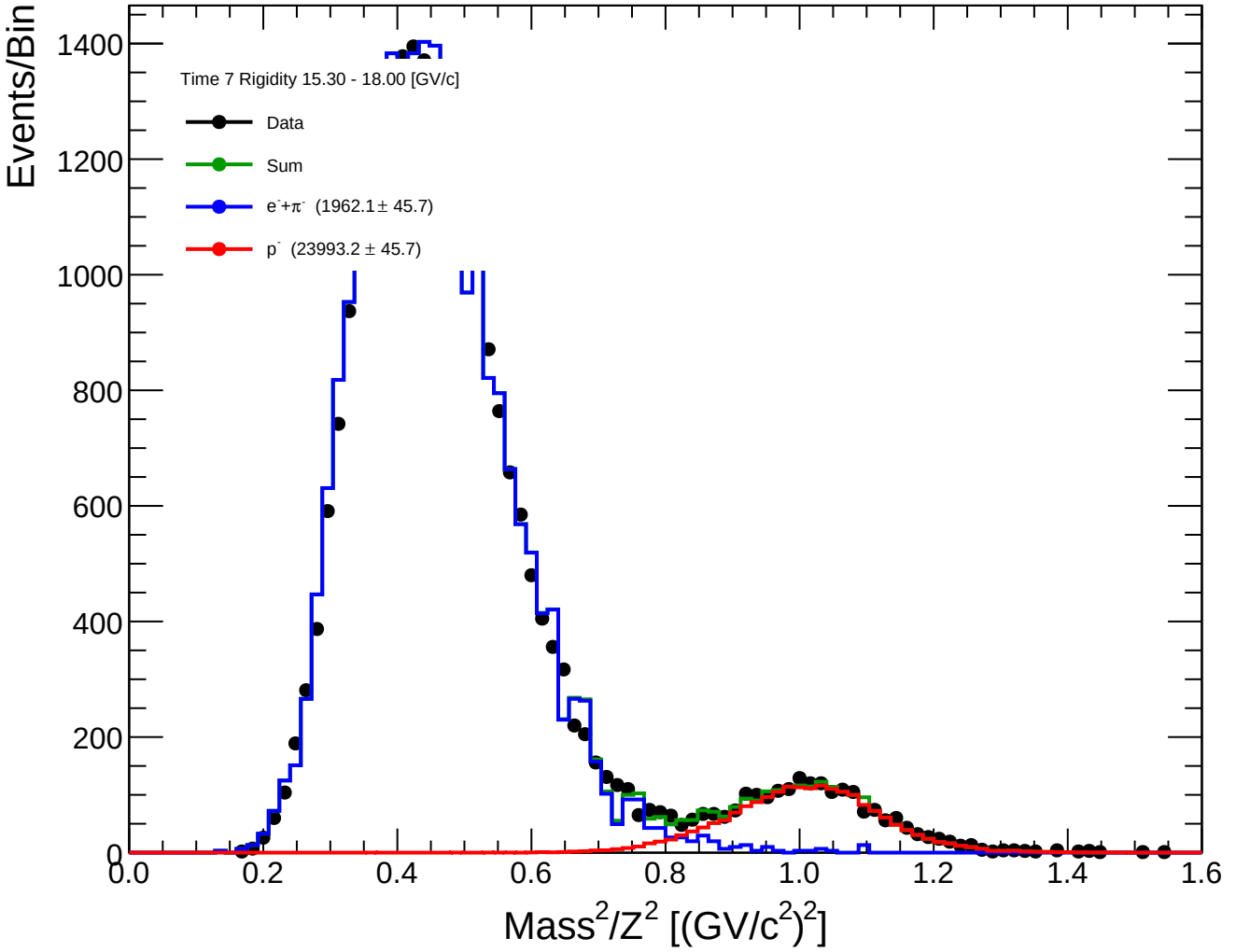

Time 7 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1690.1± 52.3)
p⁻ (36061.1± 51.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

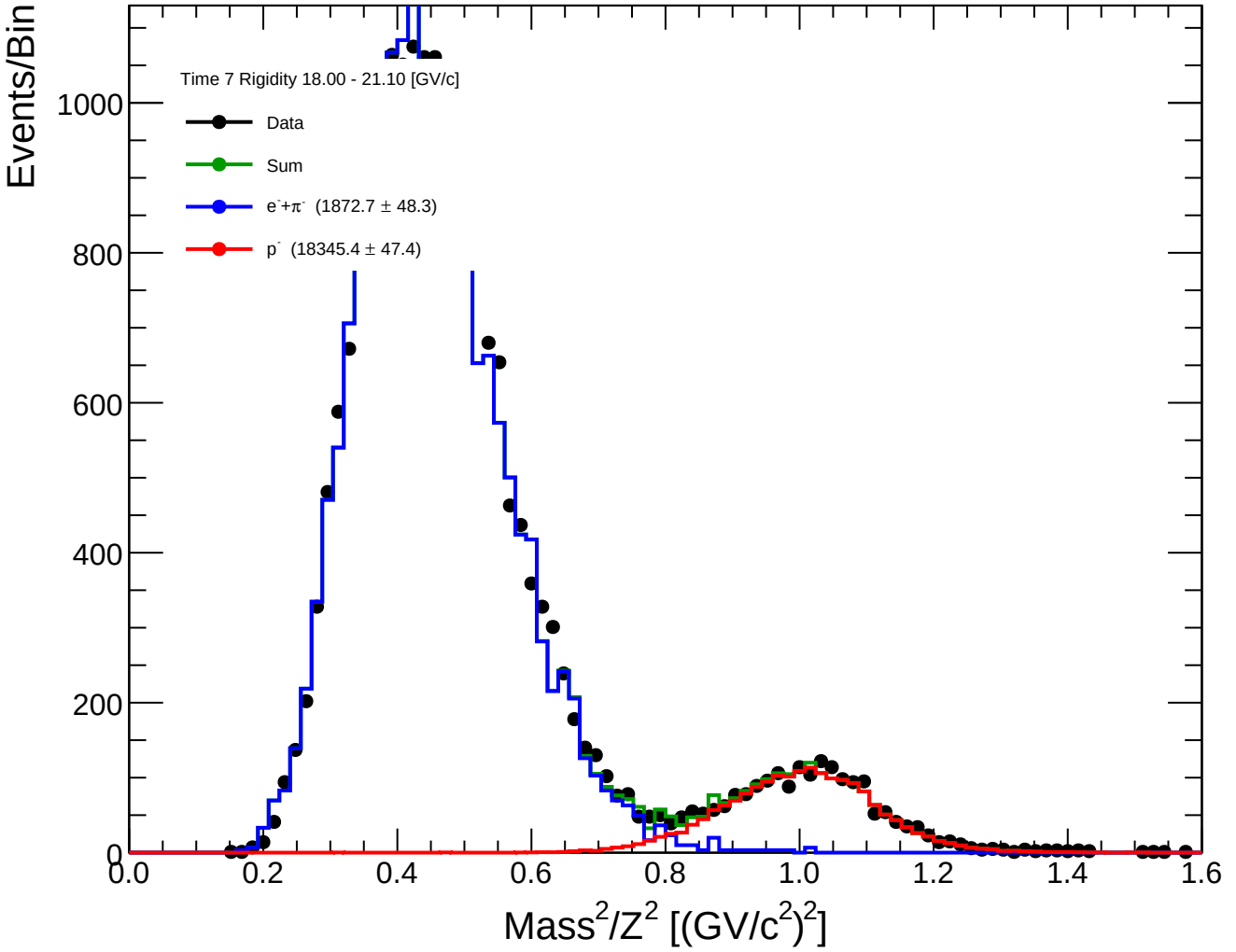

Time 7 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1643.6 ± 51.6)
p⁻ (32953.3 ± 50.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

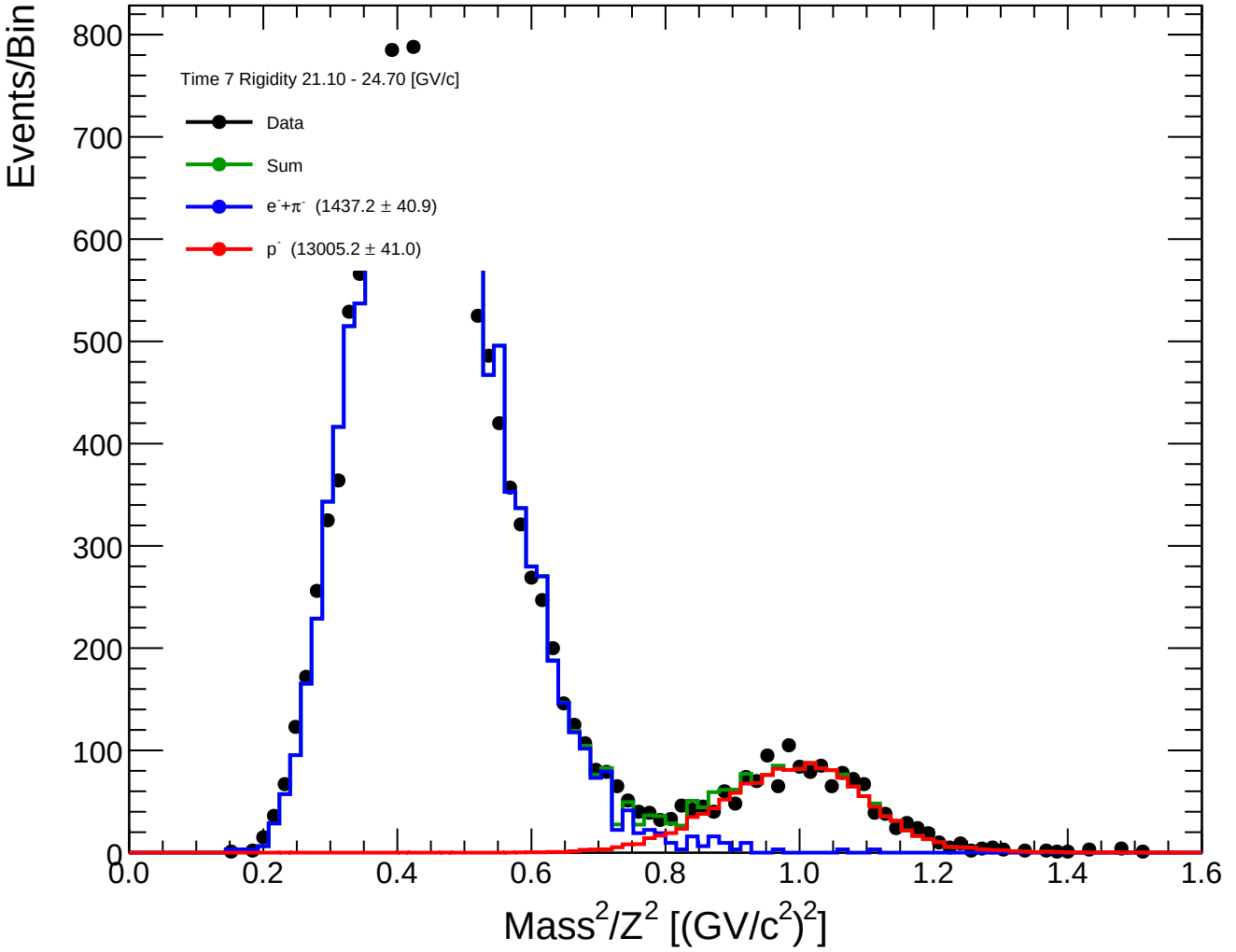

Time 7 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2906.3 ± 65.3)
p⁻ (53094.0 ± 64.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

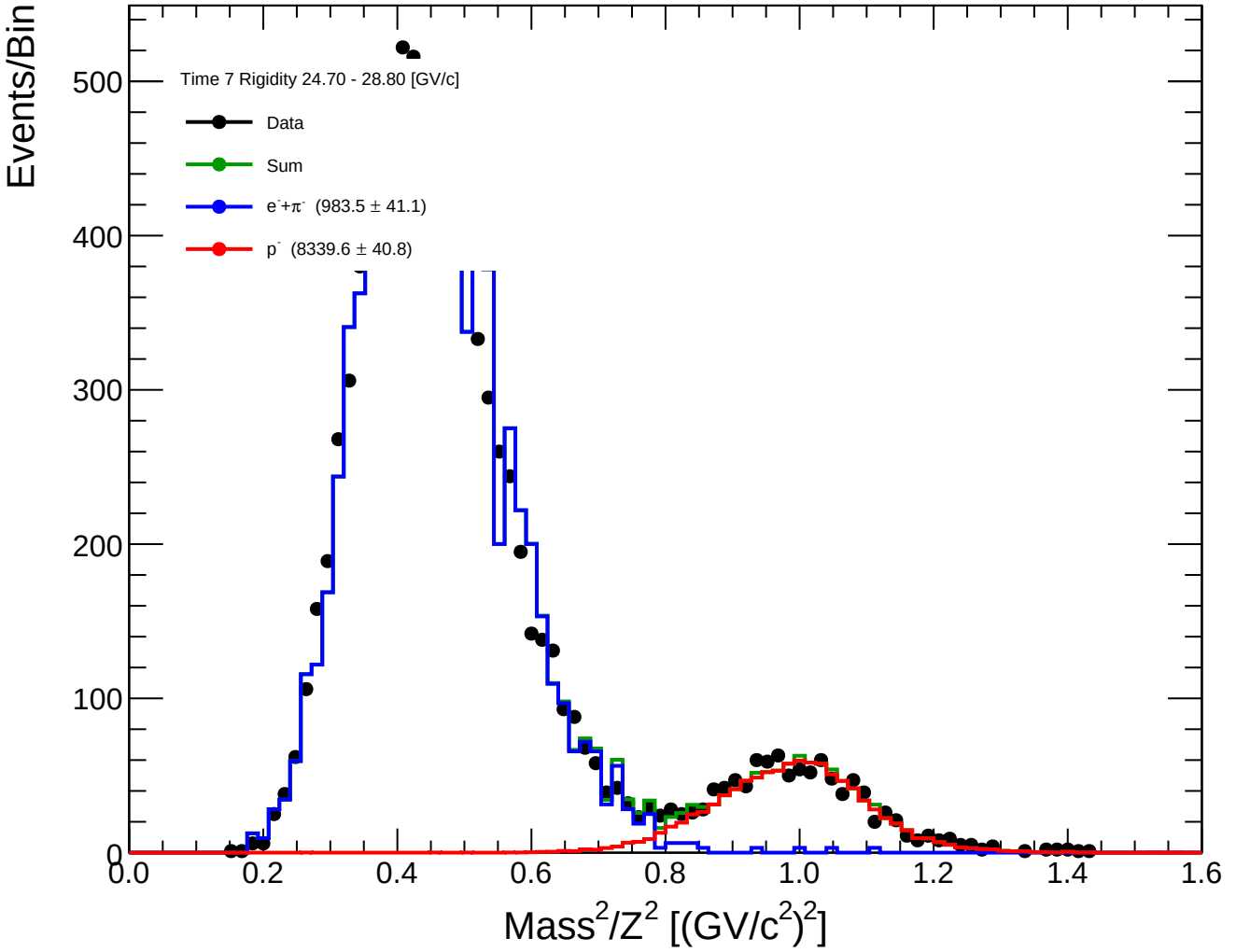

Time 7 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2615.5 ± 54.7)
p⁻ (39352.5 ± 53.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

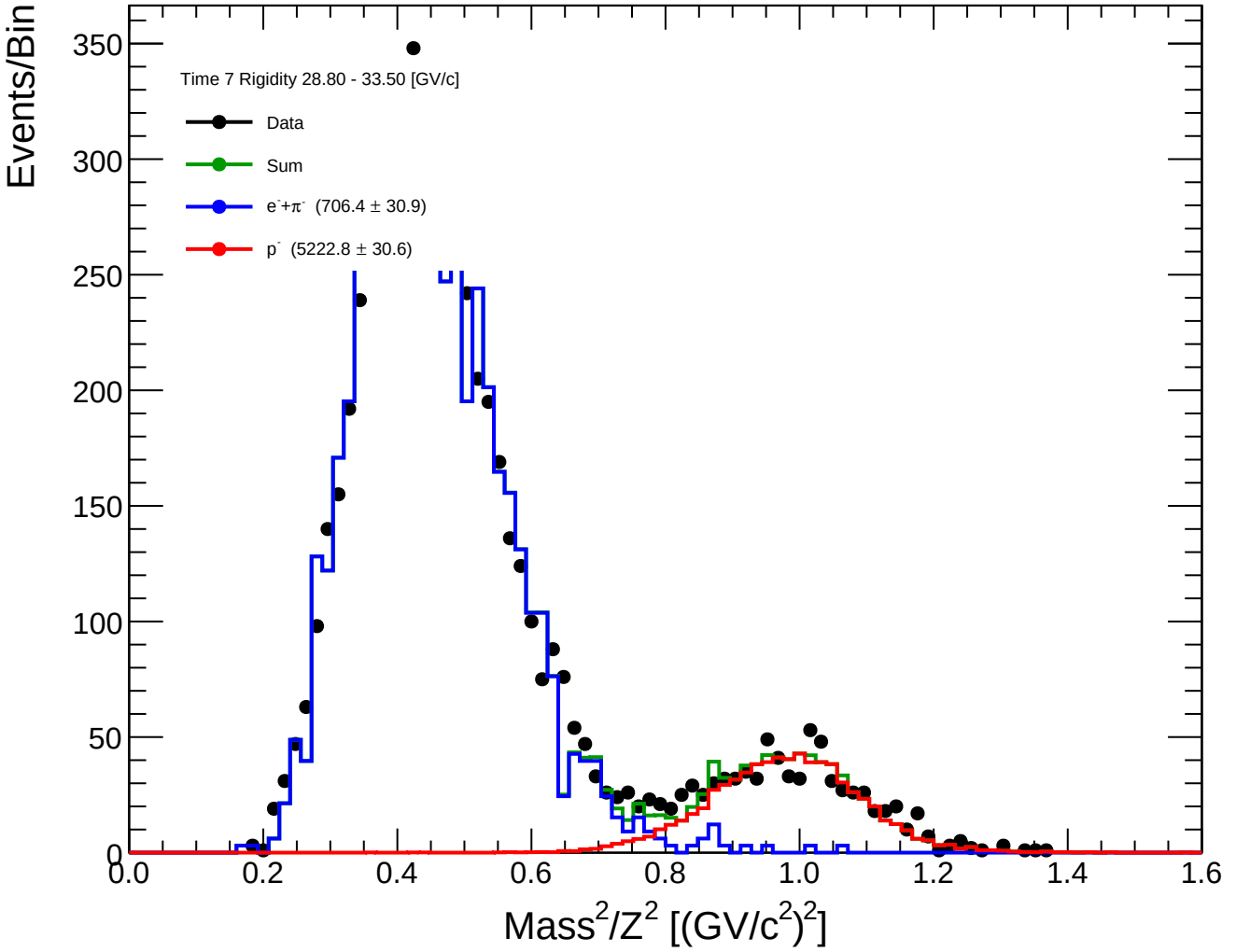

Time 7 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2183.4 ± 58.7)
p⁻ (29600.7 ± 58.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

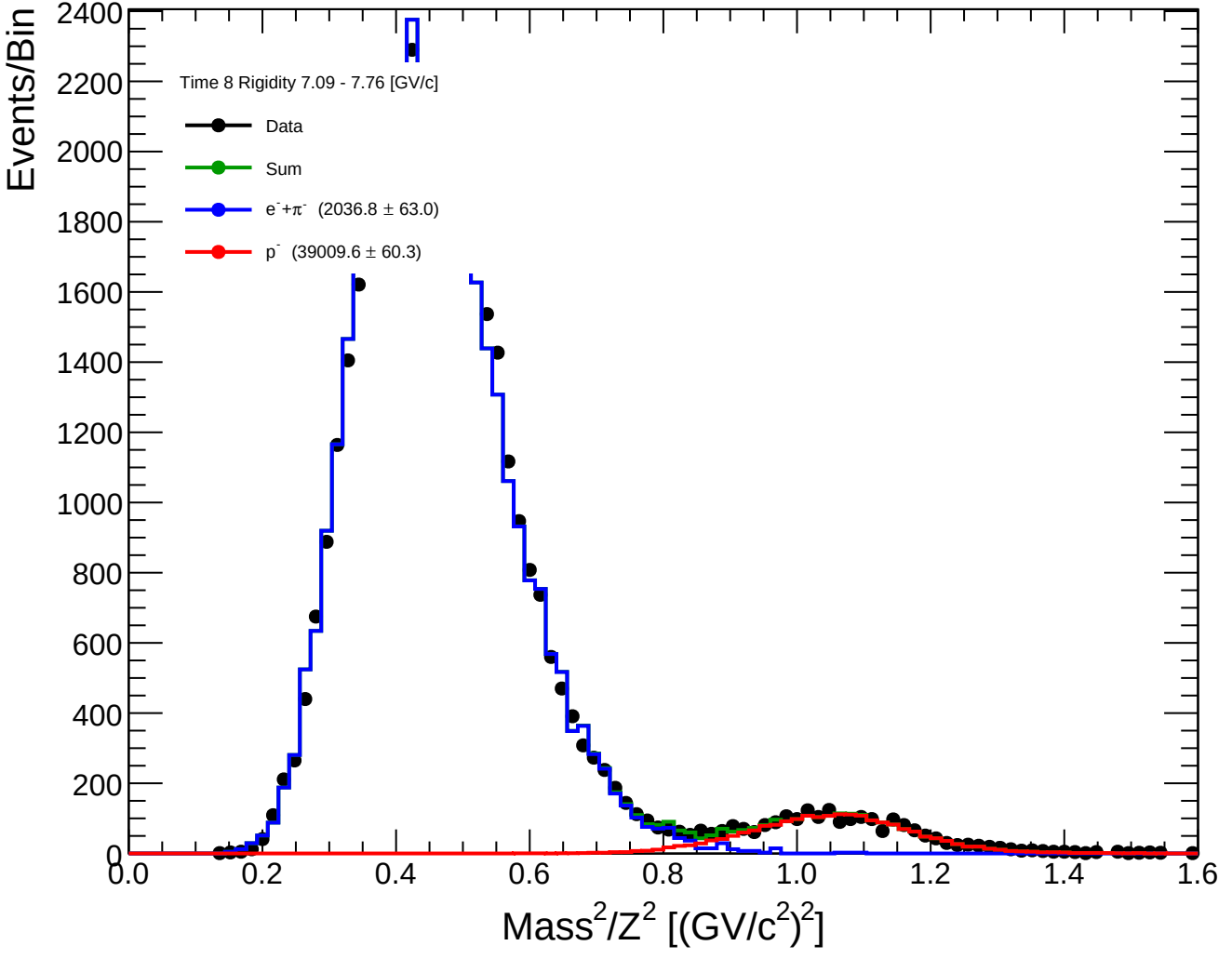

Time 7 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1962.1± 45.7)
p⁻ (23993.2 ± 45.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

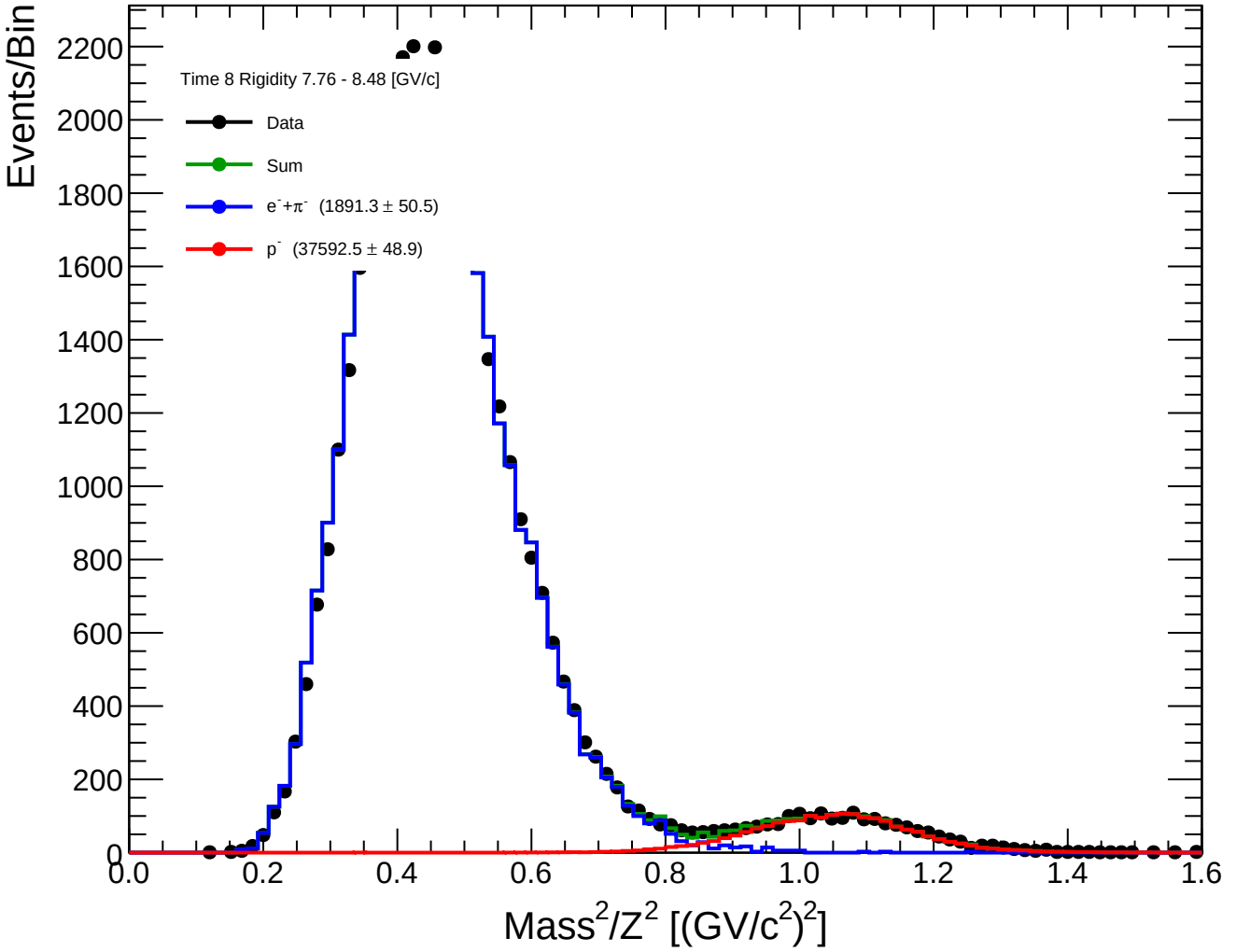

Time 7 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1872.7 ± 48.3)
p⁻ (18345.4 ± 47.4)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

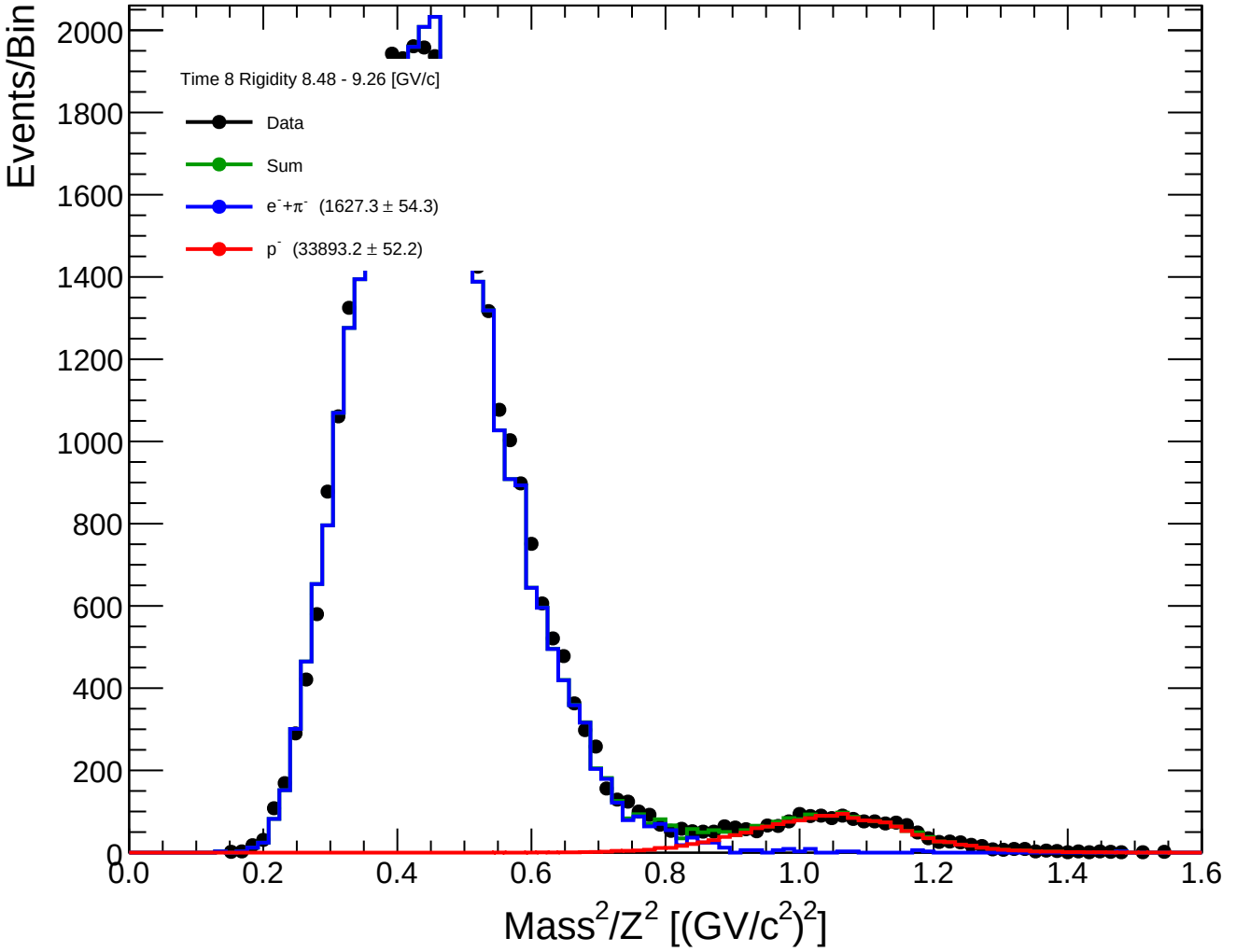

Time 7 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1437.2 ± 40.9)
p⁻ (13005.2 ± 41.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

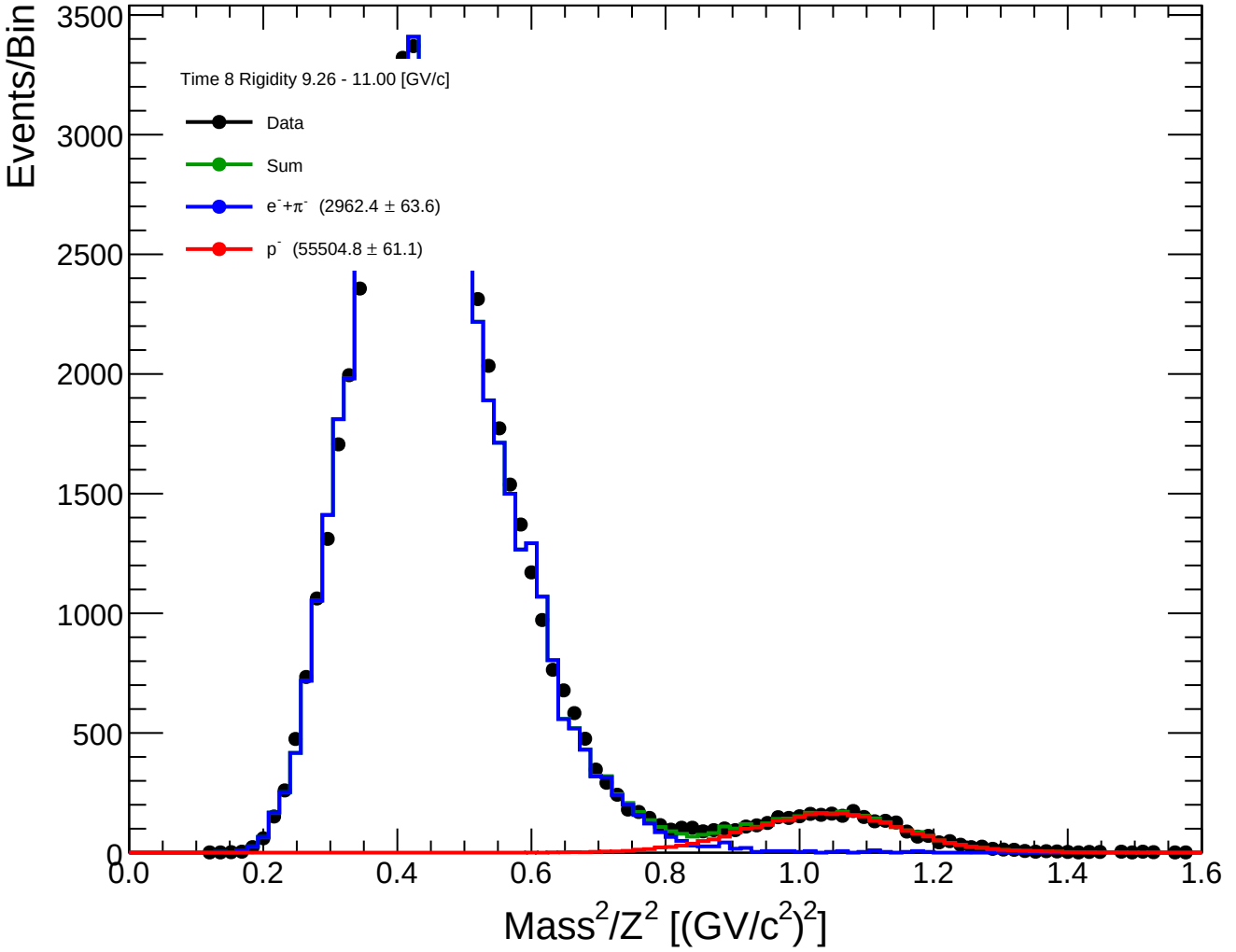

Time 7 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (983.5 ± 41.1)
p⁻ (8339.6 ± 40.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

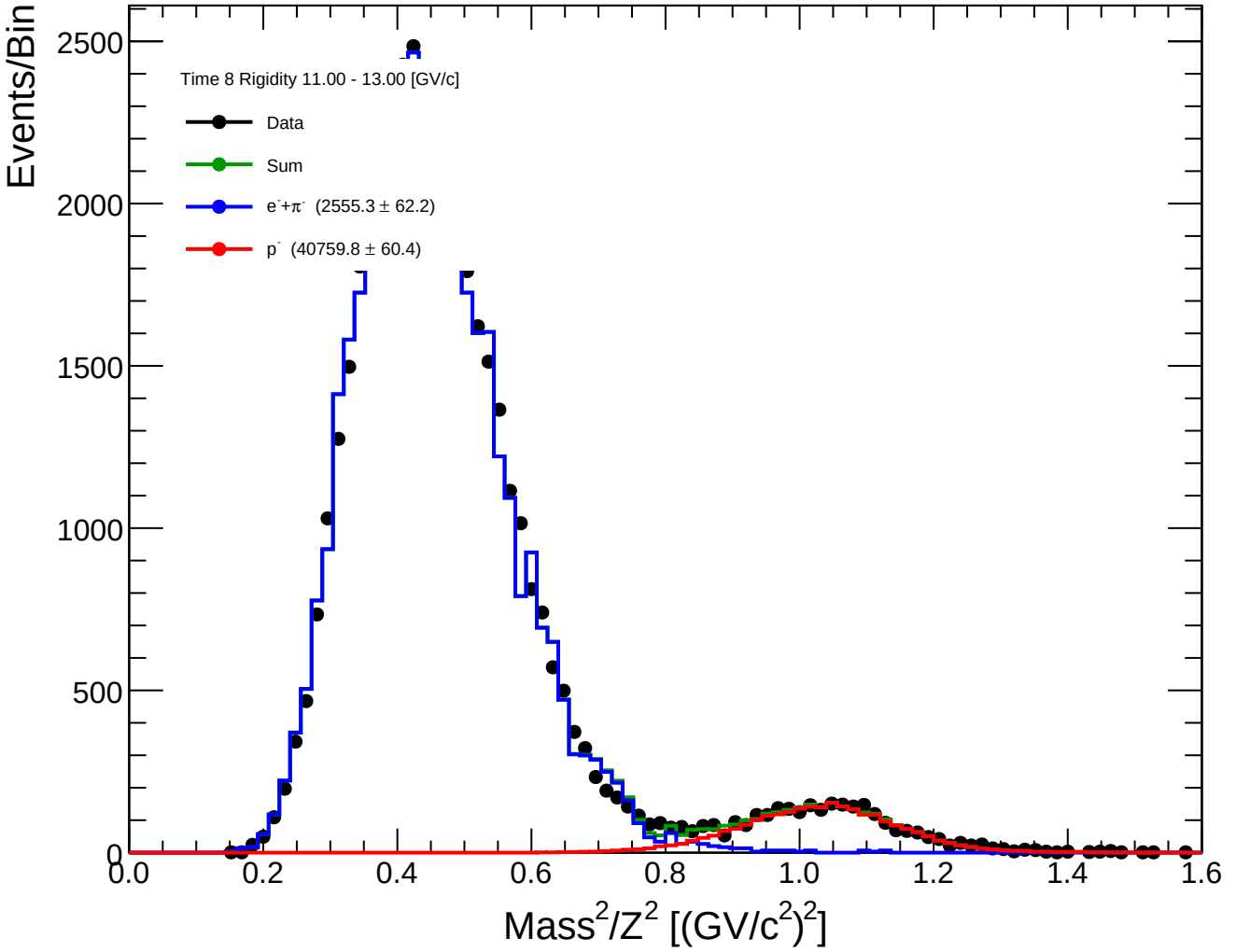

Time 7 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (706.4 ± 30.9)
p⁻ (5222.8 ± 30.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

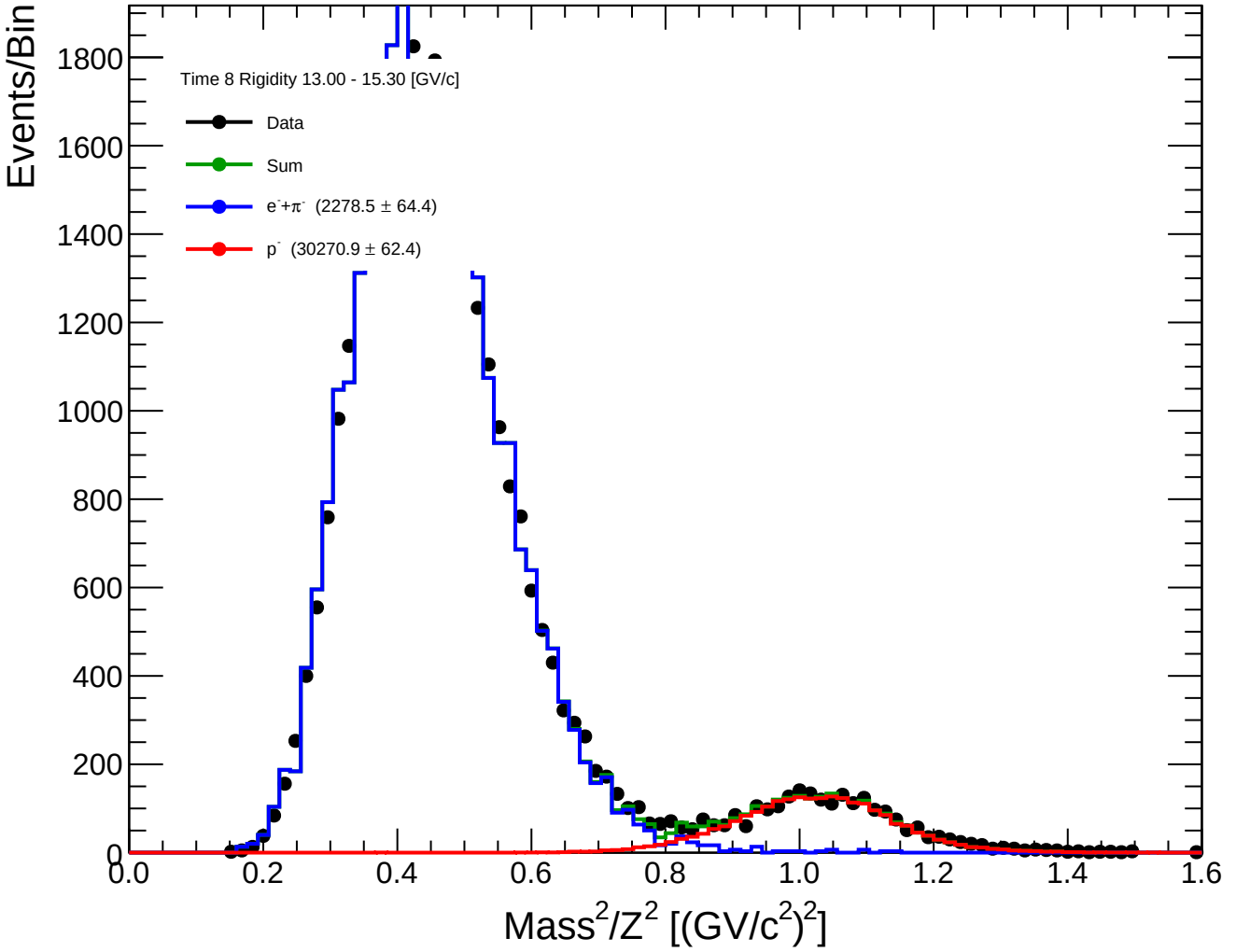

Time 8 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (2036.8 ± 63.0)
p⁻ (39009.6 ± 60.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

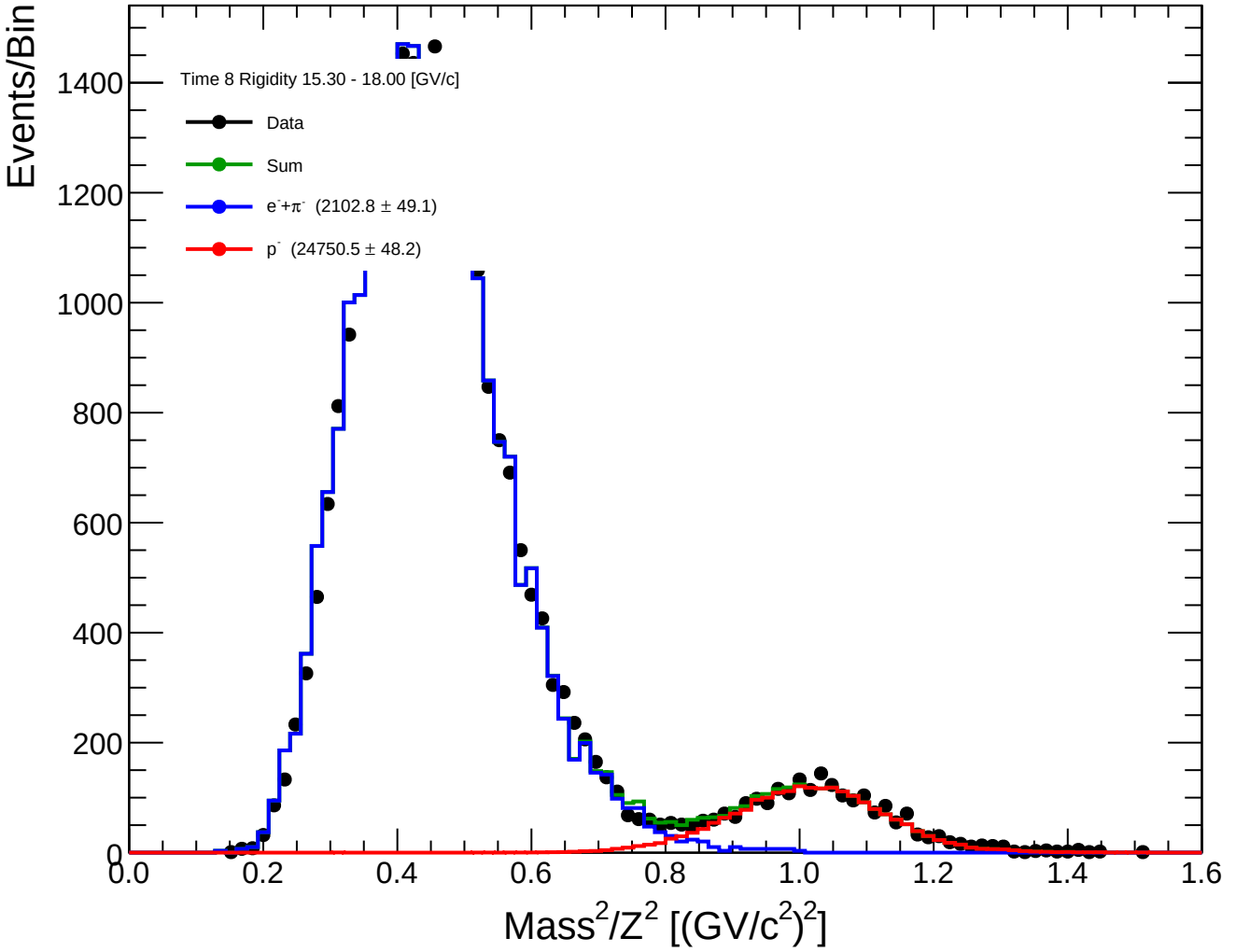

Time 8 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1891.3 ± 50.5)
p⁻ (37592.5 ± 48.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

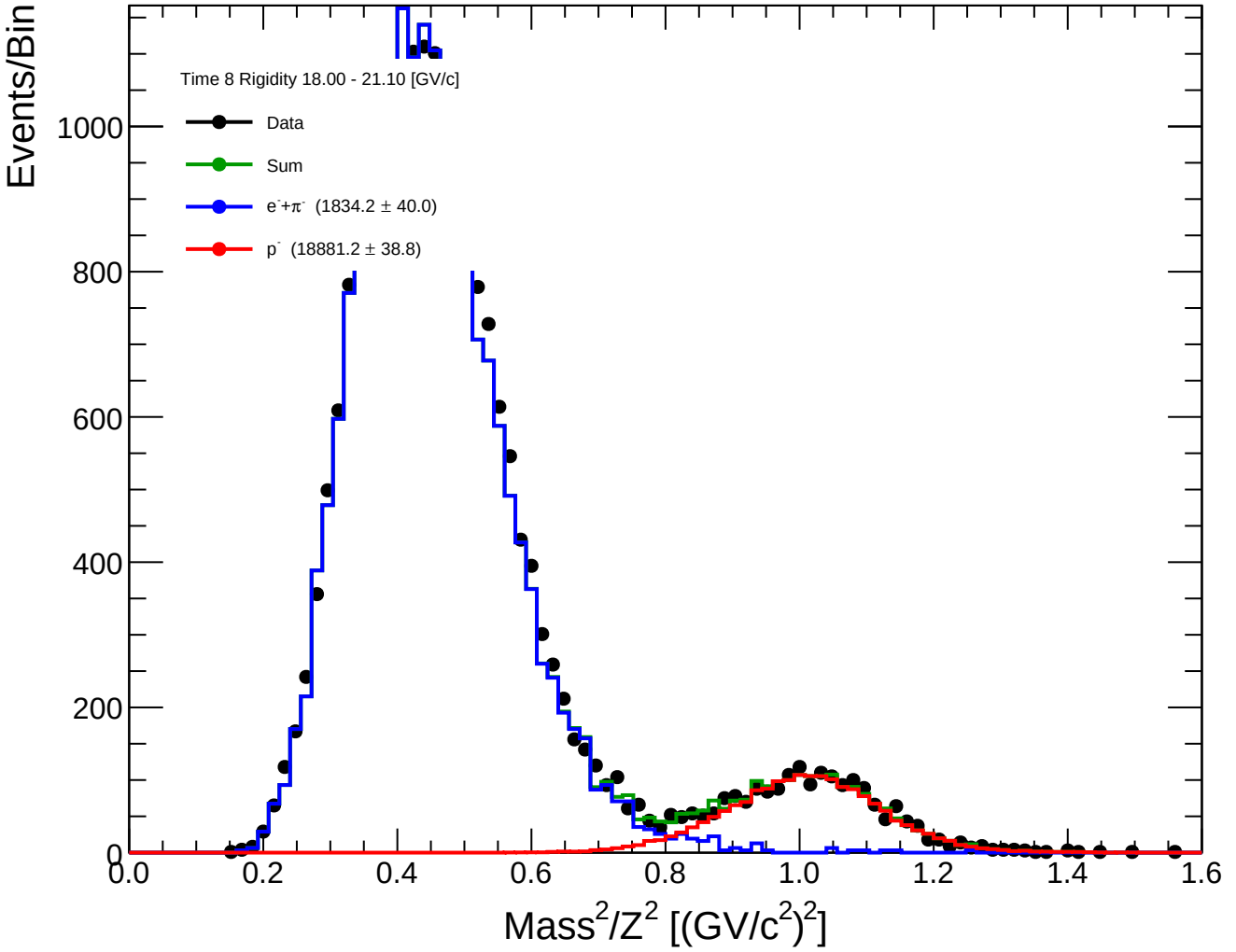

Time 8 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1627.3 ± 54.3)
p⁻ (33893.2 ± 52.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

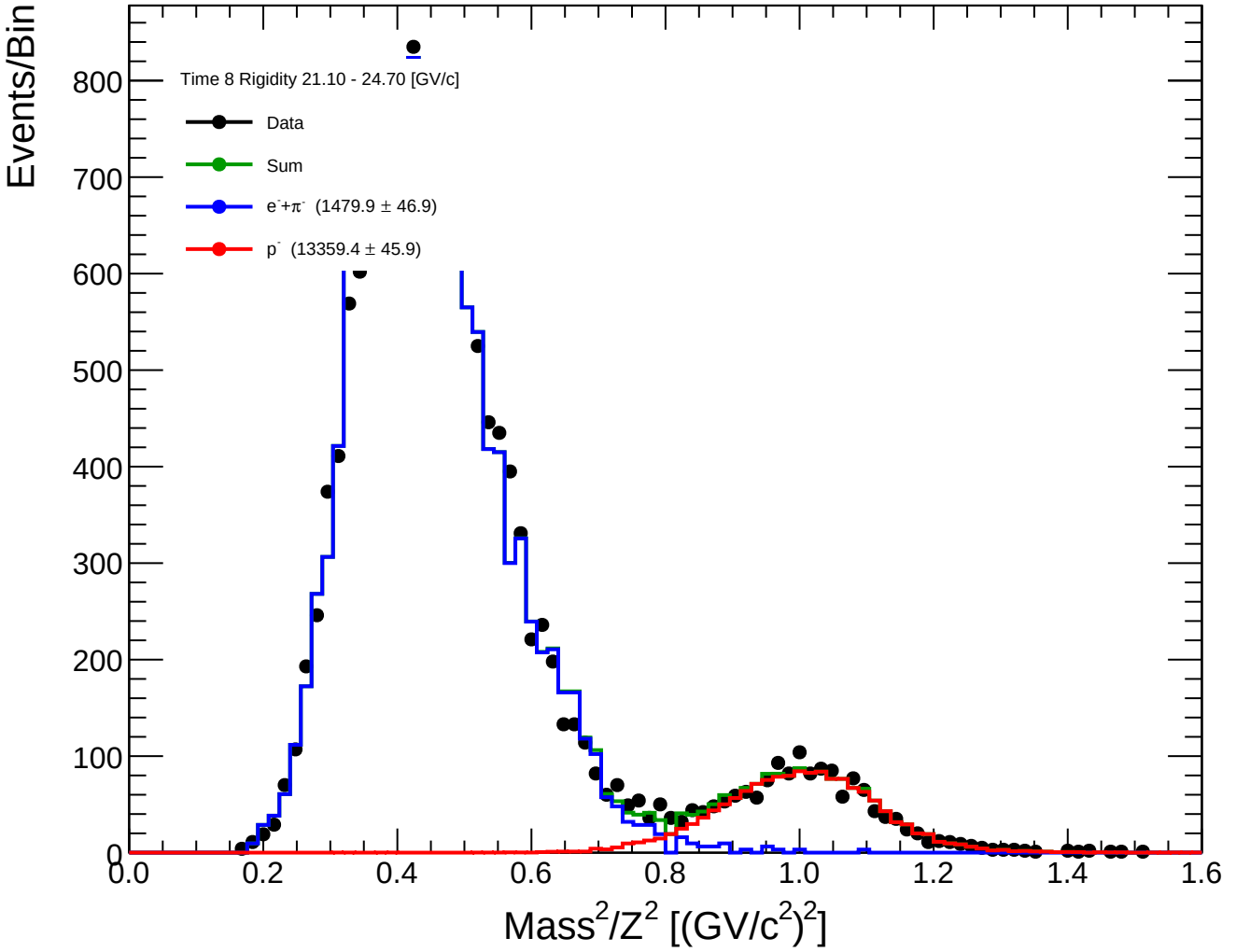

Time 8 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2962.4 ± 63.6)
p⁻ (55504.8 ± 61.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
3500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

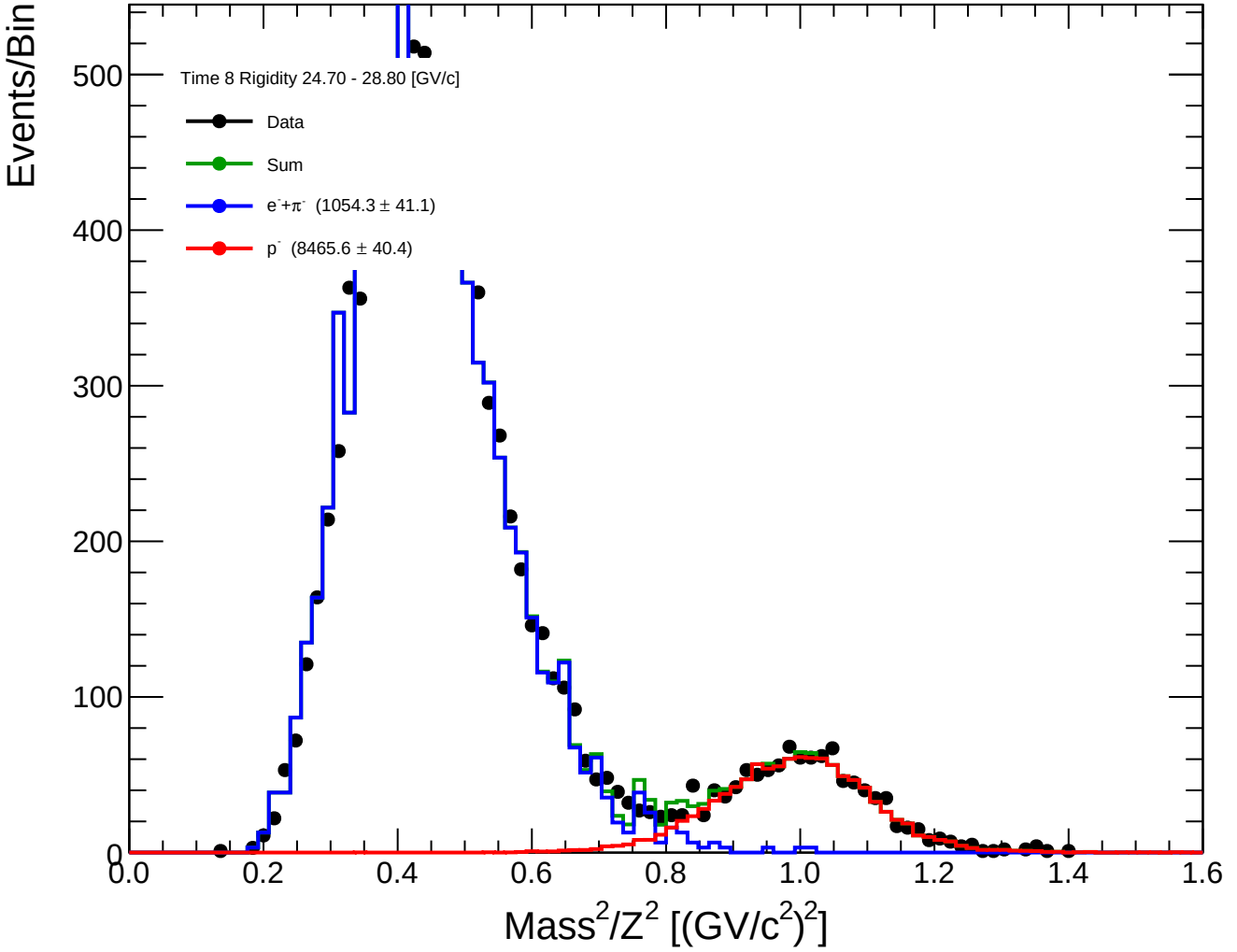

Time 8 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2555.3 ± 62.2)
p⁻ (40759.8 ± 60.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

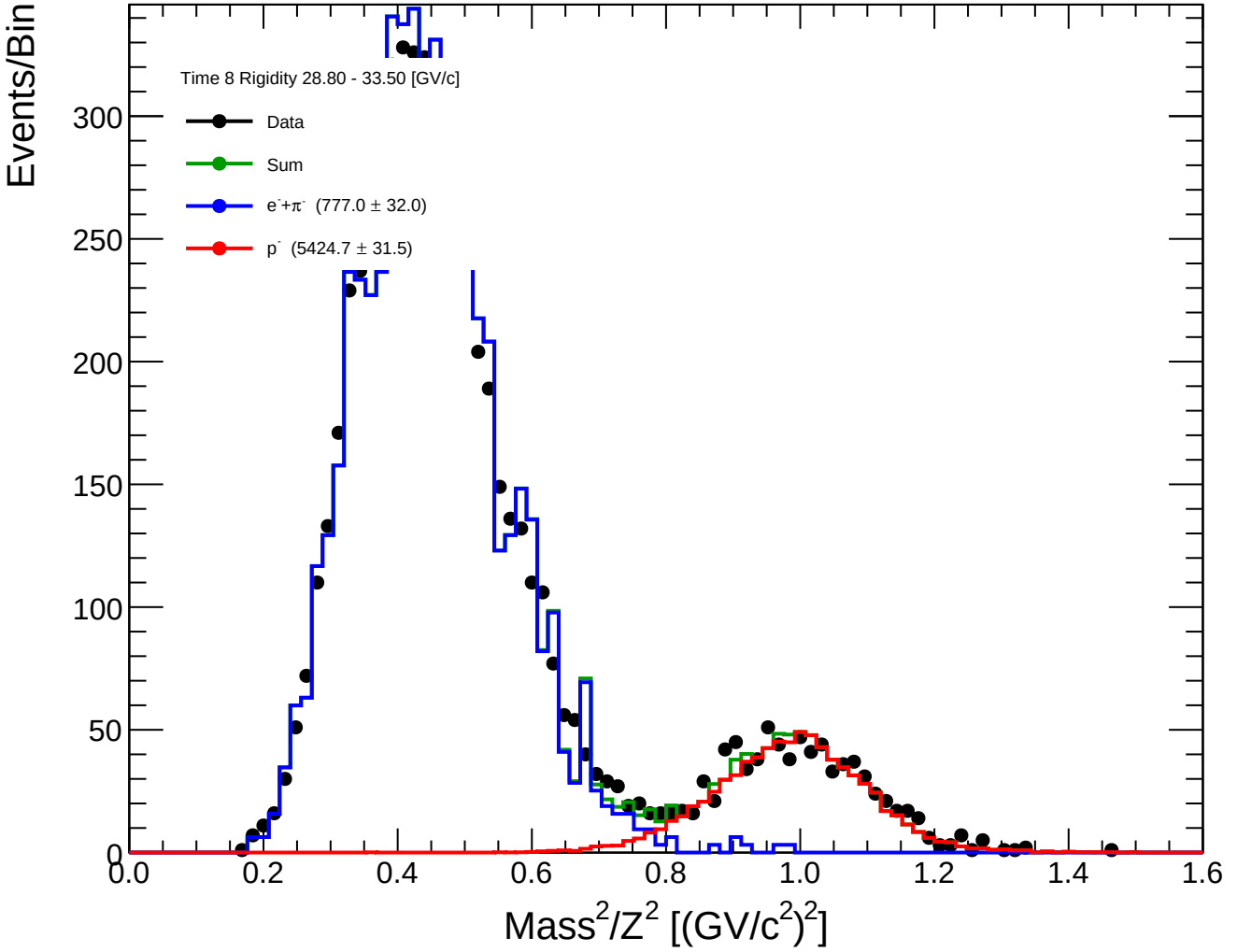

Time 8 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2278.5 ± 64.4)
p⁻ (30270.9 ± 62.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

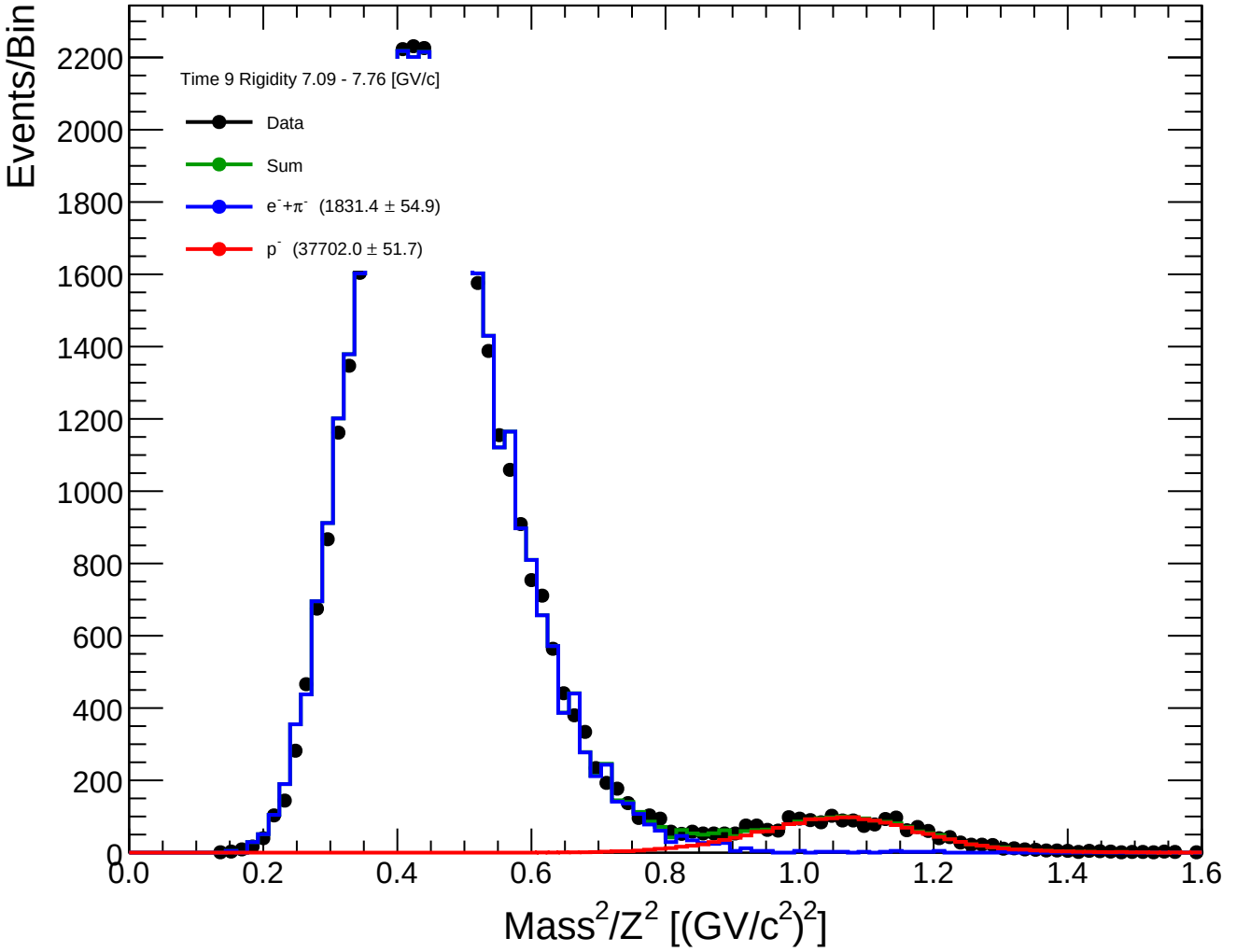

Time 8 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2102.8 ± 49.1)
p⁻ (24750.5 ± 48.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

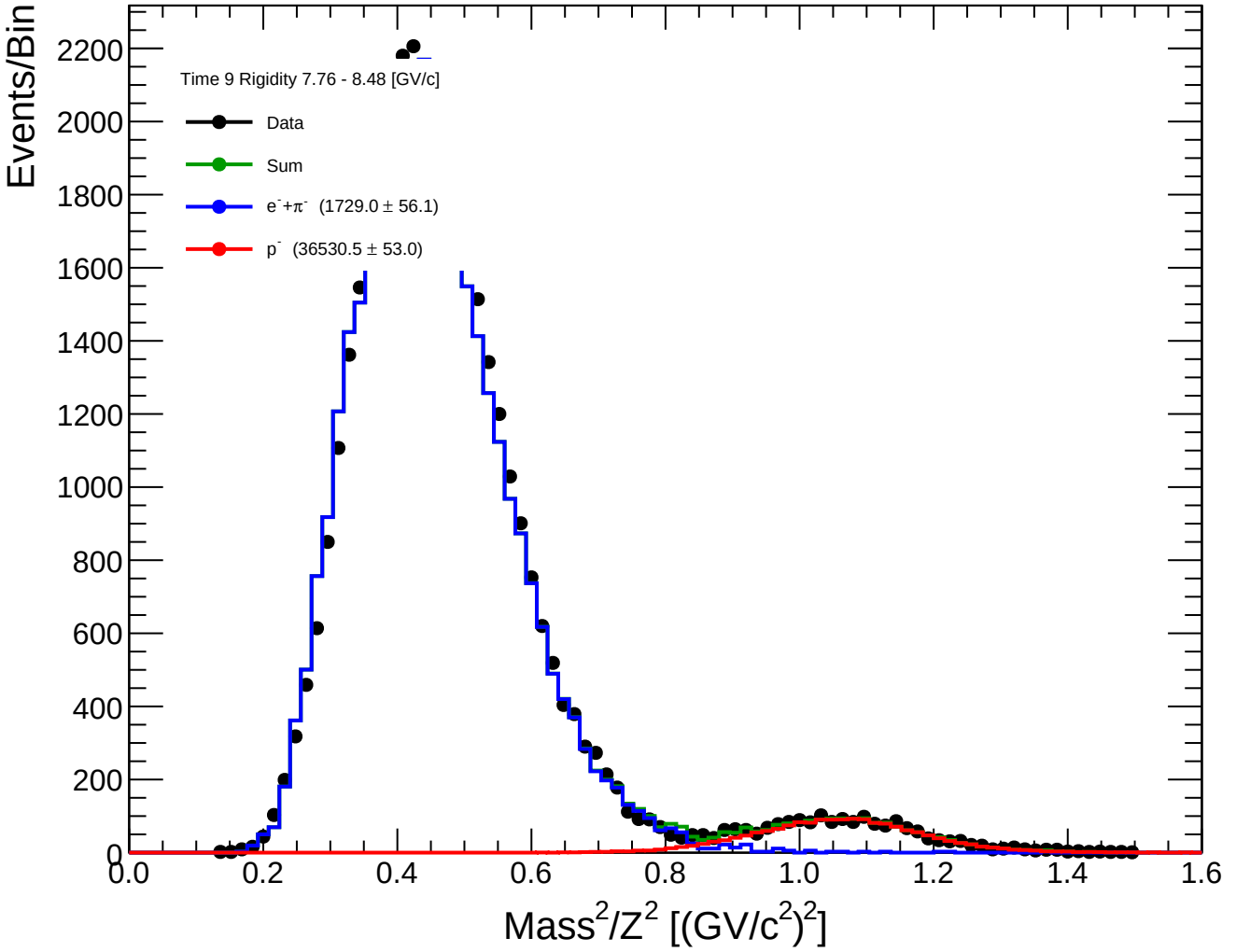

Time 8 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1834.2 ± 40.0)
p⁻ (18881.2 ± 38.8)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

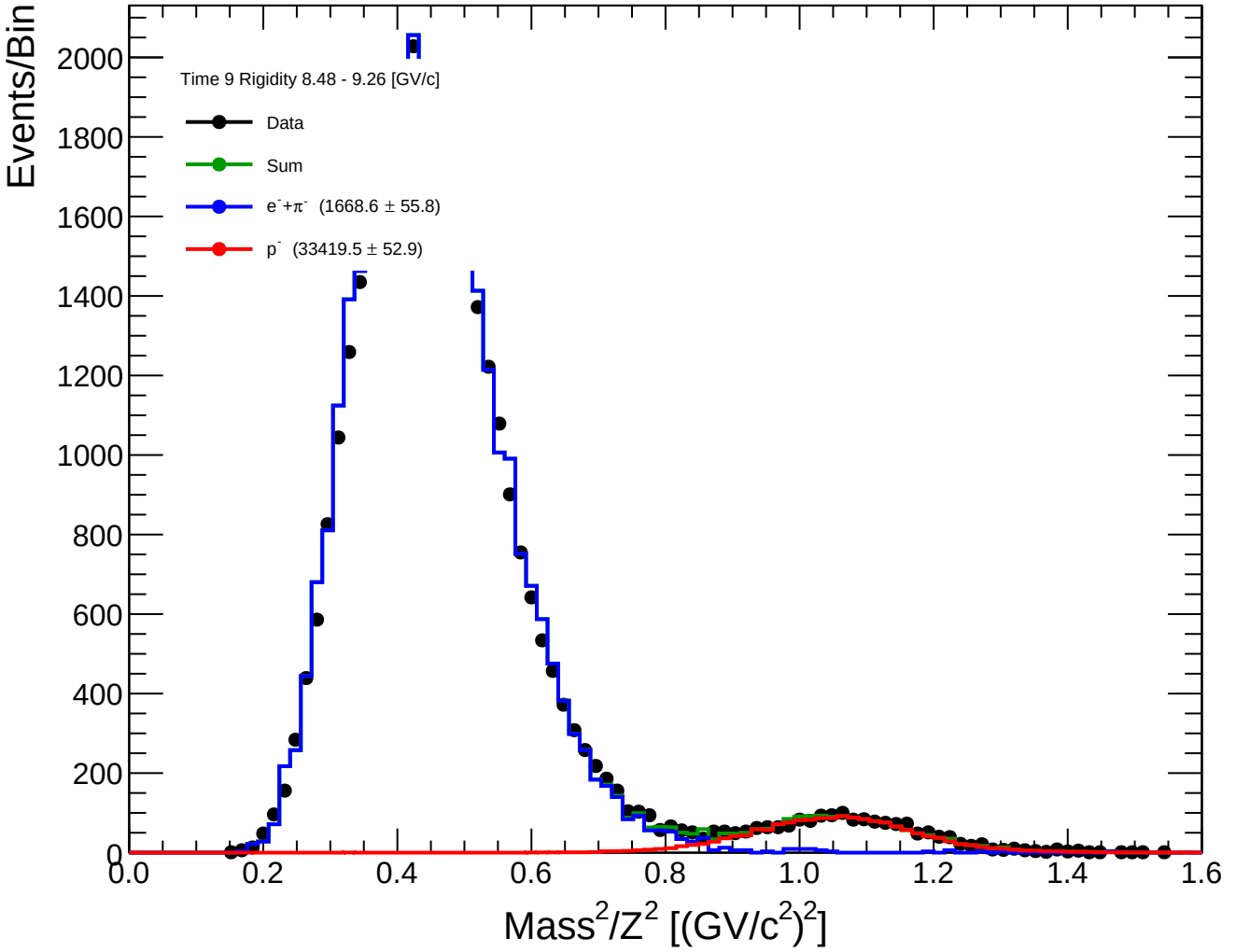

Time 8 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1479.9 ± 46.9)
p⁻ (13359.4 ± 45.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

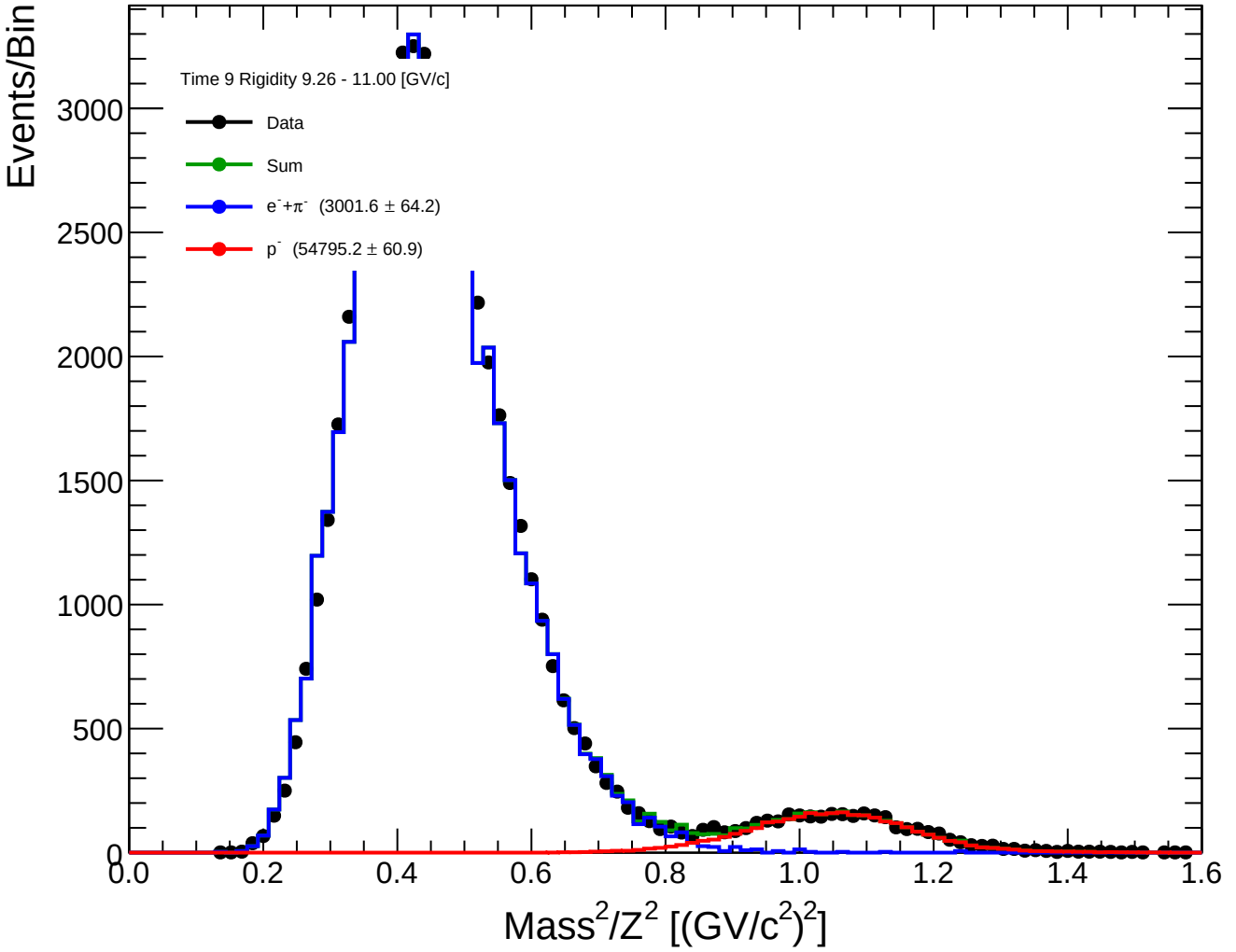

Time 8 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1054.3 ± 41.1)
p⁻ (8465.6 ± 40.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

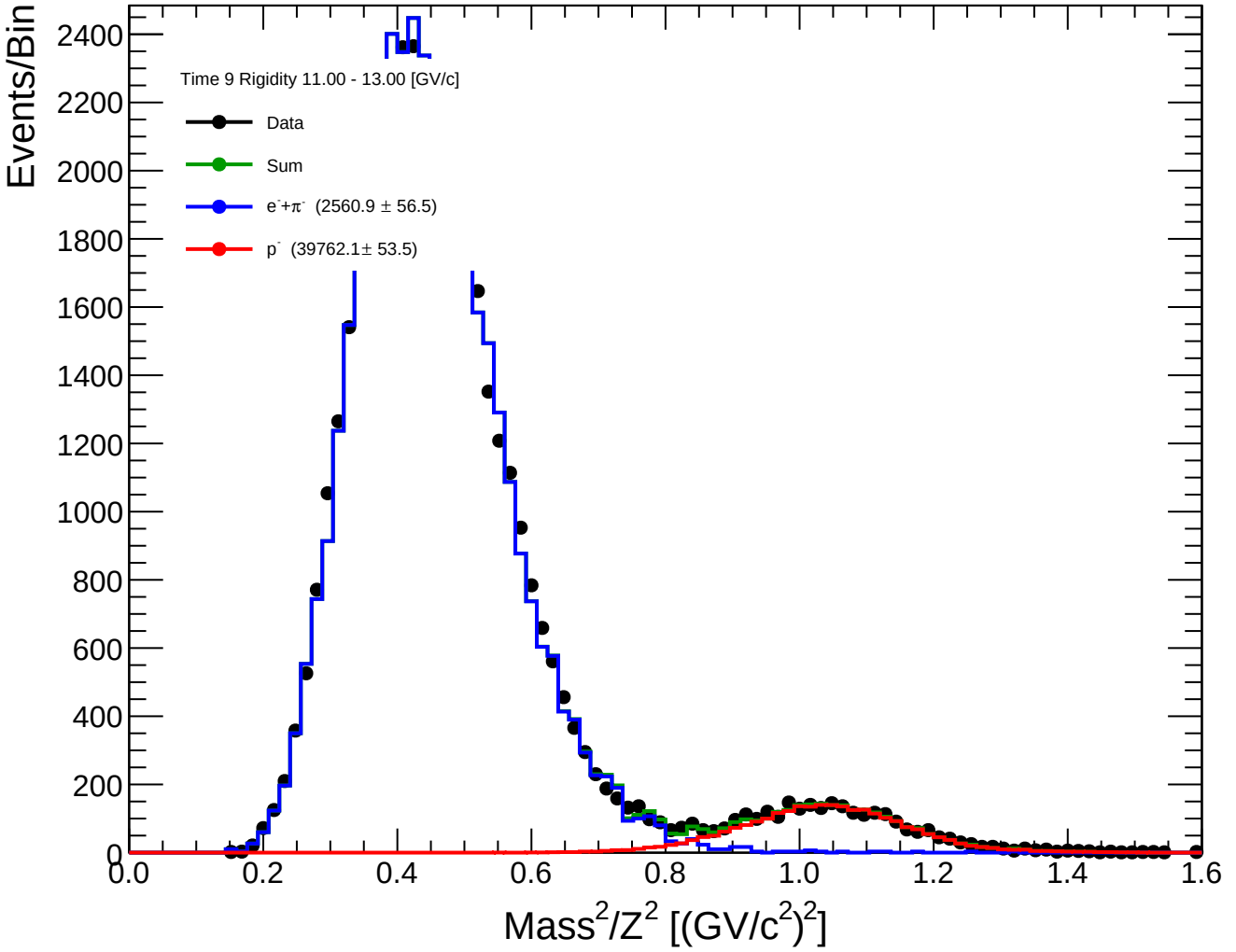

Time 8 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (777.0 ± 32.0)
p⁻ (5424.7 ± 31.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

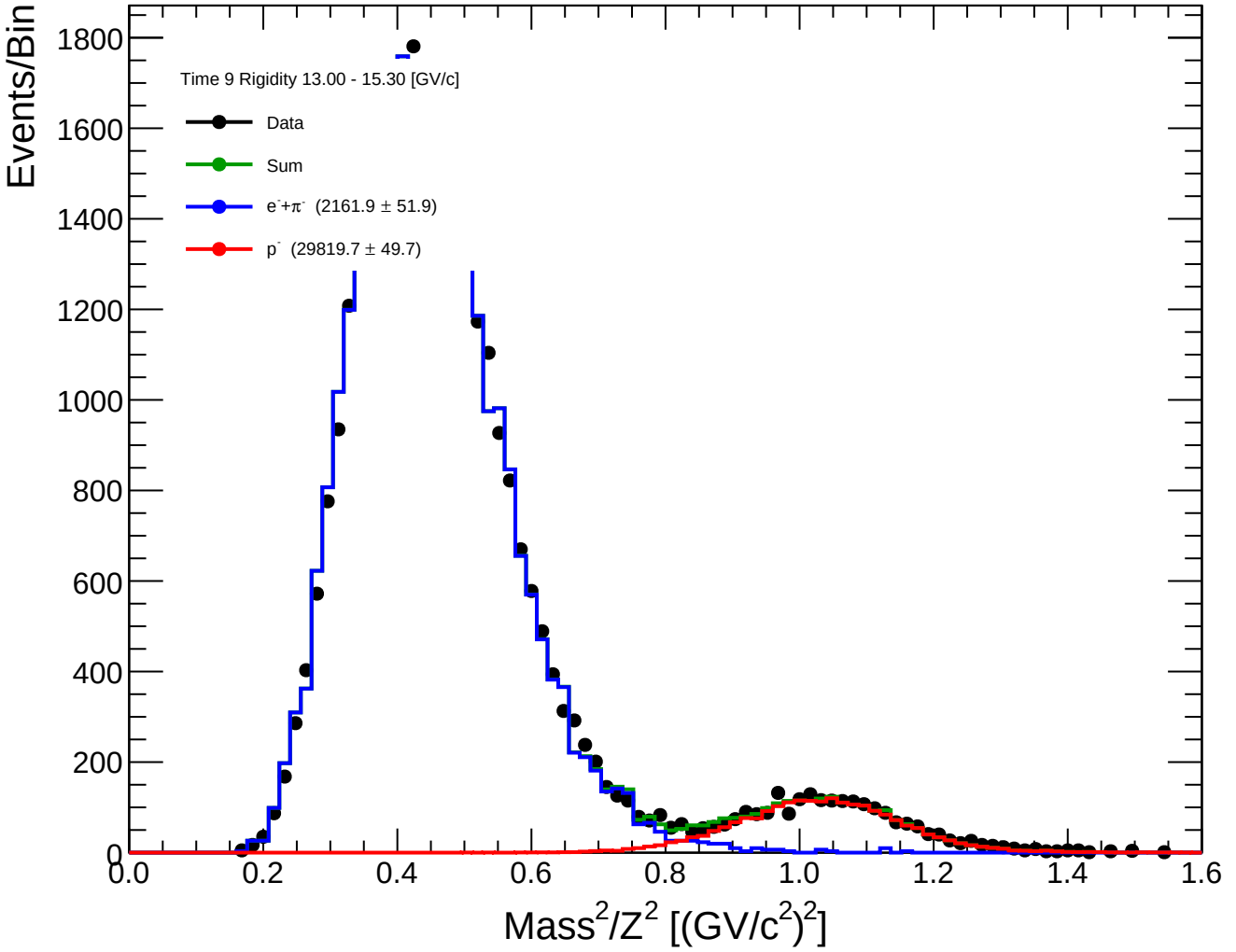

Events/Bin
Time 9 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1831.4 ± 54.9)
p⁻ (37702.0 ± 51.7)
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

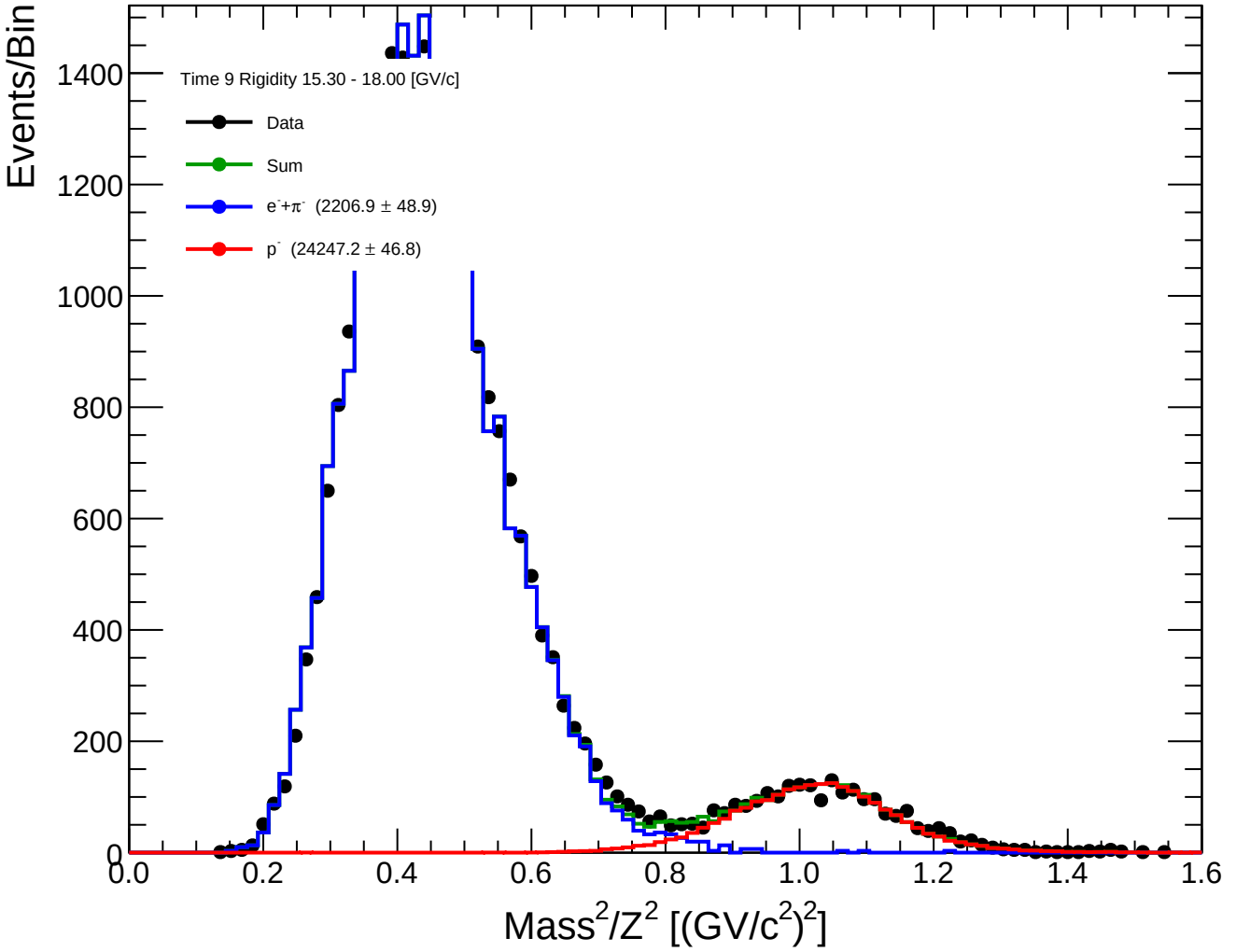

Time 9 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1729.0 ± 56.1)
p⁻ (36530.5 ± 53.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

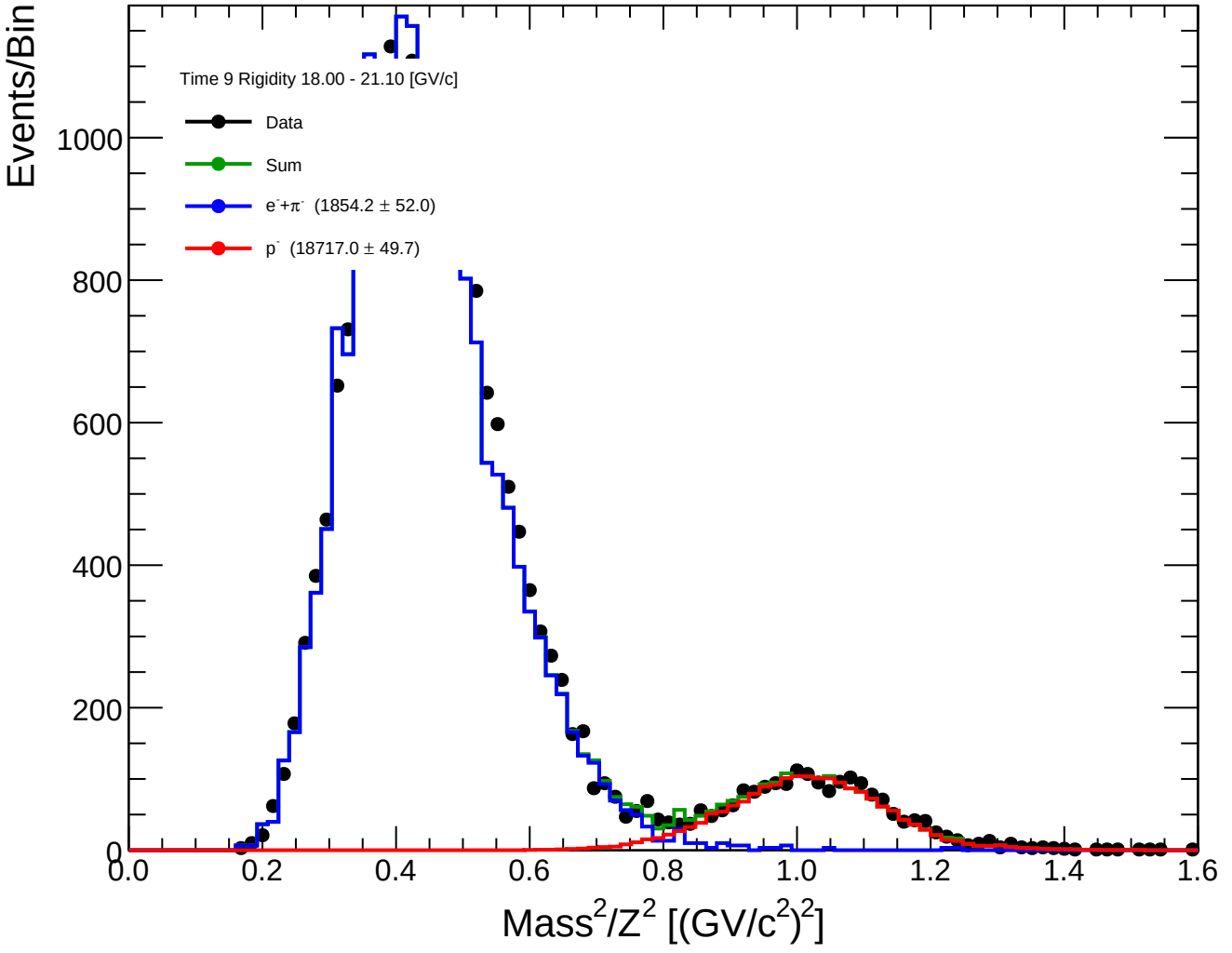

Time 9 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1668.6 ± 55.8)
p⁻ (33419.5 ± 52.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

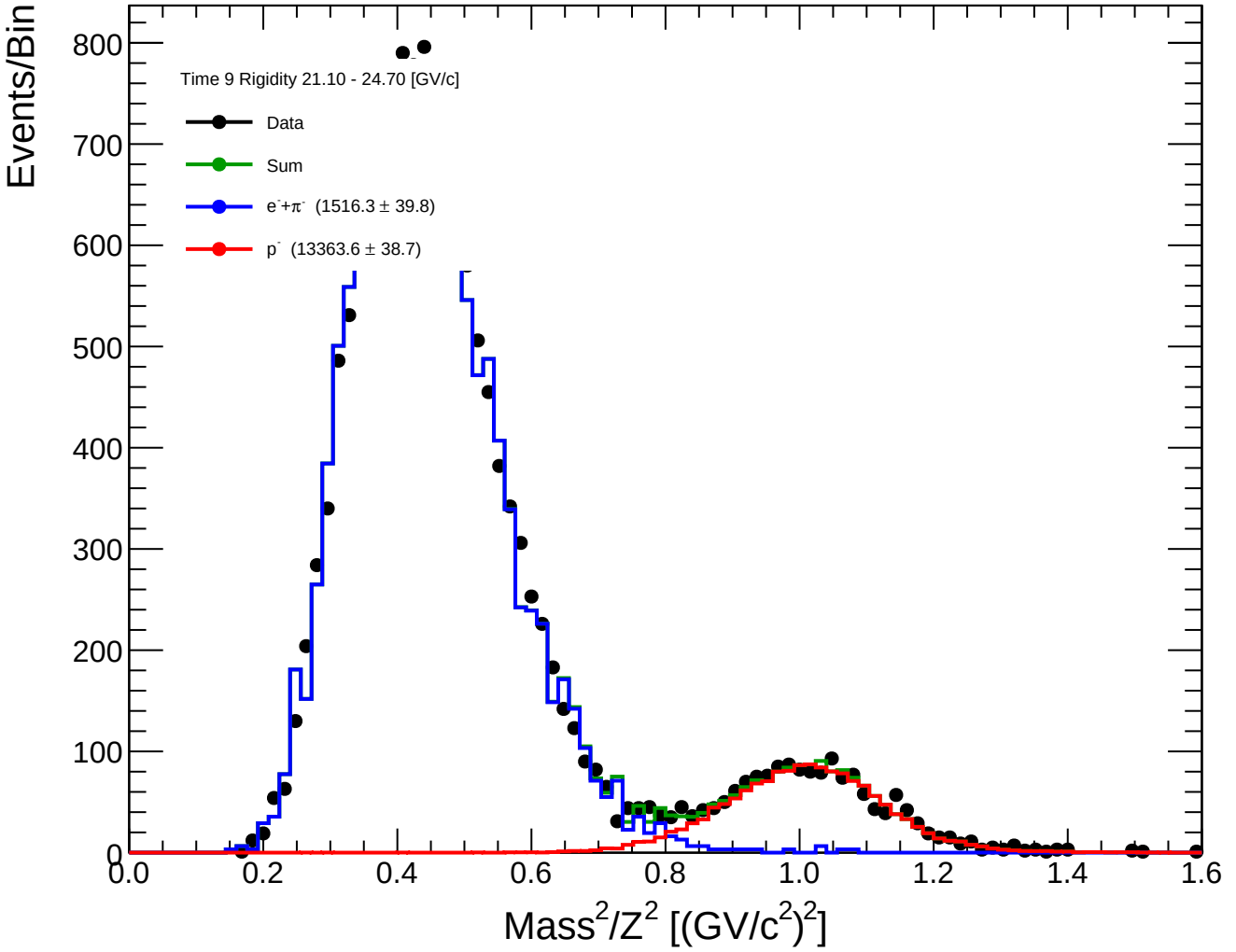

Time 9 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (3001.6 ± 64.2)
p⁻ (54795.2 ± 60.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

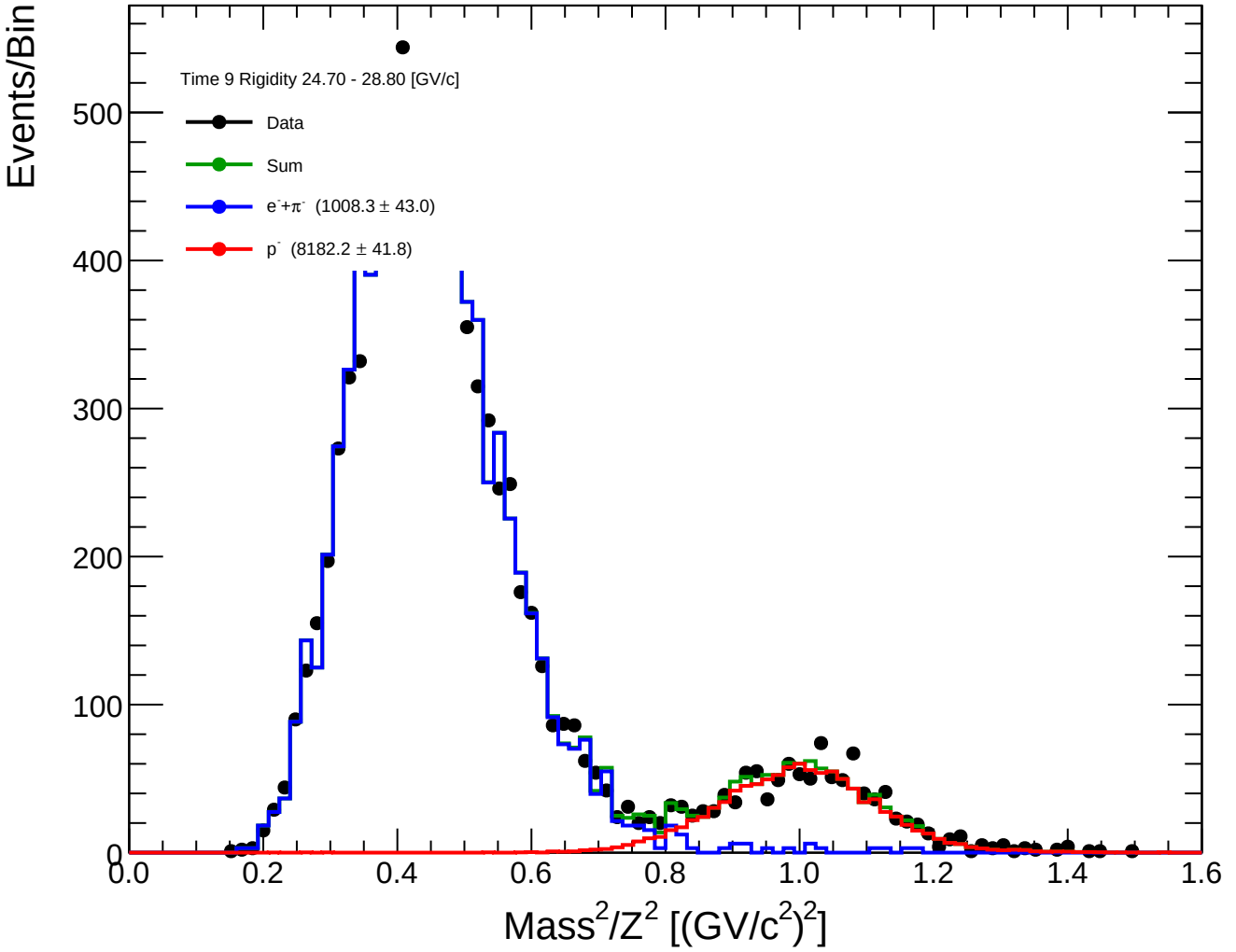

Time 9 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2560.9 ± 56.5)
p⁻ (39762.1± 53.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

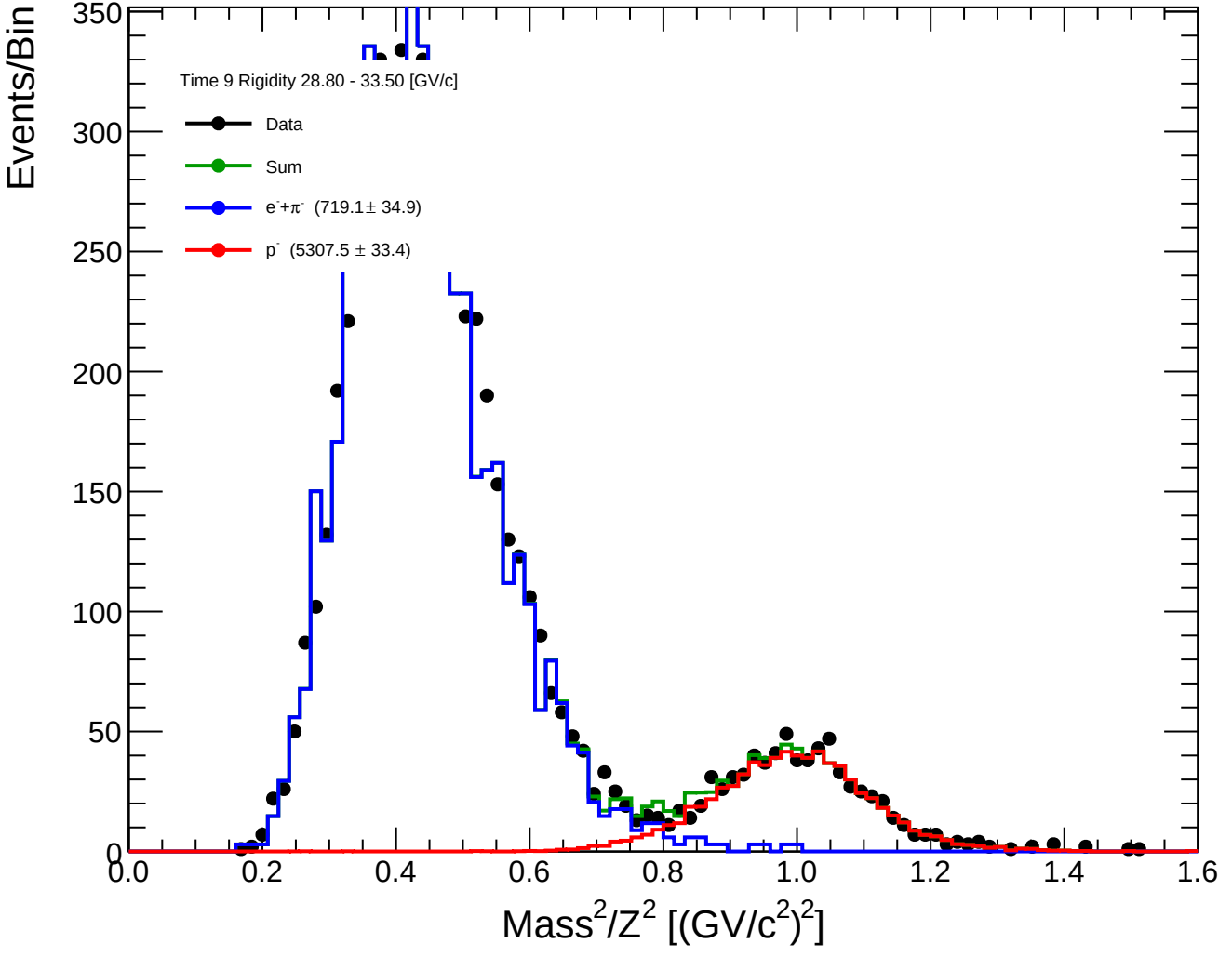

Time 9 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2161.9 ± 51.9)
p⁻ (29819.7 ± 49.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

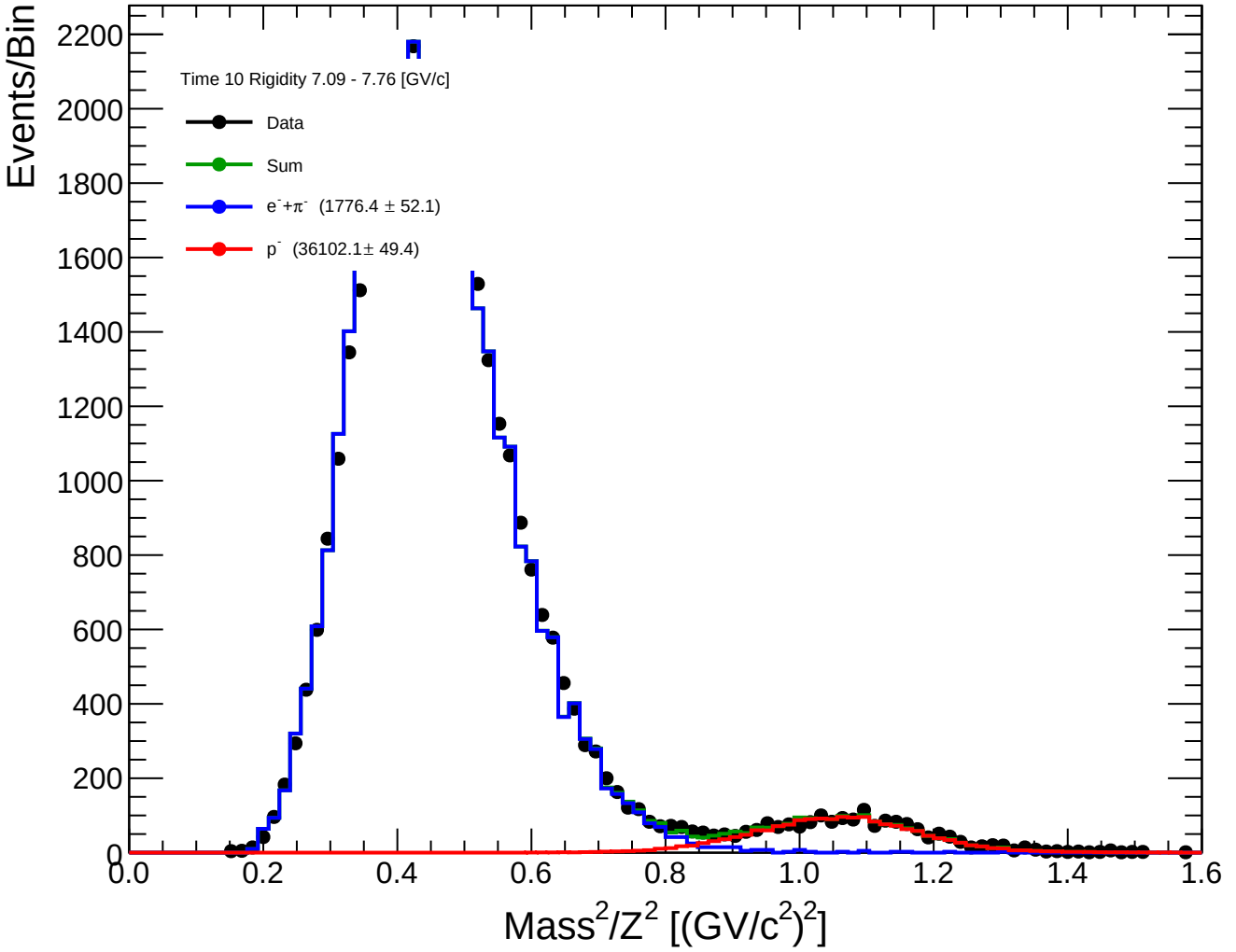

Time 9 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2206.9 ± 48.9)
p⁻ (24247.2 ± 46.8)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

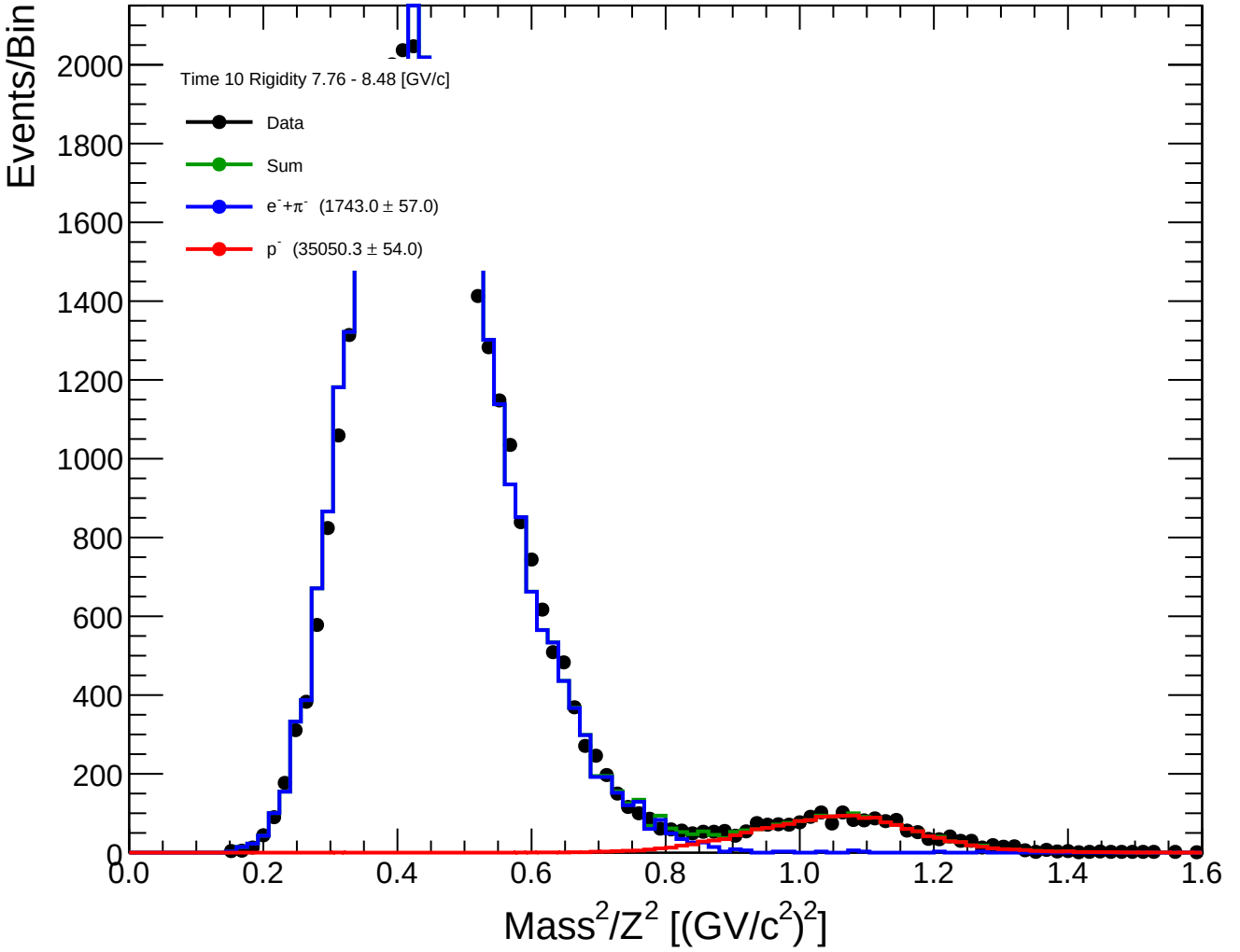

Time 9 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1854.2 ± 52.0)
p⁻ (18717.0 ± 49.7)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

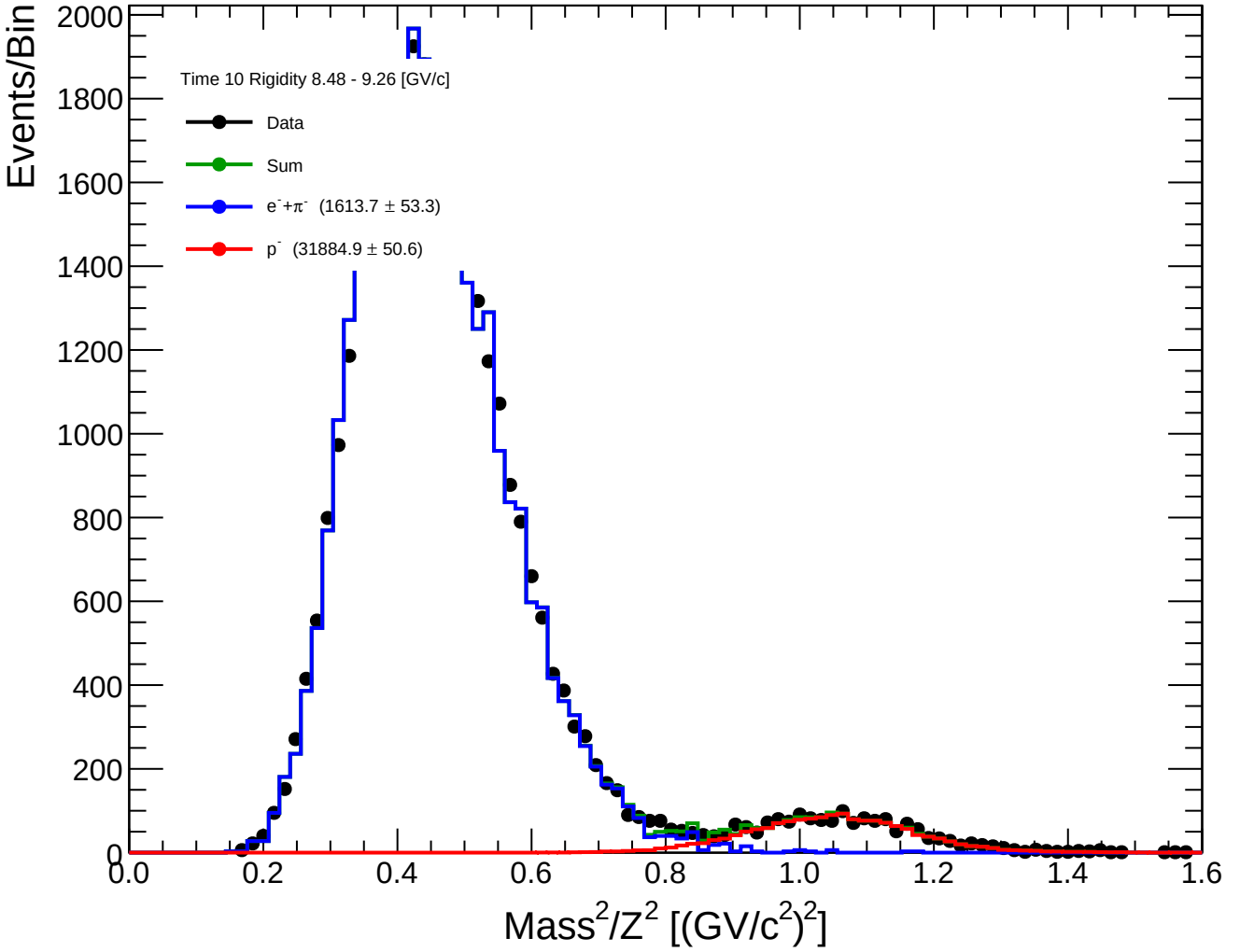

Time 9 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1516.3 ± 39.8)
p⁻ (13363.6 ± 38.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

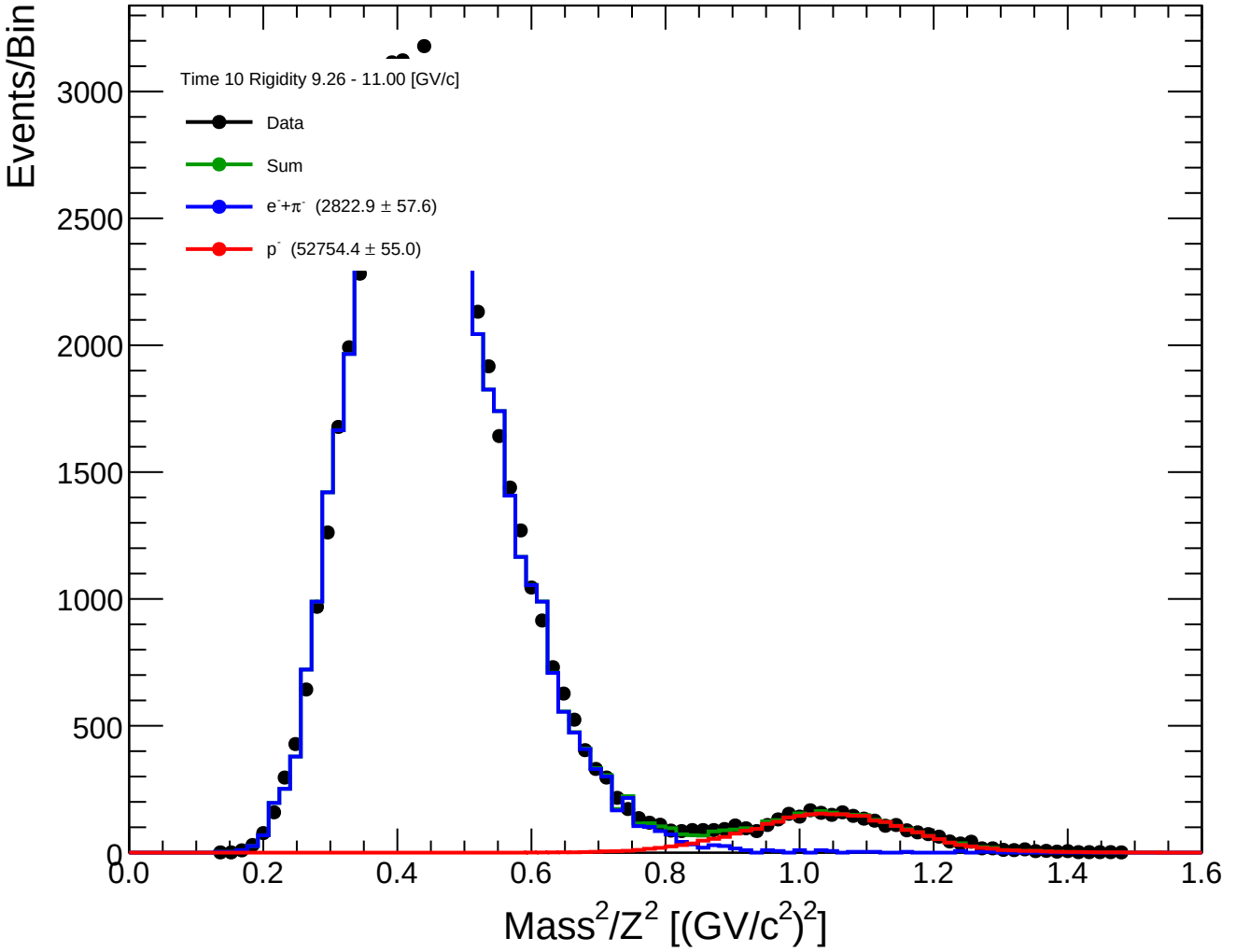

Time 9 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1008.3 ± 43.0)
p⁻ (8182.2 ± 41.8)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

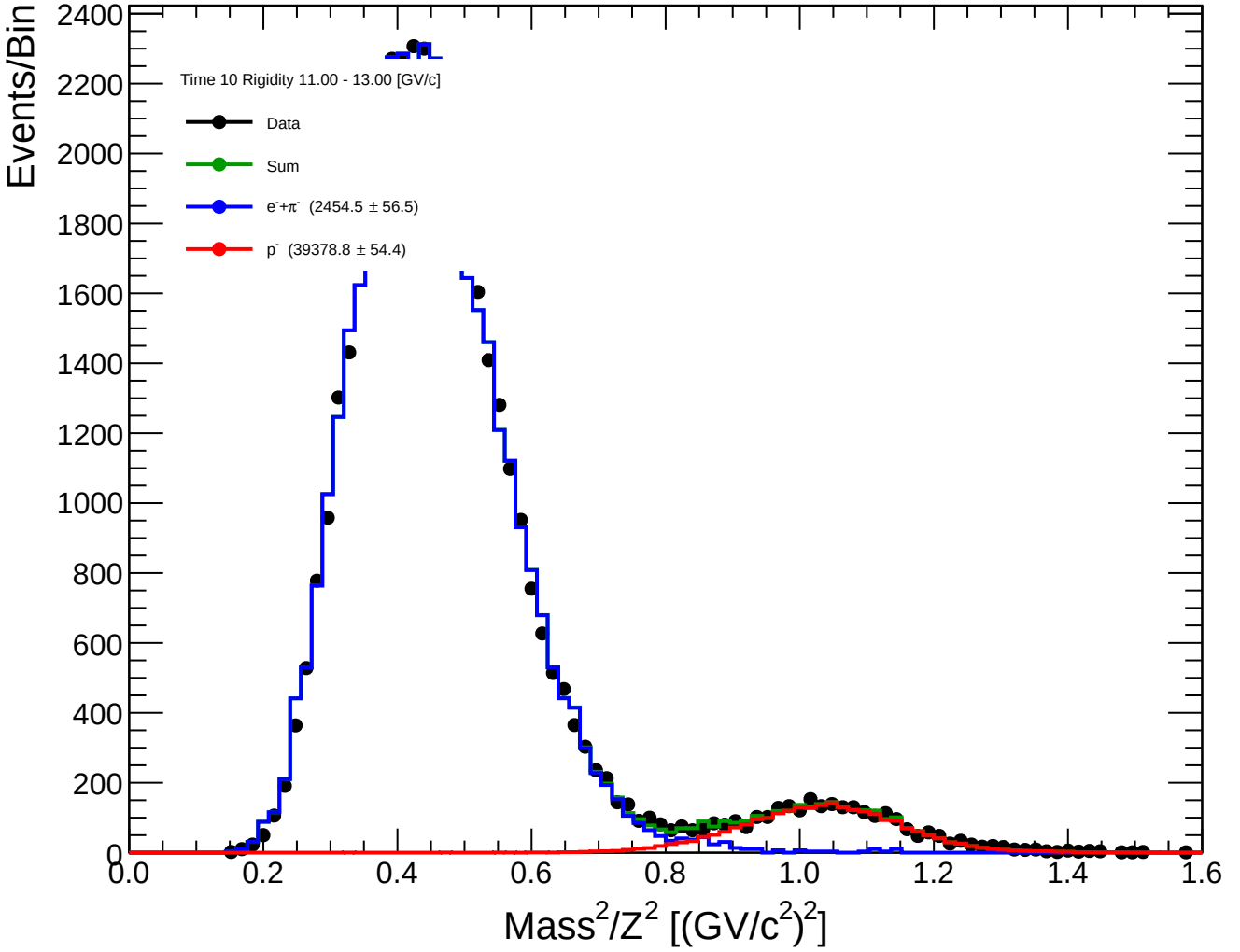

Time 9 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (719.1± 34.9)
p⁻ (5307.5 ± 33.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

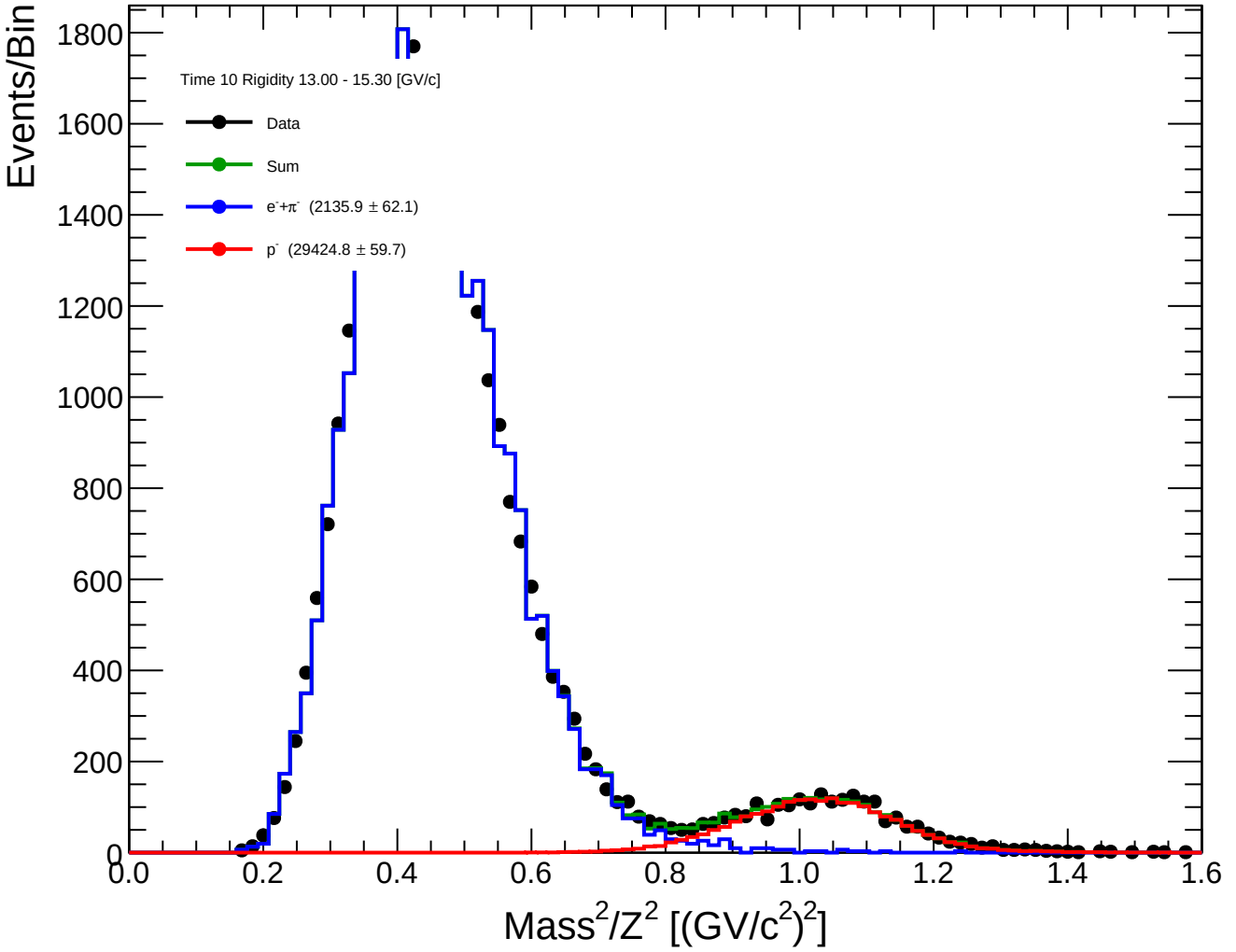

Time 10 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1776.4 ± 52.1)
p⁻ (36102.1± 49.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

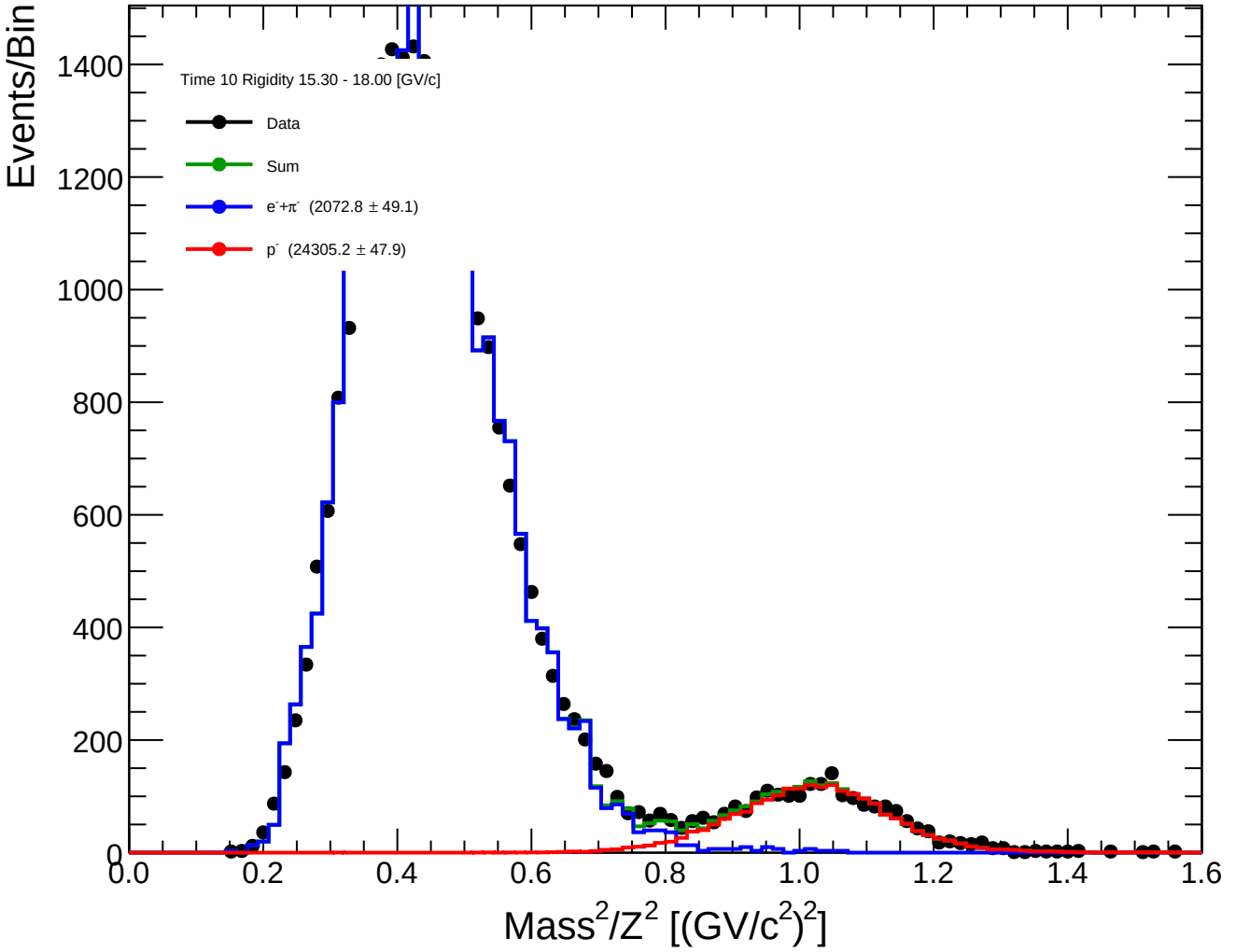

Time 10 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1743.0 ± 57.0)
p⁻ (35050.3 ± 54.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

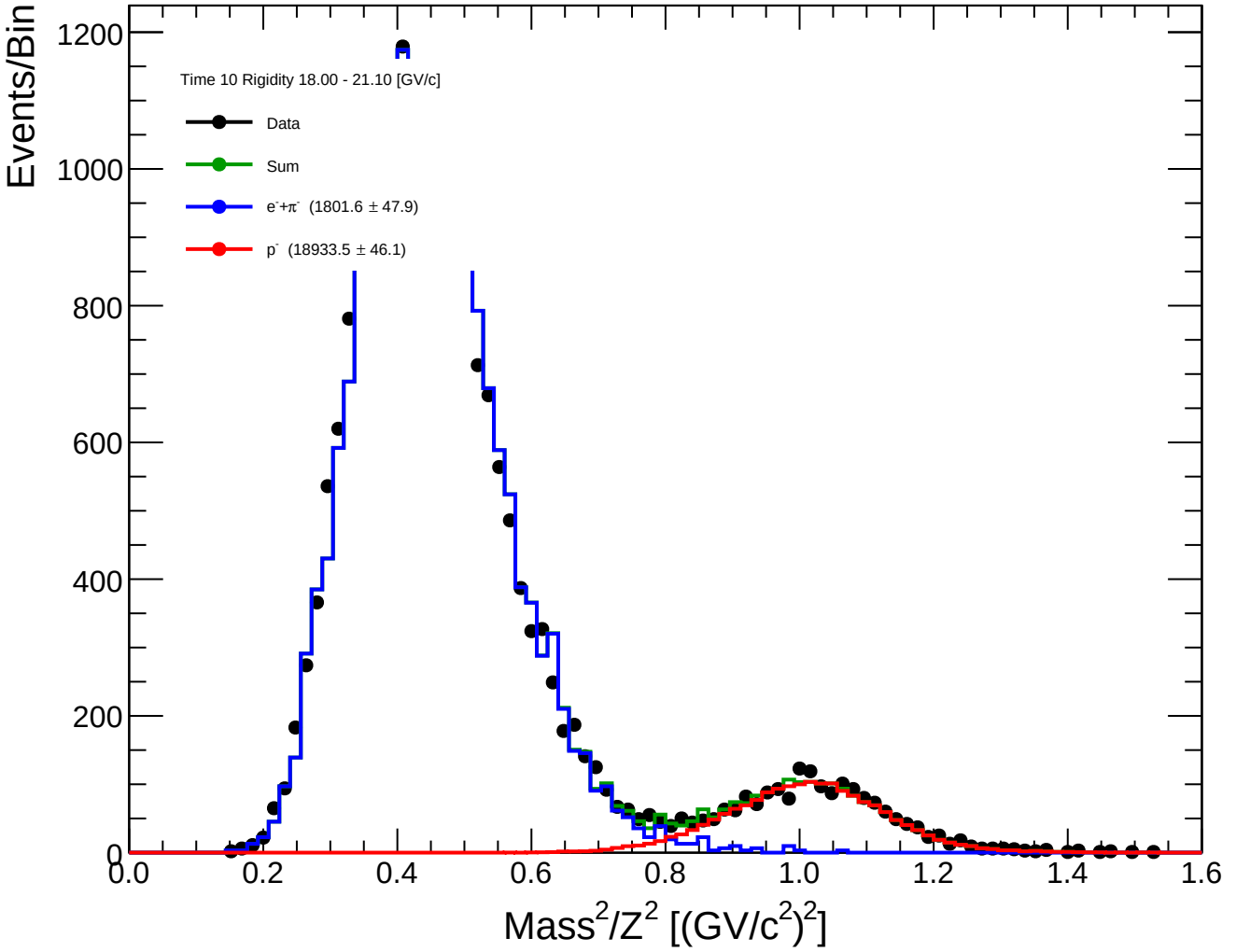

Time 10 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1613.7 ± 53.3)
p⁻ (31884.9 ± 50.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

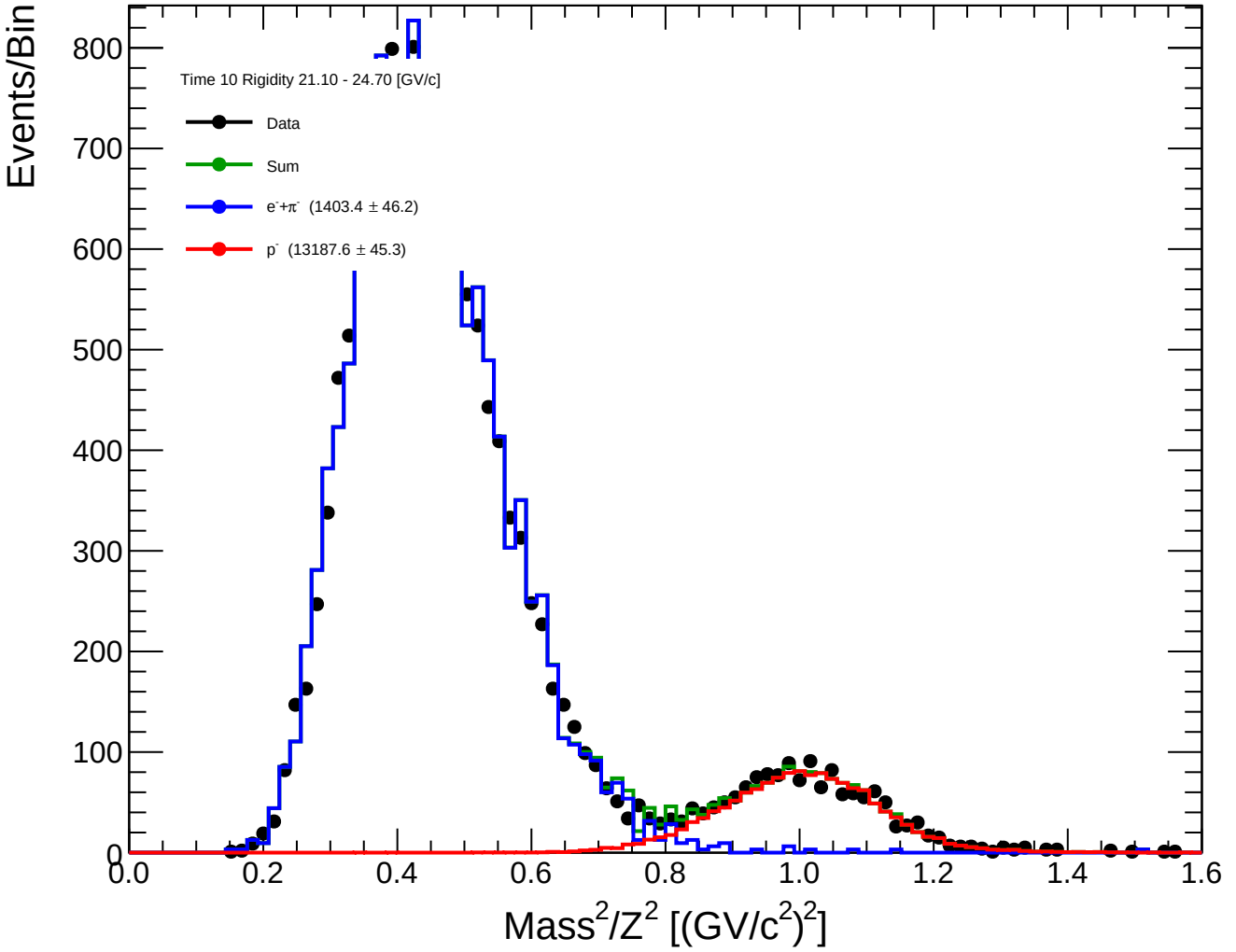

Time 10 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2822.9 ± 57.6)
p⁻ (52754.4 ± 55.0)
Events/Bin
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

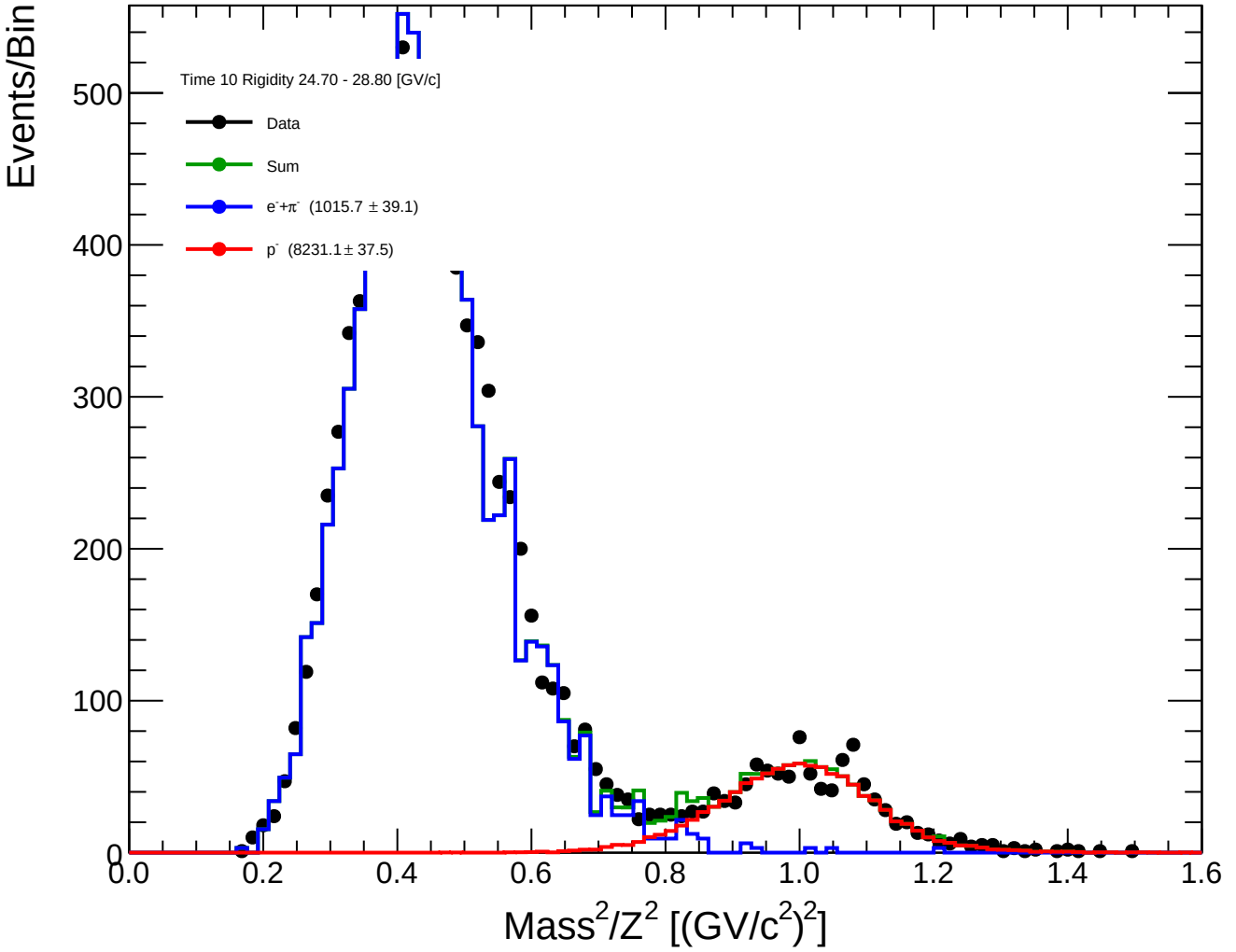

Events/Bin
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Time 10 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2454.5 ± 56.5)
p⁻ (39378.8 ± 54.4)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

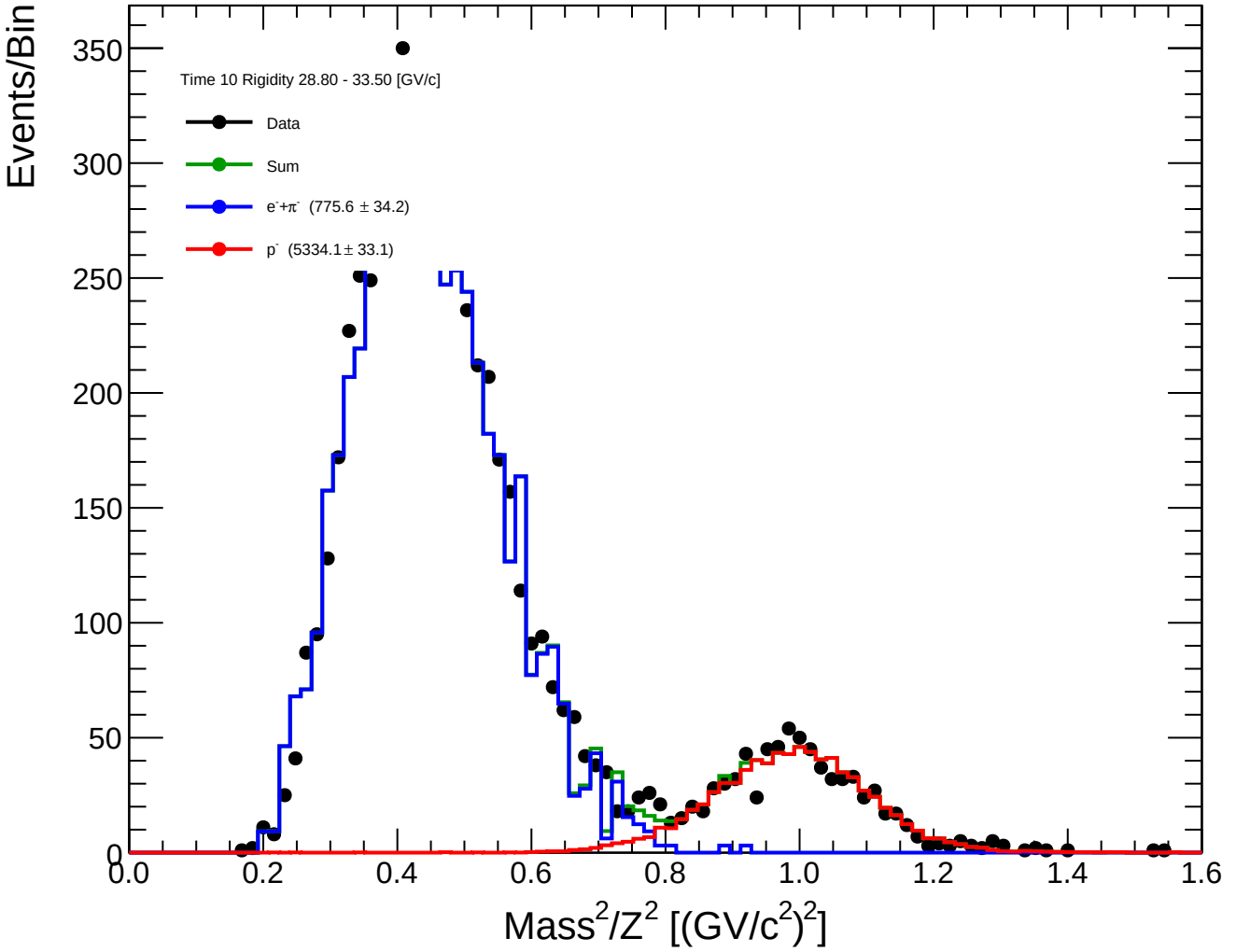

Time 10 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2135.9 ± 62.1)
p⁻ (29424.8 ± 59.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

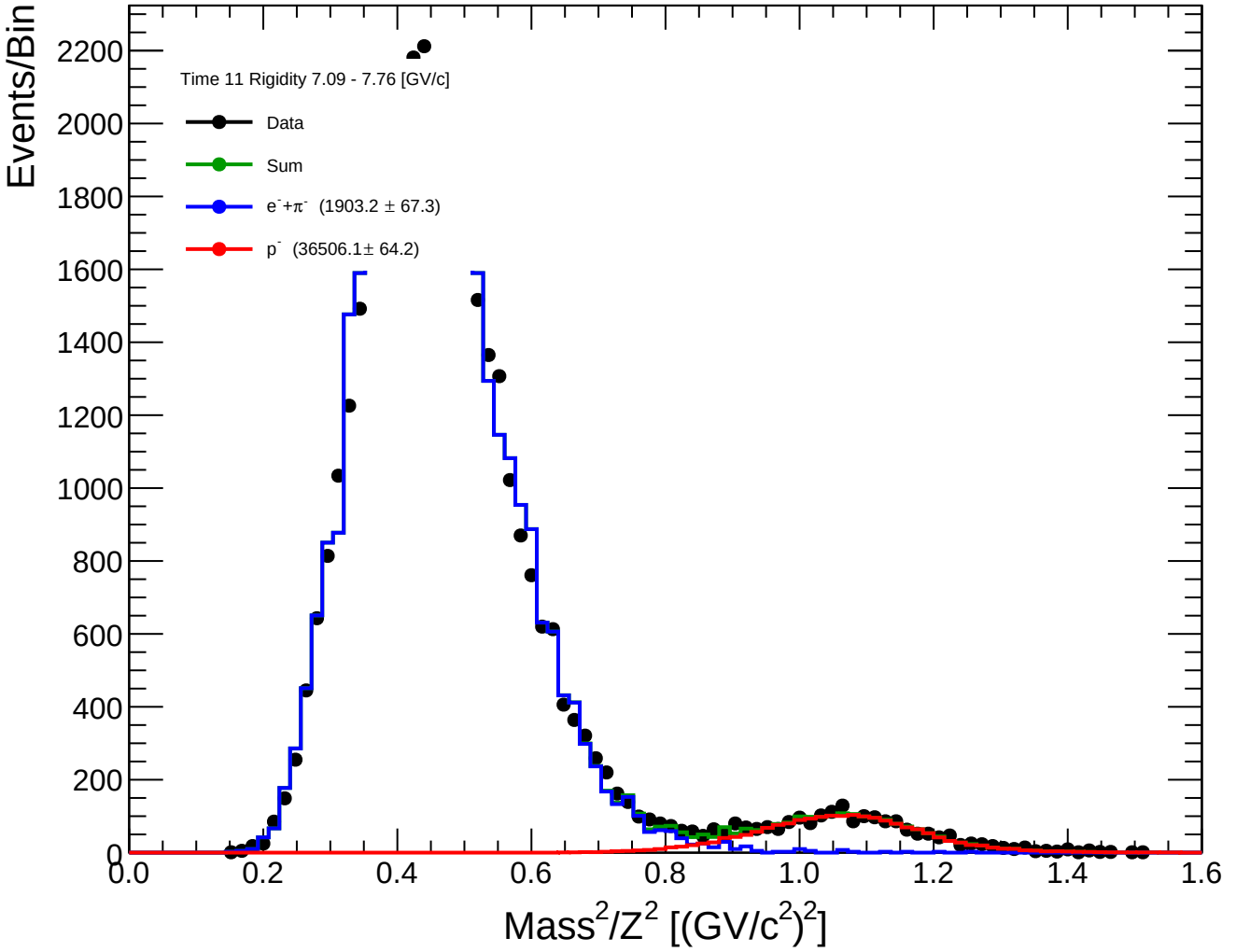

Time 10 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2072.8 ± 49.1)
p⁻ (24305.2 ± 47.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

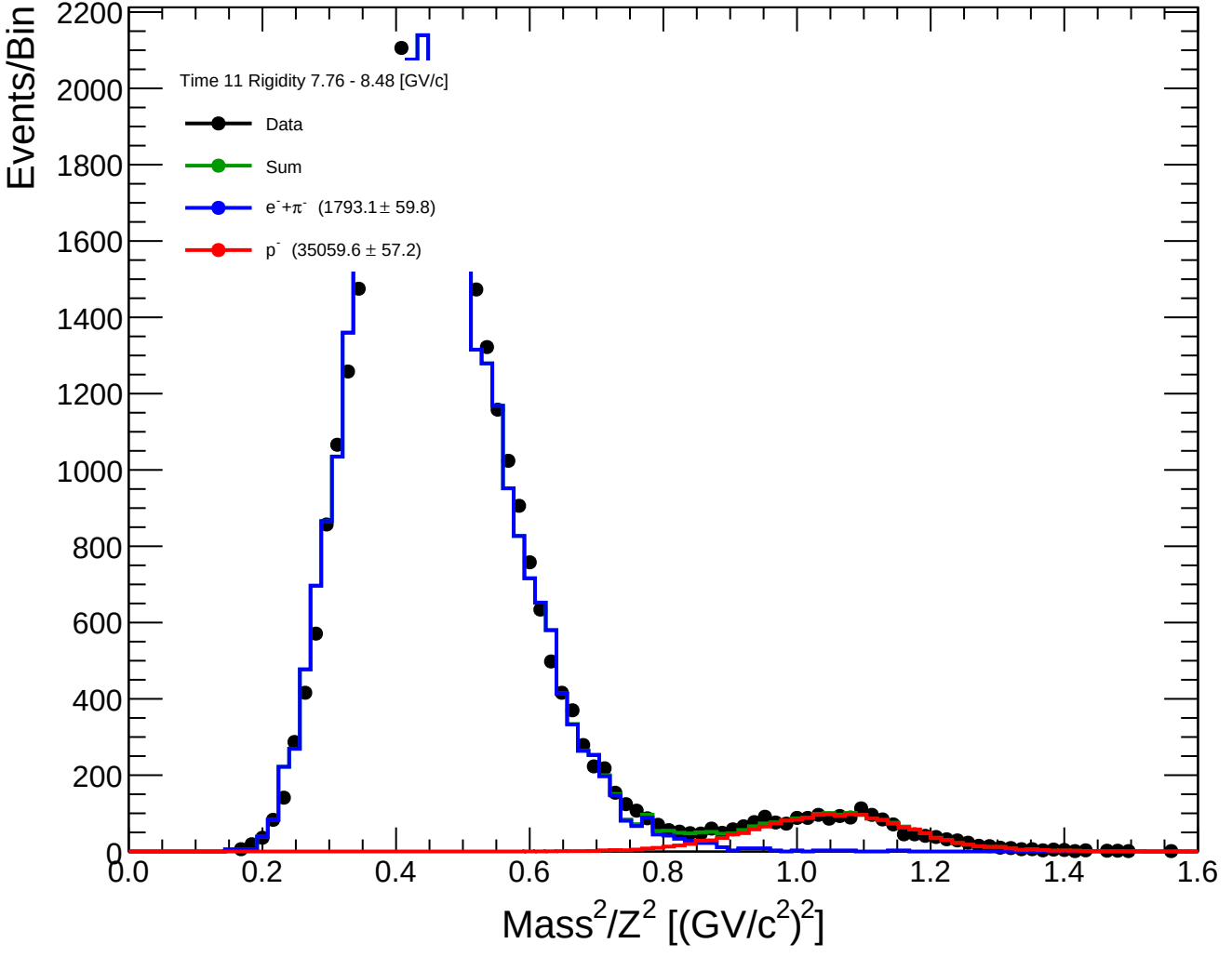

Time 10 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1801.6 ± 47.9)
p⁻ (18933.5 ± 46.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

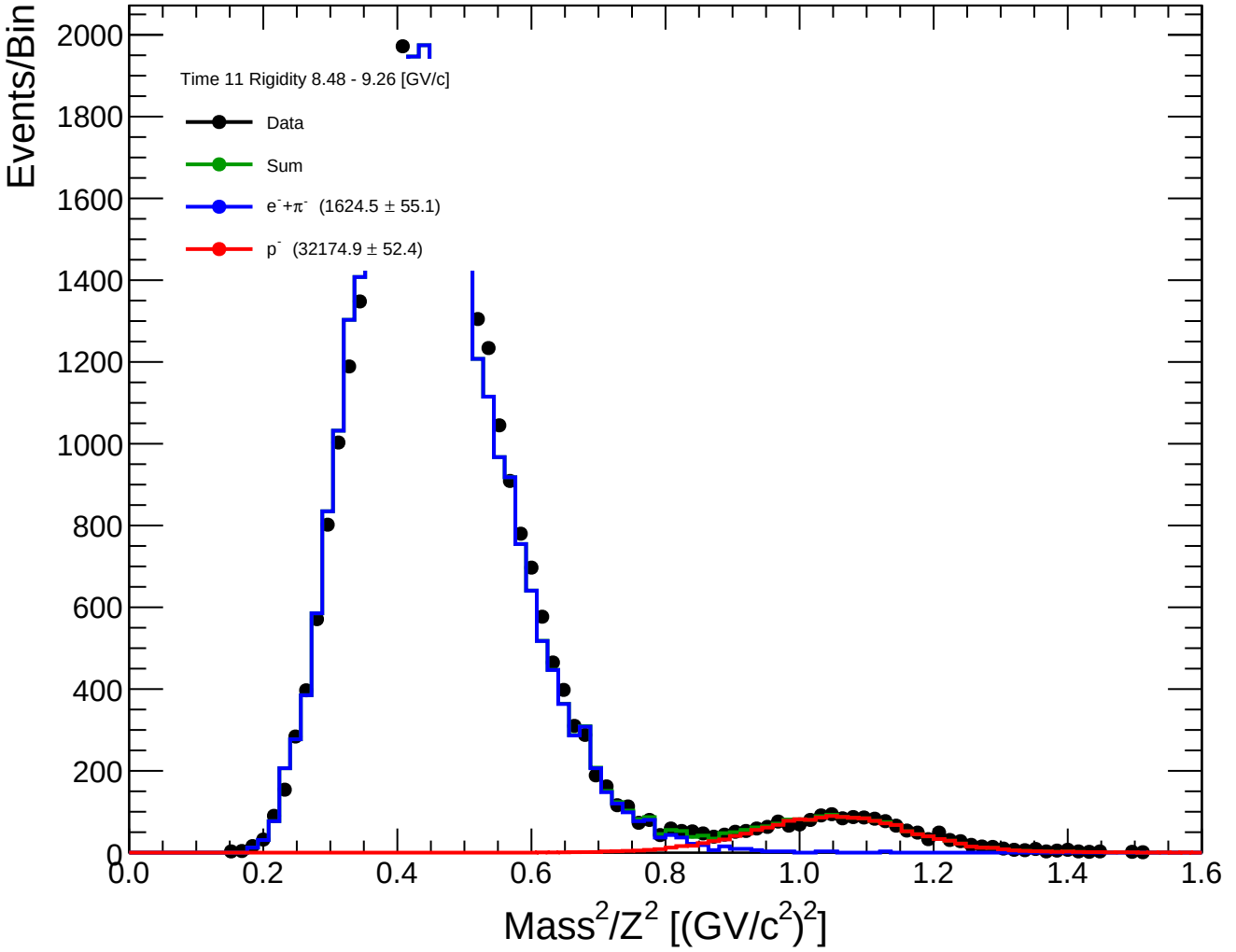

Time 10 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1403.4 ± 46.2)
p⁻ (13187.6 ± 45.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

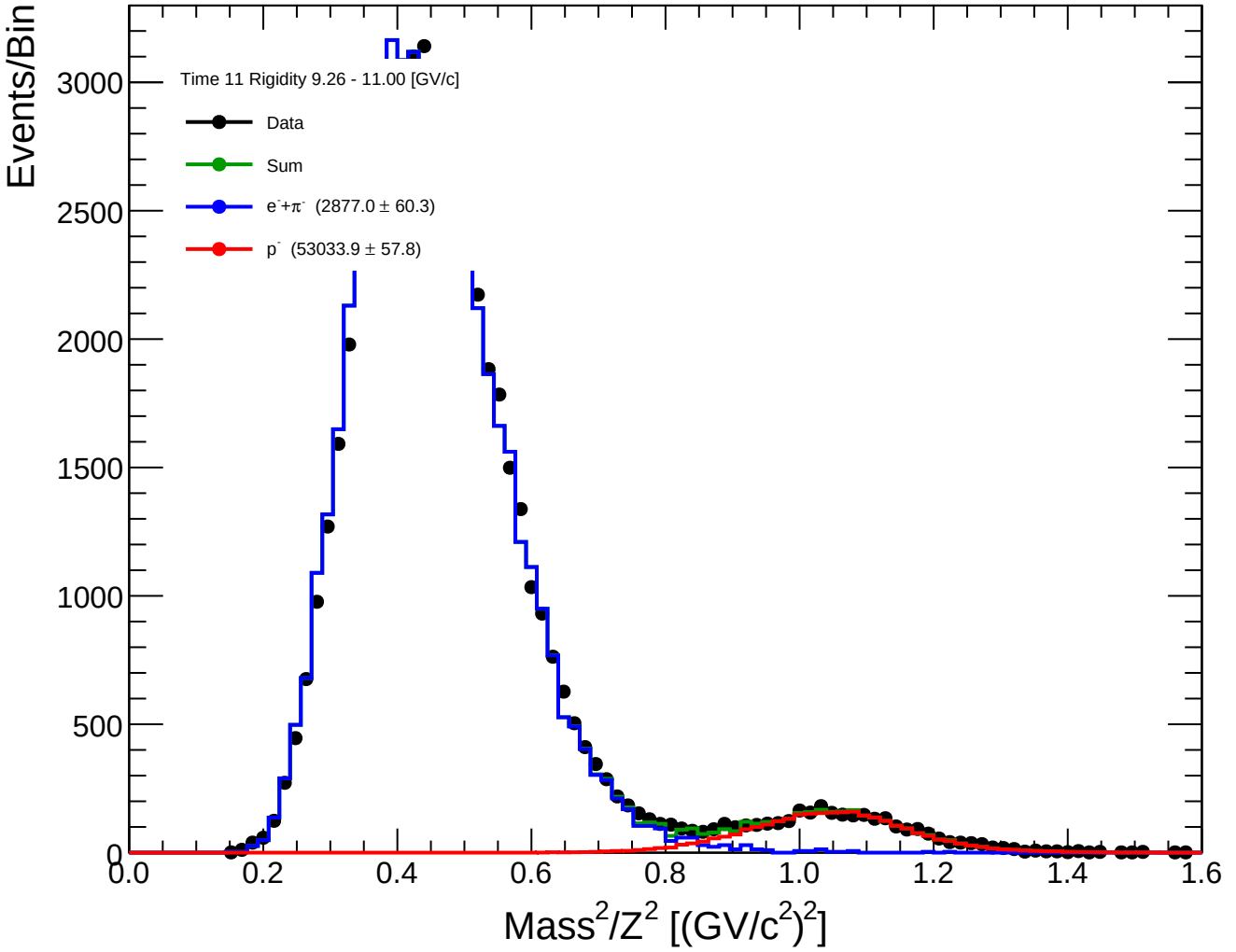

Time 10 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1015.7 ± 39.1)
p⁻ (8231.1 ± 37.5)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

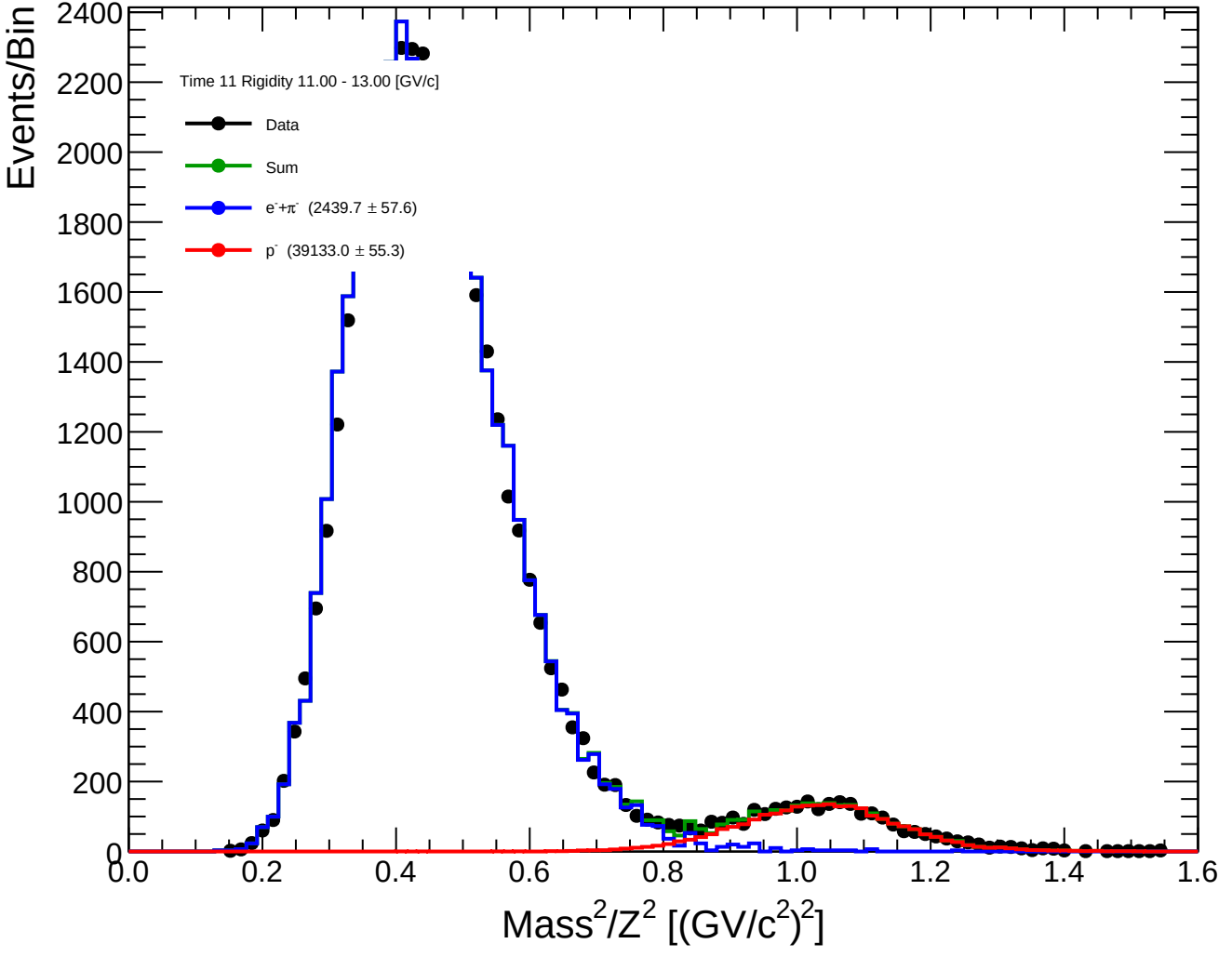

Time 10 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (775.6 ± 34.2)
p⁻ (5334.1± 33.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

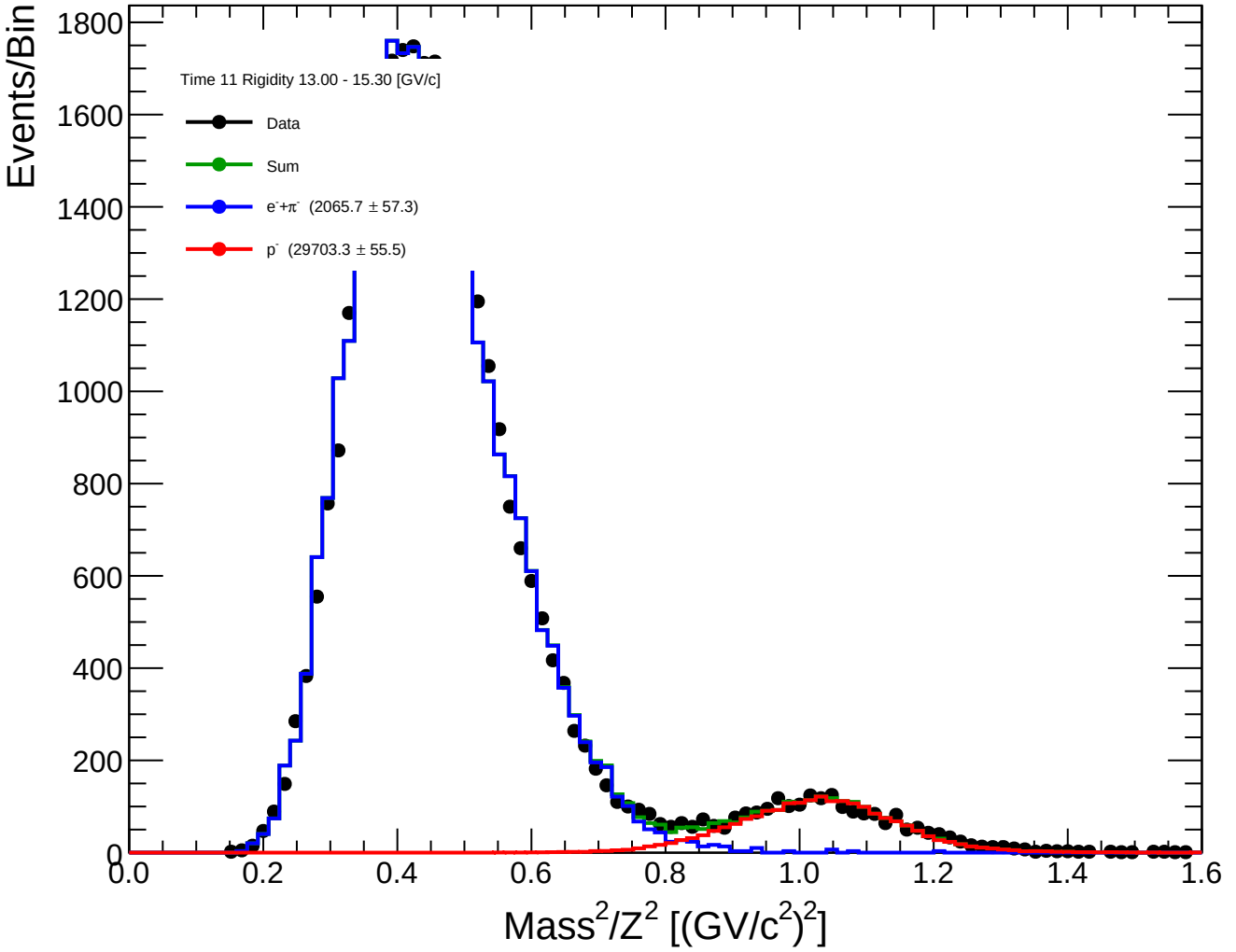

Time 11 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1903.2 ± 67.3)
p⁻ (36506.1± 64.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

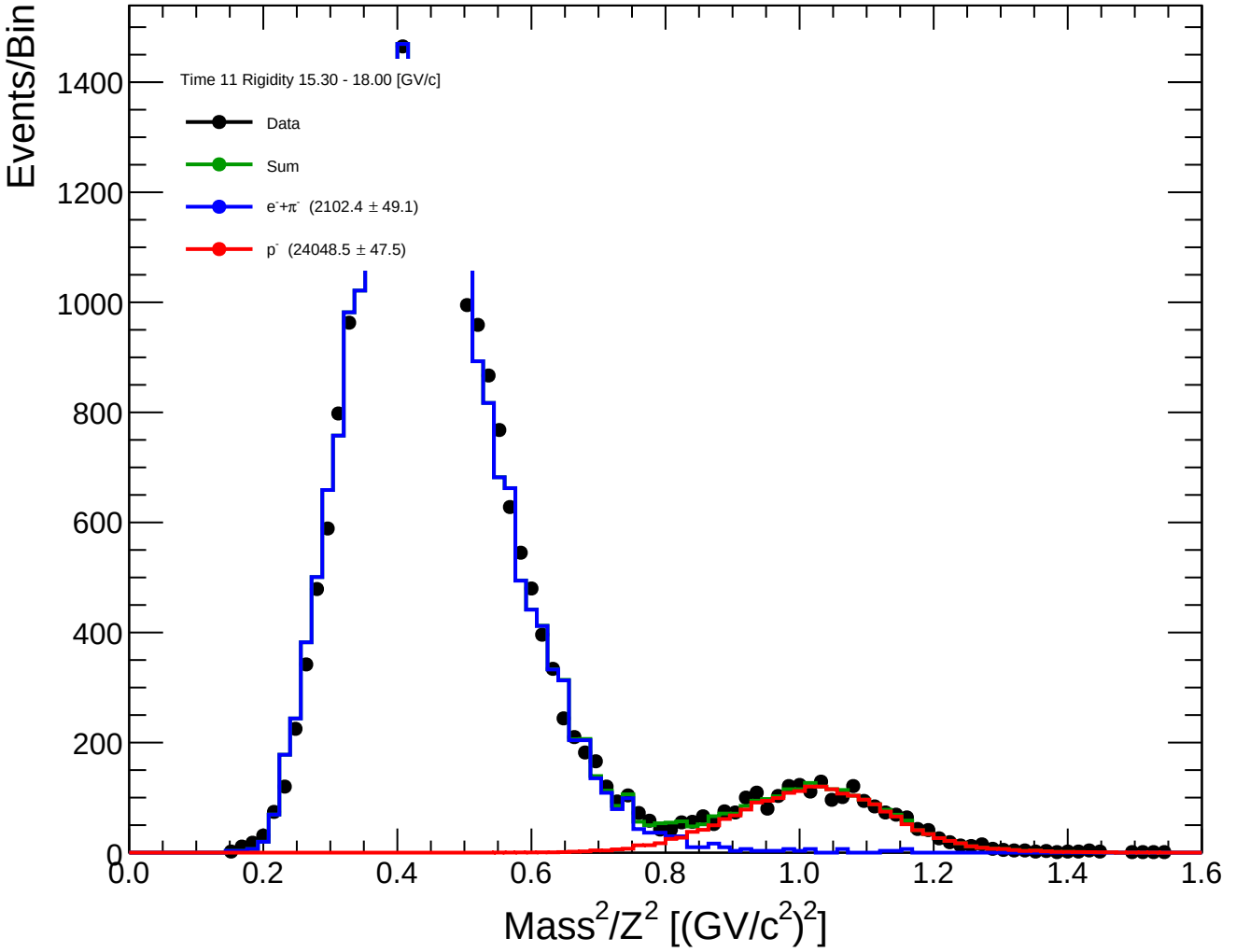

Time 11 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1793.1± 59.8)
p⁻ (35059.6 ± 57.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

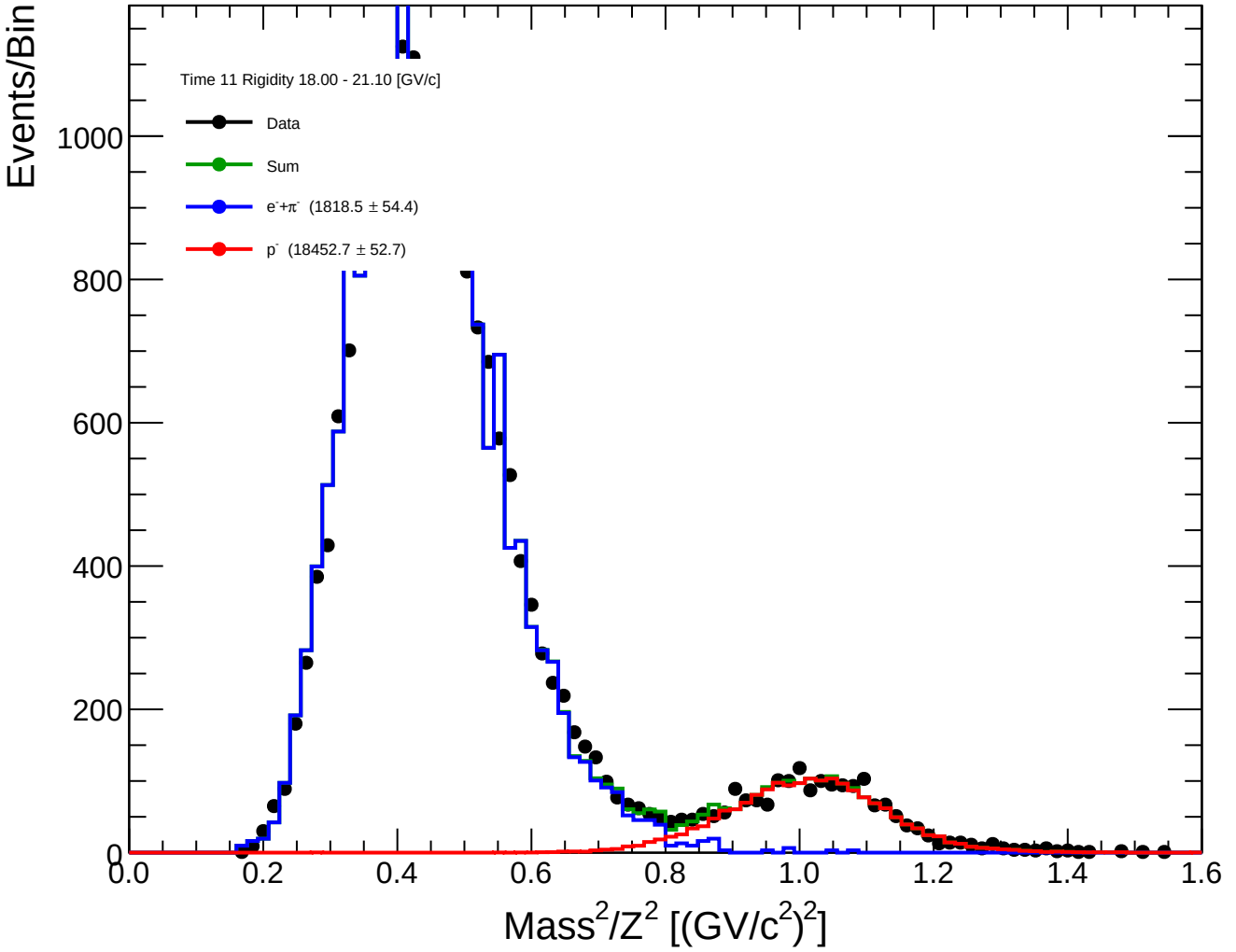

Time 11 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1624.5 ± 55.1)
p⁻ (32174.9 ± 52.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

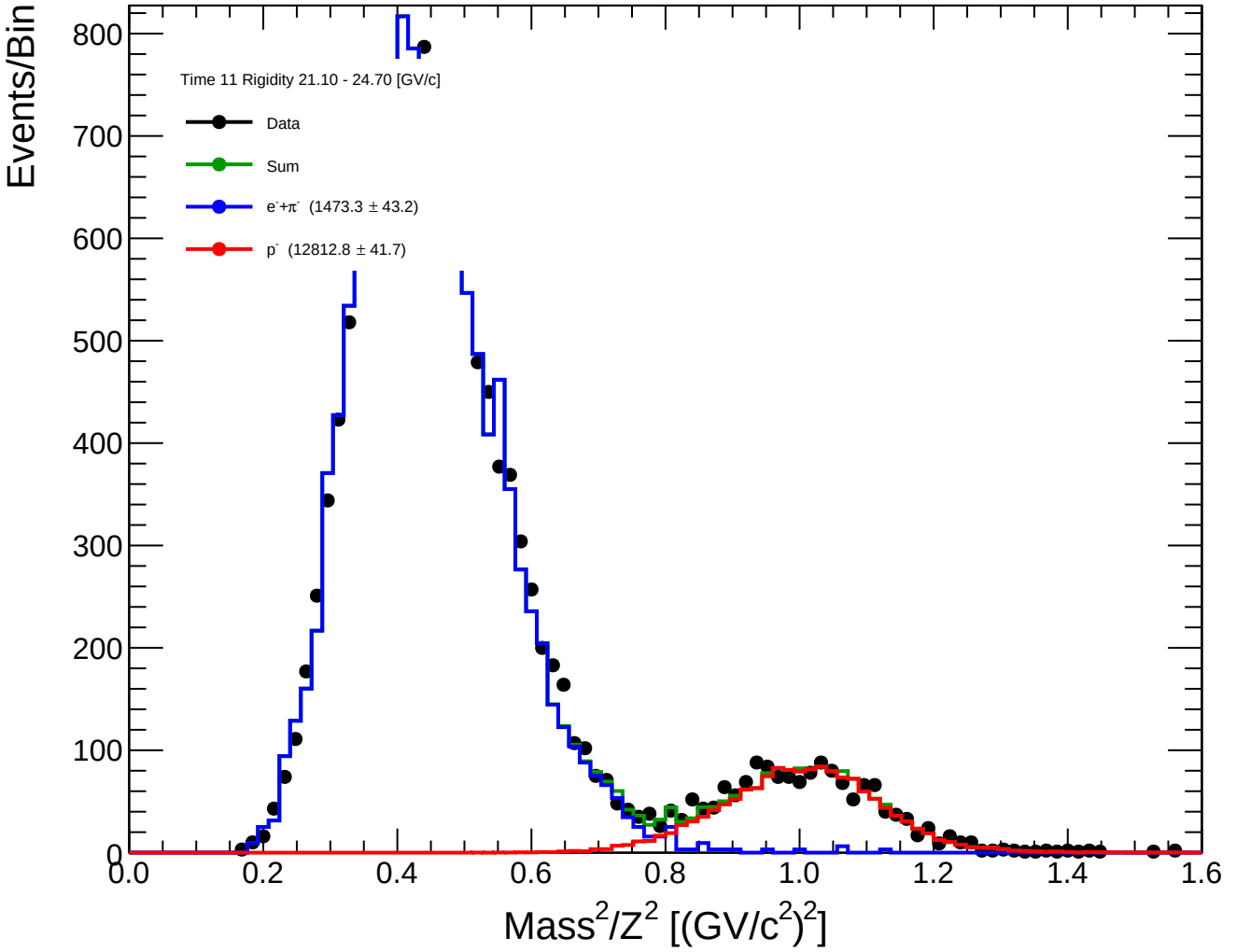

Time 11 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2877.0 ± 60.3)
p⁻ (53033.9 ± 57.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

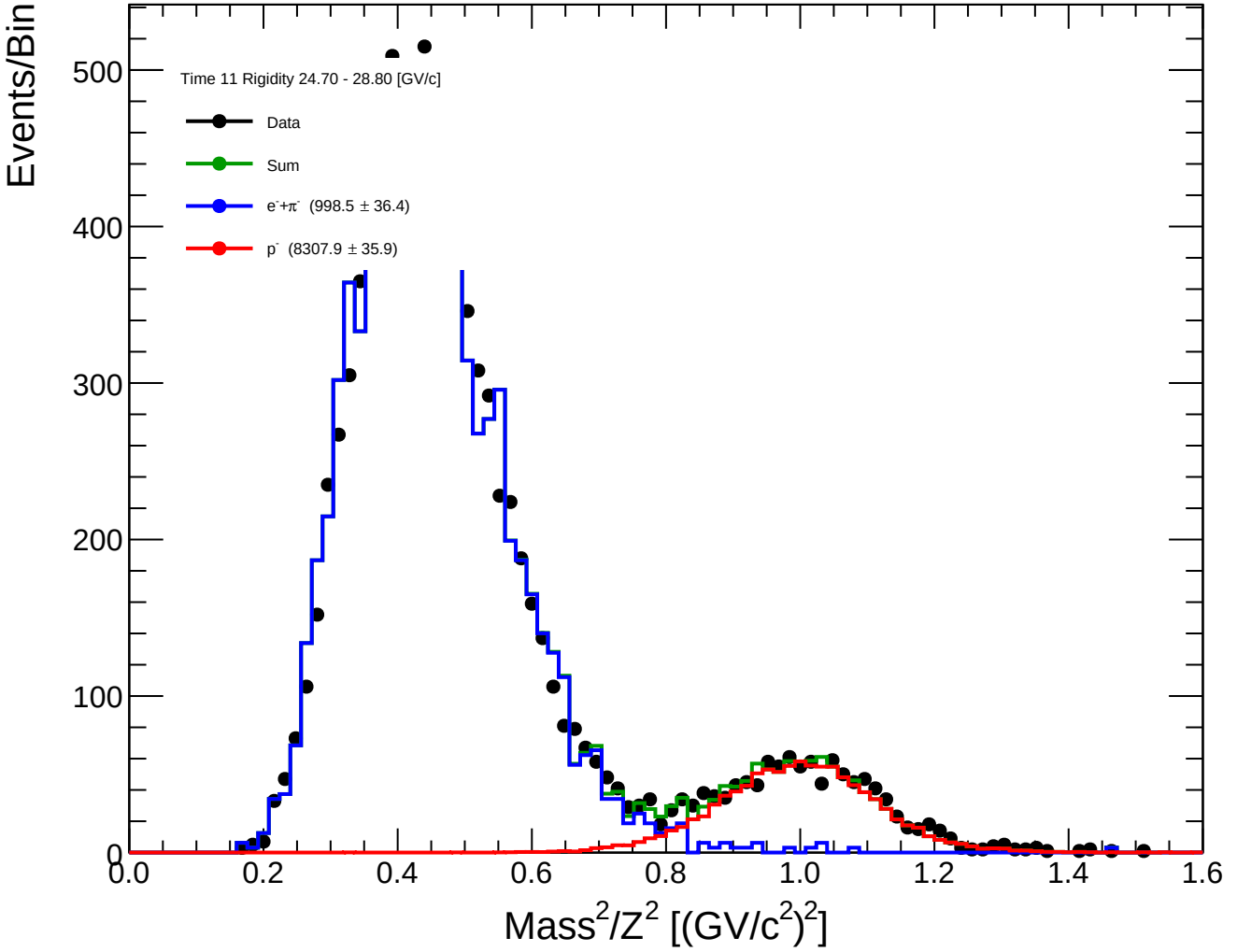

Time 11 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2439.7 ± 57.6)
p⁻ (39133.0 ± 55.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

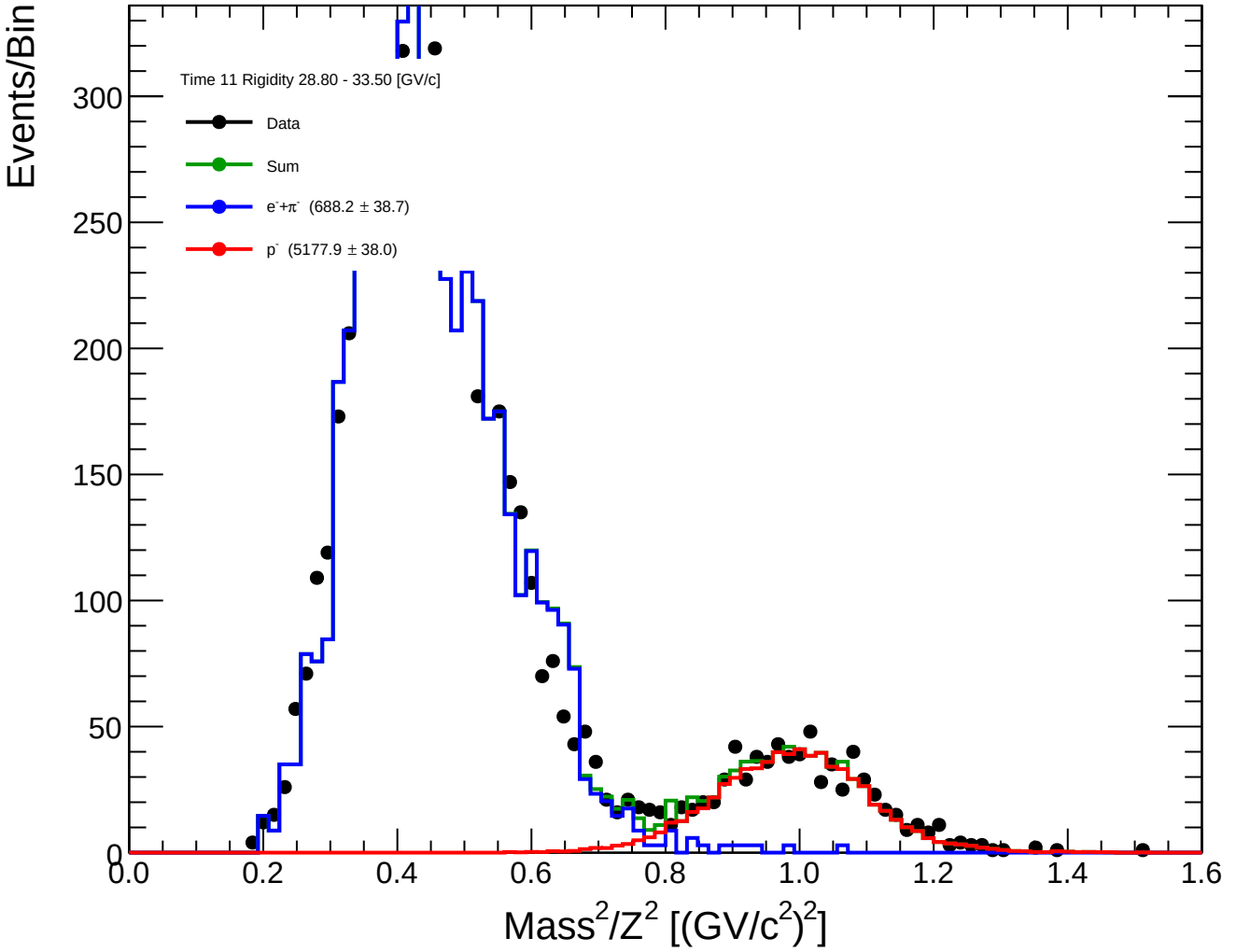

Time 11 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2065.7 ± 57.3)
p⁻ (29703.3 ± 55.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

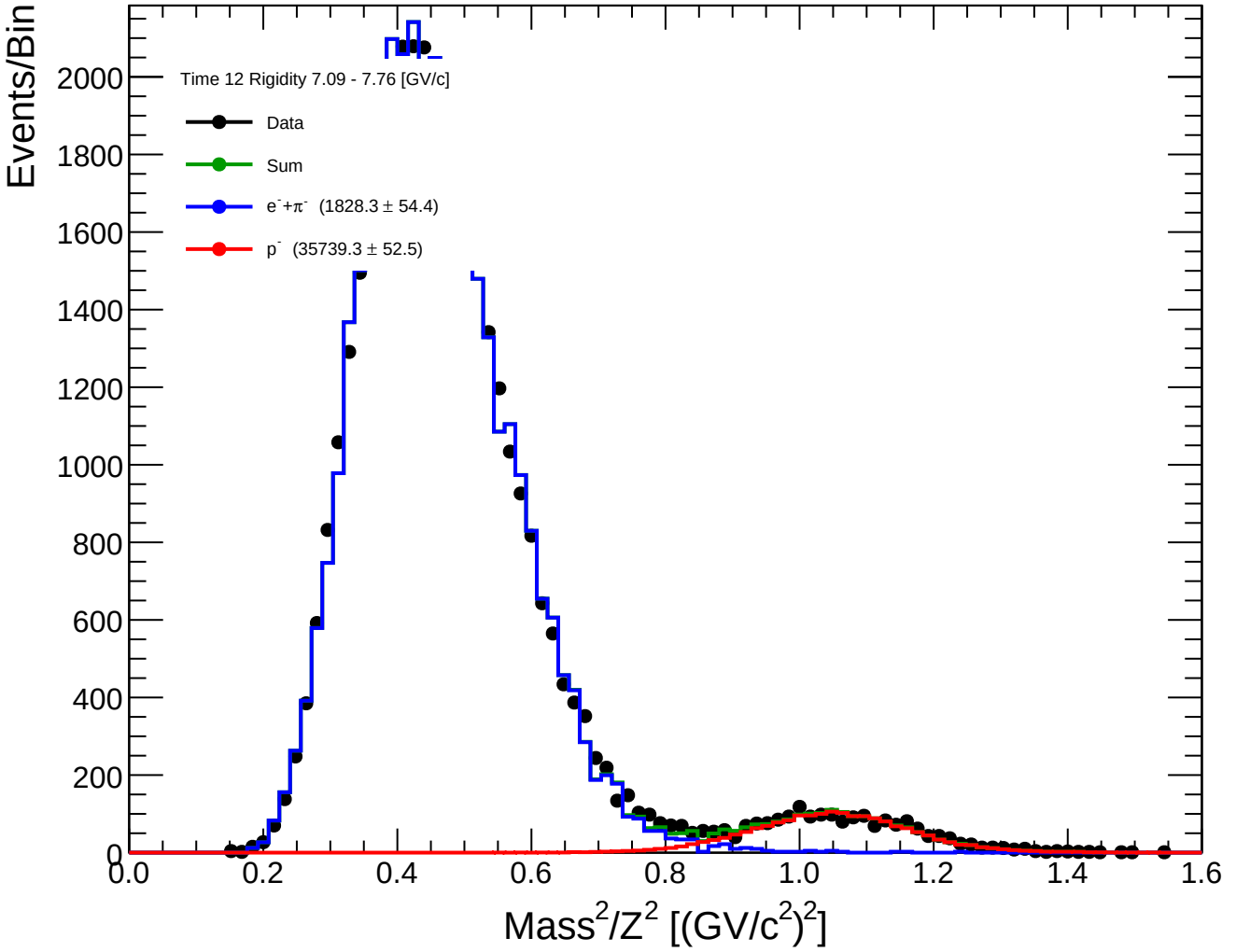

Time 11 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2102.4 ± 49.1)
p⁻ (24048.5 ± 47.5)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

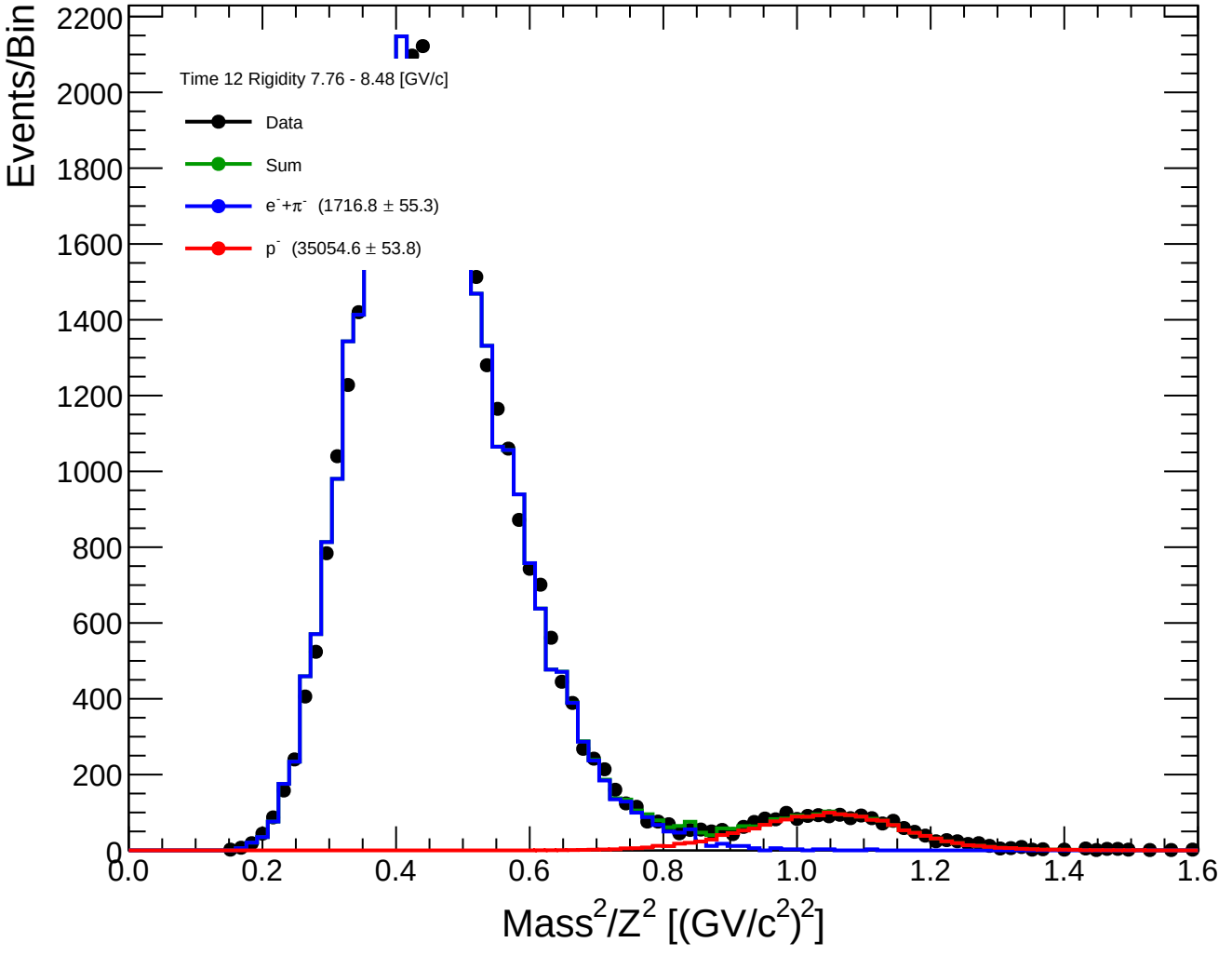

Time 11 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1818.5 ± 54.4)
p⁻ (18452.7 ± 52.7)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

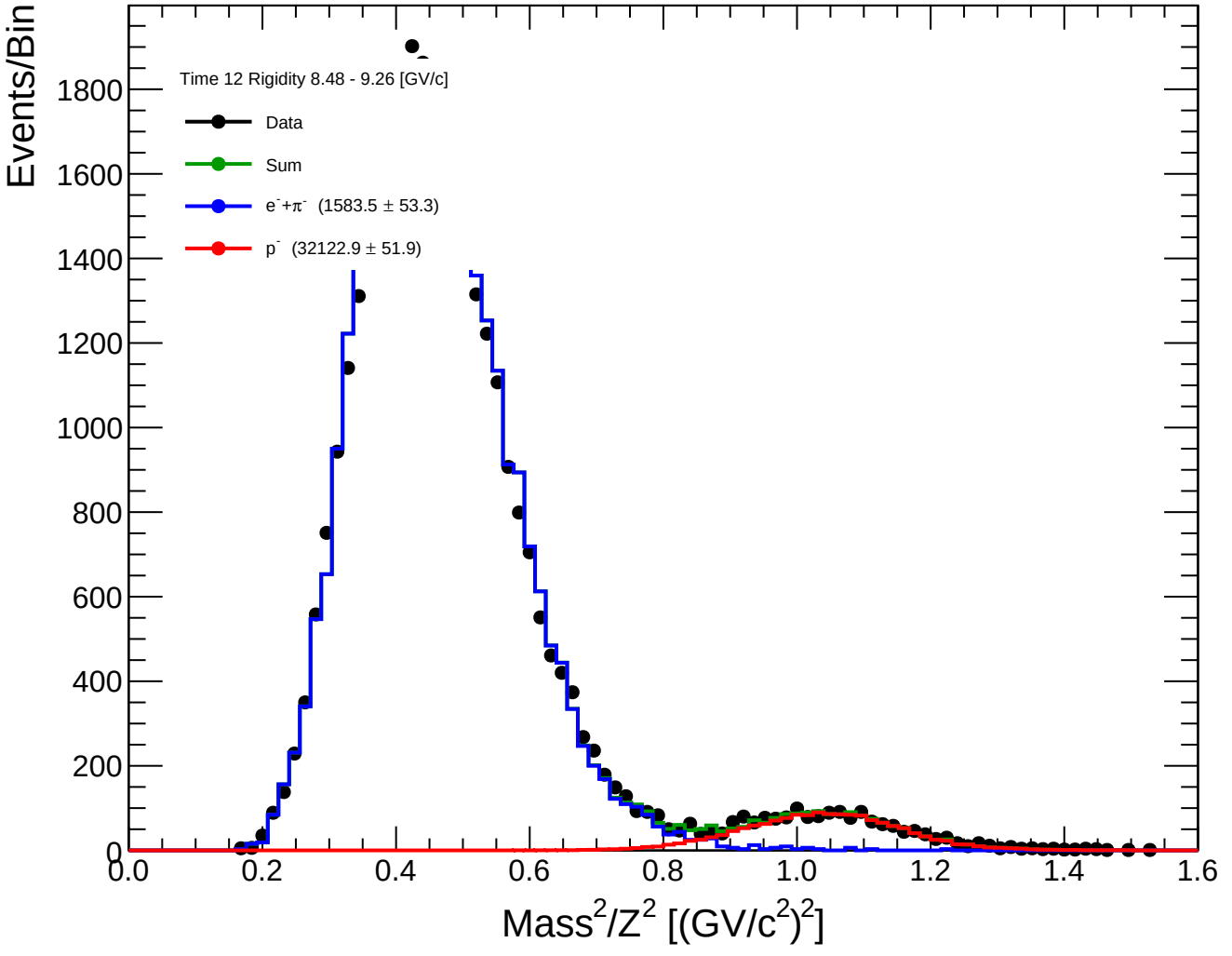

Time 11 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1473.3 ± 43.2)
p⁻ (12812.8 ± 41.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

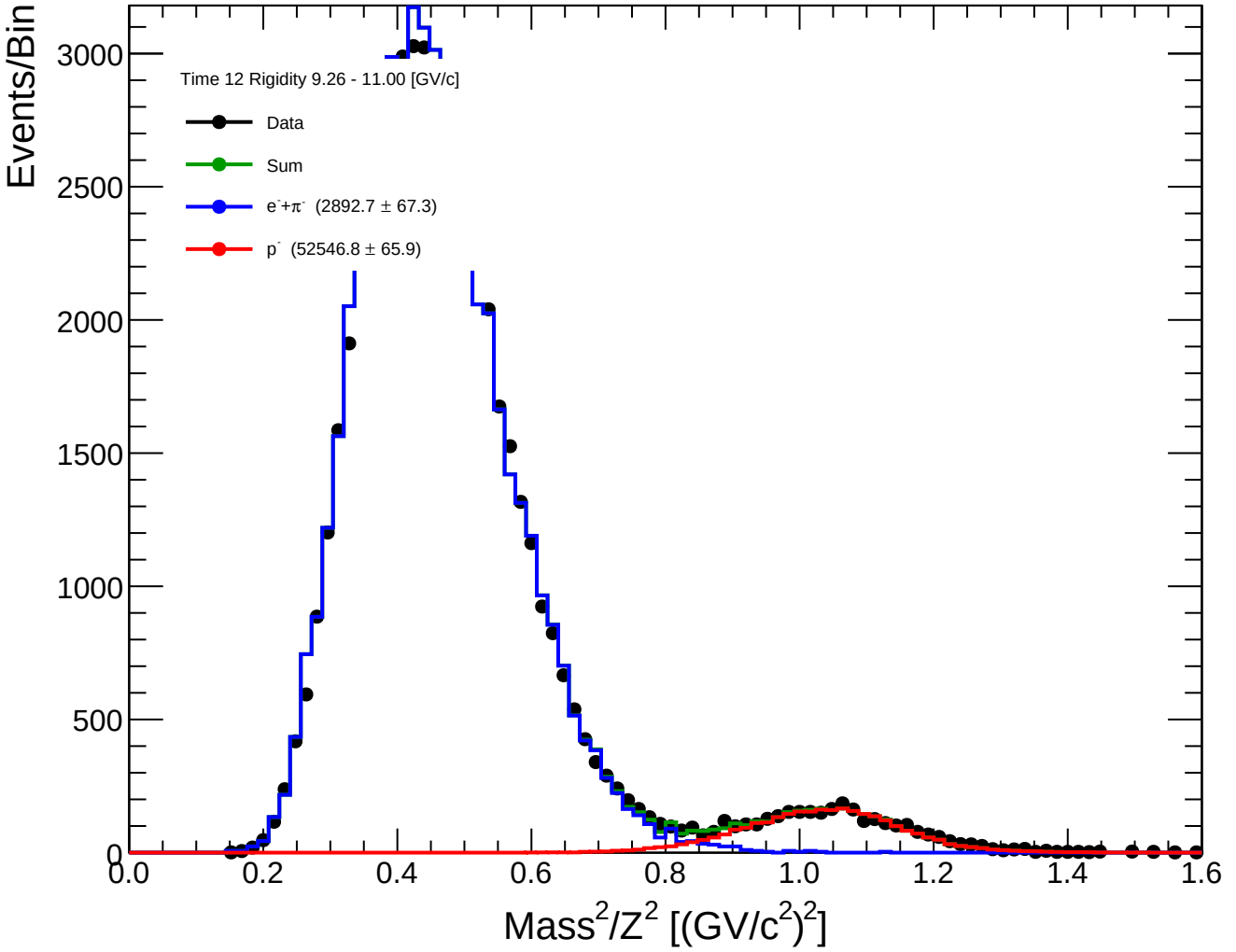

Time 11 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (998.5 ± 36.4)
p⁻ (8307.9 ± 35.9)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

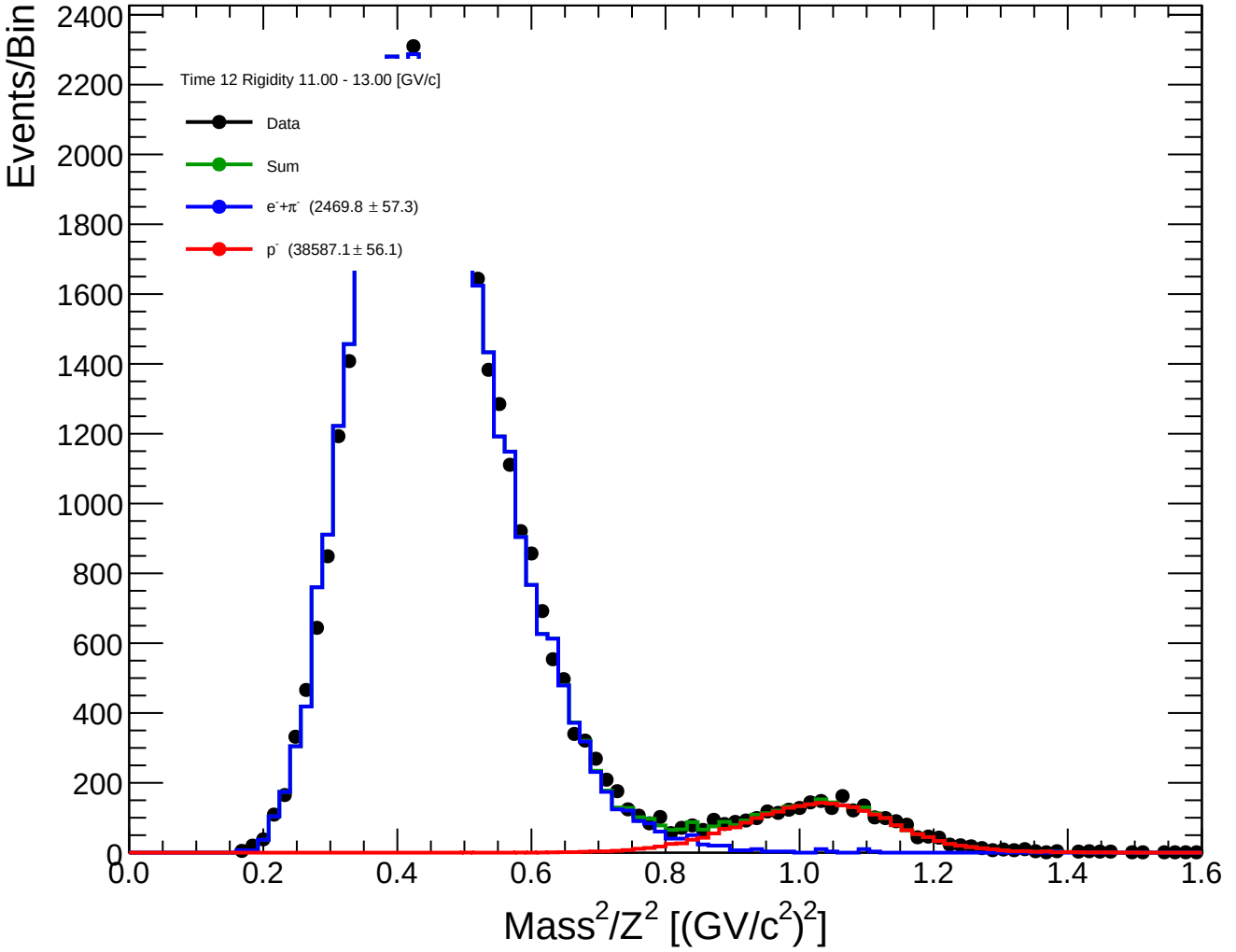

Time 11 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (688.2 ± 38.7)
p⁻ (5177.9 ± 38.0)
Events/Bin
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

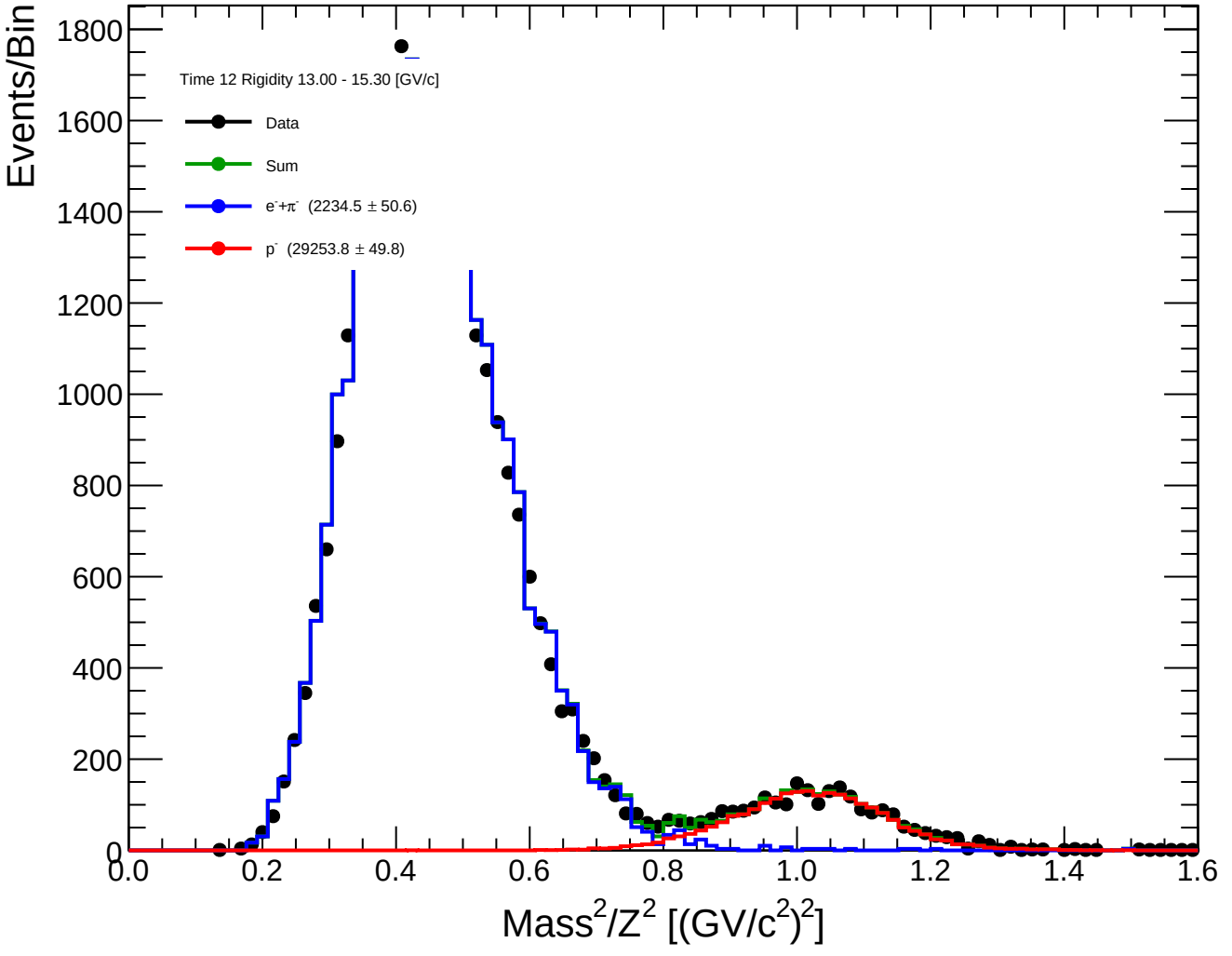

Time 12 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1828.3 ± 54.4)
p⁻ (35739.3 ± 52.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

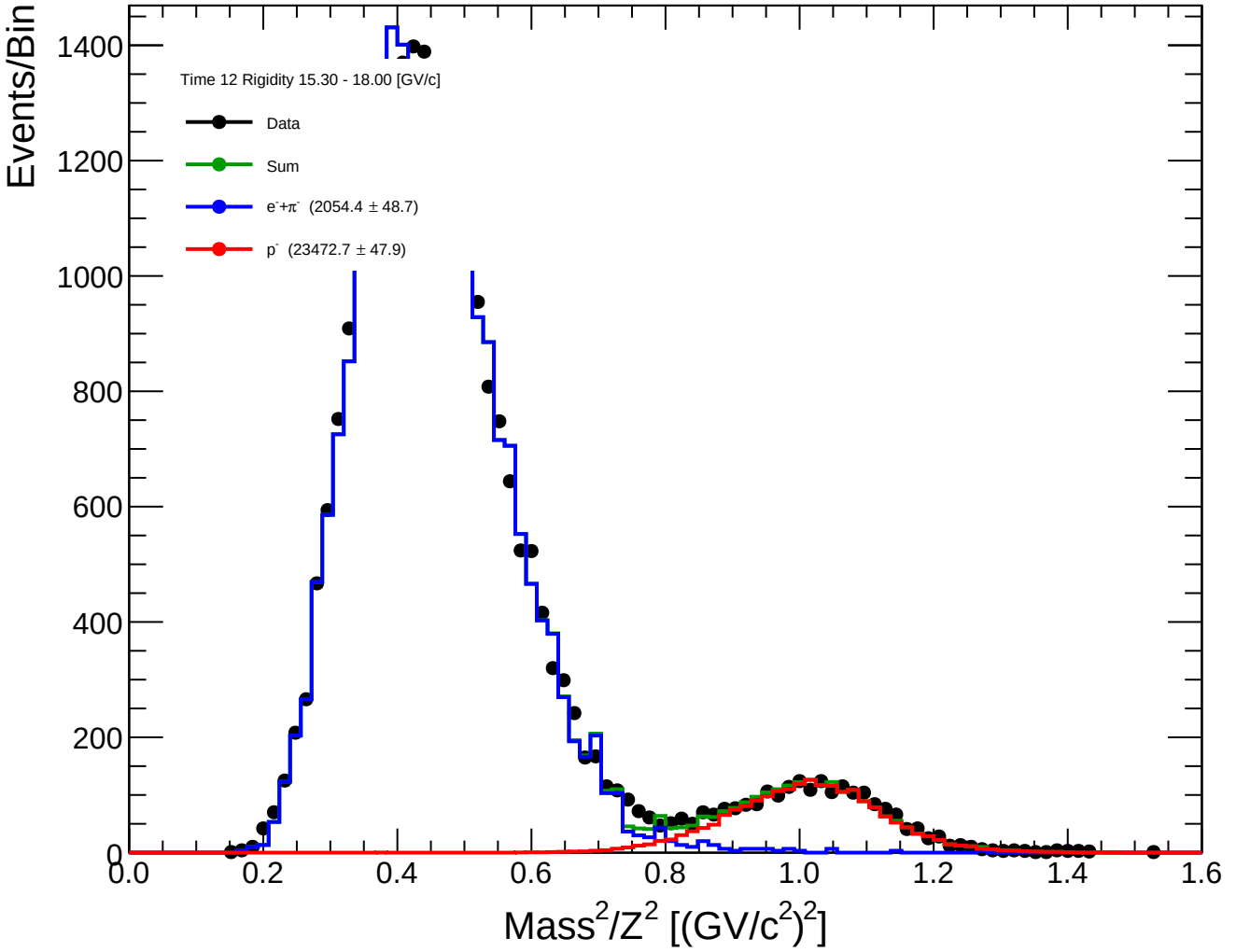

Time 12 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1716.8 ± 55.3)
p⁻ (35054.6 ± 53.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

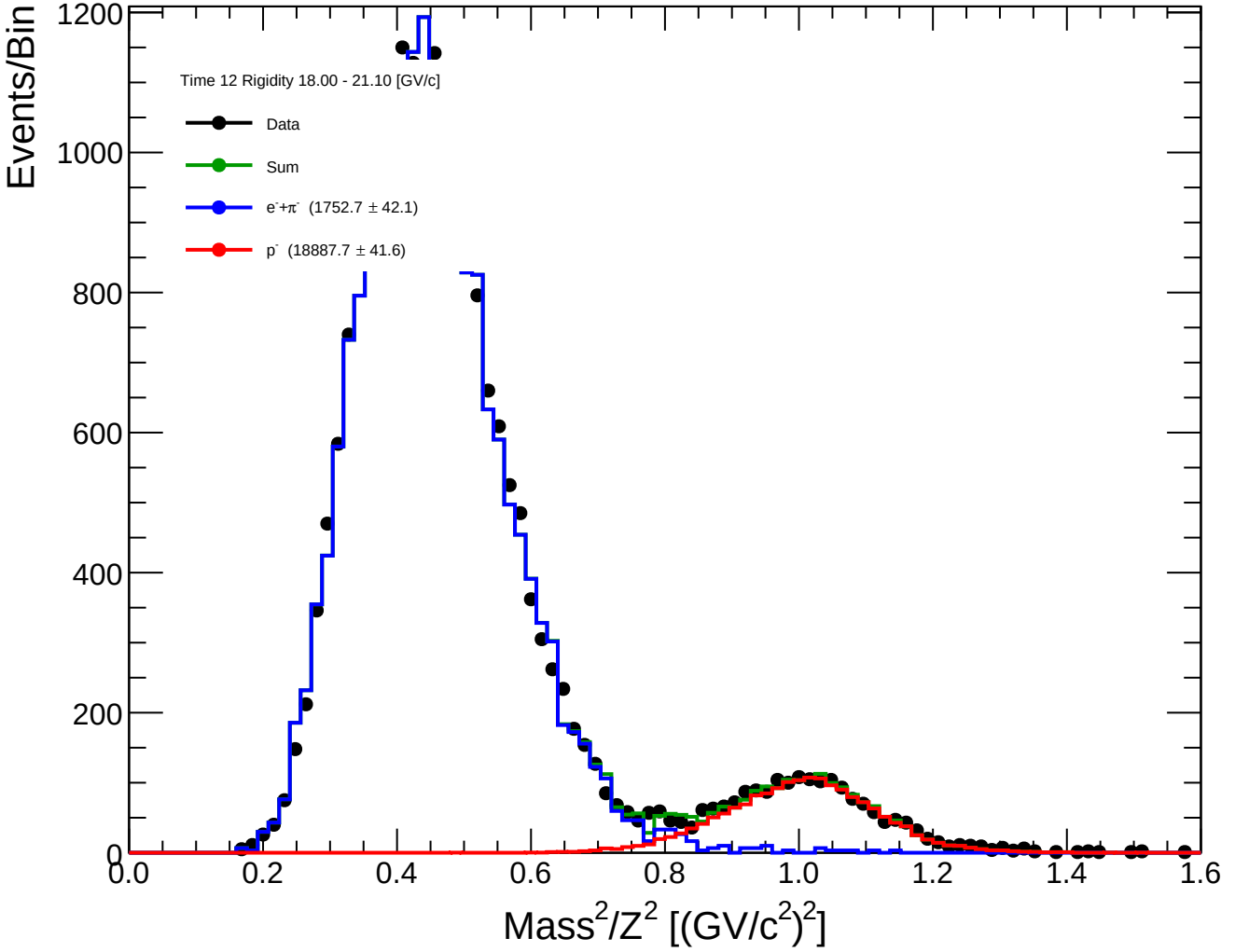

Time 12 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1583.5 ± 53.3)
p⁻ (32122.9 ± 51.9)
Events/Bin
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

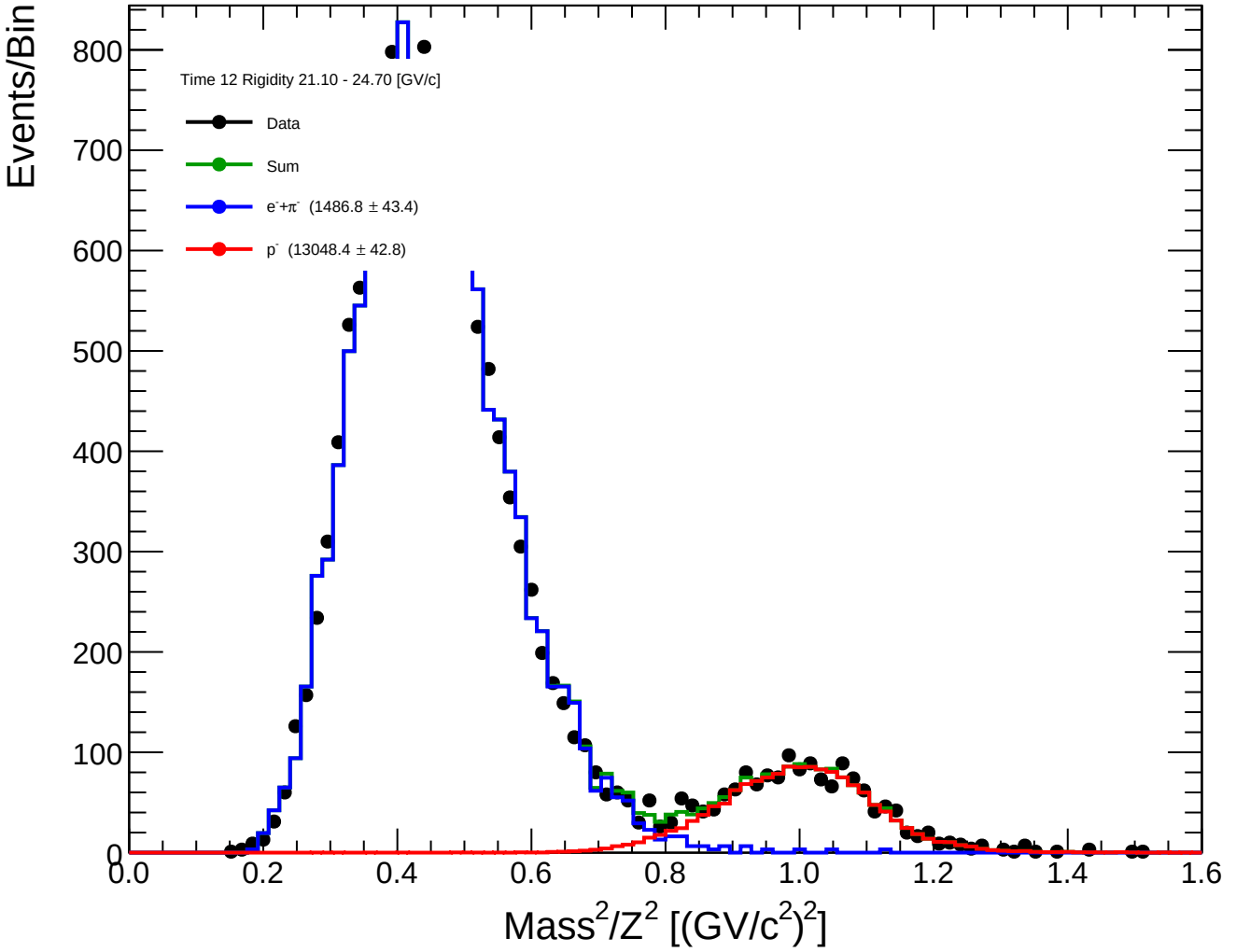

Events/Bin
3000
2500
2000
1500
1000
500
0
Time 12 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2892.7 ± 67.3)
p⁻ (52546.8 ± 65.9)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

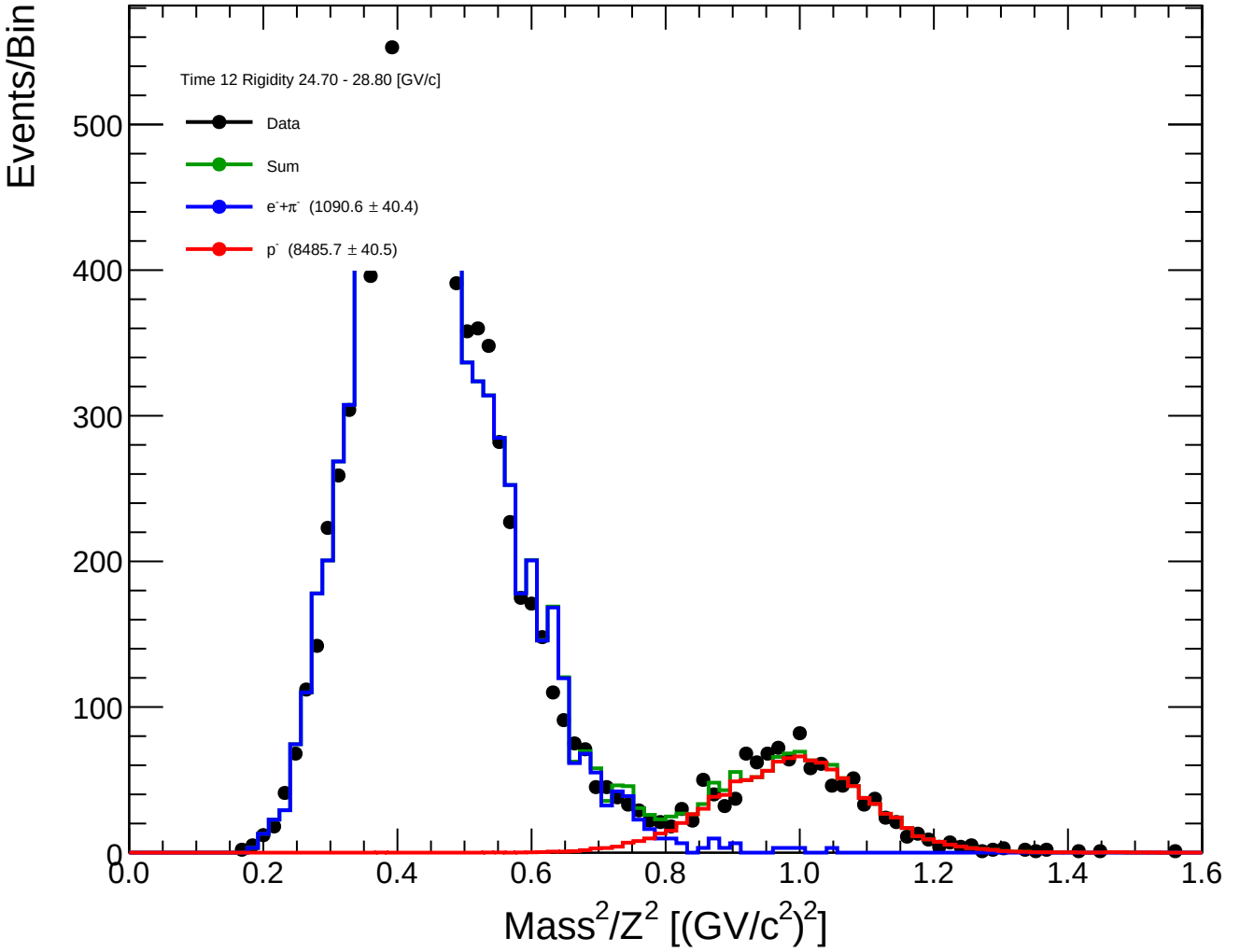

Time 12 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2469.8 ± 57.3)
p⁻ (38587.1 ± 56.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

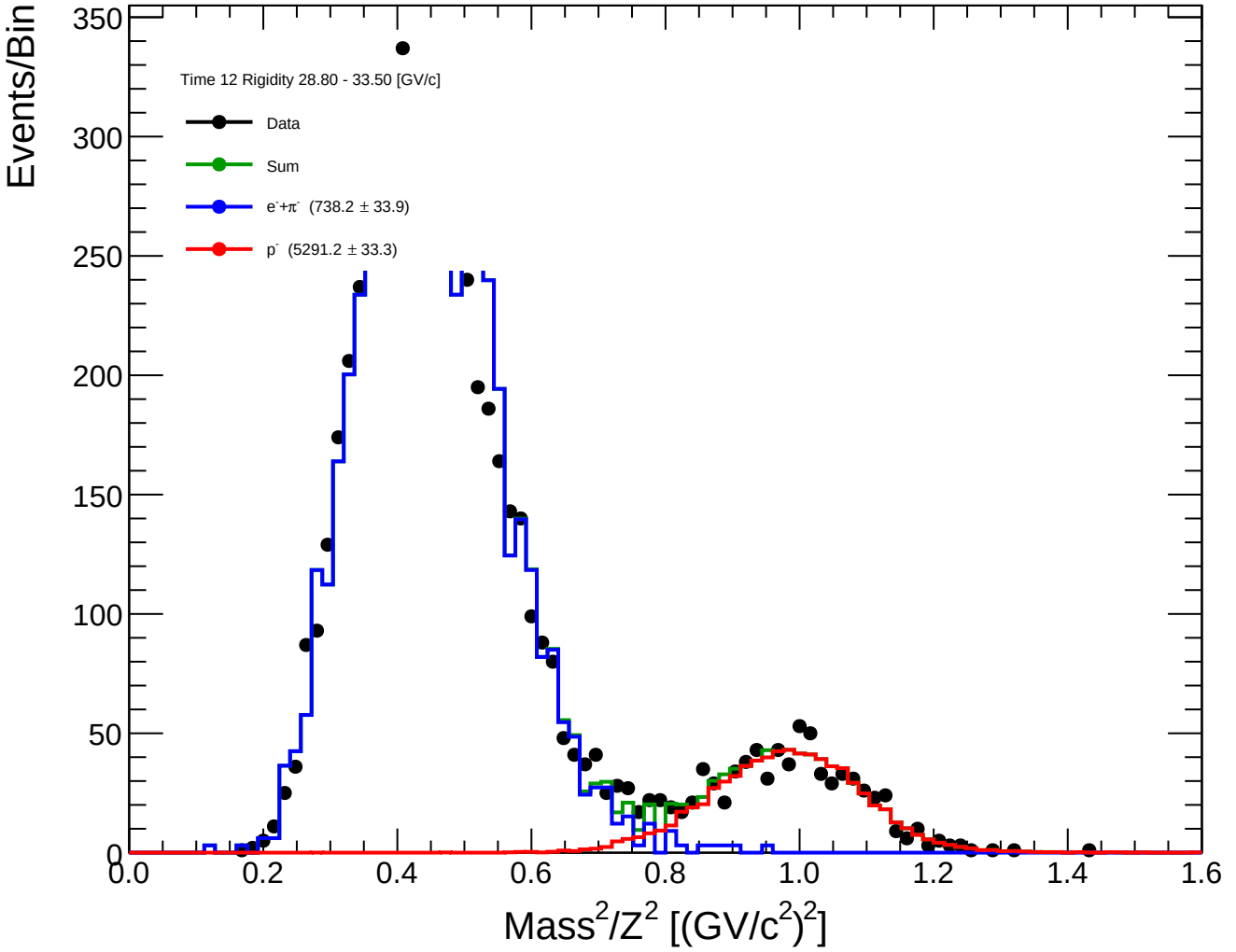

Time 12 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2234.5 ± 50.6)
p⁻ (29253.8 ± 49.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

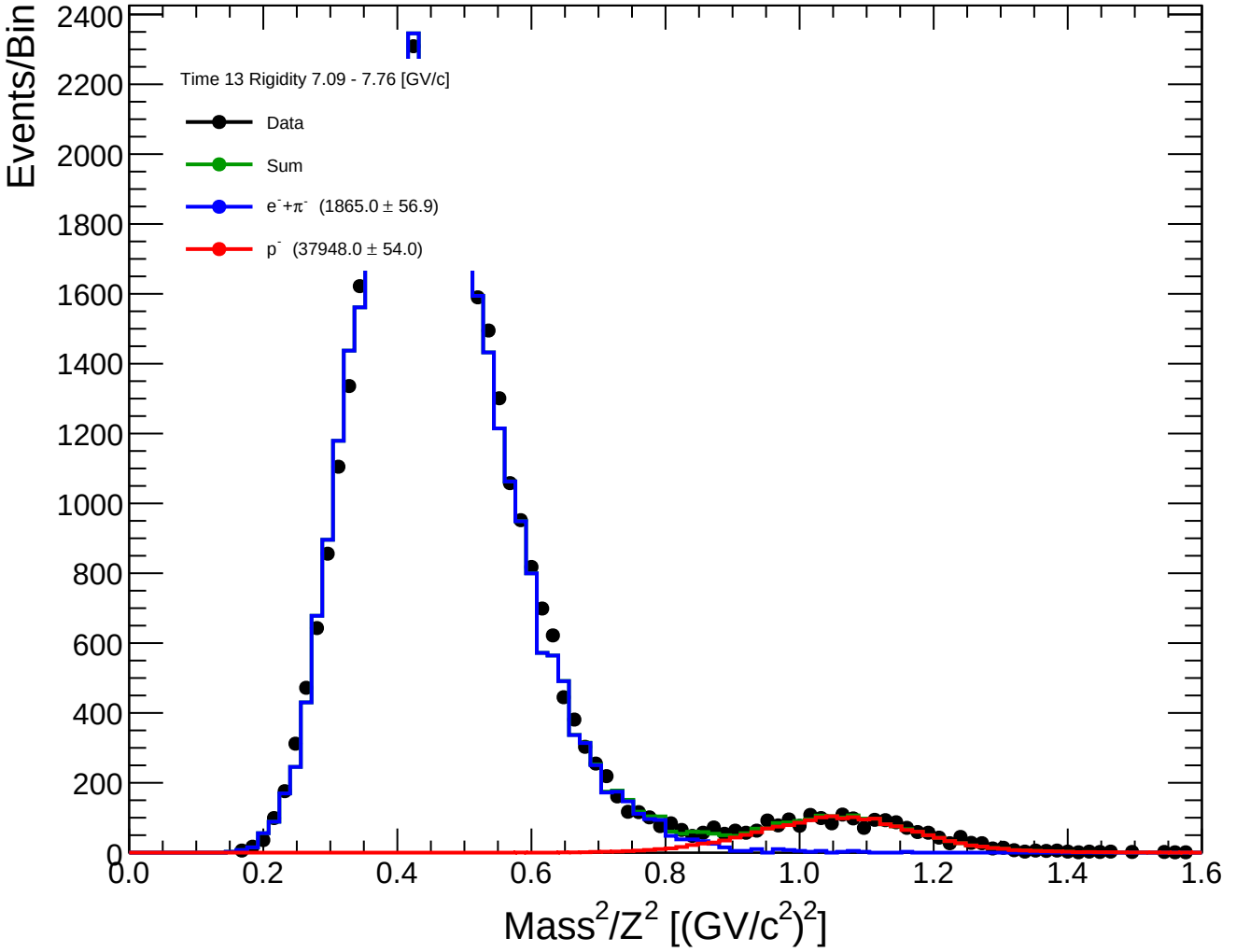

Time 12 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2054.4 ± 48.7)
p⁻ (23472.7 ± 47.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

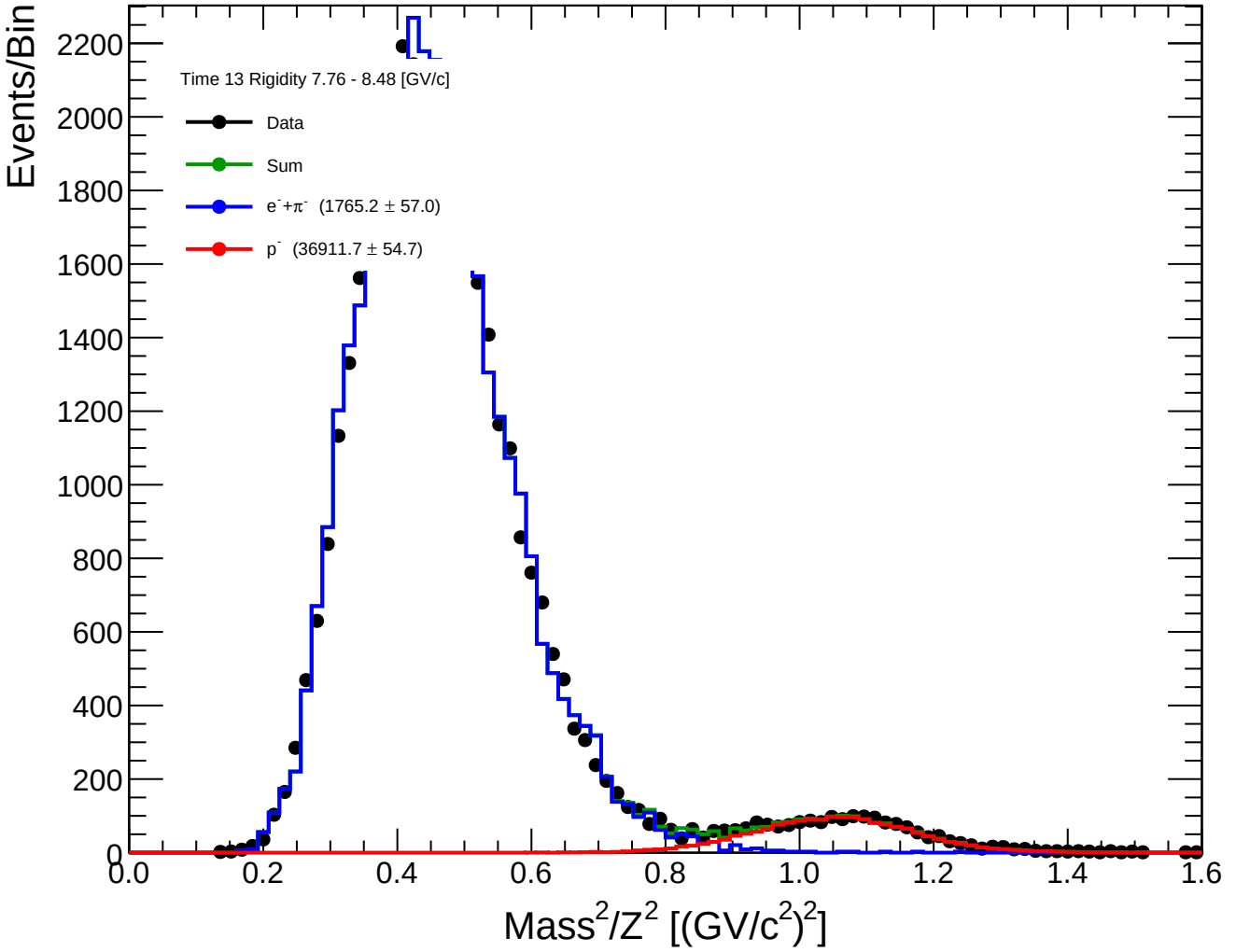

Time 12 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1752.7 ± 42.1)
p⁻ (18887.7 ± 41.6)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

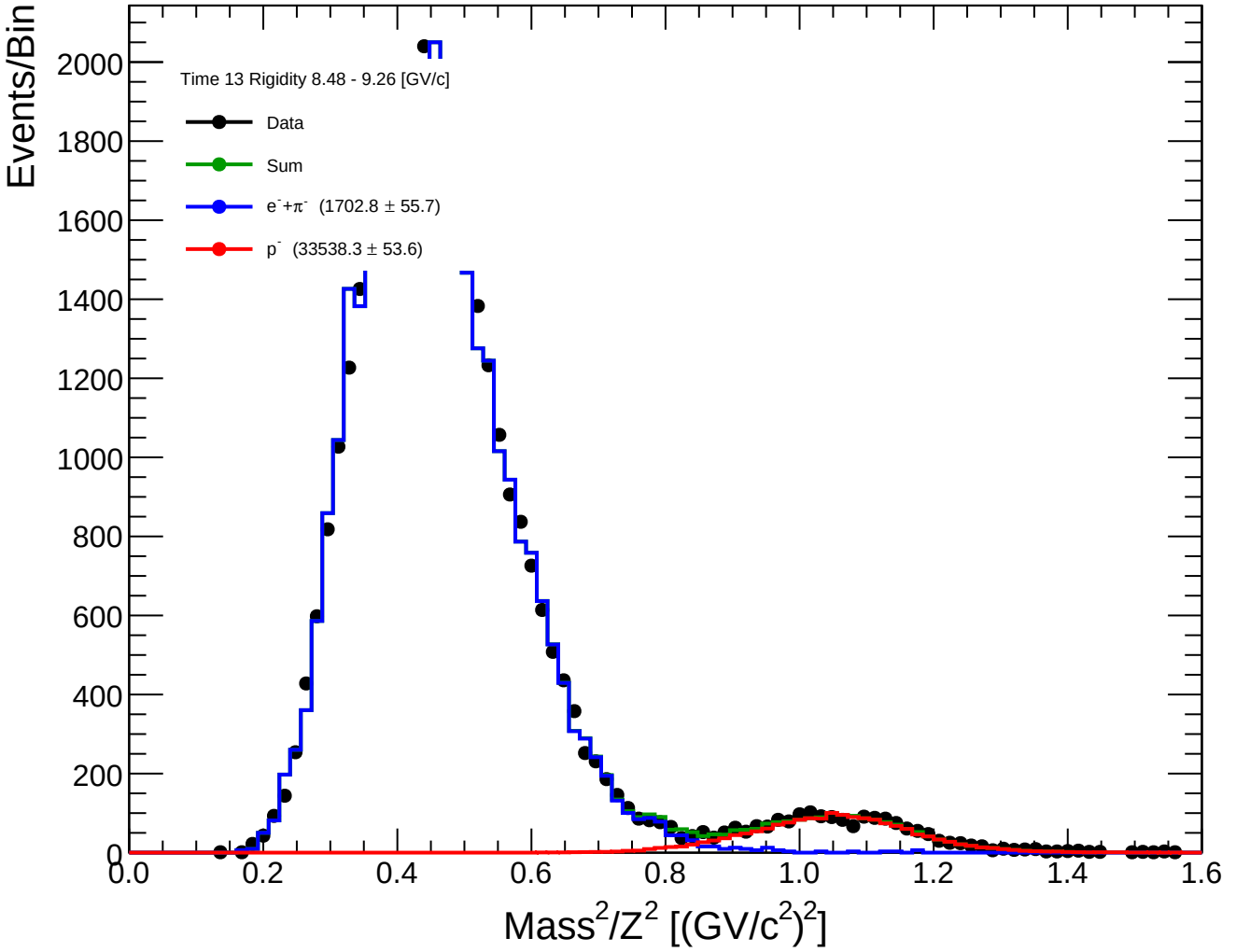

Time 12 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1486.8 ± 43.4)
p⁻ (13048.4 ± 42.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

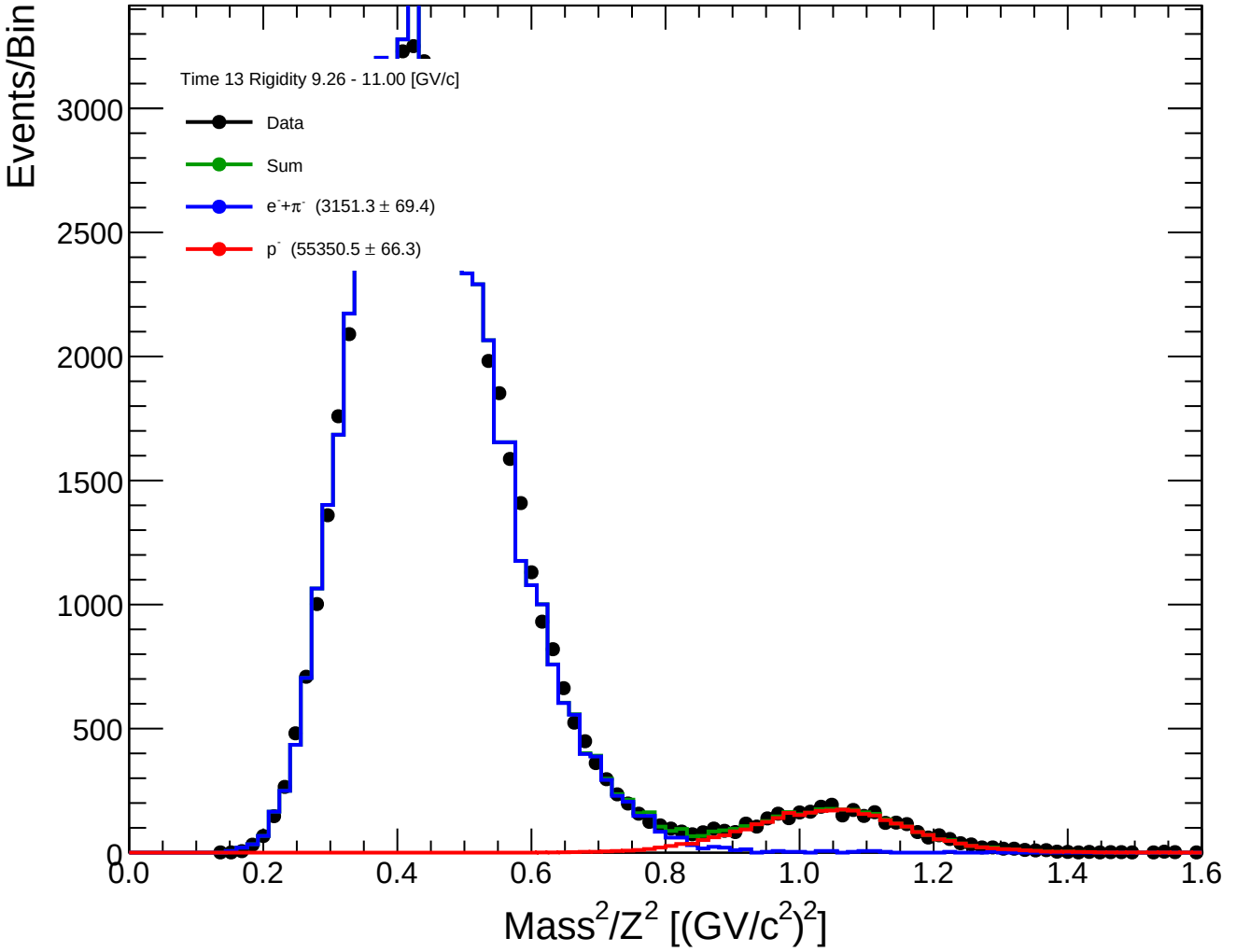

Time 12 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1090.6 ± 40.4)
p⁻ (8485.7 ± 40.5)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

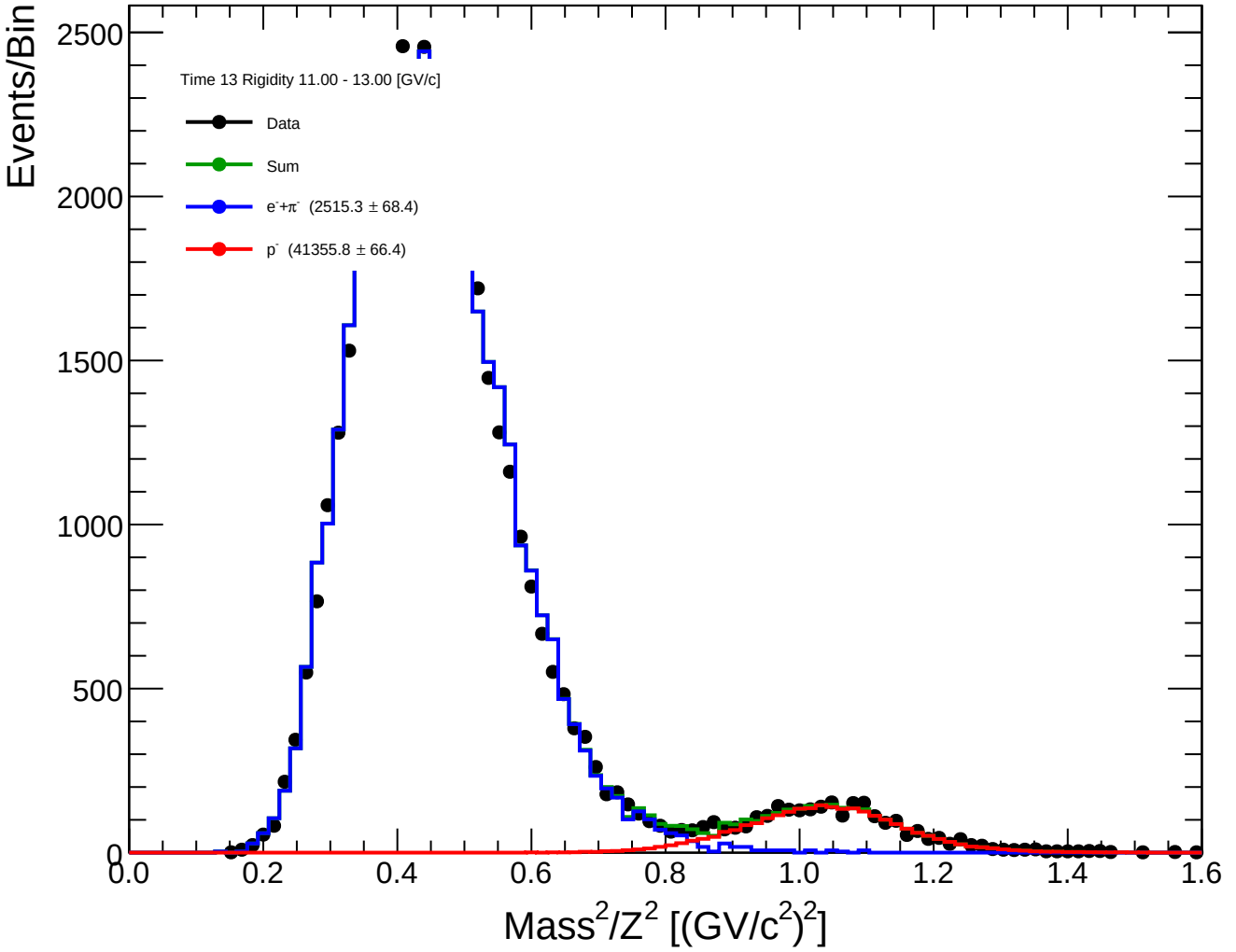

Time 12 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (738.2 ± 33.9)
p⁻ (5291.2 ± 33.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

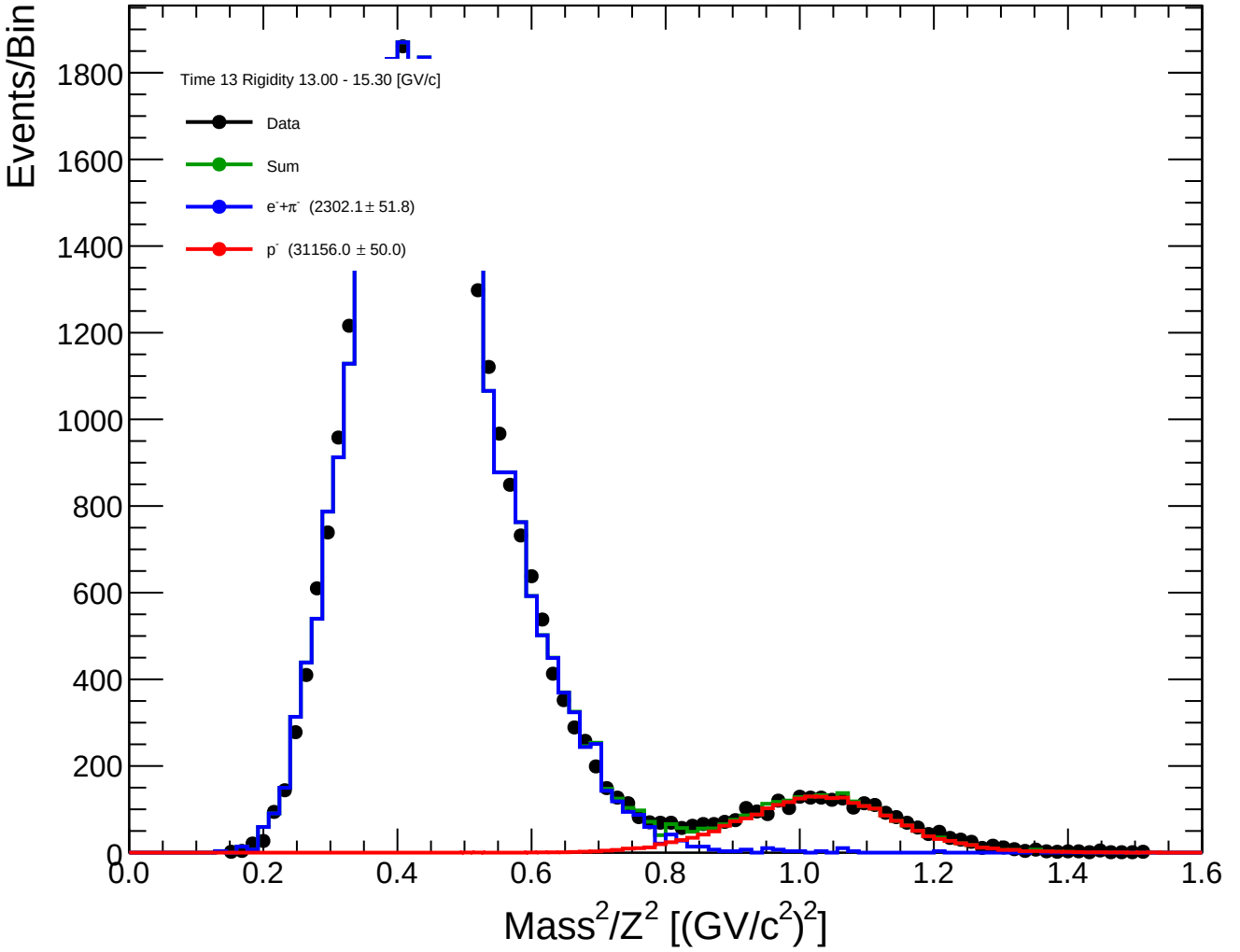

Events/Bin
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Time 13 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1865.0 ± 56.9)
p⁻ (37948.0 ± 54.0)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

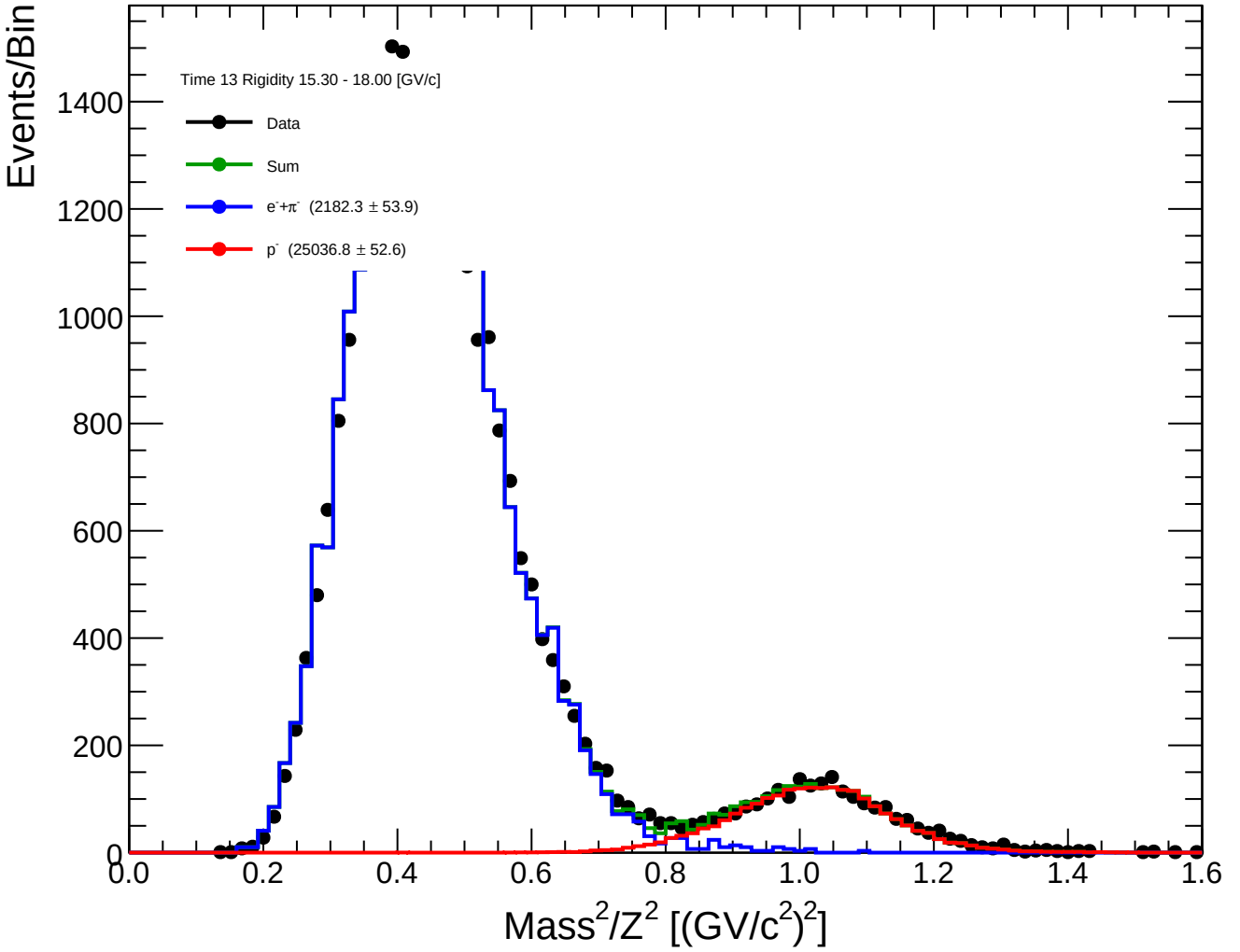

Time 13 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1765.2 ± 57.0)
p⁻ (36911.7 ± 54.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

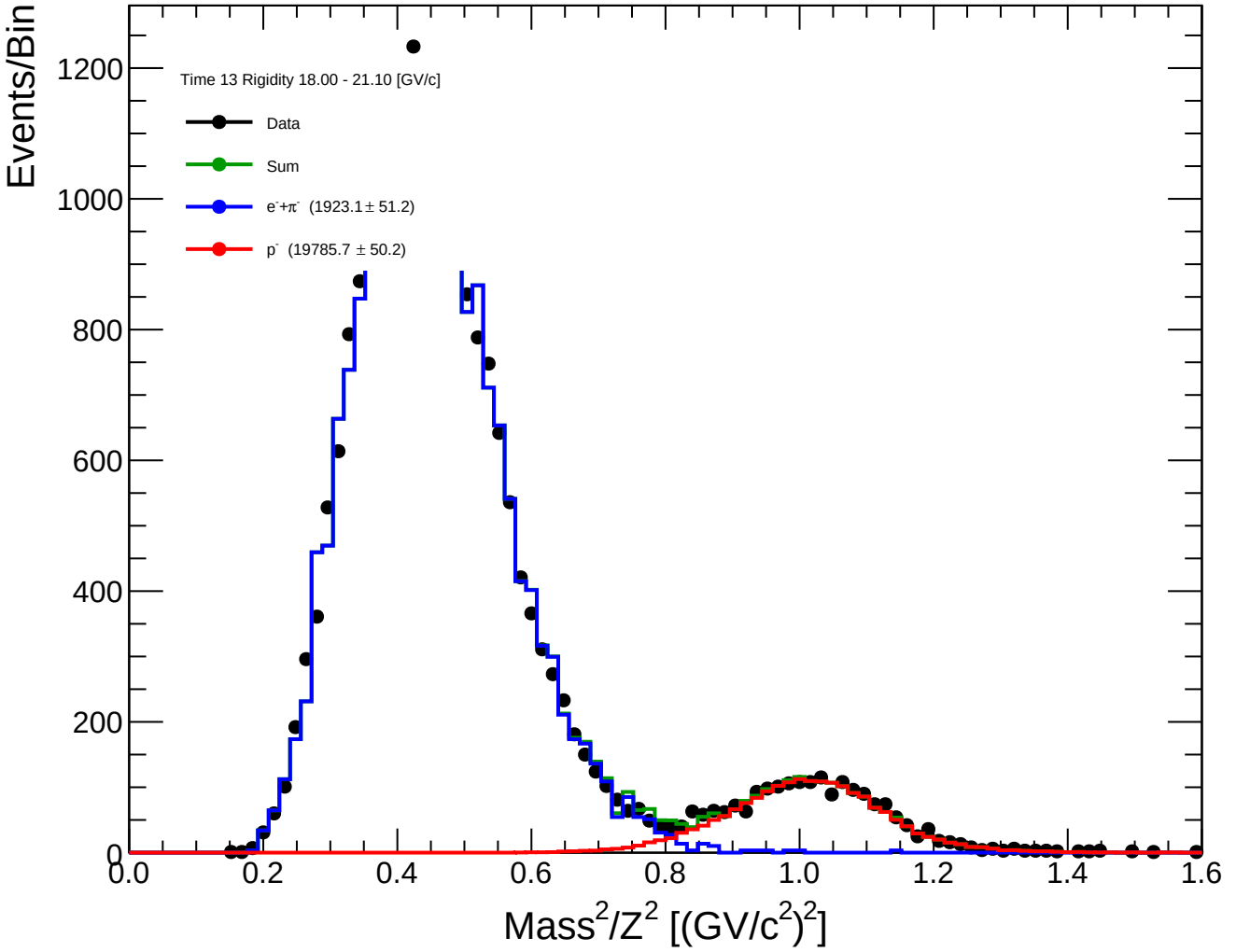

Time 13 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1702.8 ± 55.7)
p⁻ (33538.3 ± 53.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

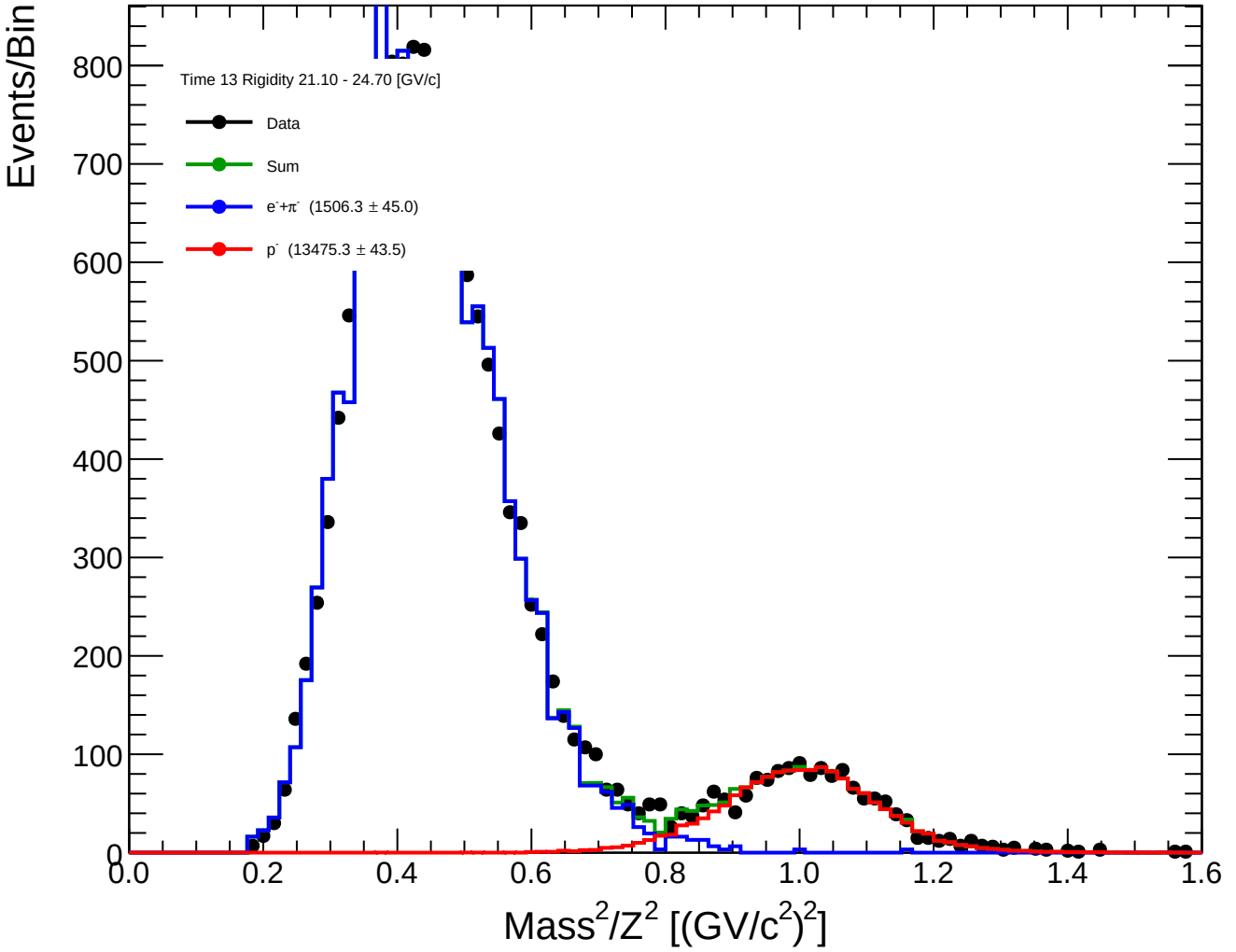

Time 13 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (3151.3 ± 69.4)
p⁻ (55350.5 ± 66.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

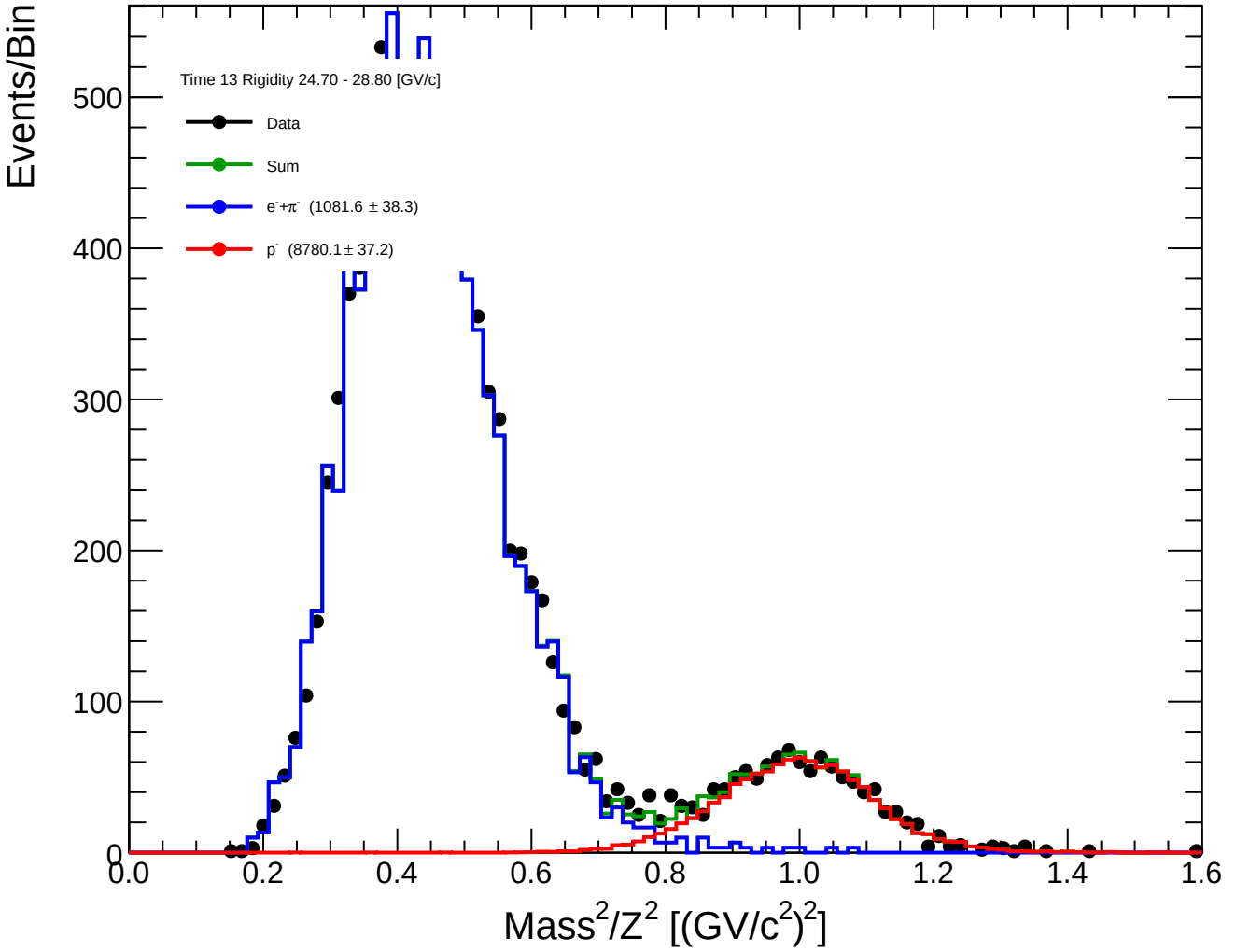

Time 13 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2515.3 ± 68.4)
p⁻ (41355.8 ± 66.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

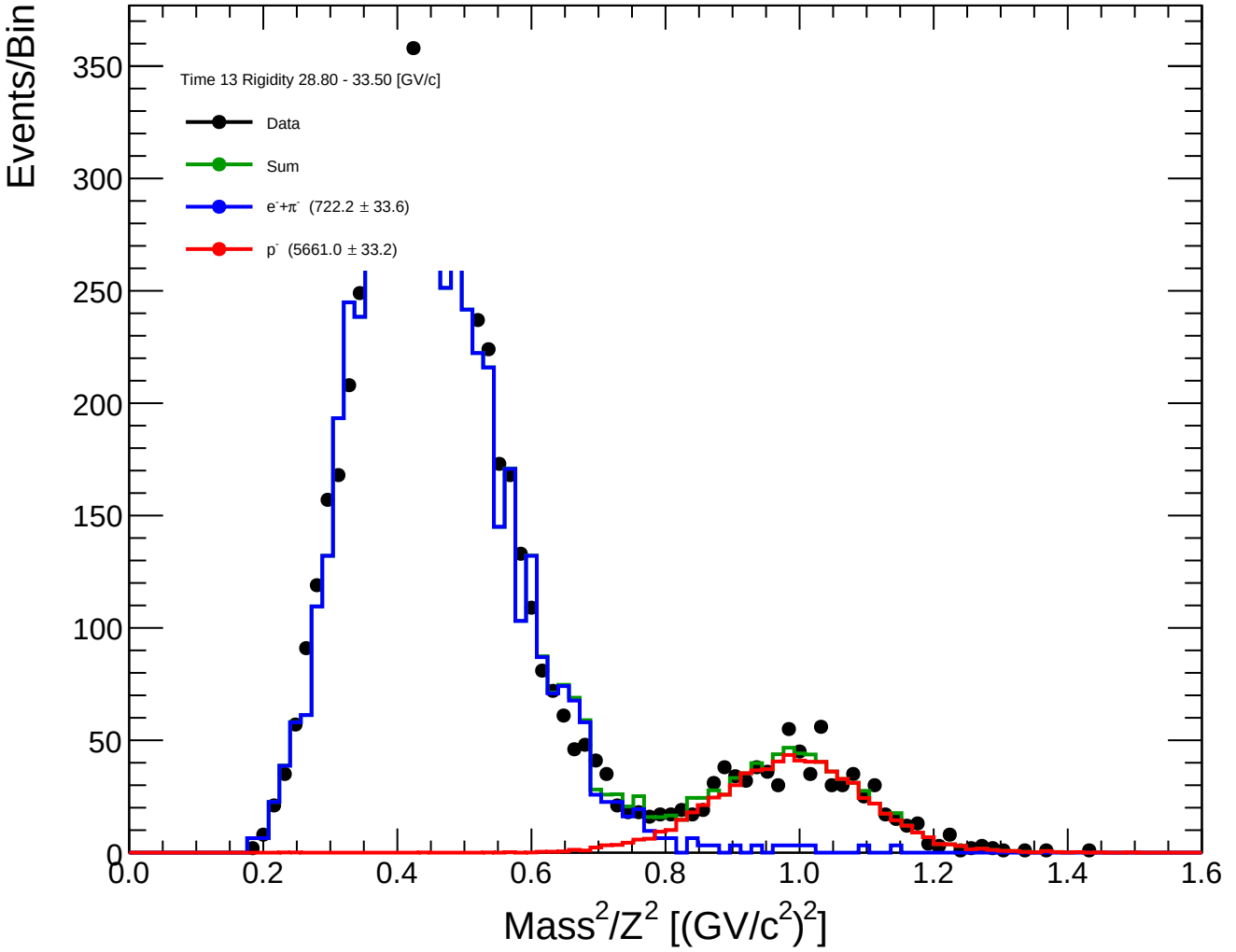

Time 13 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2302.1 ± 51.8)
p⁻ (31156.0 ± 50.0)
Events/Bin
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

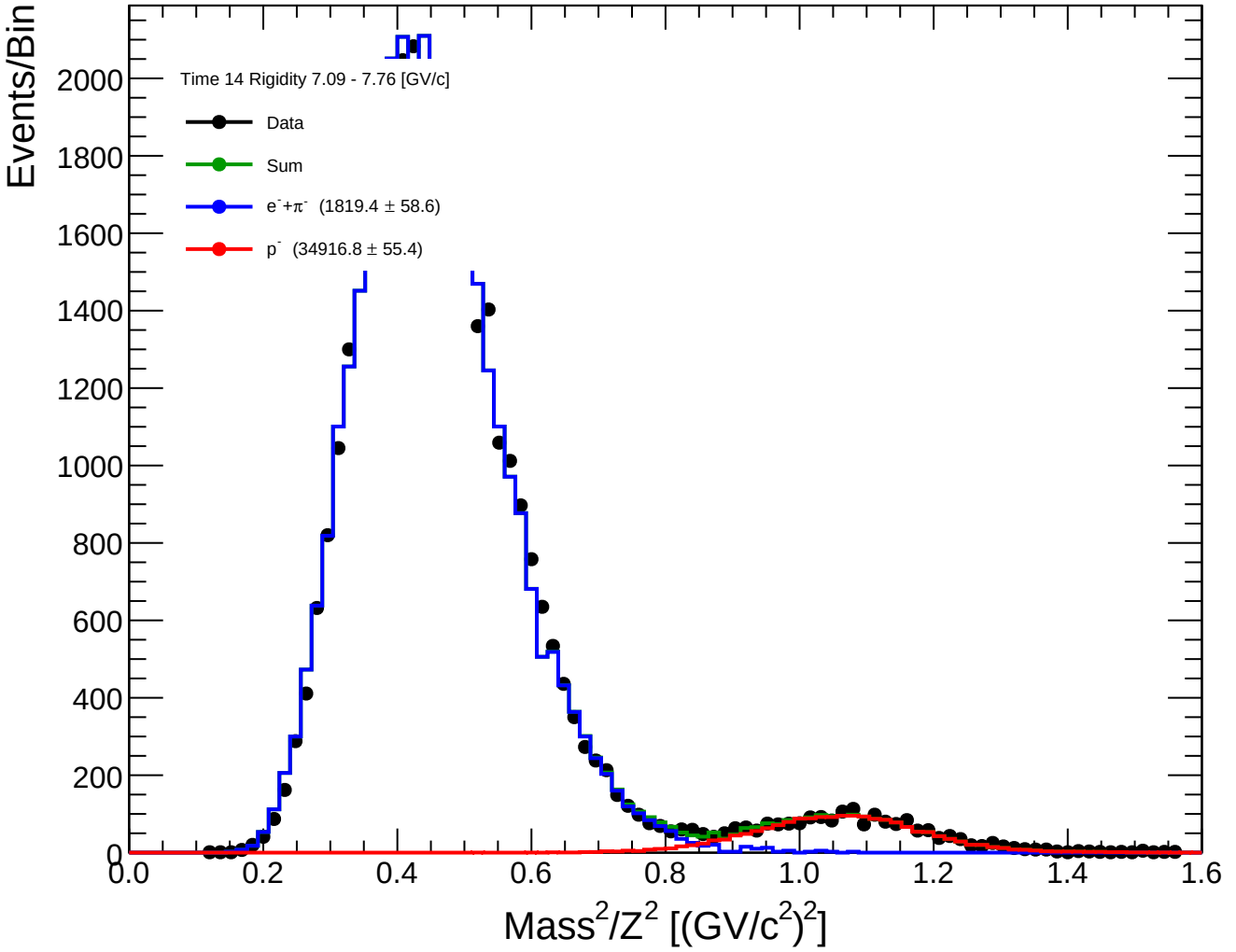

Time 13 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2182.3 ± 53.9)
p⁻ (25036.8 ± 52.6)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

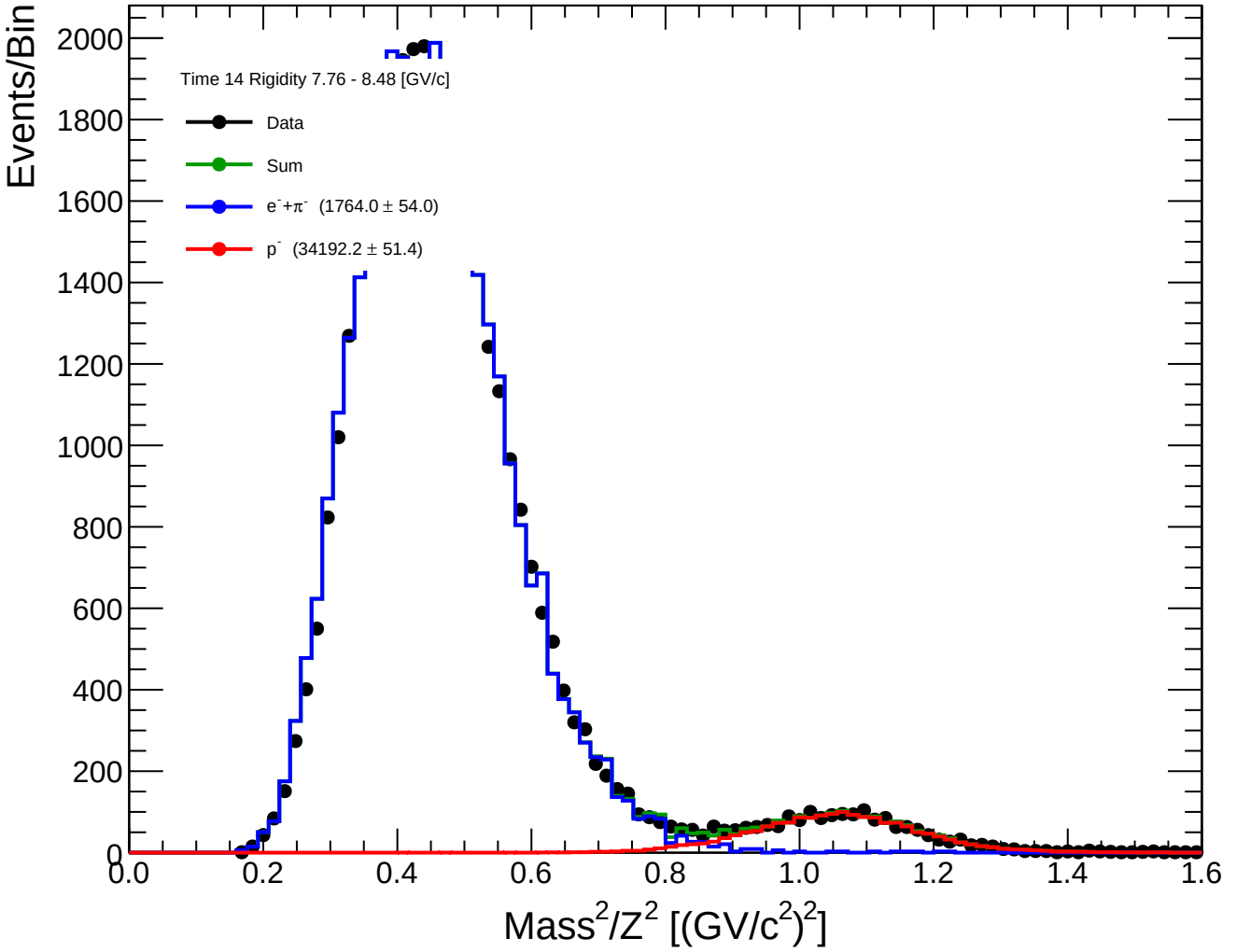

Time 13 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1923.1 ± 51.2)
p⁻ (19785.7 ± 50.2)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

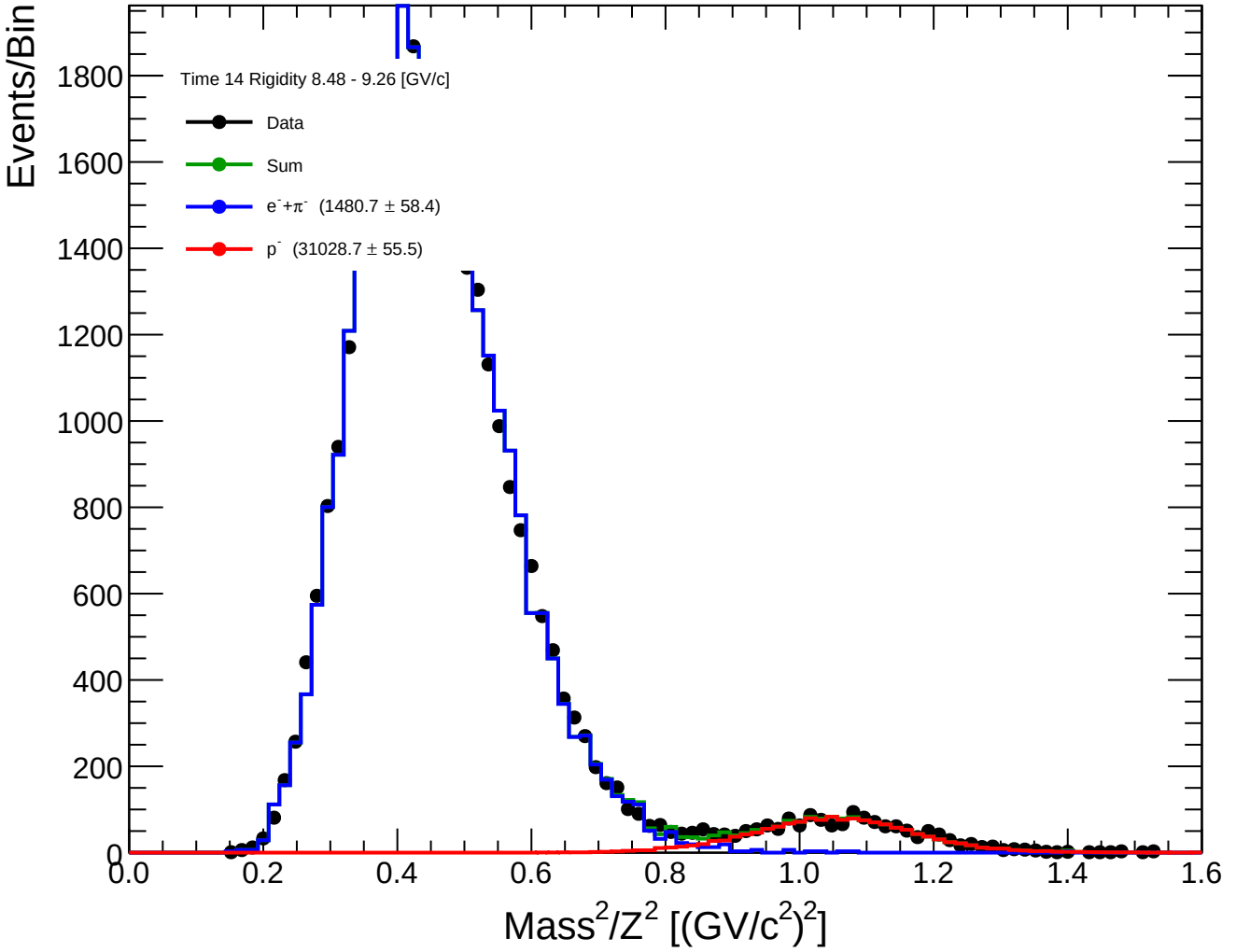

Time 13 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1506.3 ± 45.0)
p⁻ (13475.3 ± 43.5)
Events/Bin
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

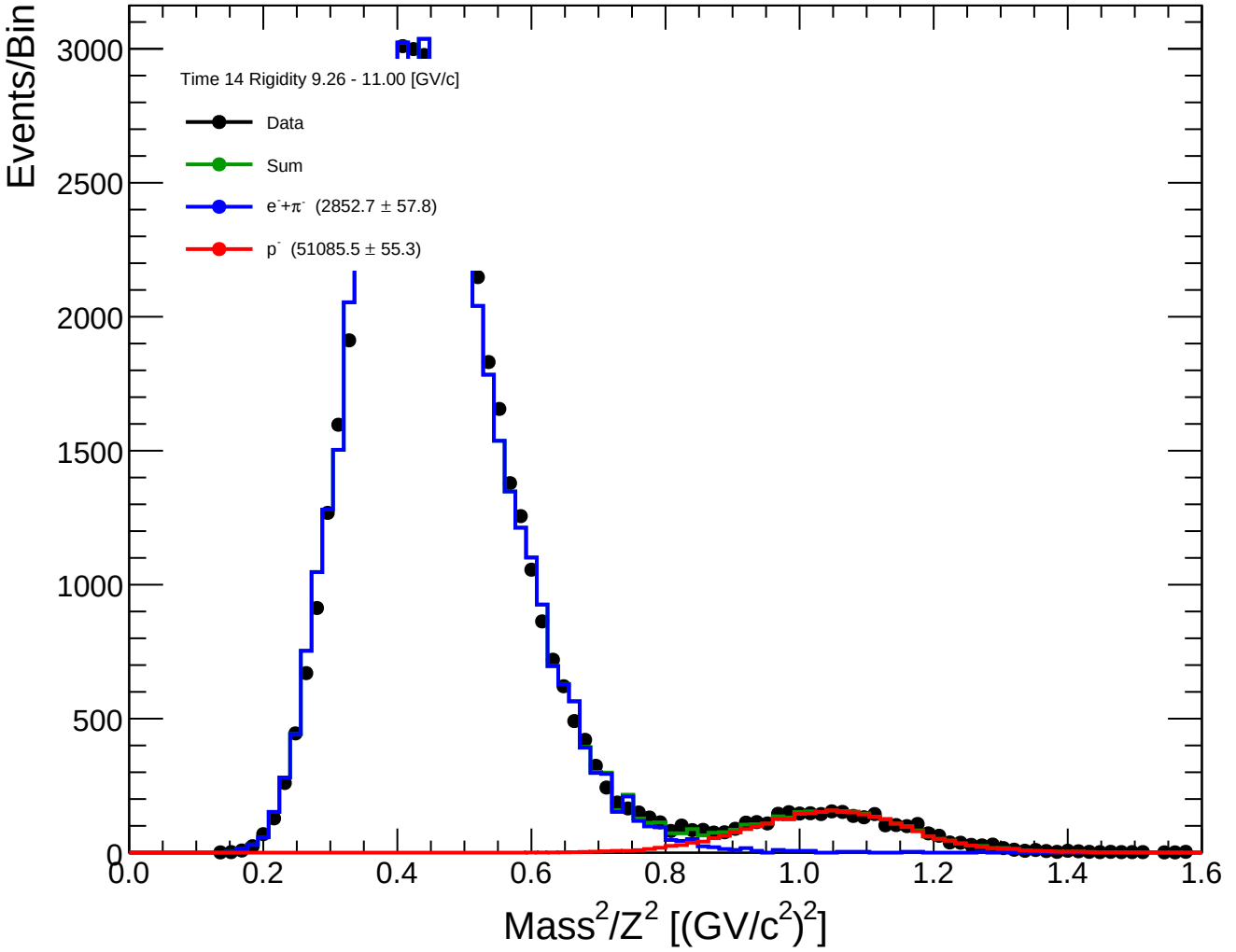

Time 13 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1081.6 ± 38.3)
p⁻ (8780.1 ± 37.2)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

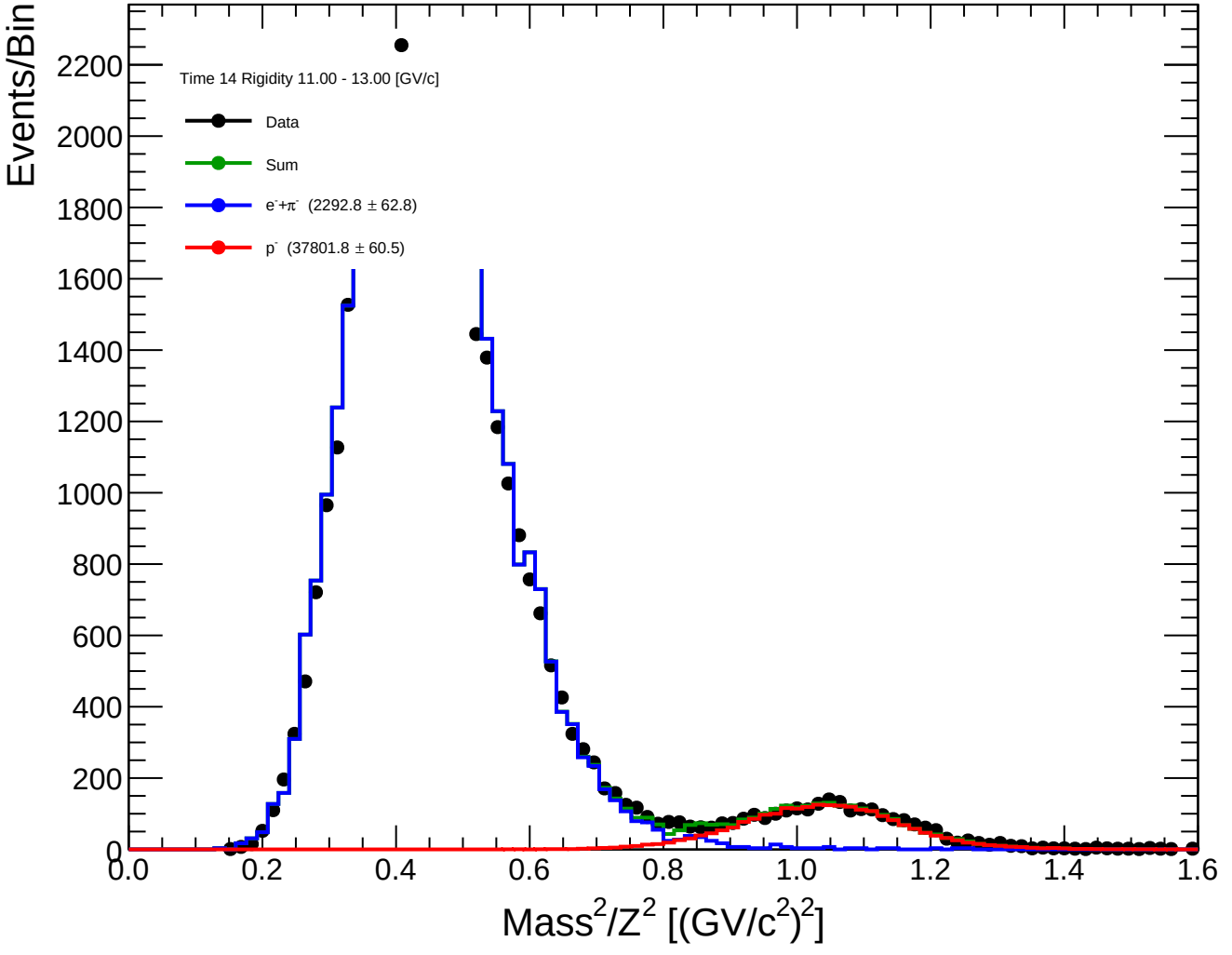

Time 13 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (722.2 ± 33.6)
p⁻ (5661.0 ± 33.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

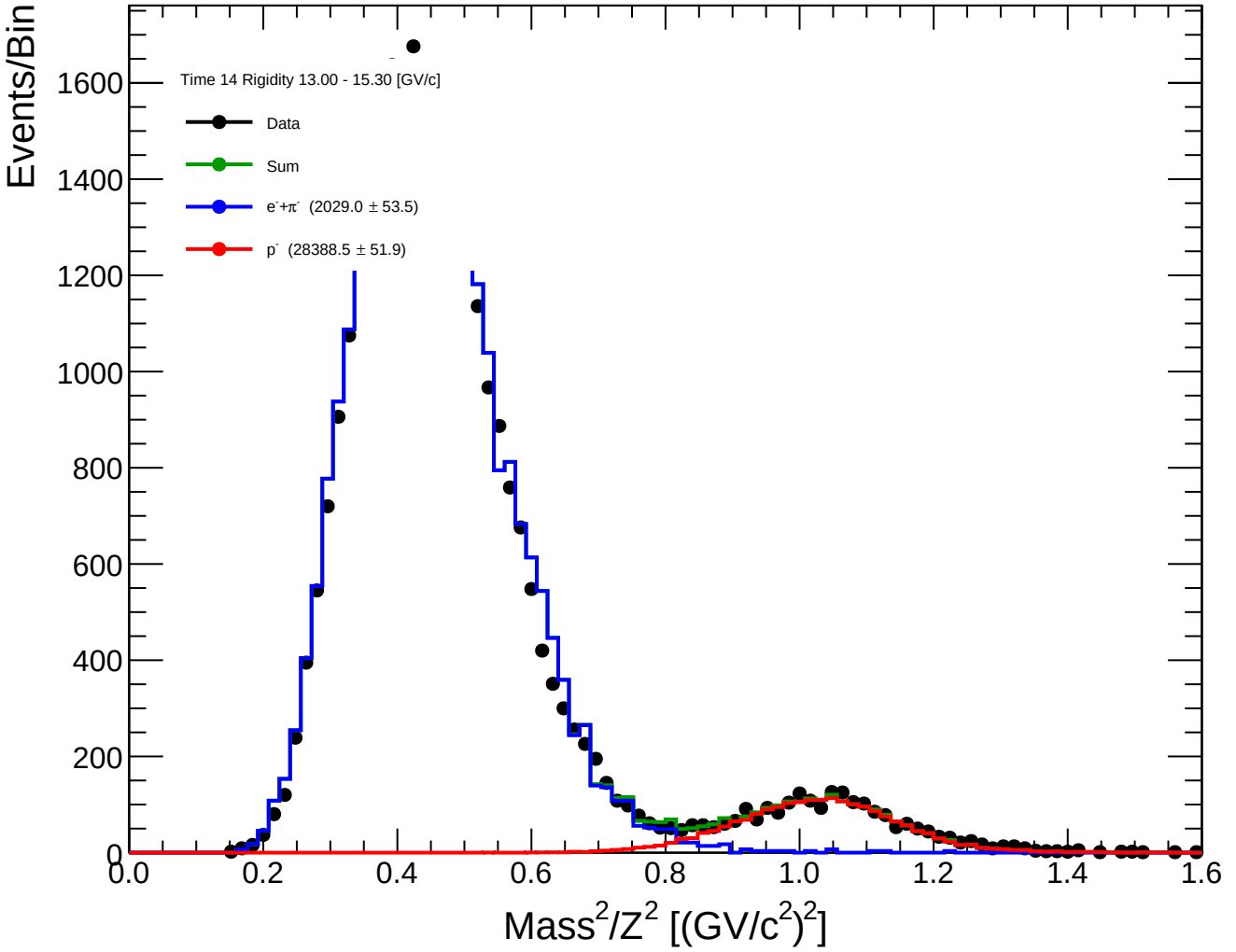

Events/Bin
Time 14 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1819.4 ± 58.6)
p⁻ (34916.8 ± 55.4)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

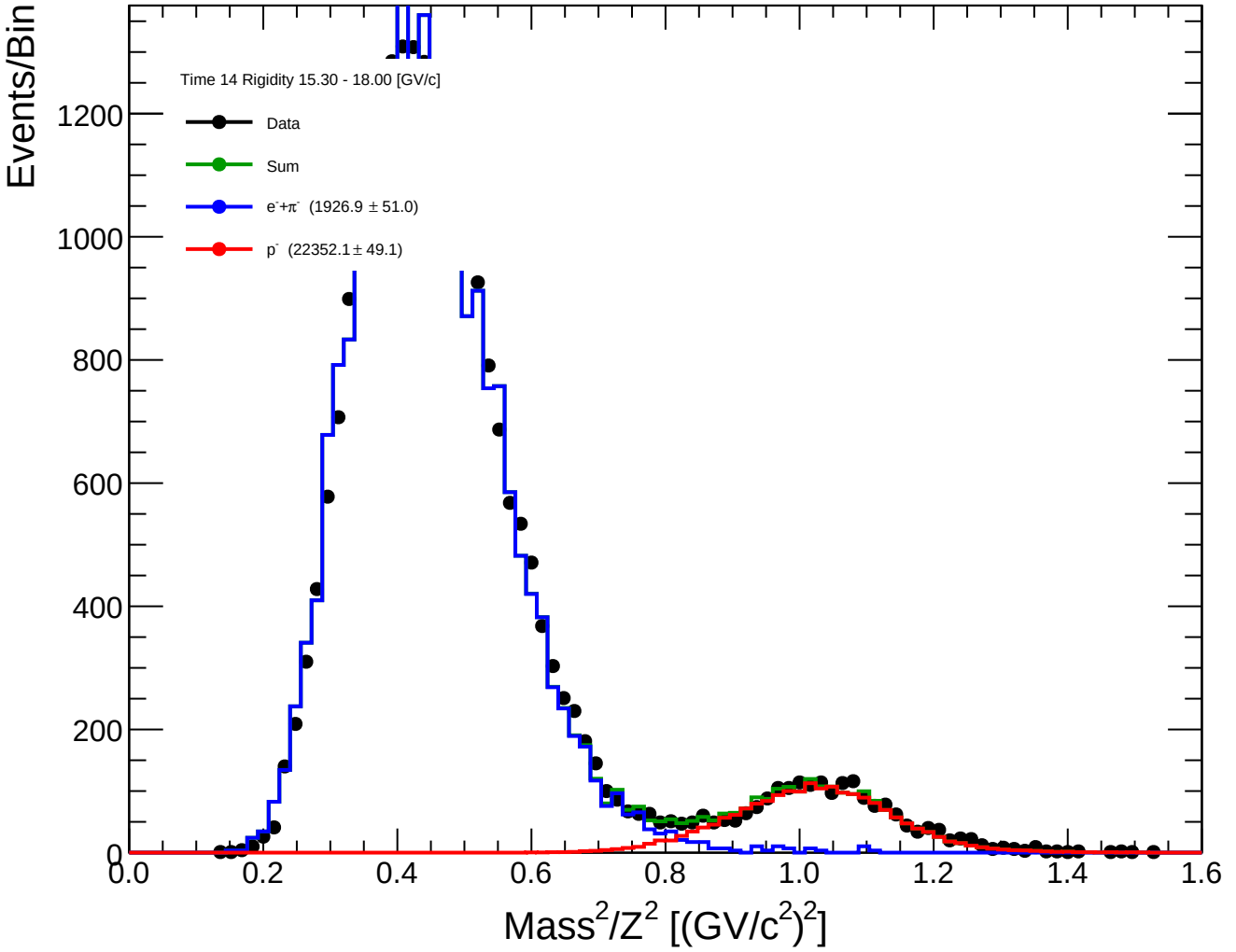

Time 14 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1764.0 ± 54.0)
p⁻ (34192.2 ± 51.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

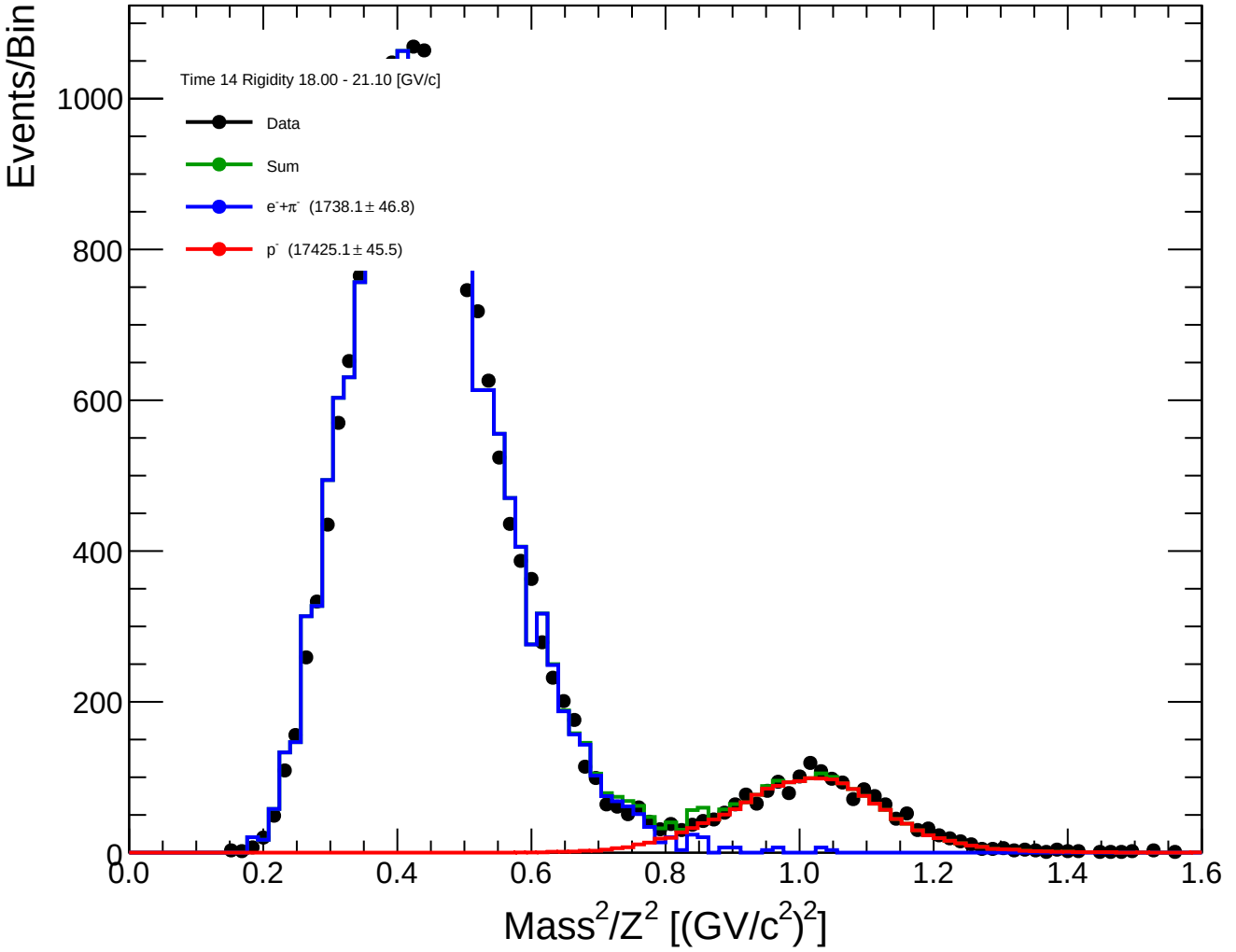

Time 14 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1480.7 ± 58.4)
p⁻ (31028.7 ± 55.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

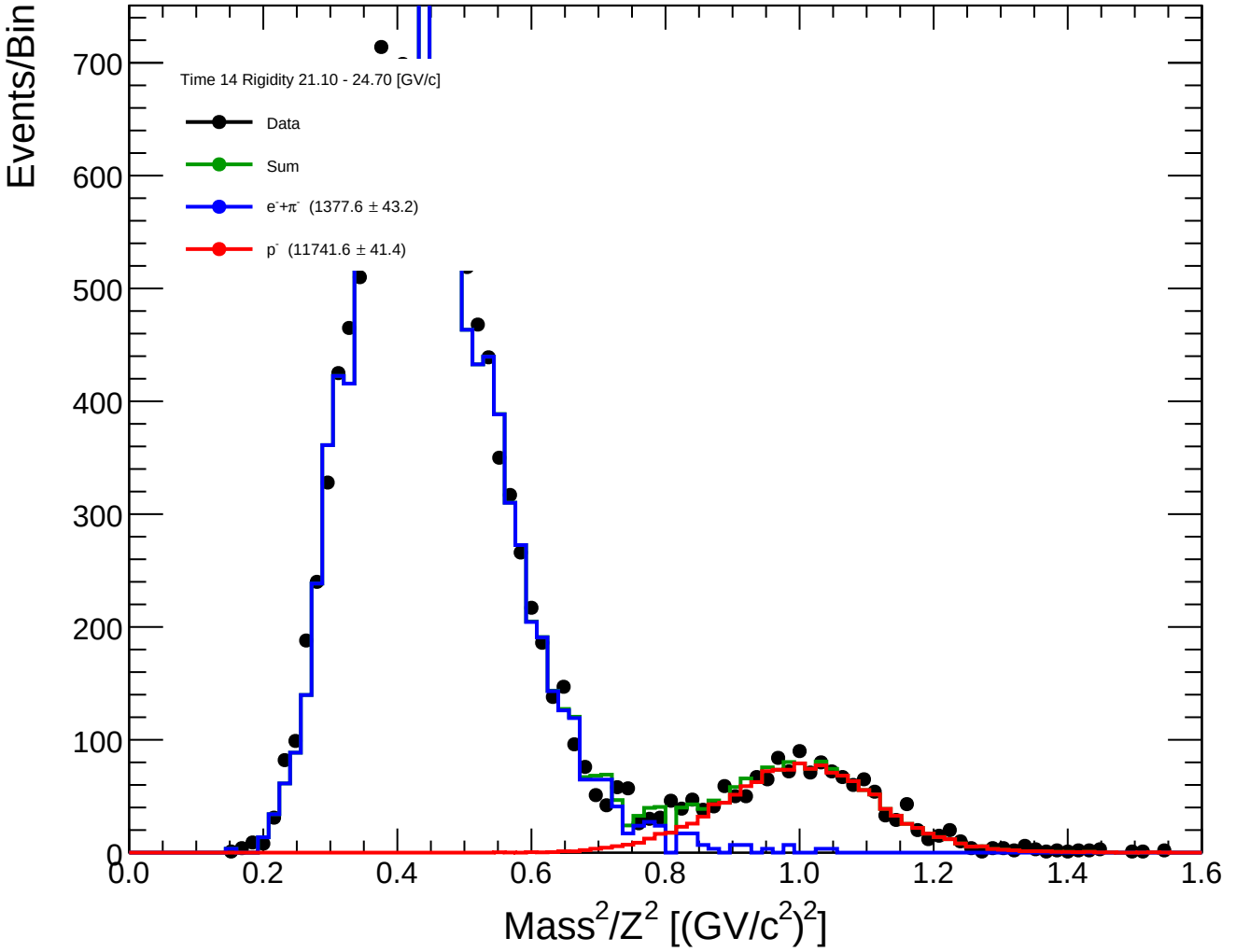

Events/Bin
3000
2500
2000
1500
1000
500
0
Time 14 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2852.7 ± 57.8)
p⁻ (51085.5 ± 55.3)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

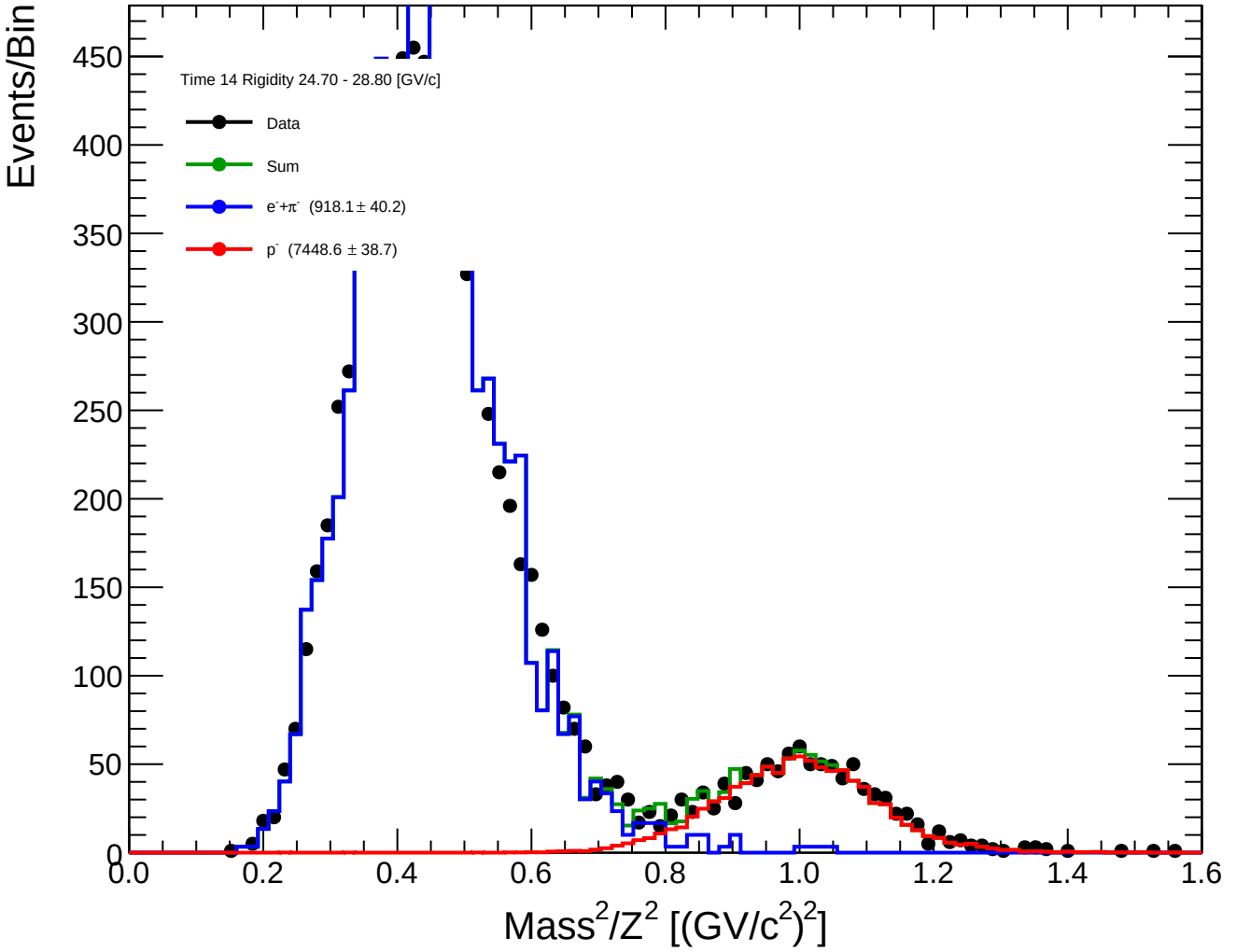

Time 14 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2292.8 ± 62.8)
p⁻ (37801.8 ± 60.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

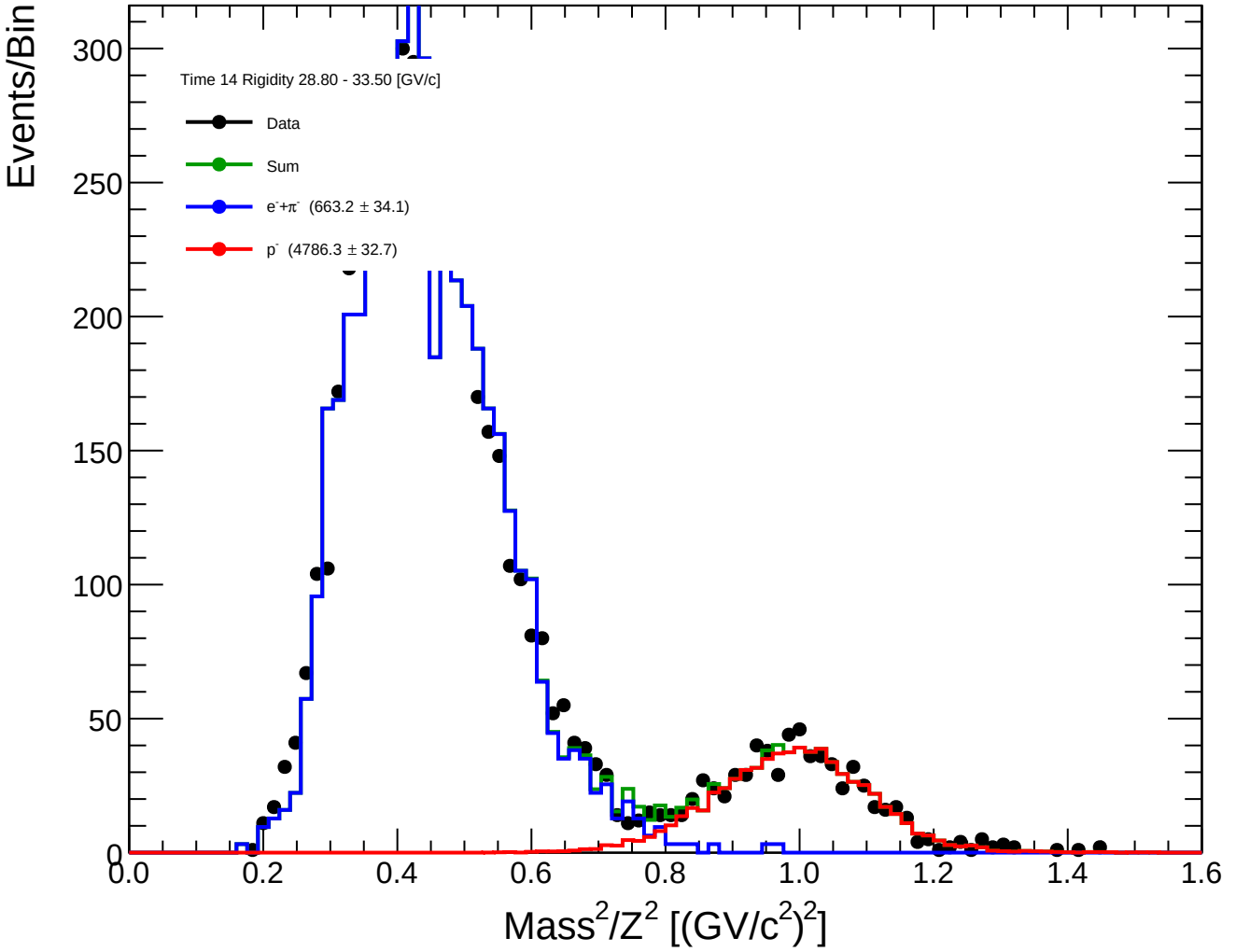

Time 14 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2029.0 ± 53.5)
p⁻ (28388.5 ± 51.9)
Events/Bin
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

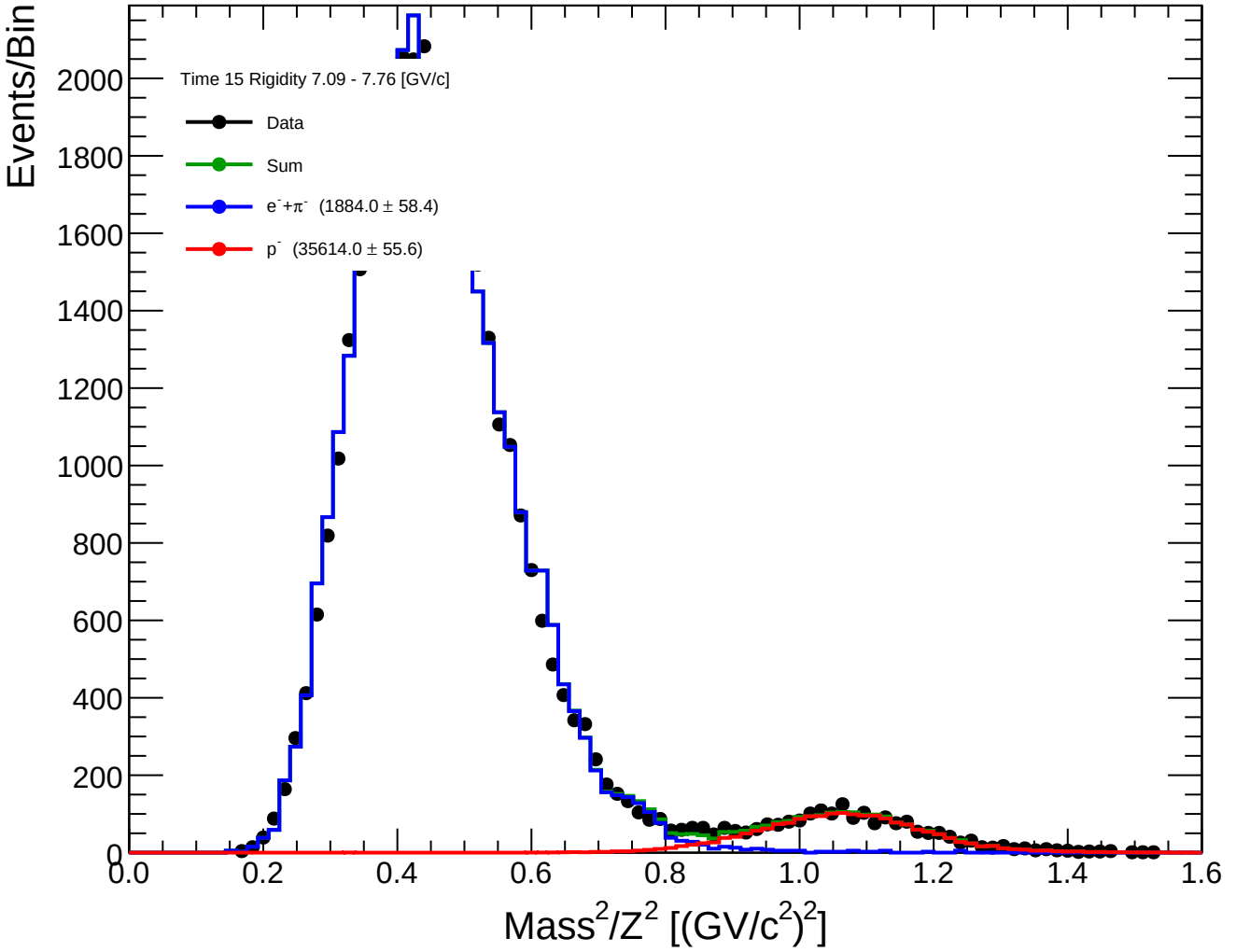

Time 14 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1926.9 ± 51.0)
p⁻ (22352.1 ± 49.1)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

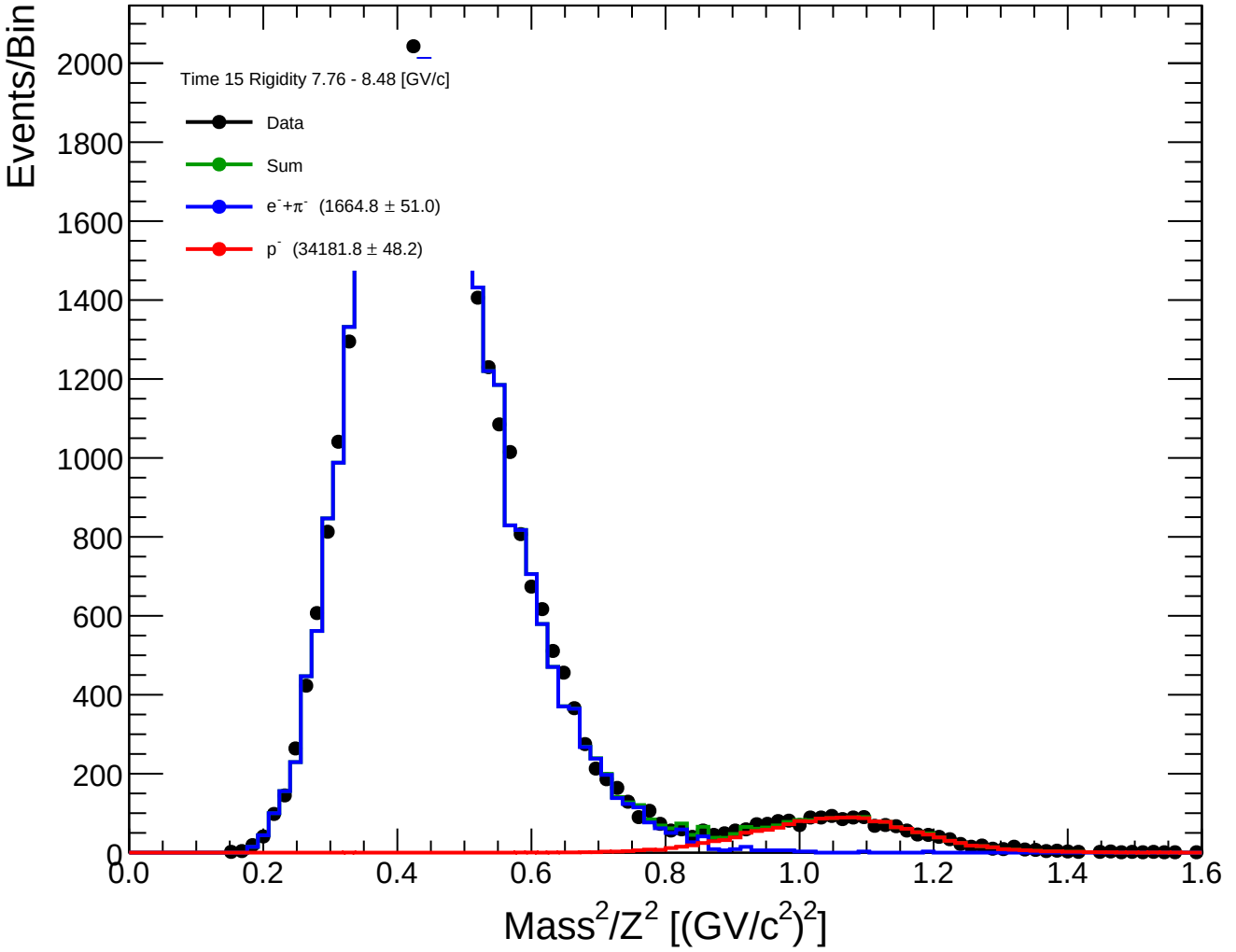

Time 14 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1738.1 ± 46.8)
p⁻ (17425.1 ± 45.5)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

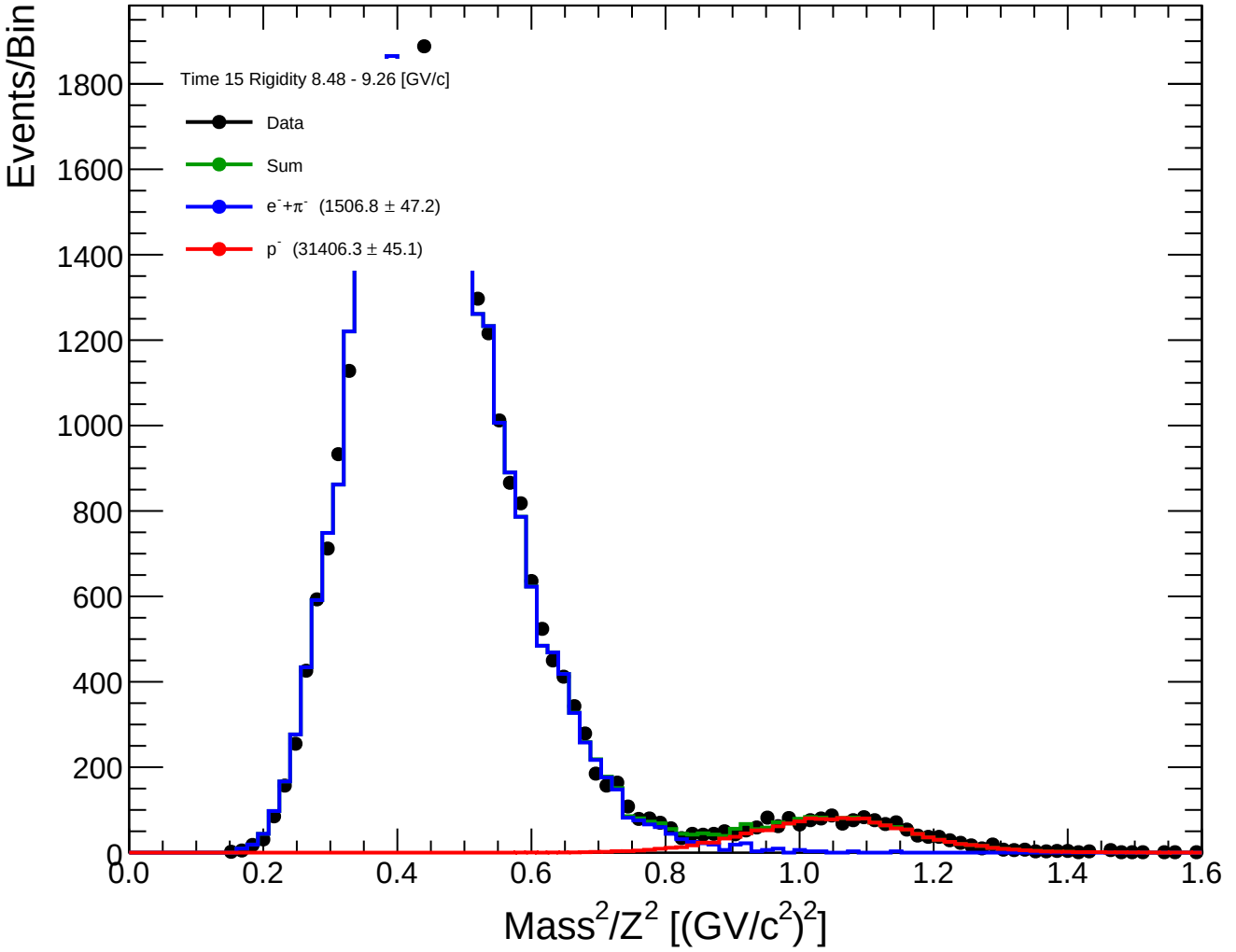

Time 14 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1377.6 ± 43.2)
p⁻ (11741.6 ± 41.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

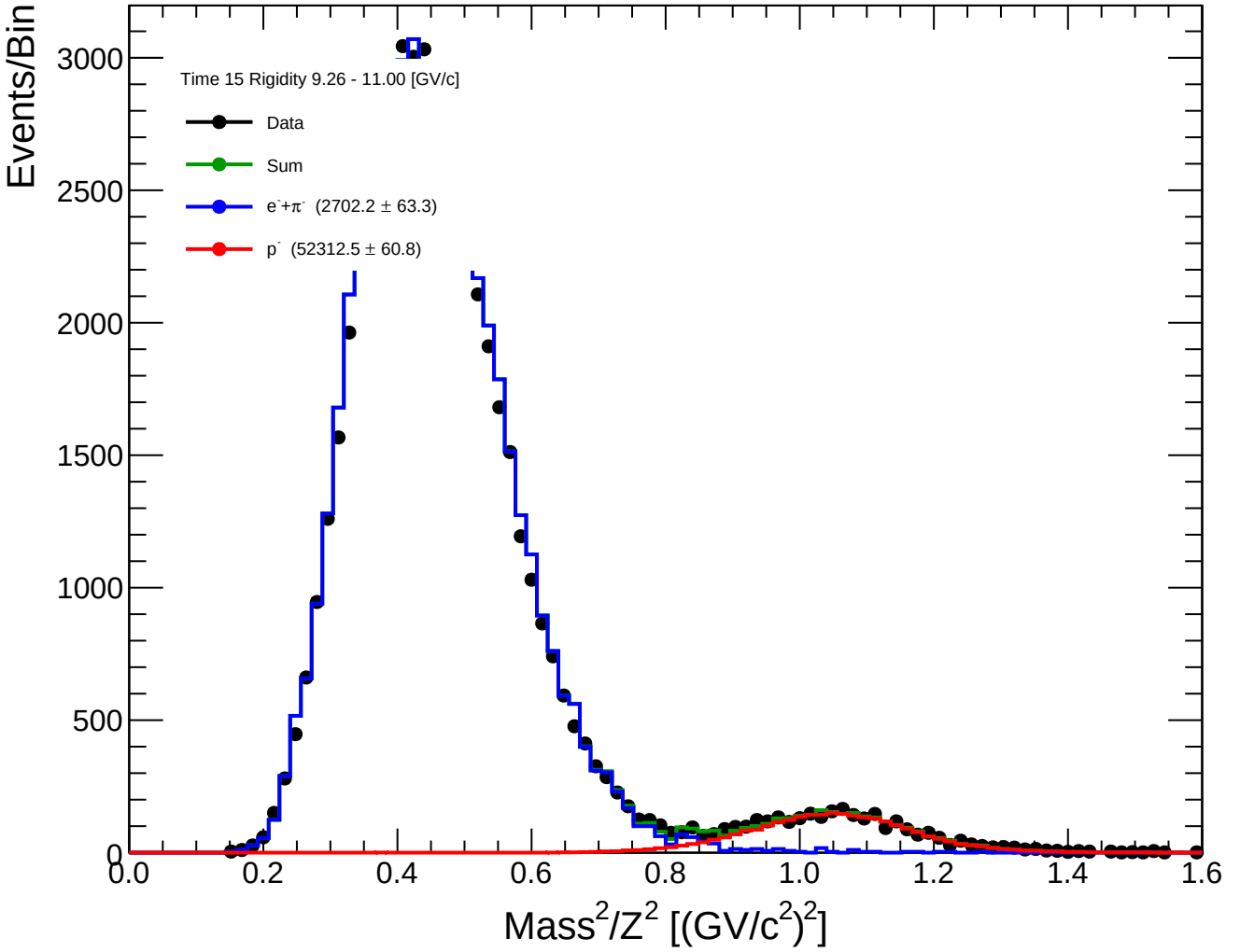

Time 14 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (918.1 ± 40.2)
p⁻ (7448.6 ± 38.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
400
450
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

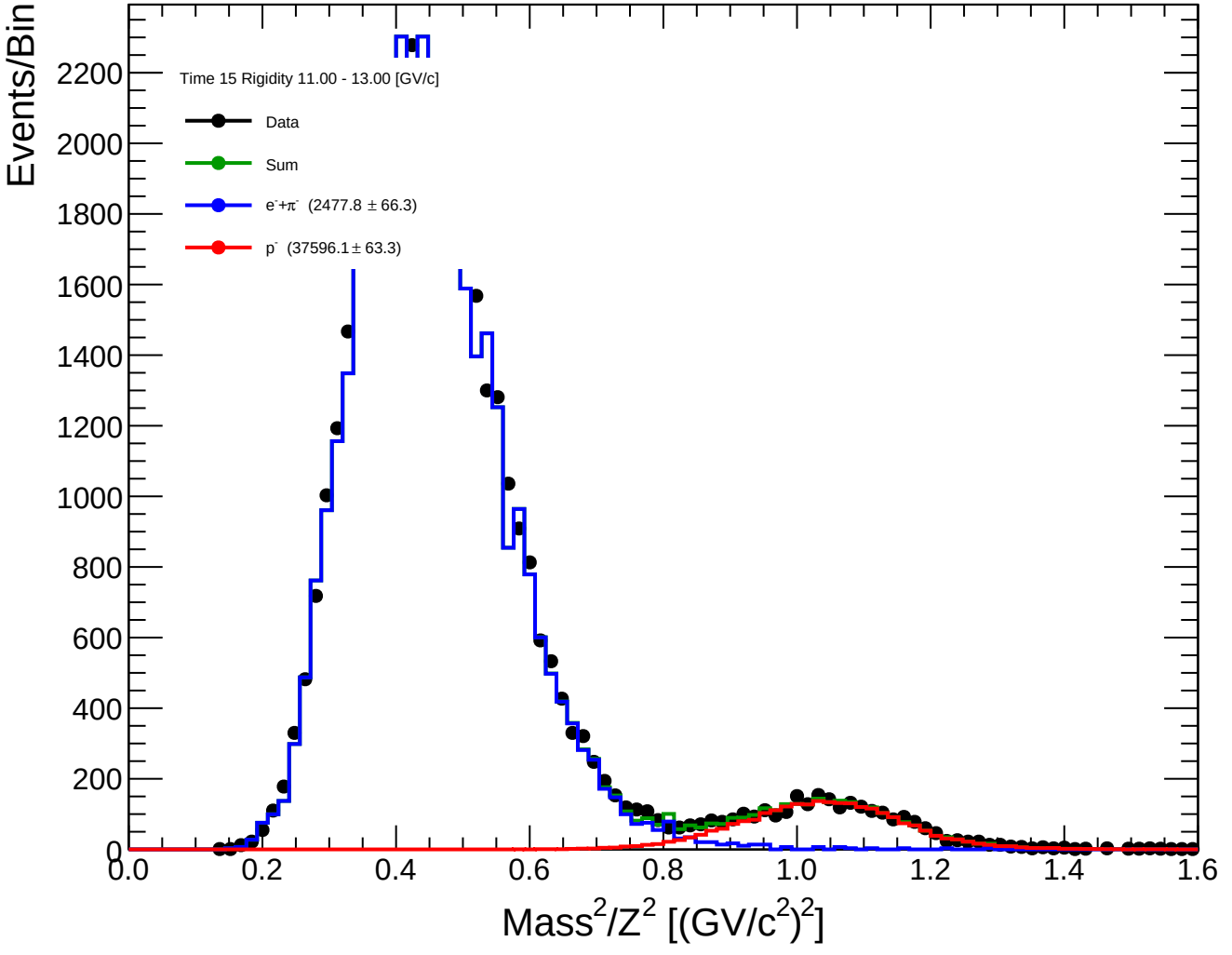

Time 14 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (663.2 ± 34.1)
p⁻ (4786.3 ± 32.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

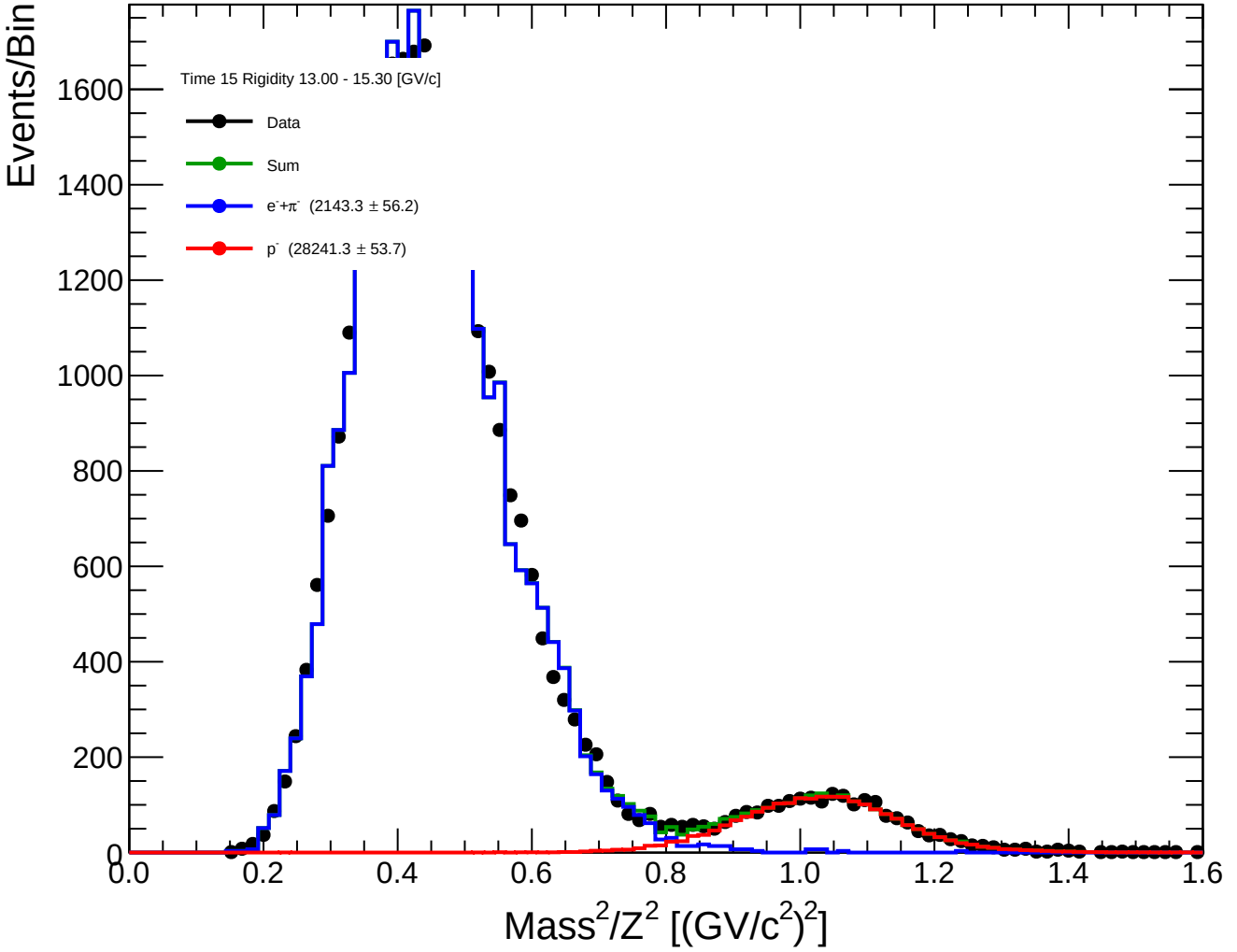

Time 15 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1884.0 ± 58.4)
p⁻ (35614.0 ± 55.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

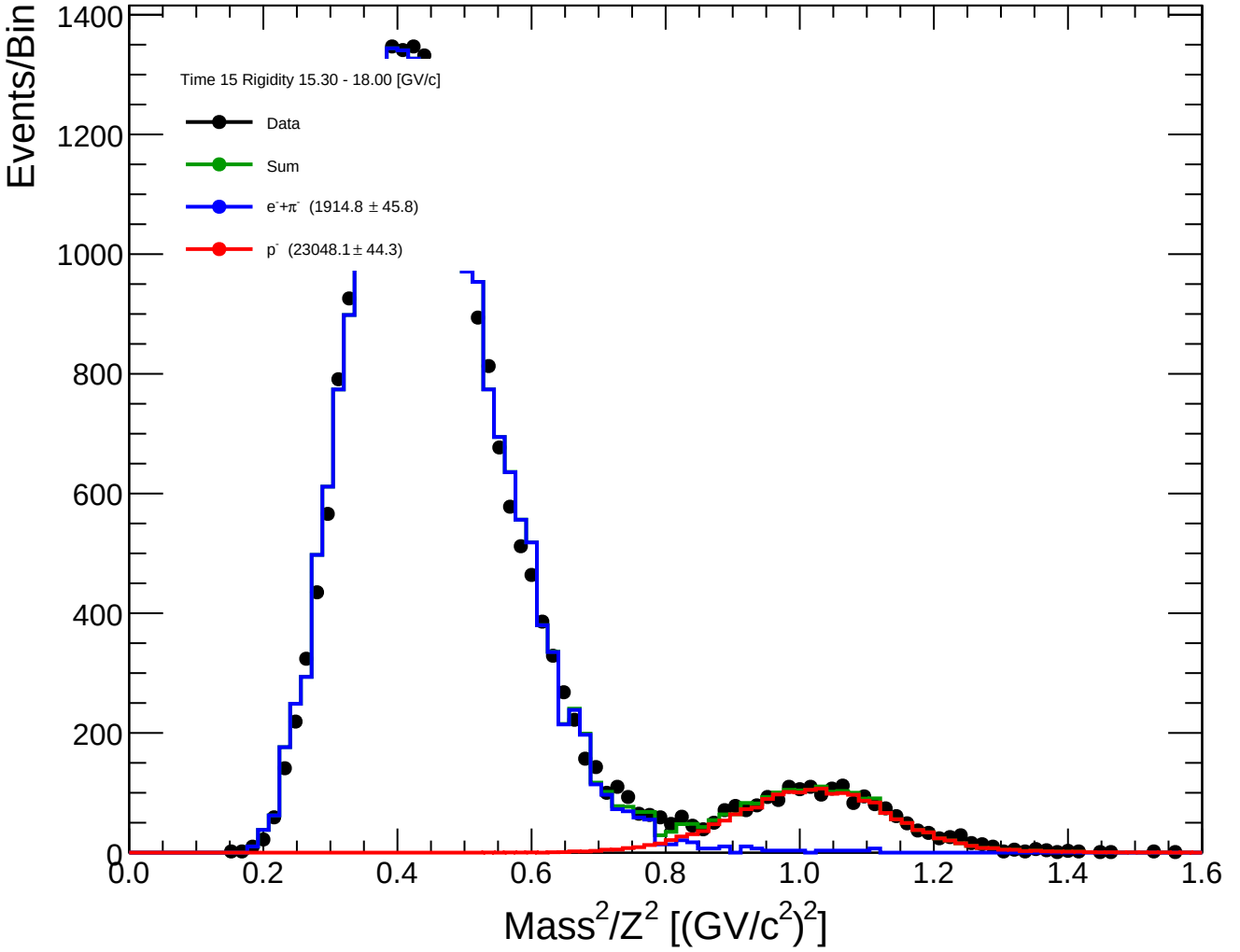

Events/Bin
Time 15 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1664.8 ± 51.0)
p⁻ (34181.8 ± 48.2)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

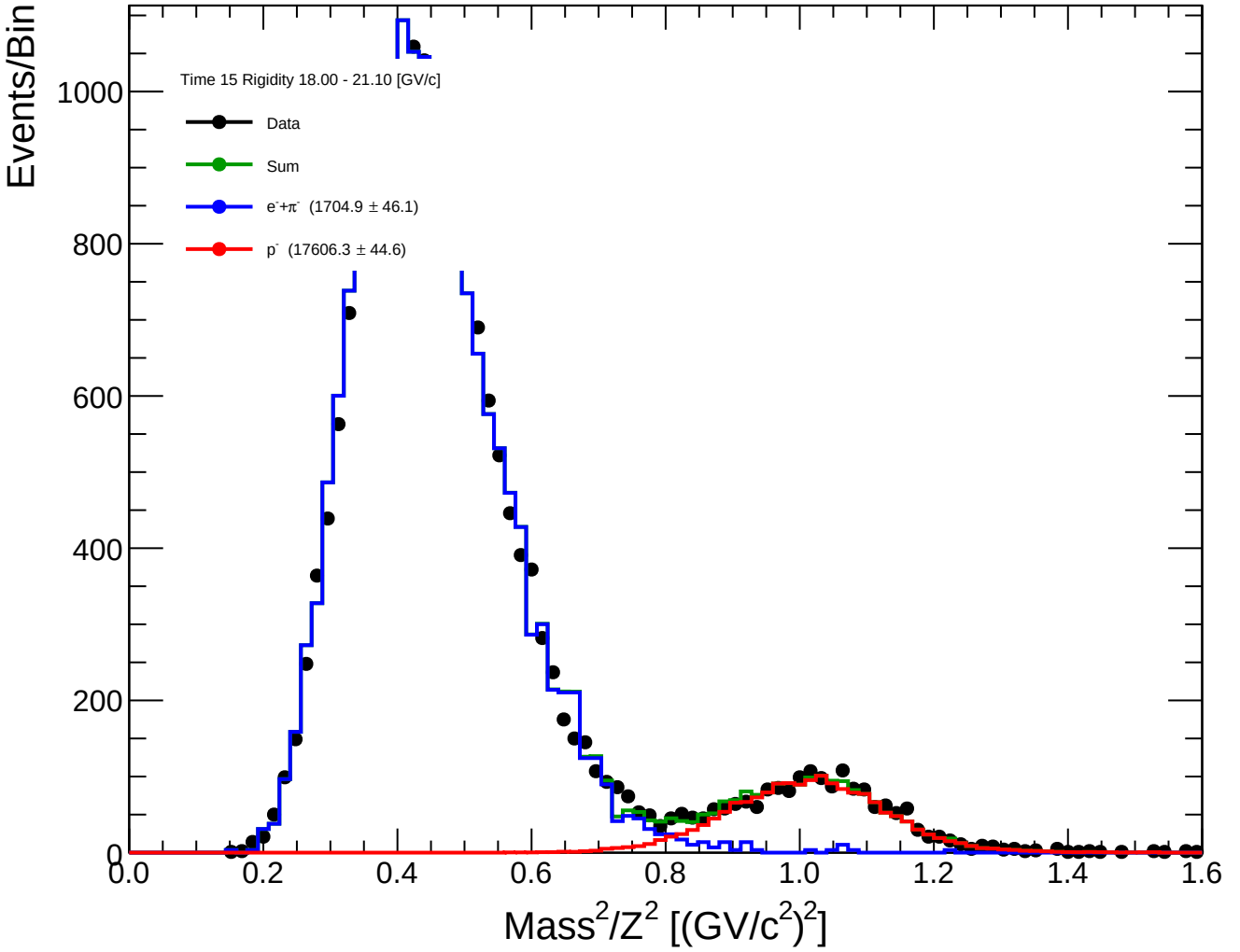

Time 15 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1506.8 ± 47.2)
p⁻ (31406.3 ± 45.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

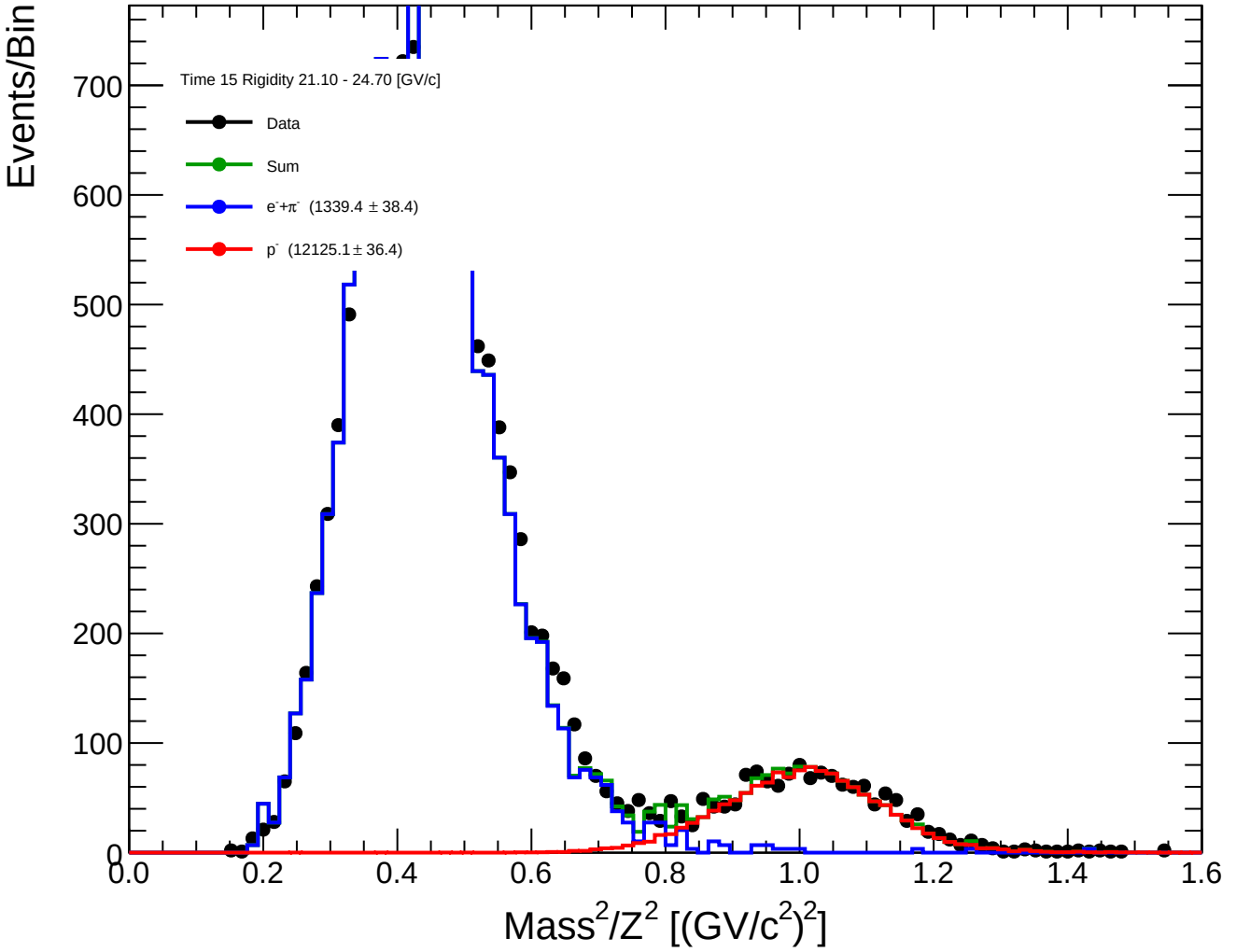

Time 15 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2702.2 ± 63.3)
p⁻ (52312.5 ± 60.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

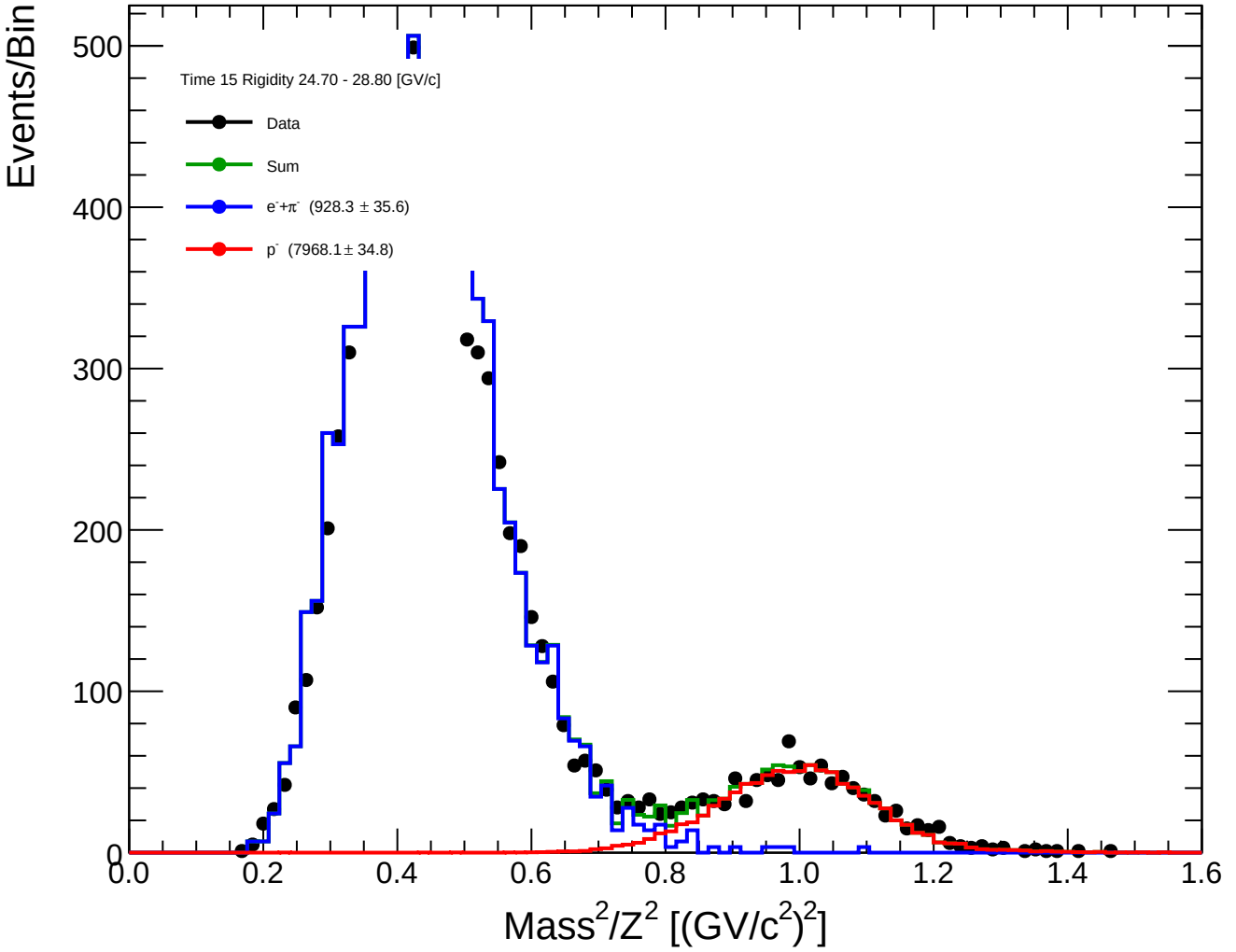

Time 15 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2477.8 ± 66.3)
p⁻ (37596.1 ± 63.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

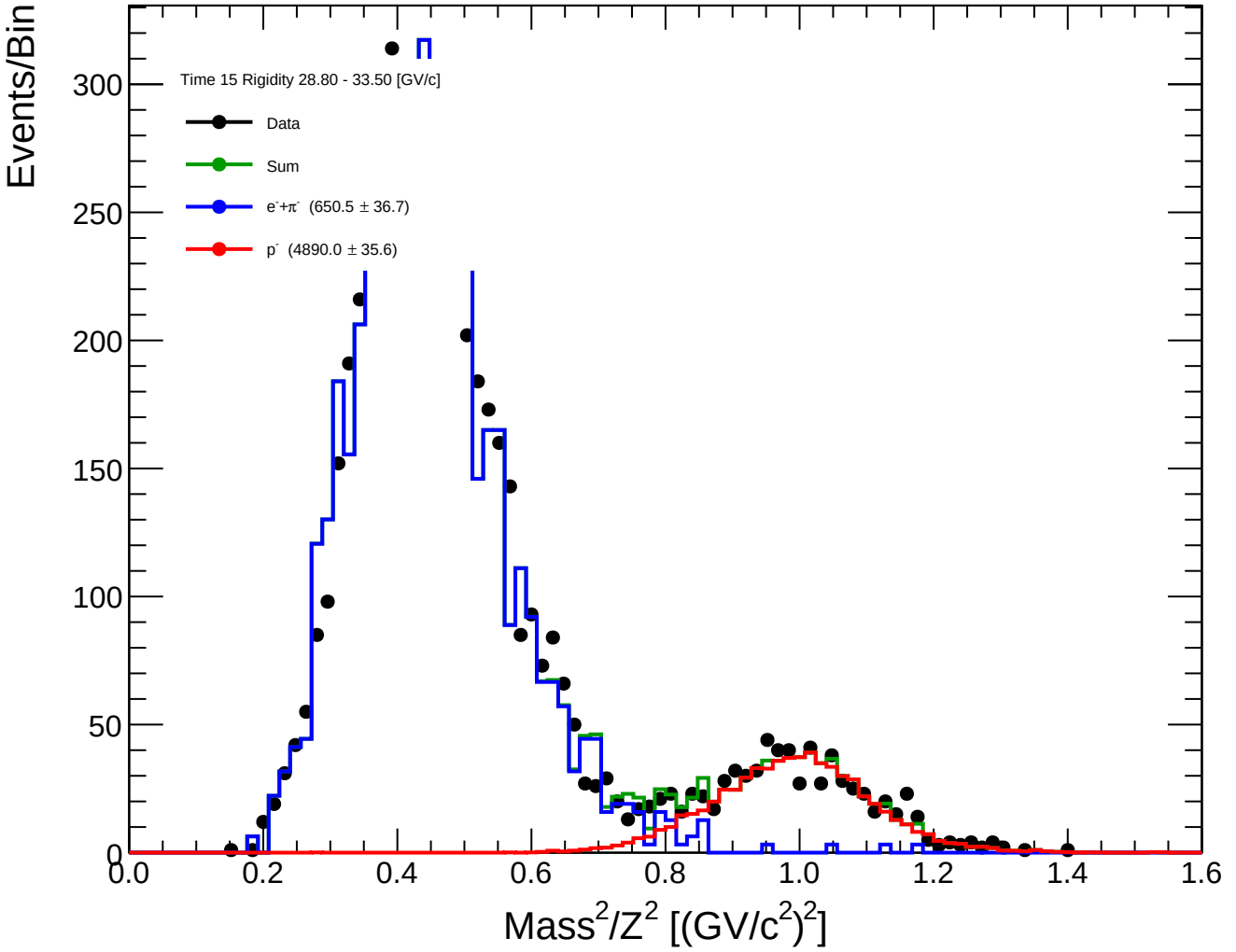

Time 15 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2143.3 ± 56.2)
p⁻ (28241.3 ± 53.7)
Events/Bin
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

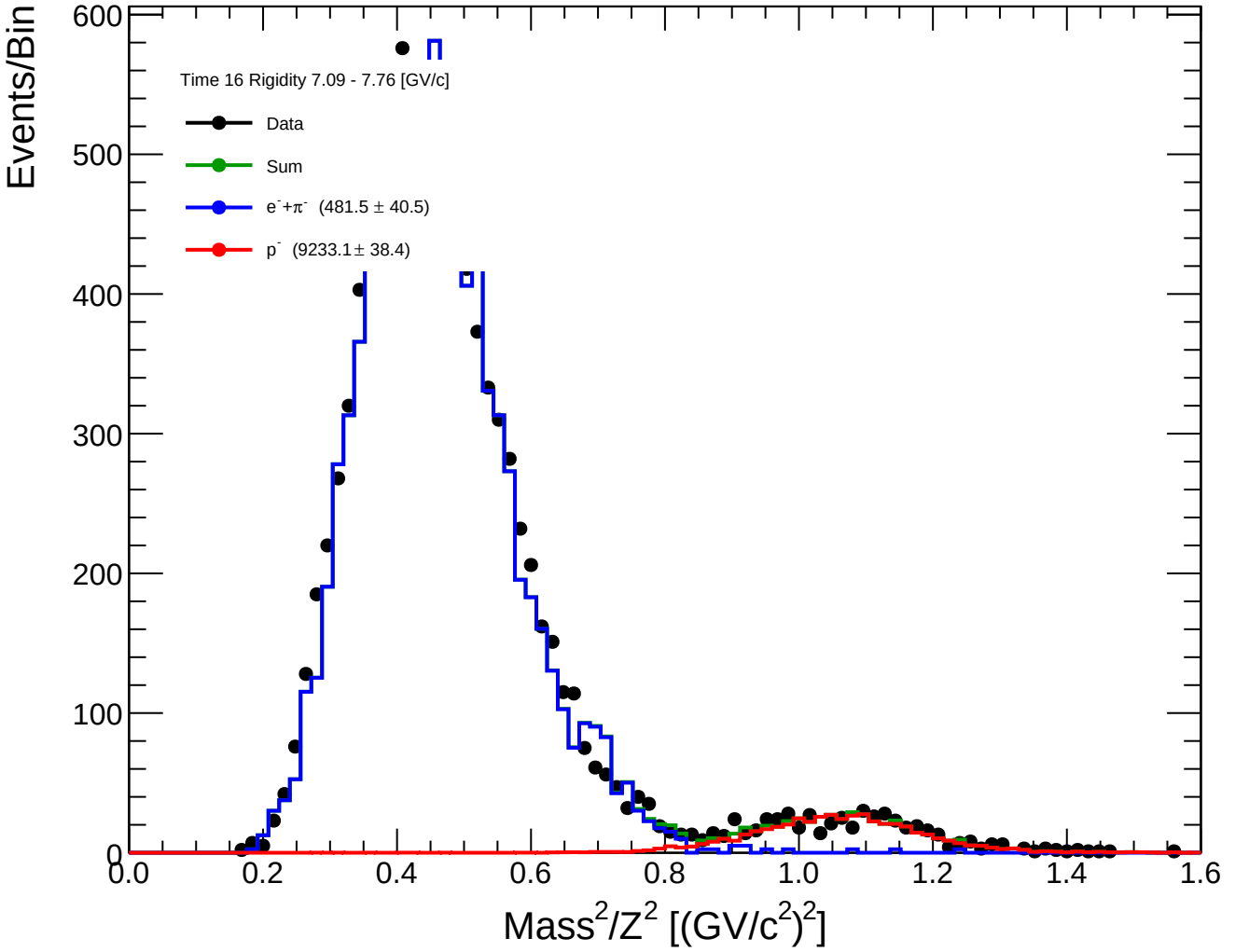

Time 15 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1914.8 ± 45.8)
p⁻ (23048.1 ± 44.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

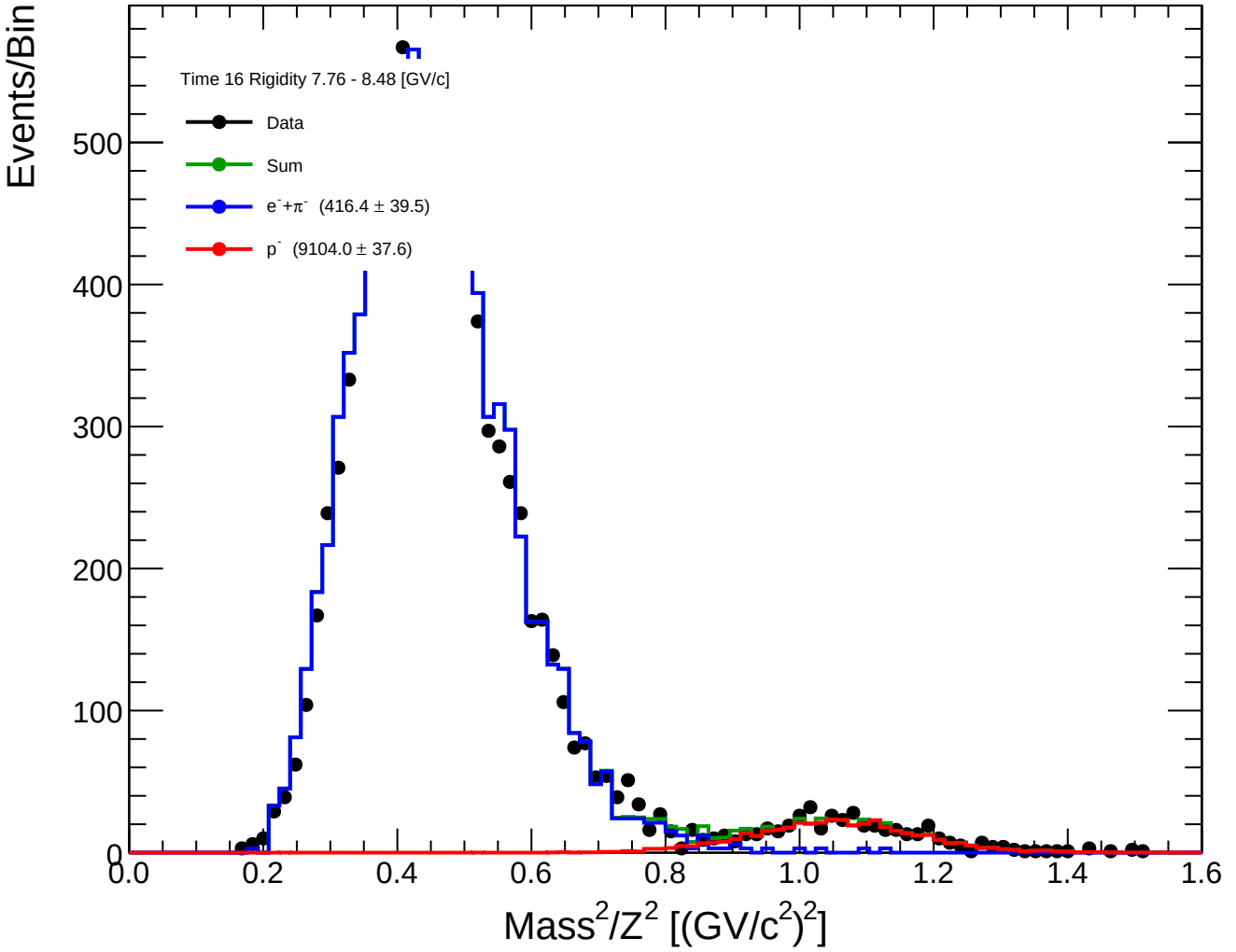

Time 15 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1704.9 ± 46.1)
p⁻ (17606.3 ± 44.6)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

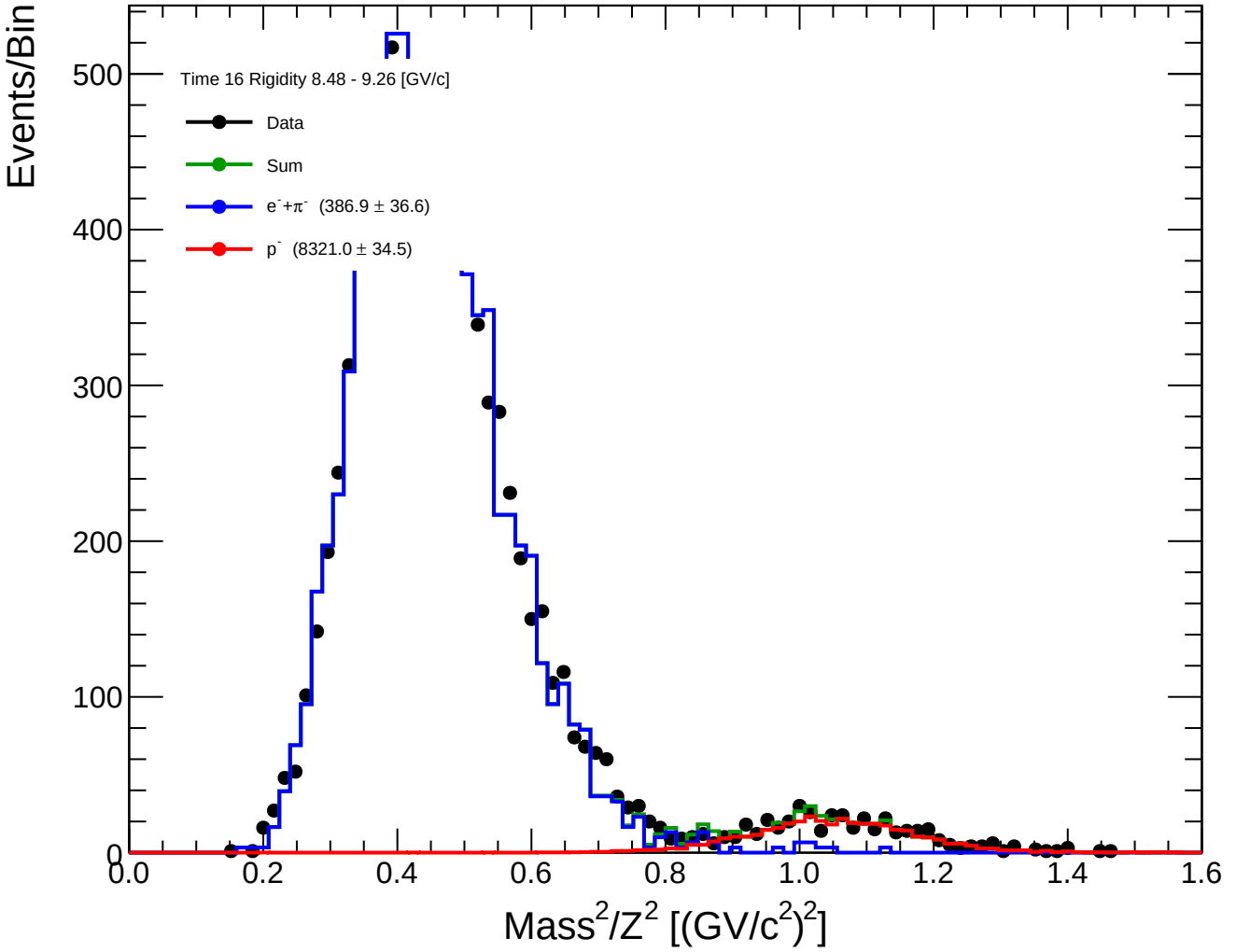

Time 15 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1339.4 ± 38.4)
p⁻ (12125.1 ± 36.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

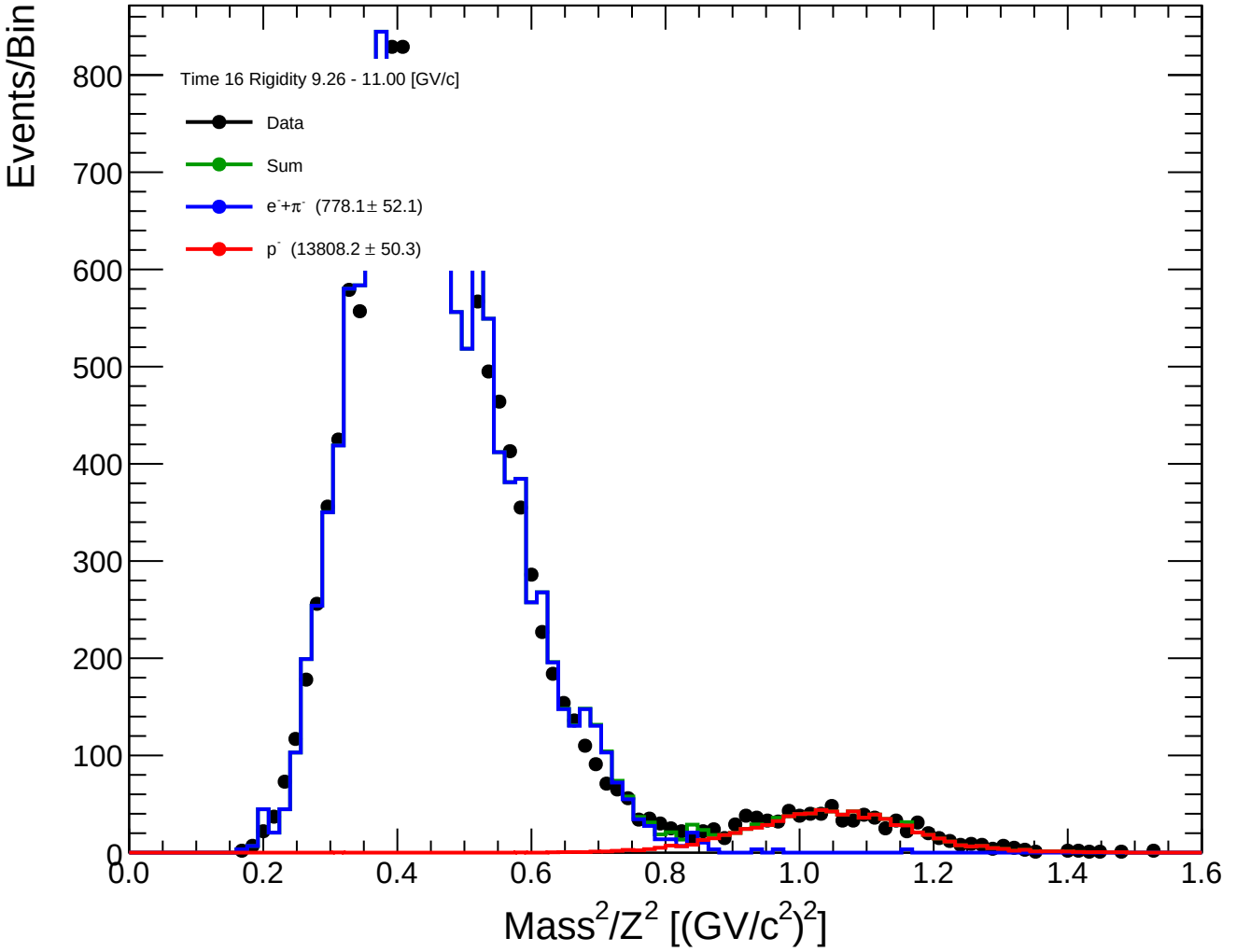

Time 15 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (928.3 ± 35.6)
p⁻ (7968.1± 34.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

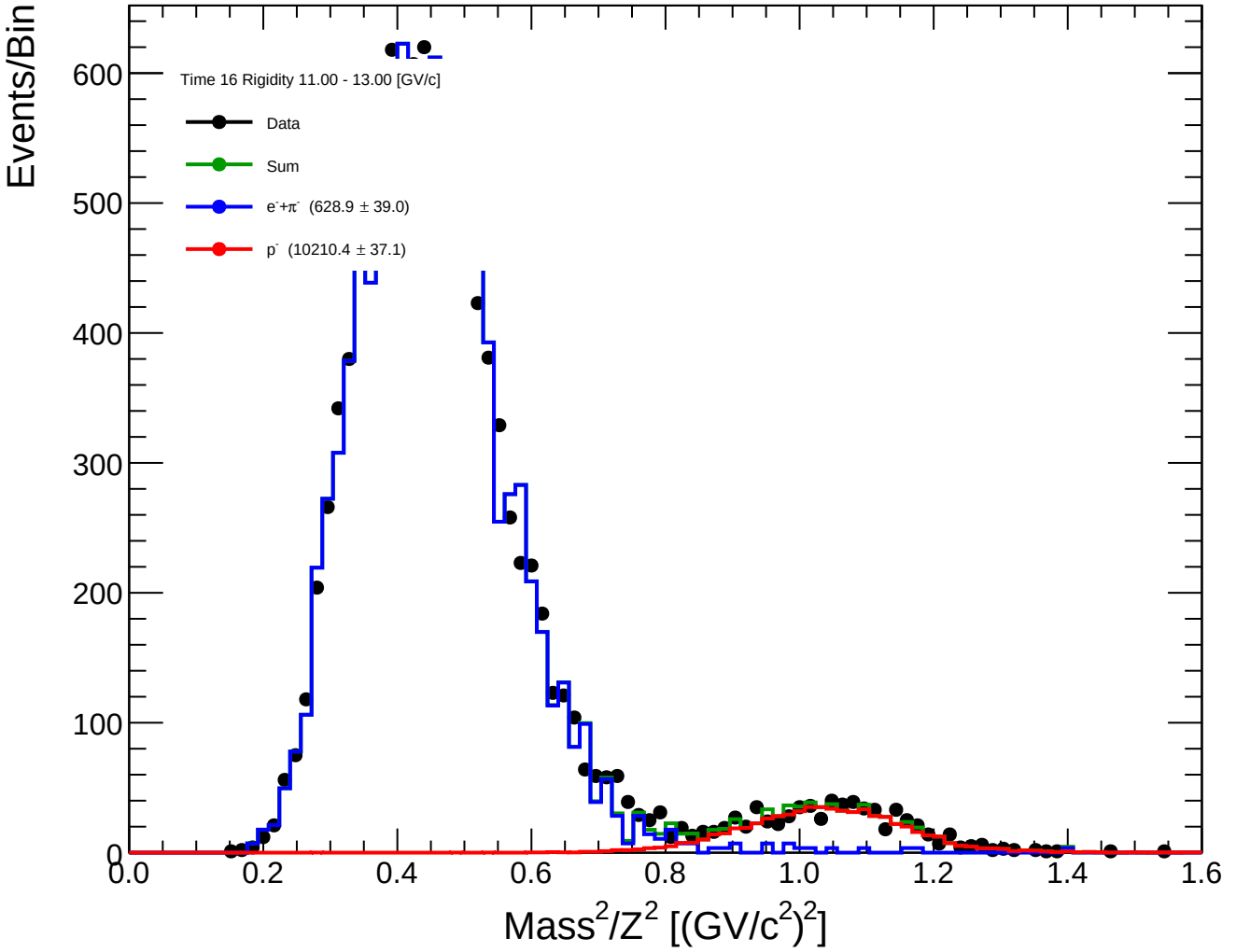

Events/Bin
Time 15 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (650.5 ± 36.7)
p⁻ (4890.0 ± 35.6)
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

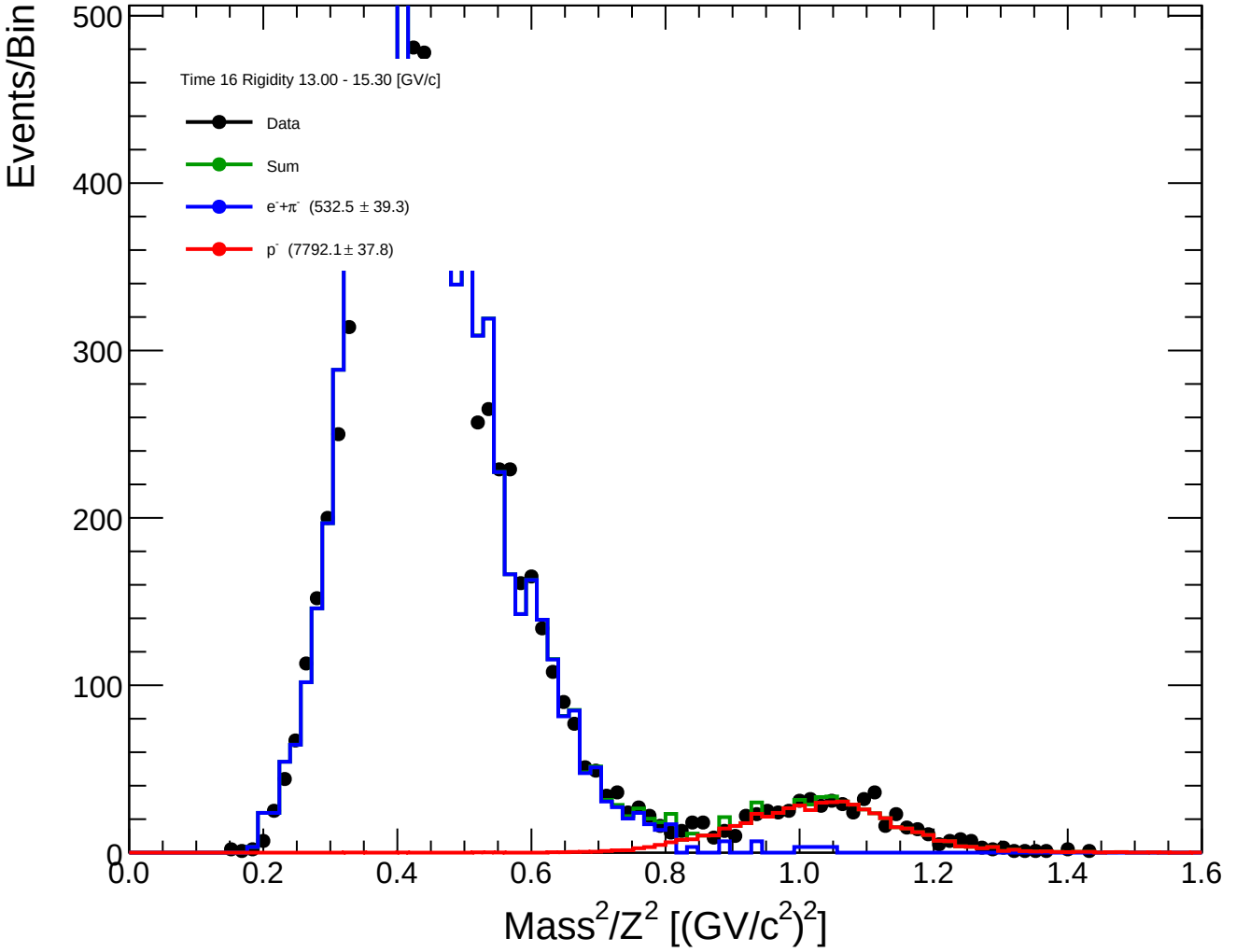

Events/Bin
600
500
400
300
200
100
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass^2/Z^2 [(GV/c^2)^2]
Time 16 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e$^-$+π$^-$ (481.5 ± 40.5)
p$^-$ (9233.1± 38.4)

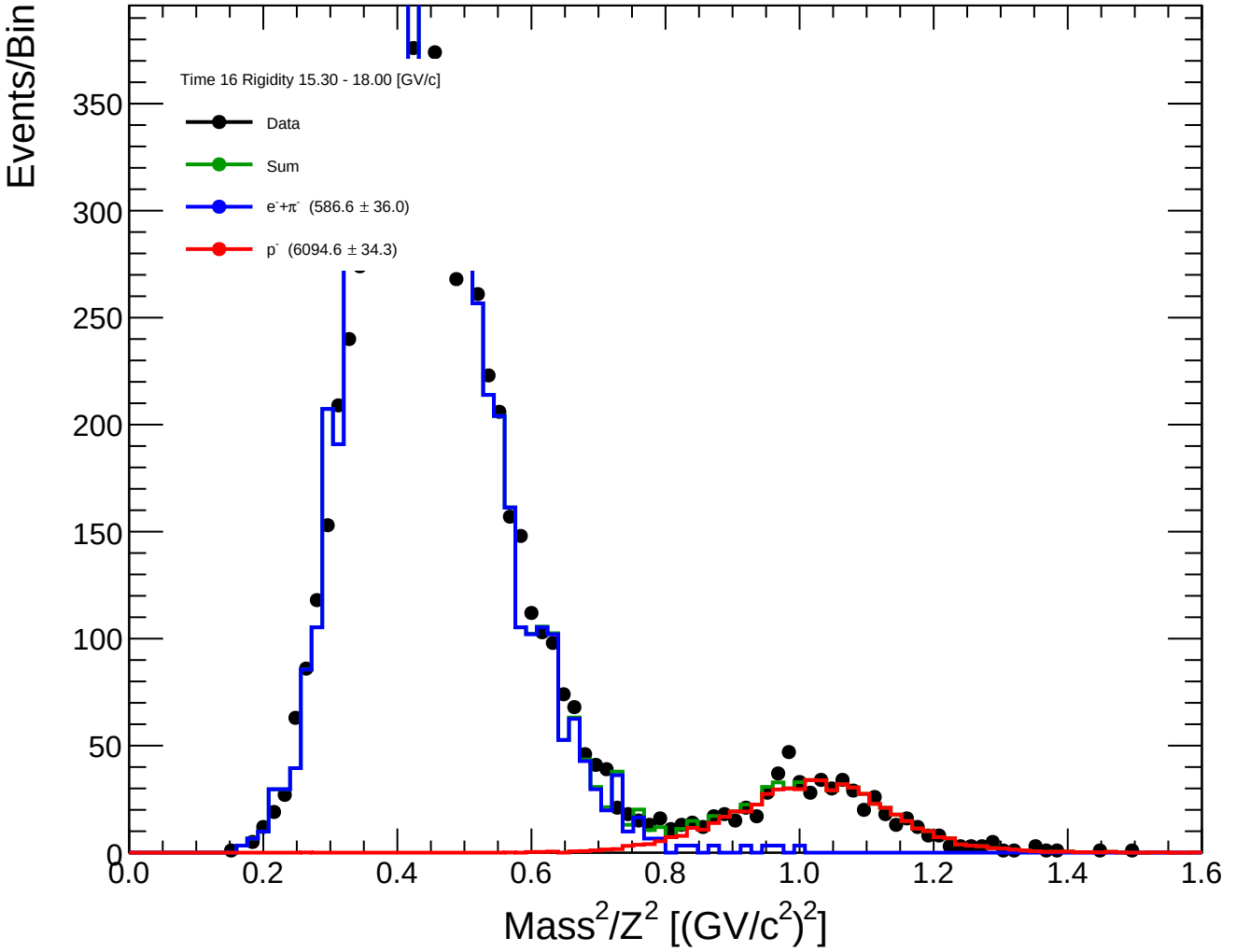

Time 16 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (416.4 ± 39.5)
p⁻ (9104.0 ± 37.6)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

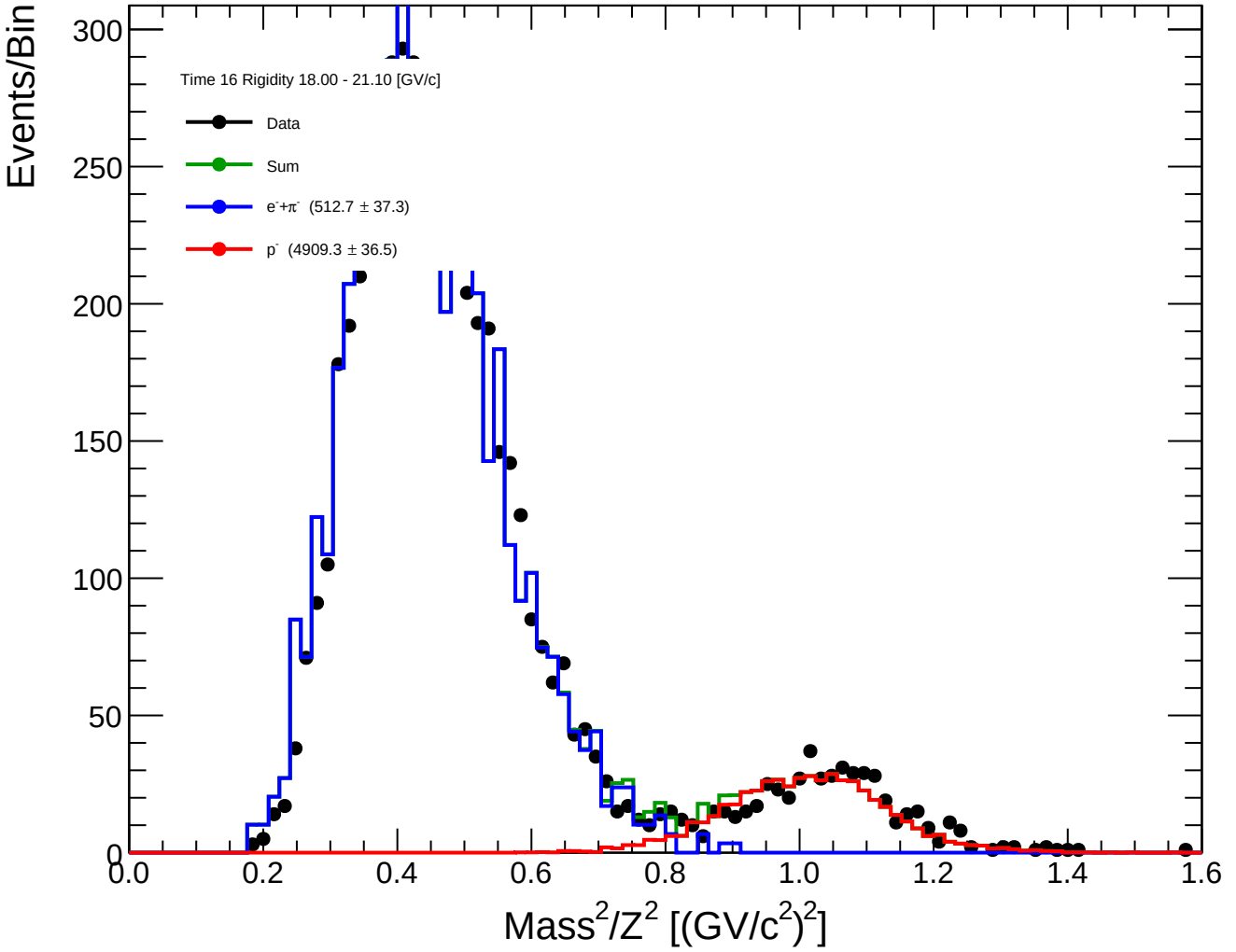

Time 16 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (386.9 ± 36.6)
p⁻ (8321.0 ± 34.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

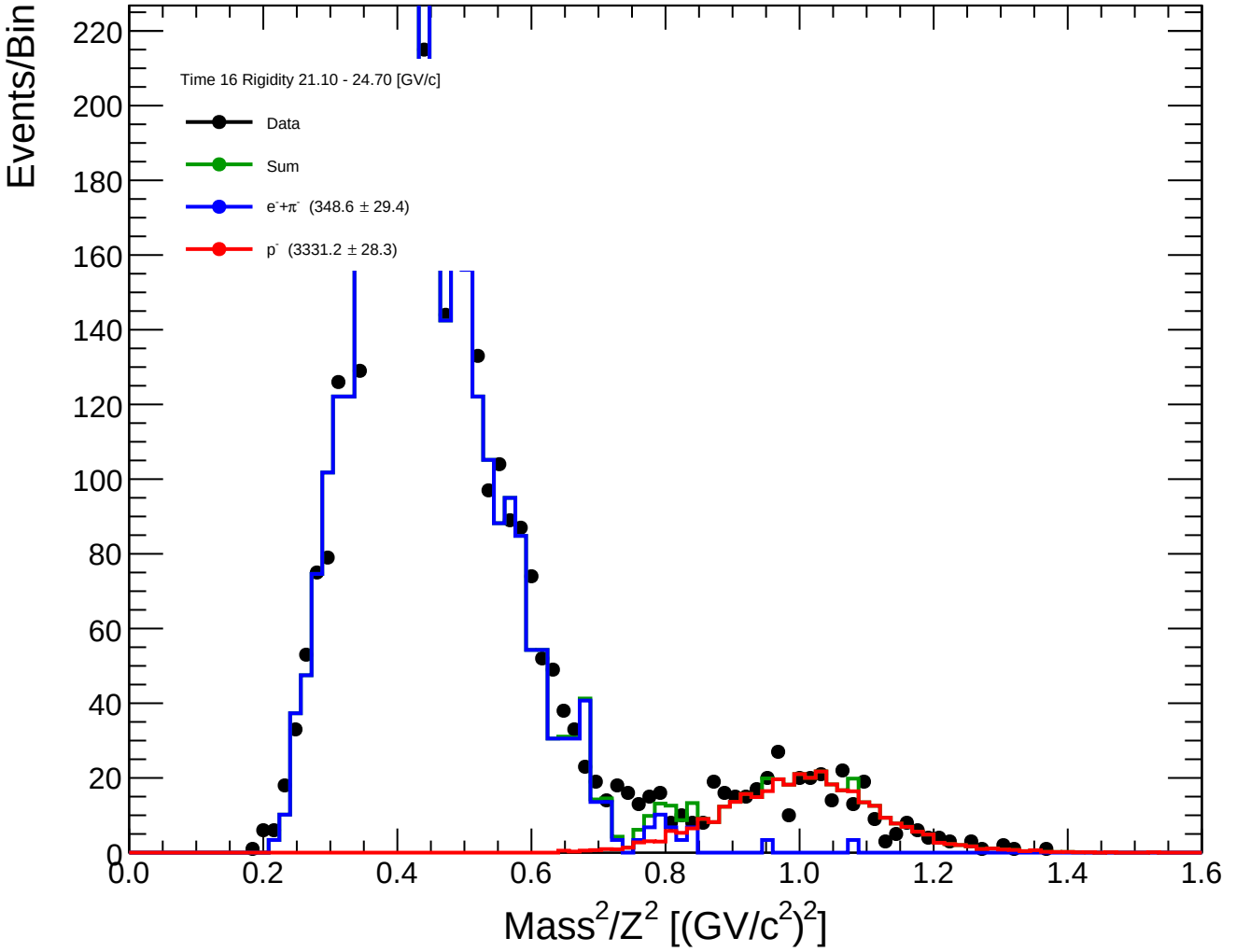

Time 16 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (778.1± 52.1)
p⁻ (13808.2 ± 50.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

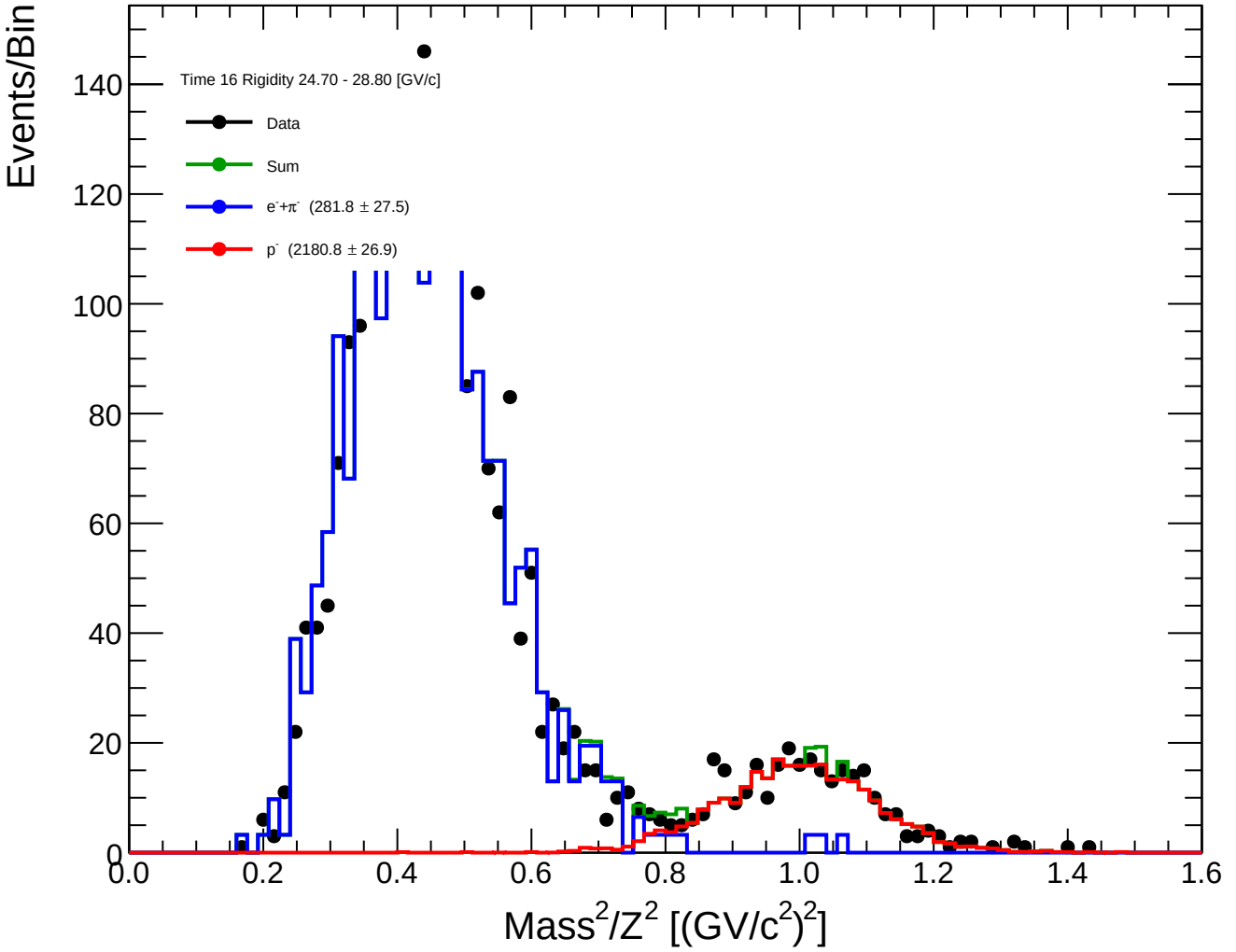

Time 16 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (628.9 ± 39.0)
p⁻ (10210.4 ± 37.1)
Events/Bin
0
100
200
300
400
500
600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

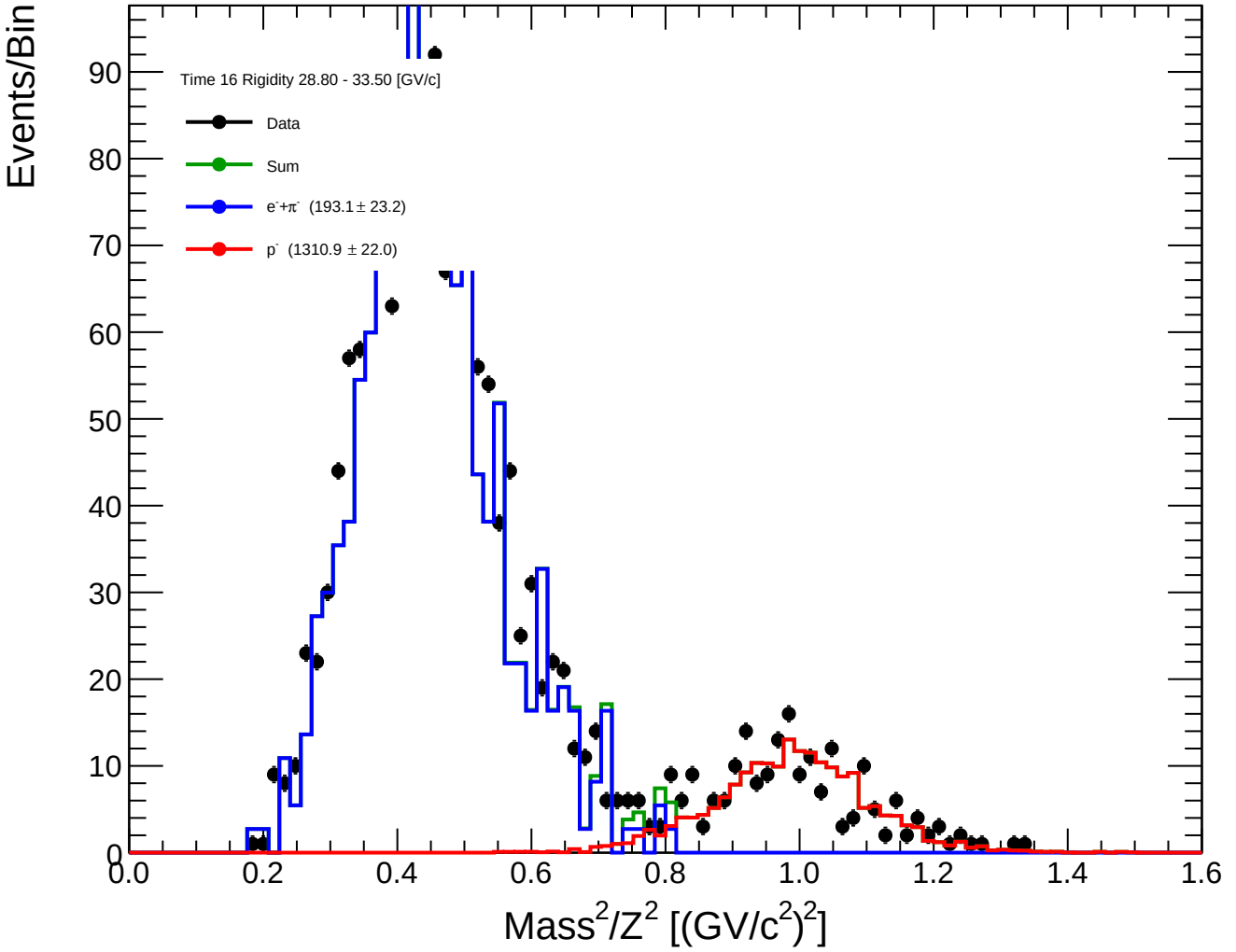

Time 16 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (532.5 ± 39.3)
p⁻ (7792.1± 37.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

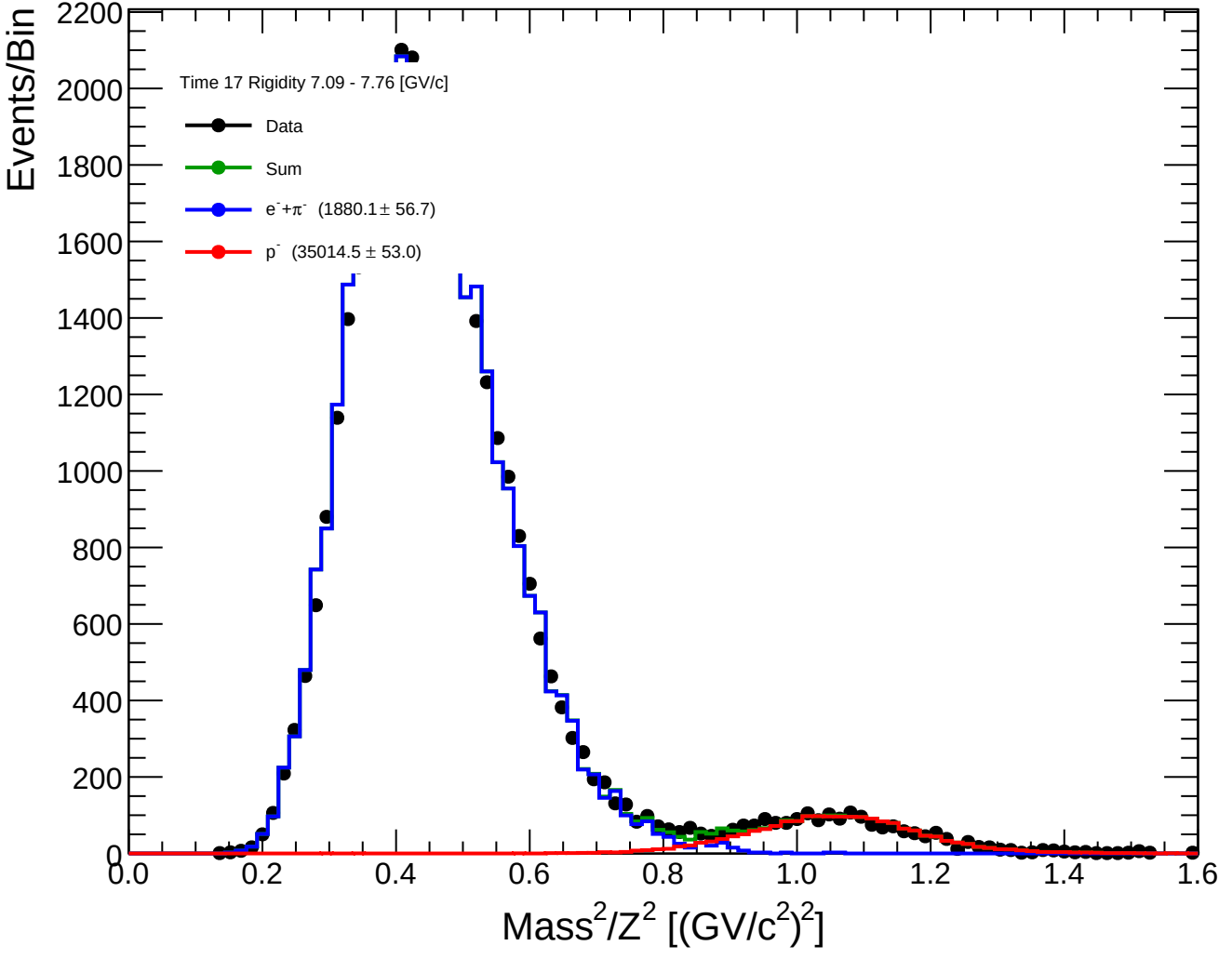

Time 16 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (586.6 ± 36.0)
p⁻ (6094.6 ± 34.3)
Events/Bin
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

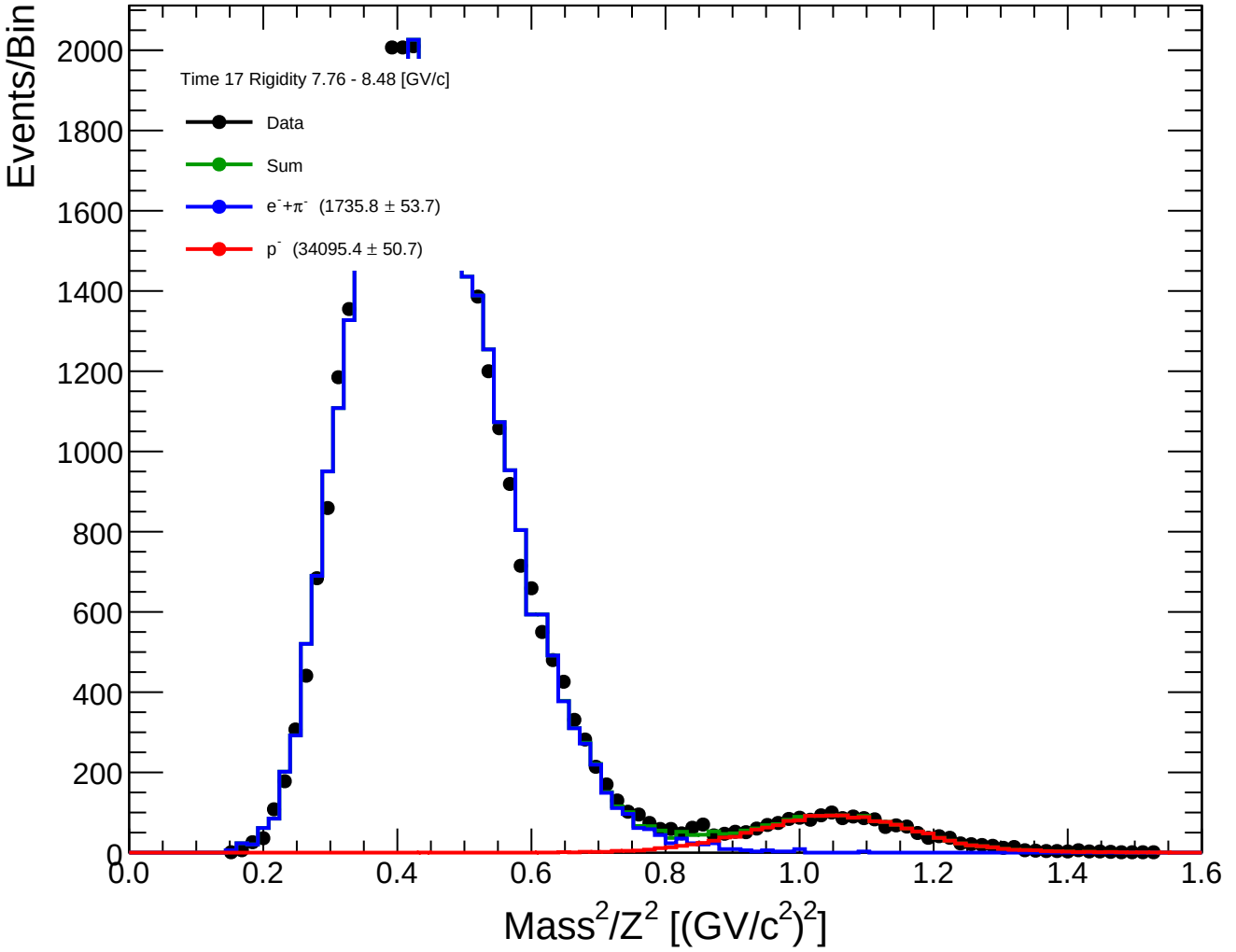

Time 16 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (512.7 ± 37.3)
p⁻ (4909.3 ± 36.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

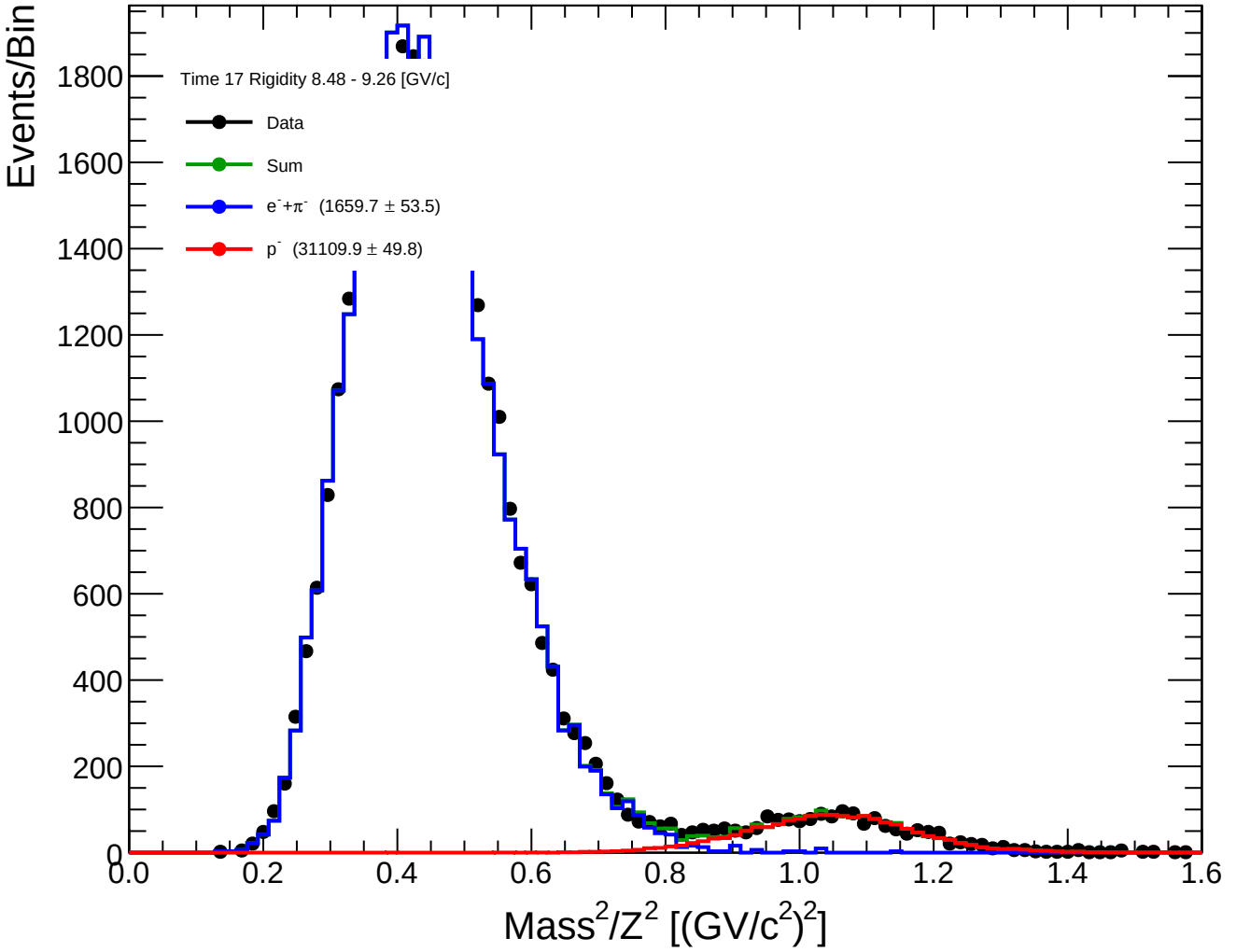

Time 16 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (348.6 ± 29.4)
p⁻ (3331.2 ± 28.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

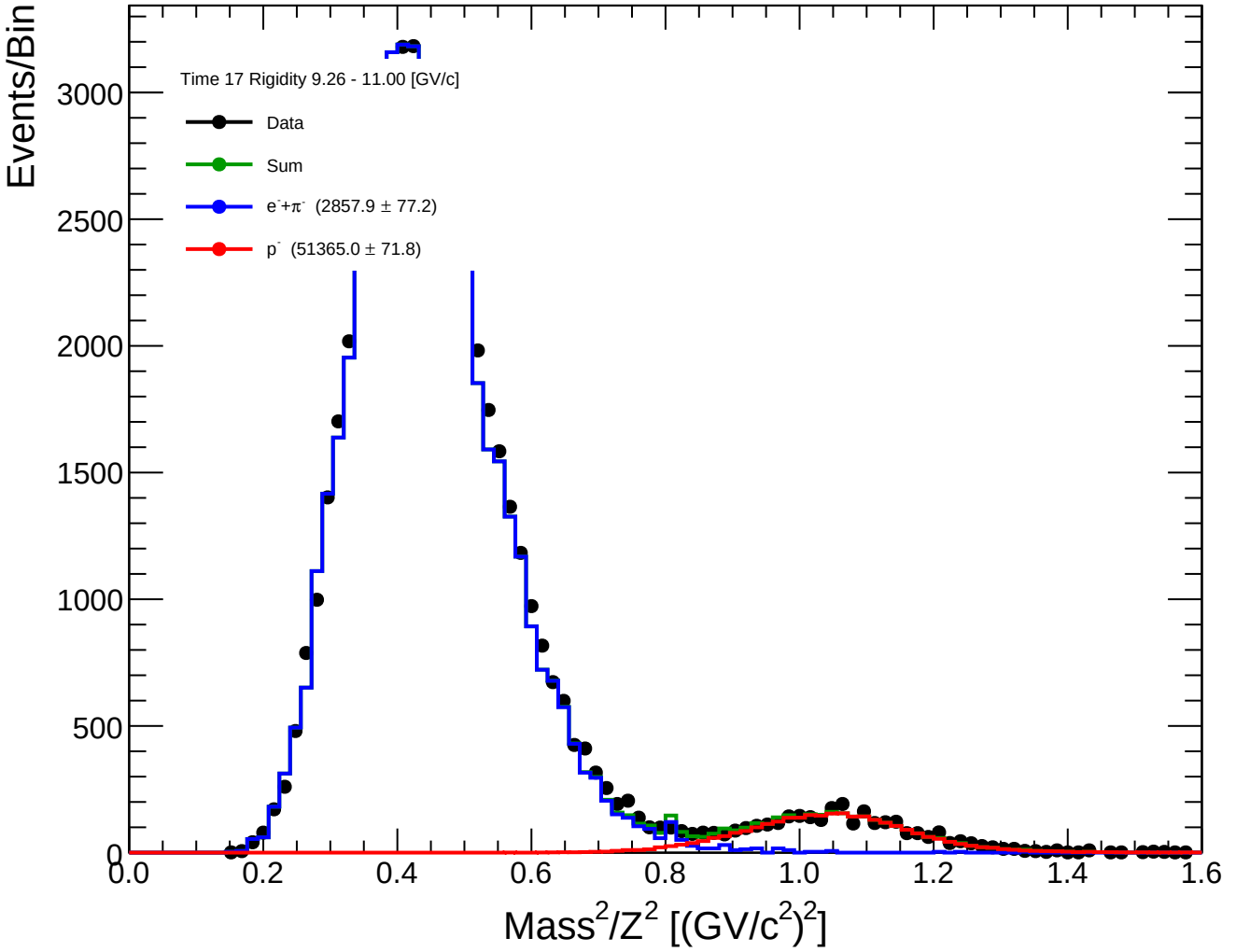

Time 16 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (281.8 ± 27.5)
p⁻ (2180.8 ± 26.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

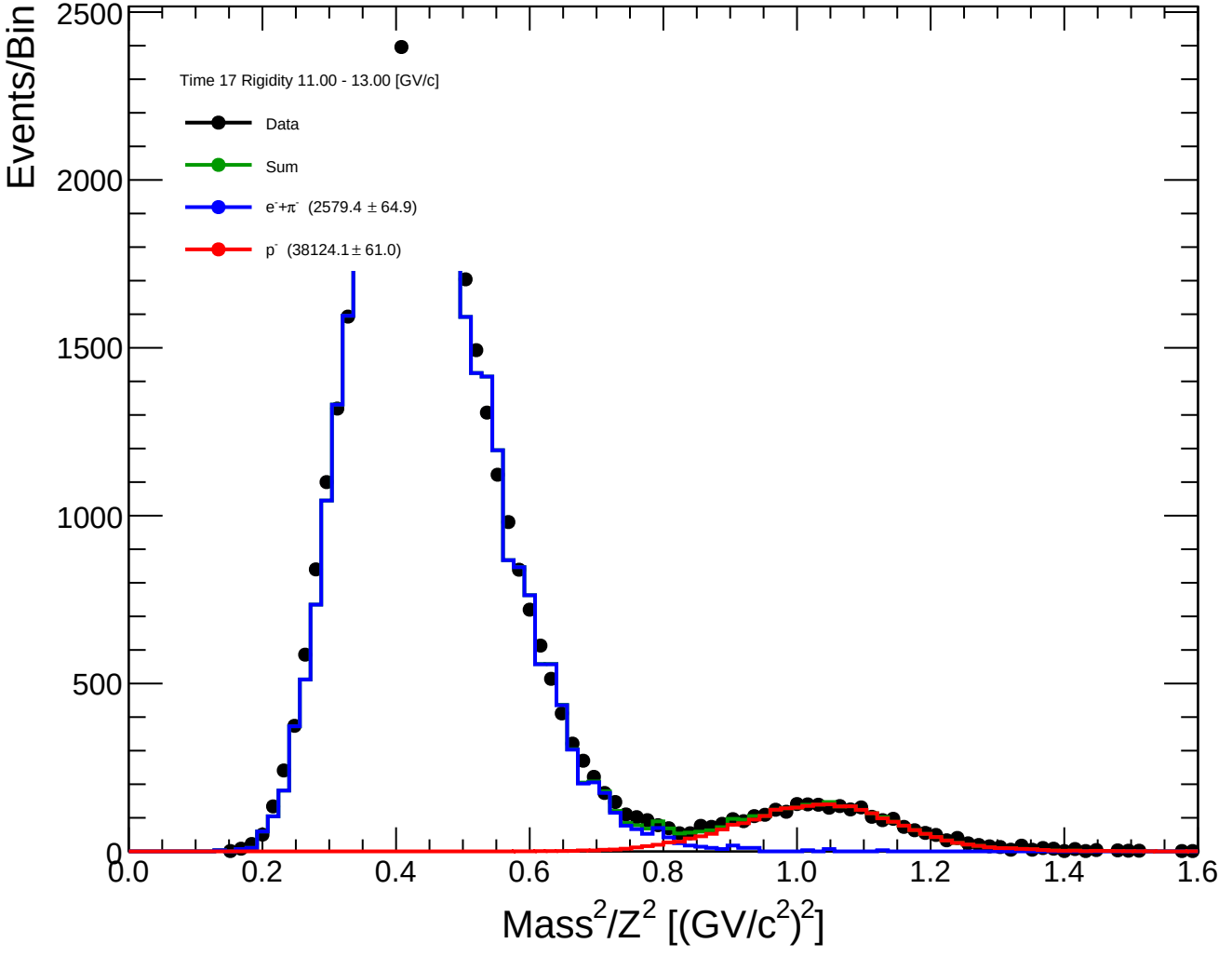

Time 16 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (193.1 ± 23.2)
p⁻ (1310.9 ± 22.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
90
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

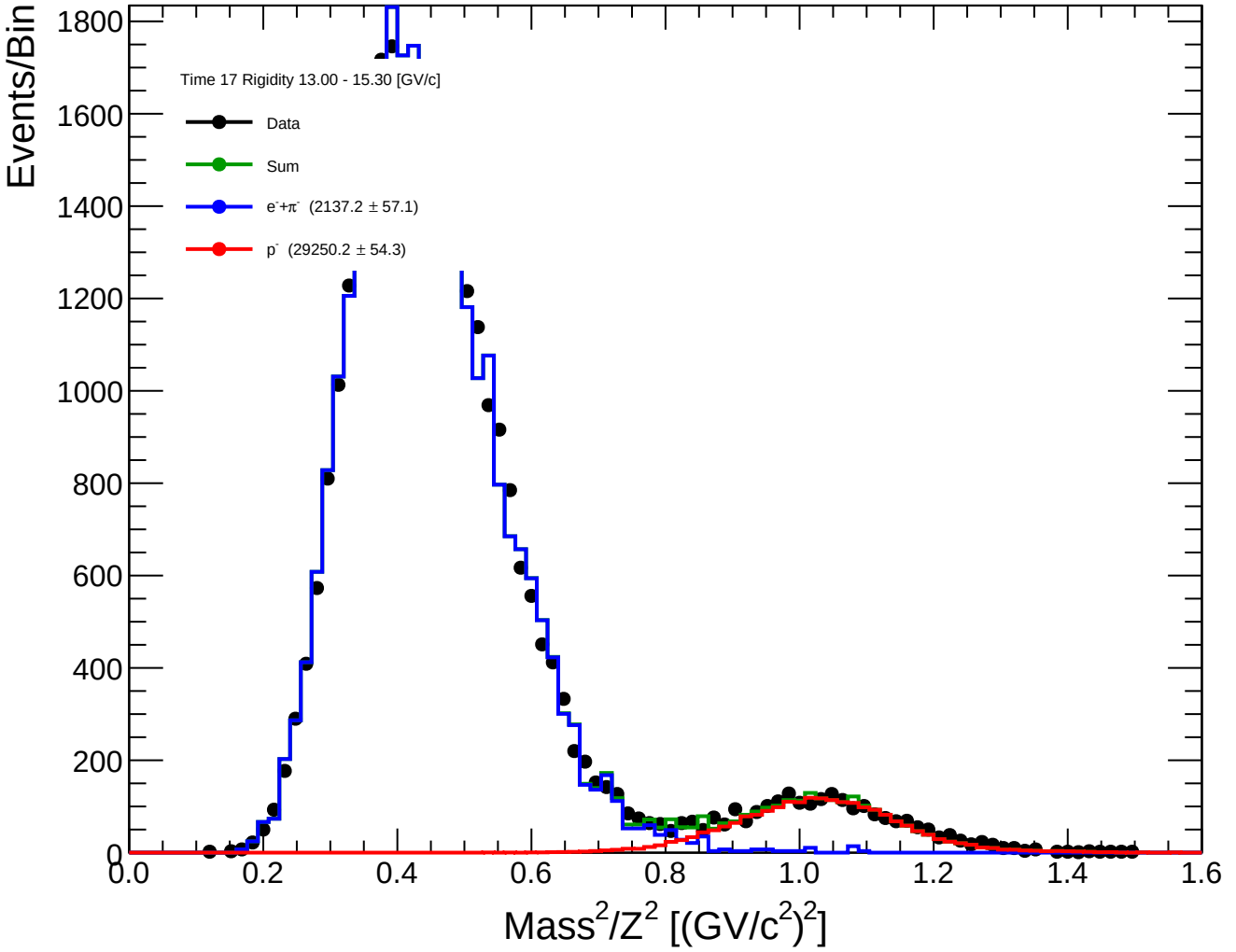

Time 17 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1880.1± 56.7)
p⁻ (35014.5 ± 53.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

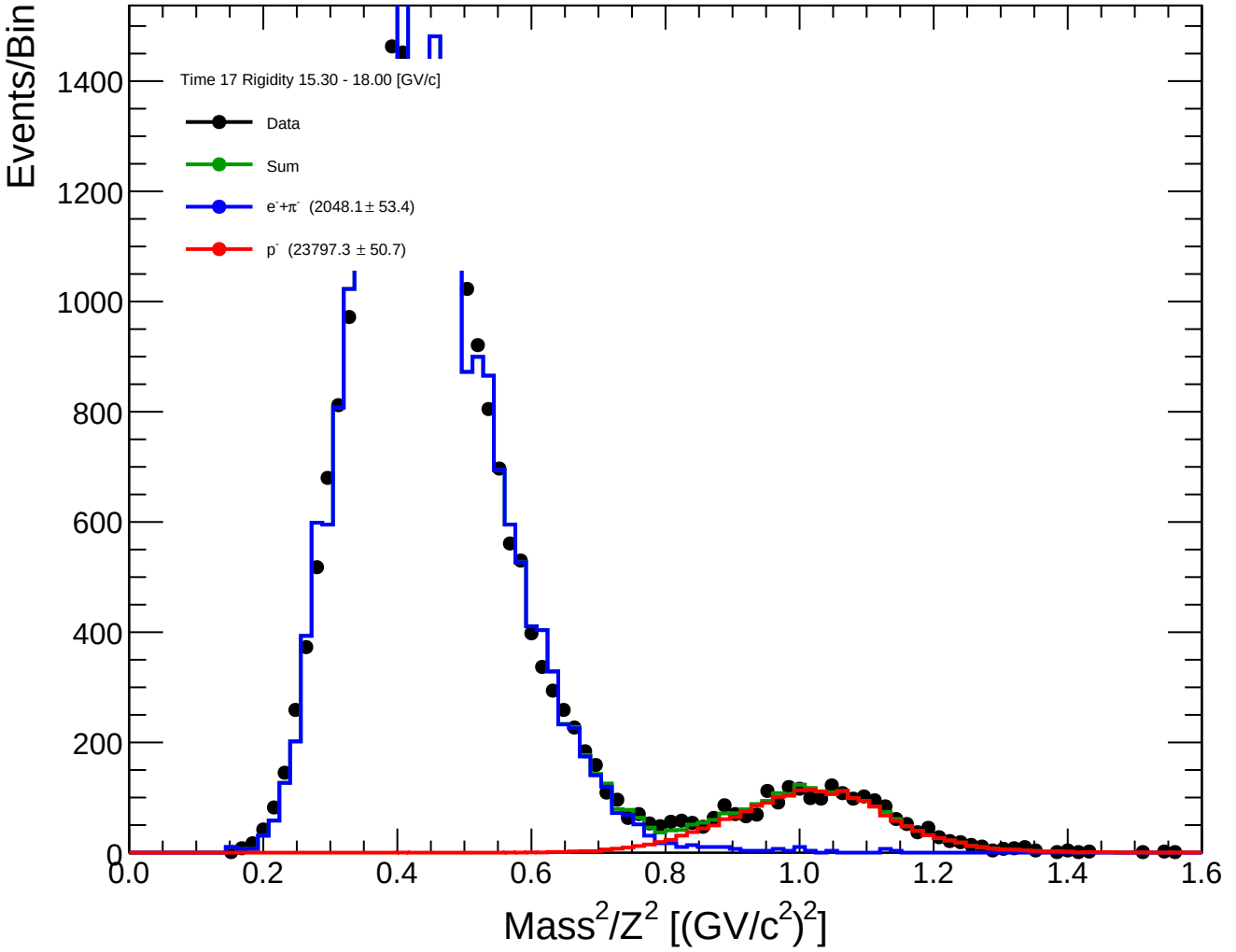

Events/Bin
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Time 17 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1735.8 ± 53.7)
p⁻ (34095.4 ± 50.7)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

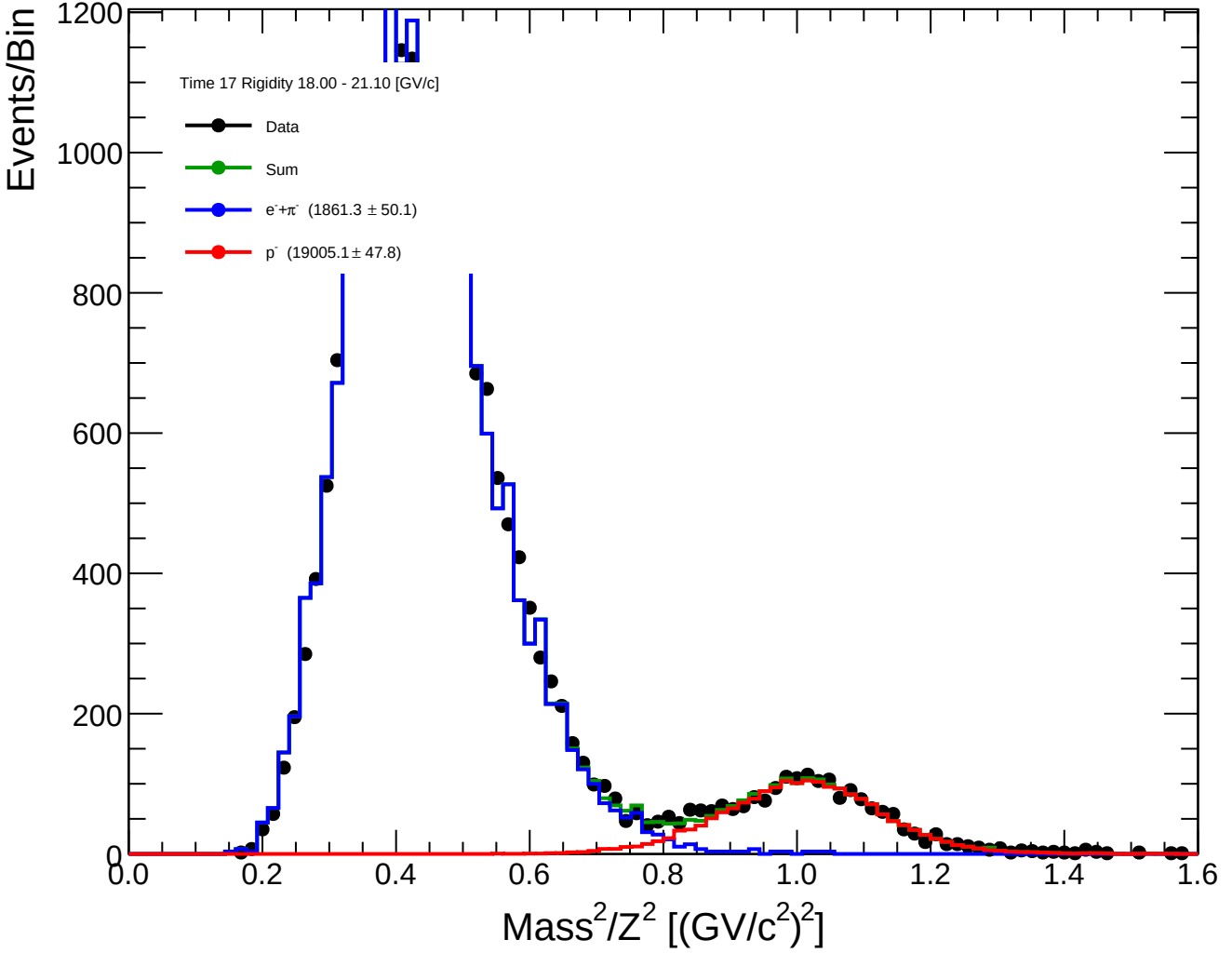

Time 17 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1659.7 ± 53.5)
p⁻ (31109.9 ± 49.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

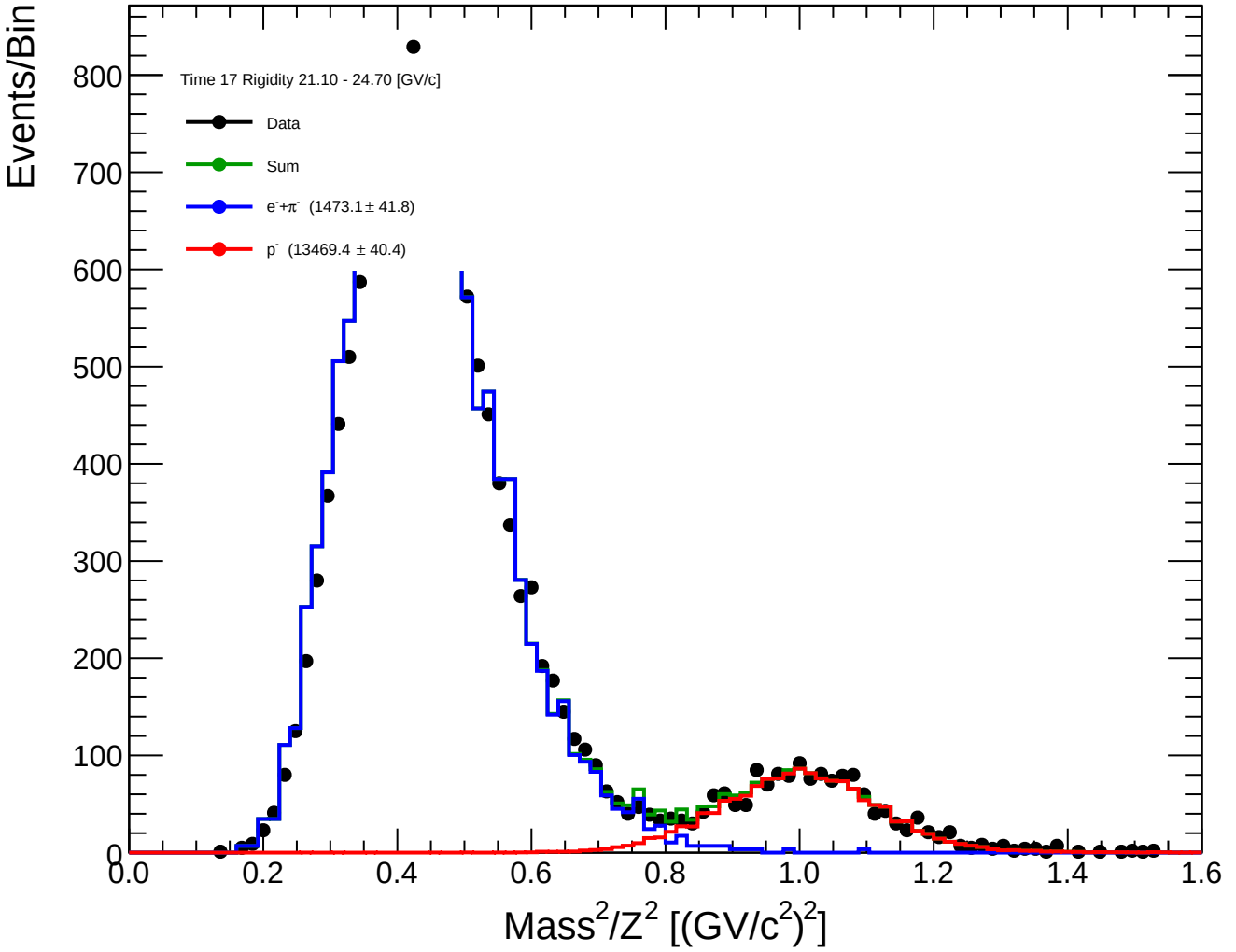

Time 17 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2857.9 ± 77.2)
p⁻ (51365.0 ± 71.8)
Events/Bin
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

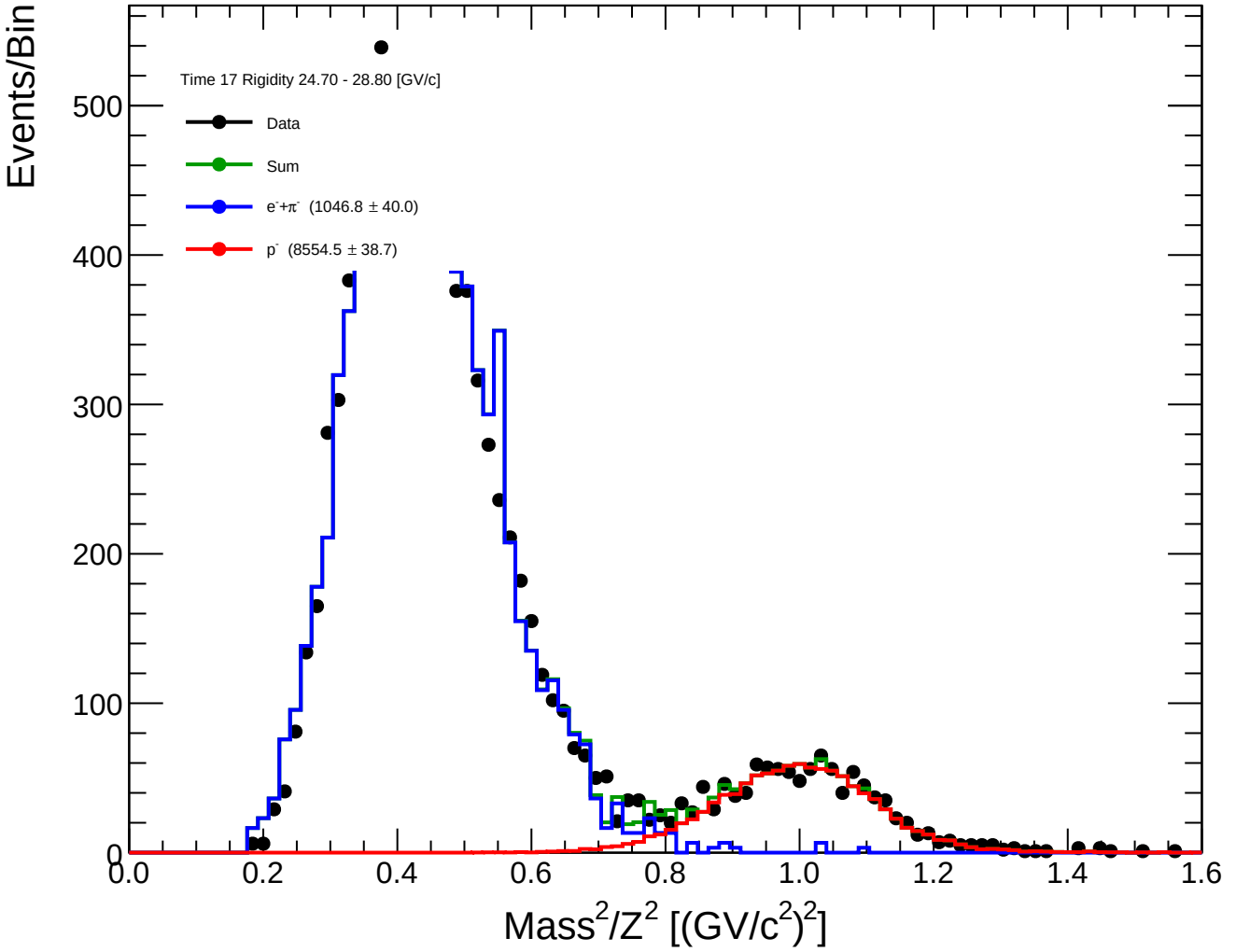

Time 17 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2579.4 ± 64.9)
p⁻ (38124.1 ± 61.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

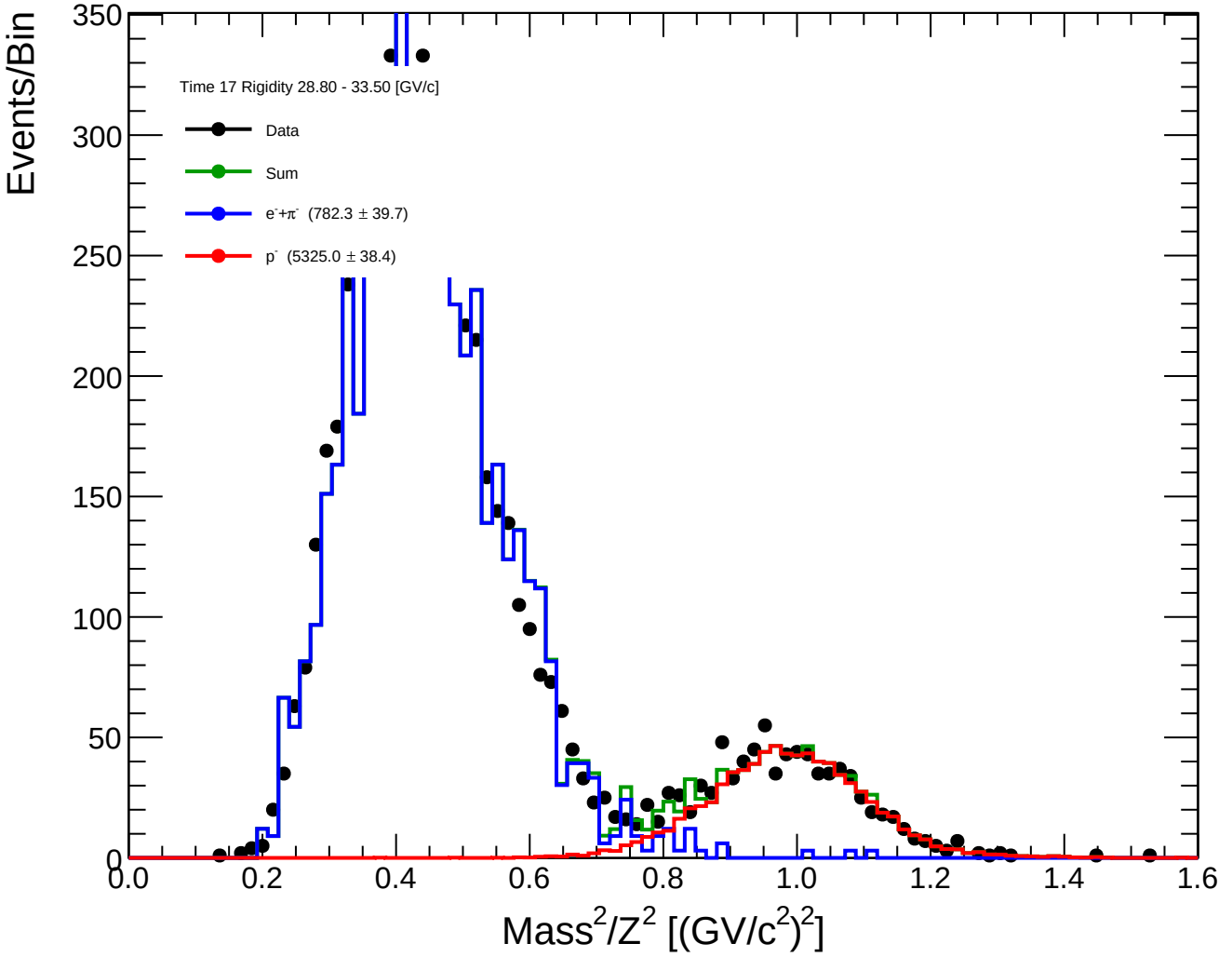

Time 17 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2137.2 ± 57.1)
p⁻ (29250.2 ± 54.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

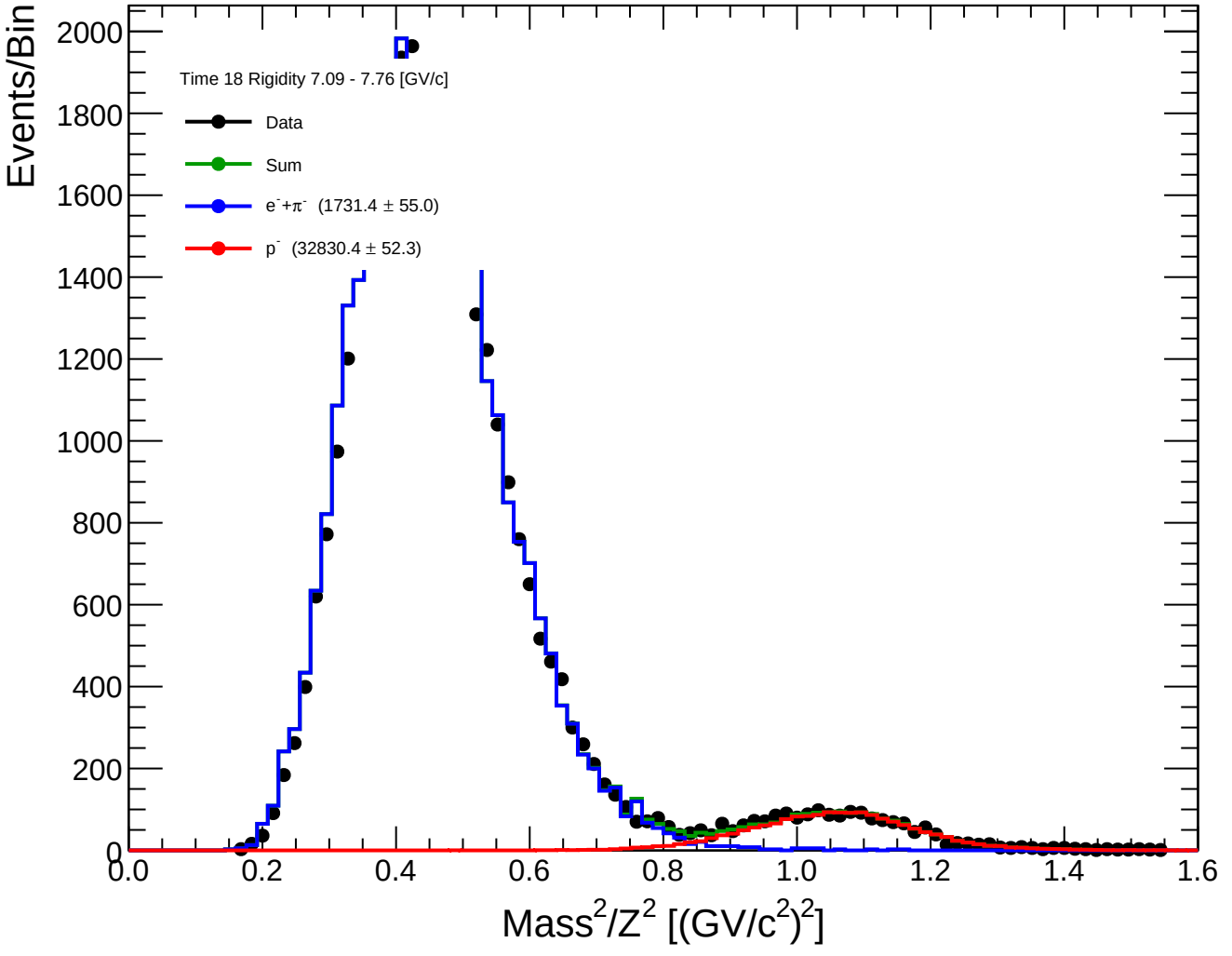

Time 17 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2048.1 ± 53.4)
p⁻ (23797.3 ± 50.7)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

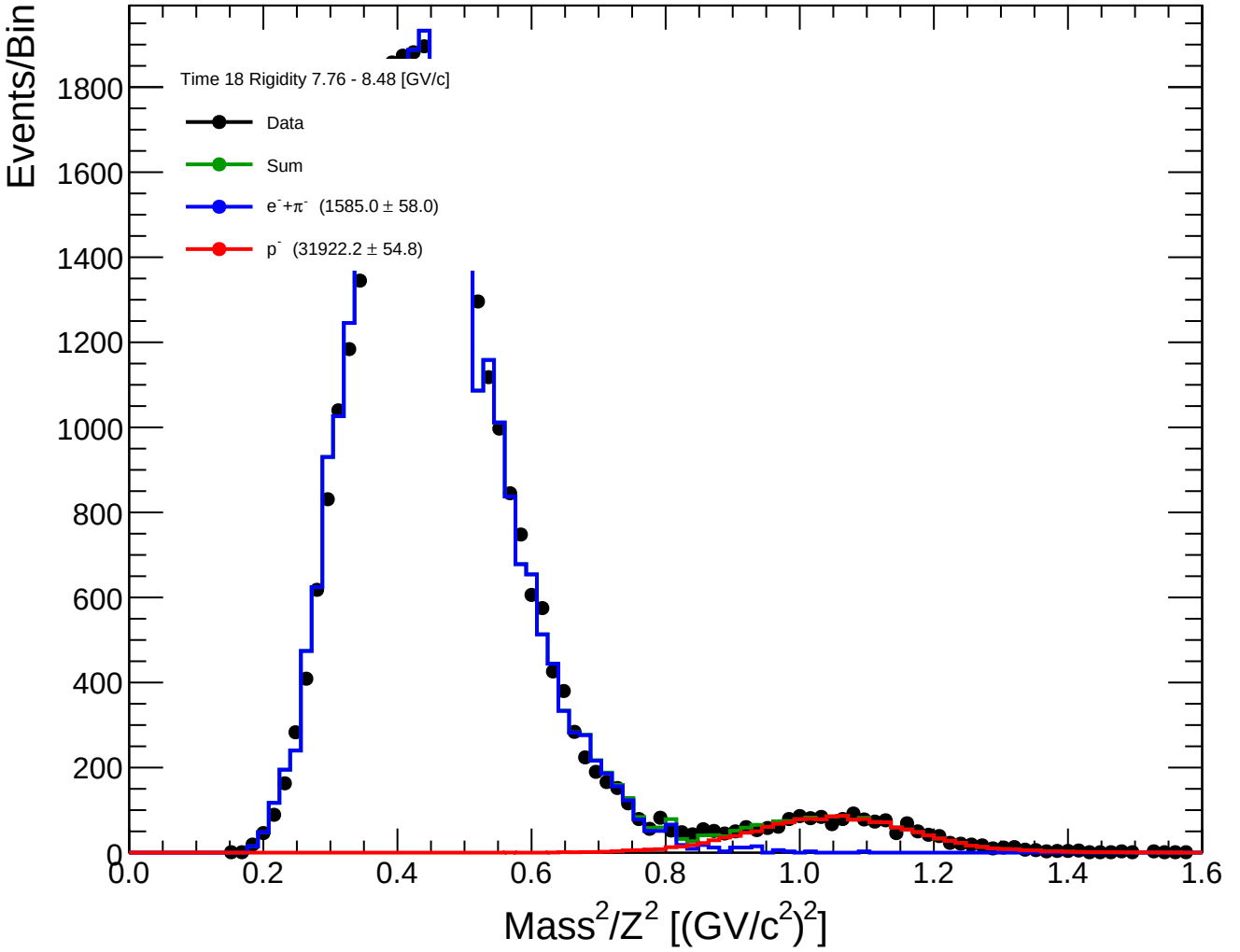

Time 17 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1861.3 ± 50.1)
p⁻ (19005.1 ± 47.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

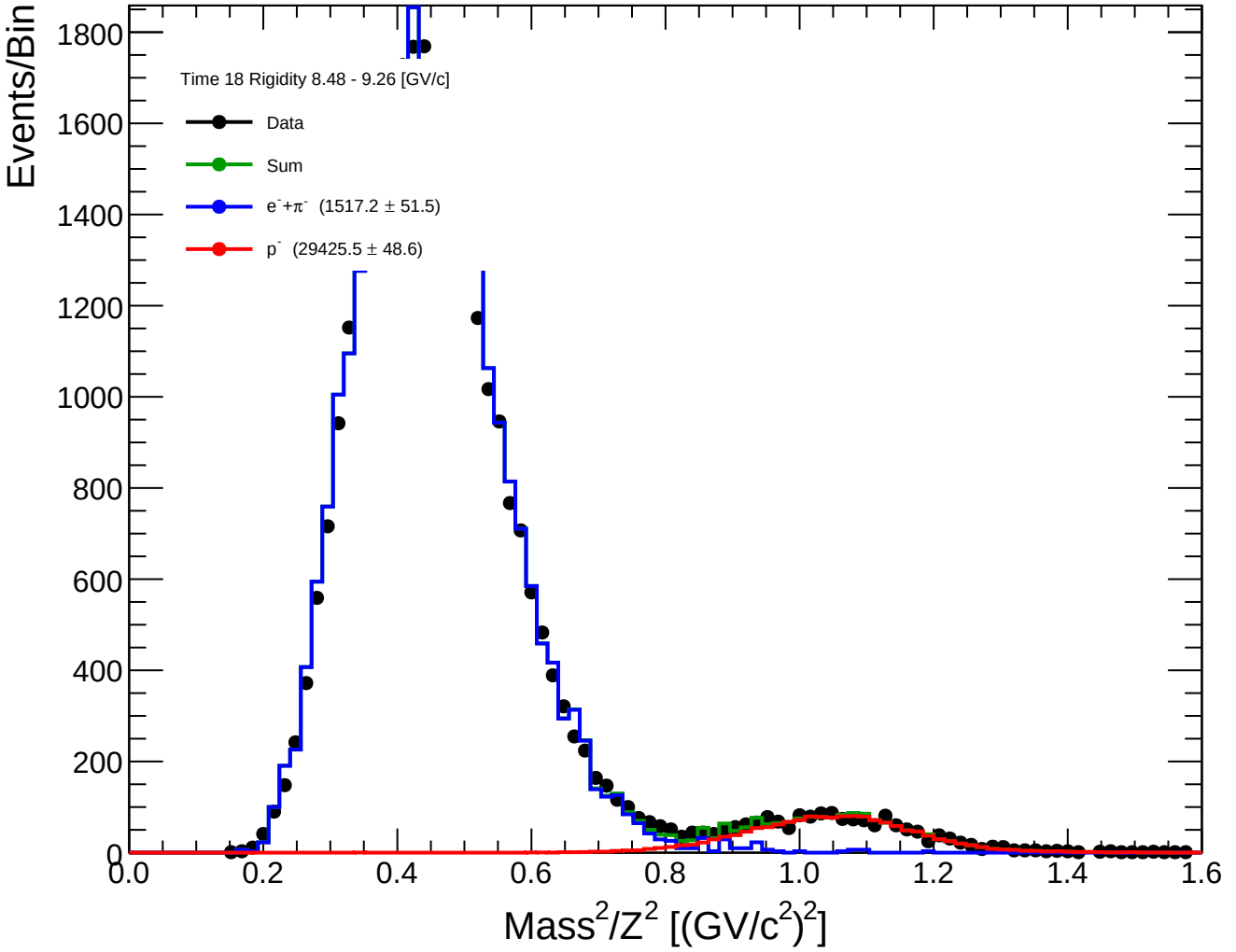

Time 17 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1473.1 ± 41.8)
p⁻ (13469.4 ± 40.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

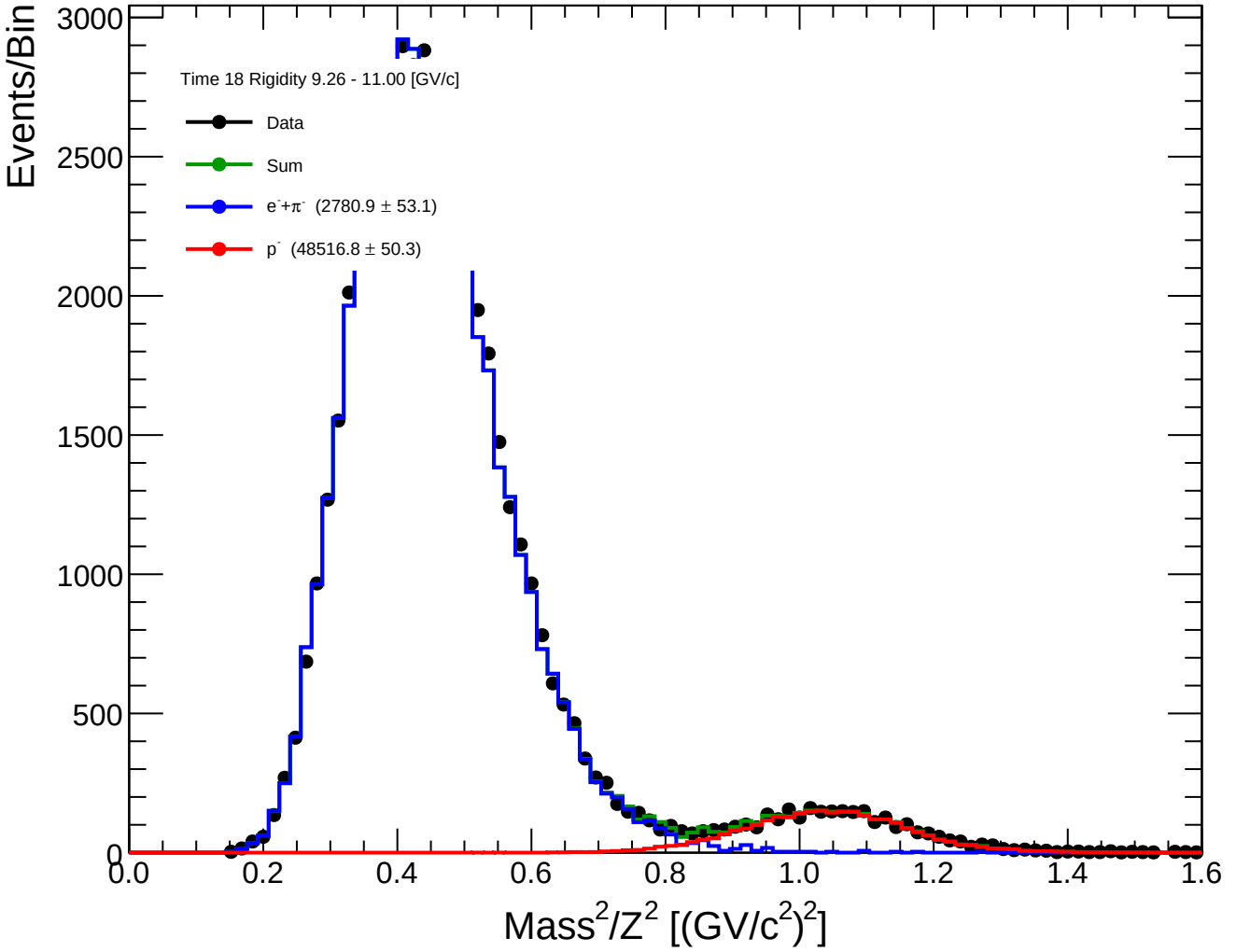

Time 17 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1046.8 ± 40.0)
p⁻ (8554.5 ± 38.7)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

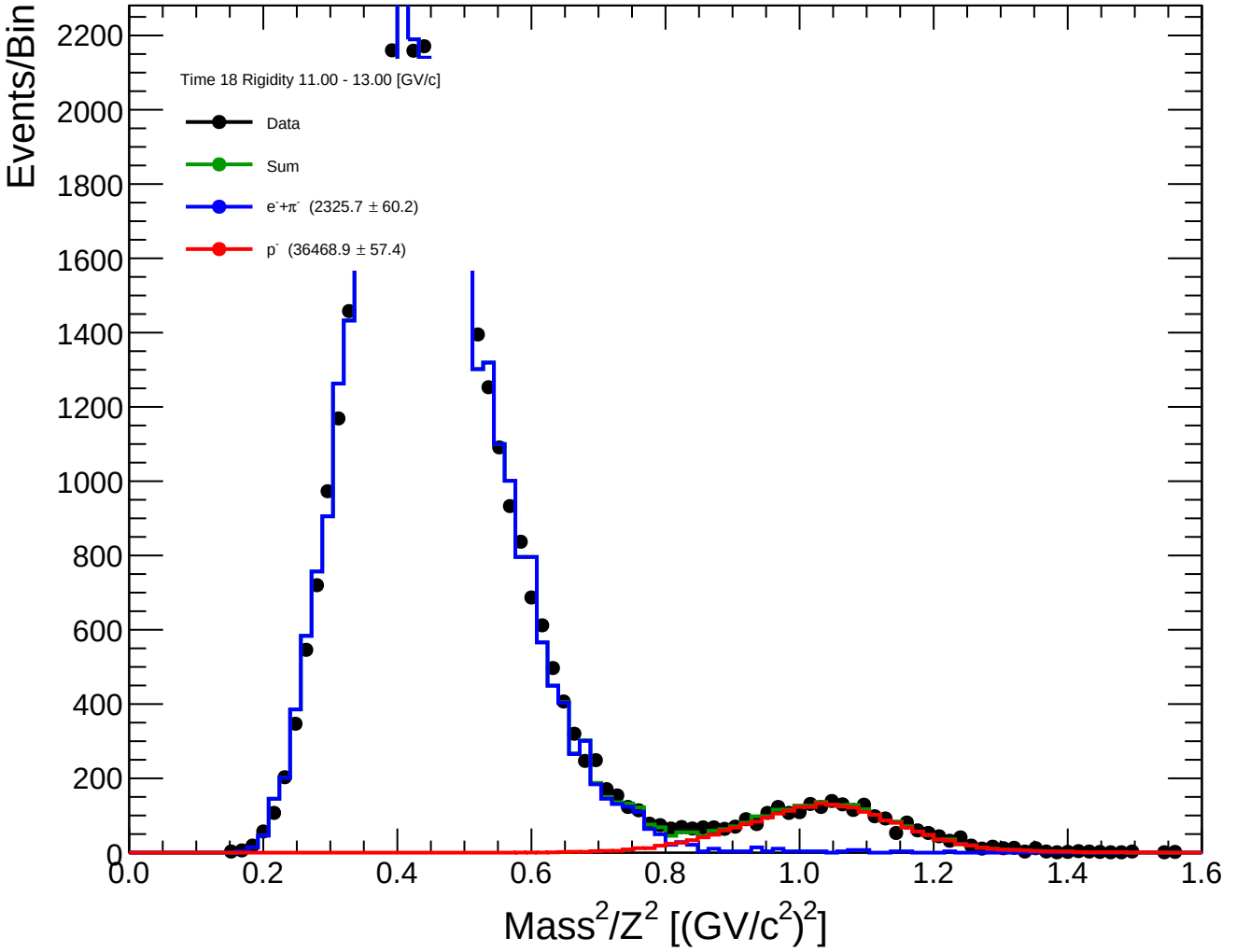

Time 17 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (782.3 ± 39.7)
p⁻ (5325.0 ± 38.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

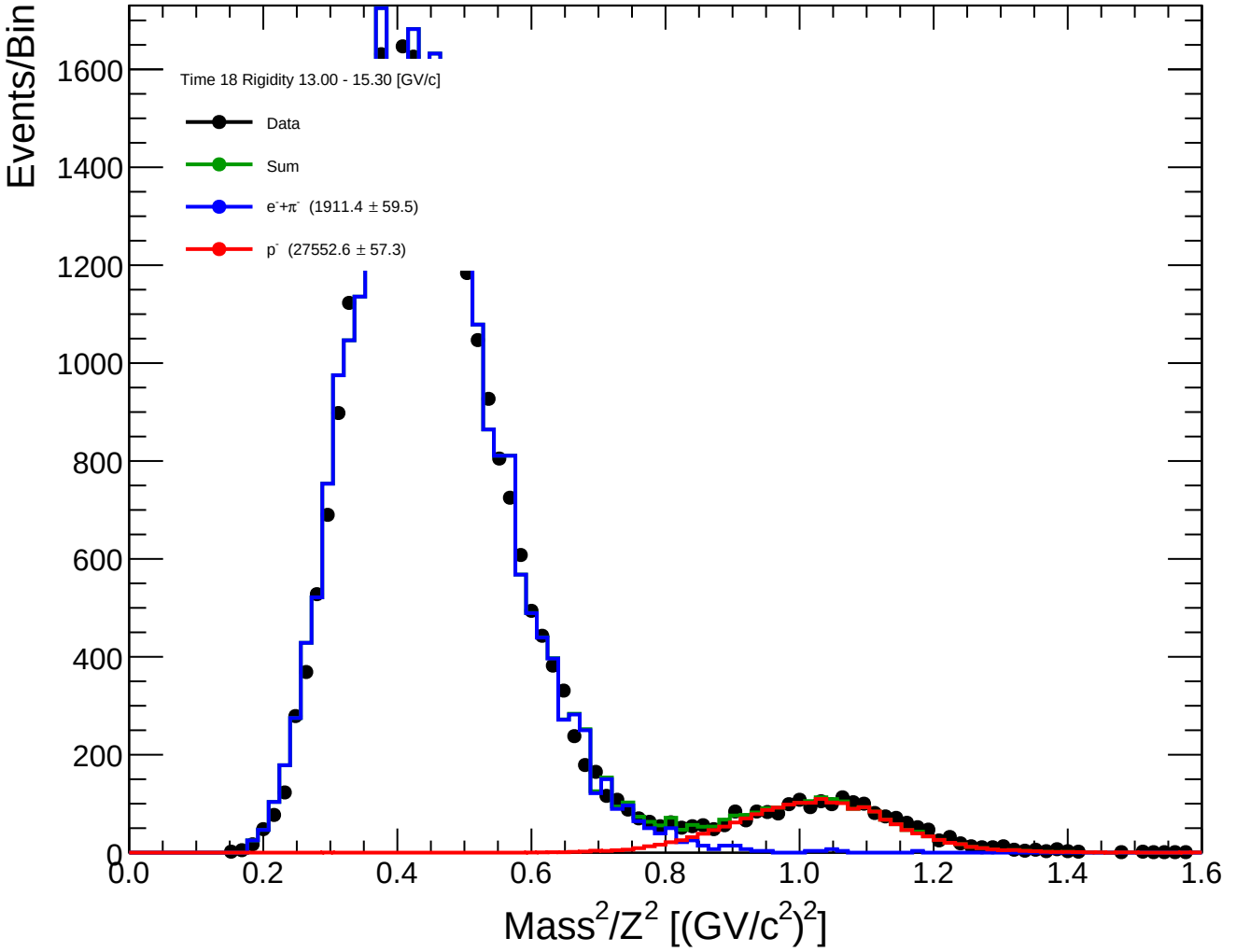

Time 18 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1731.4 ± 55.0)
p⁻ (32830.4 ± 52.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

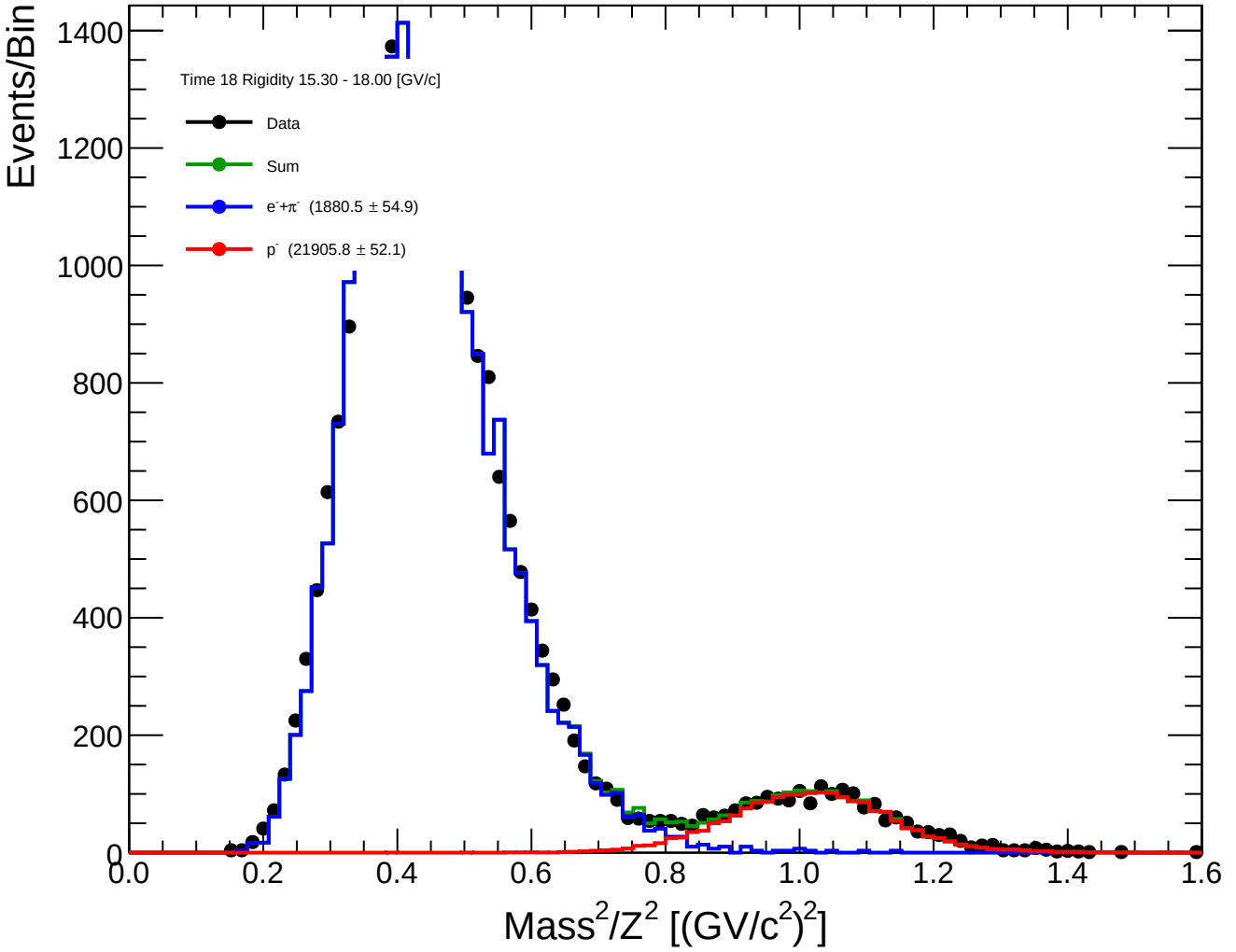

Time 18 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1585.0 ± 58.0)
p⁻ (31922.2 ± 54.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

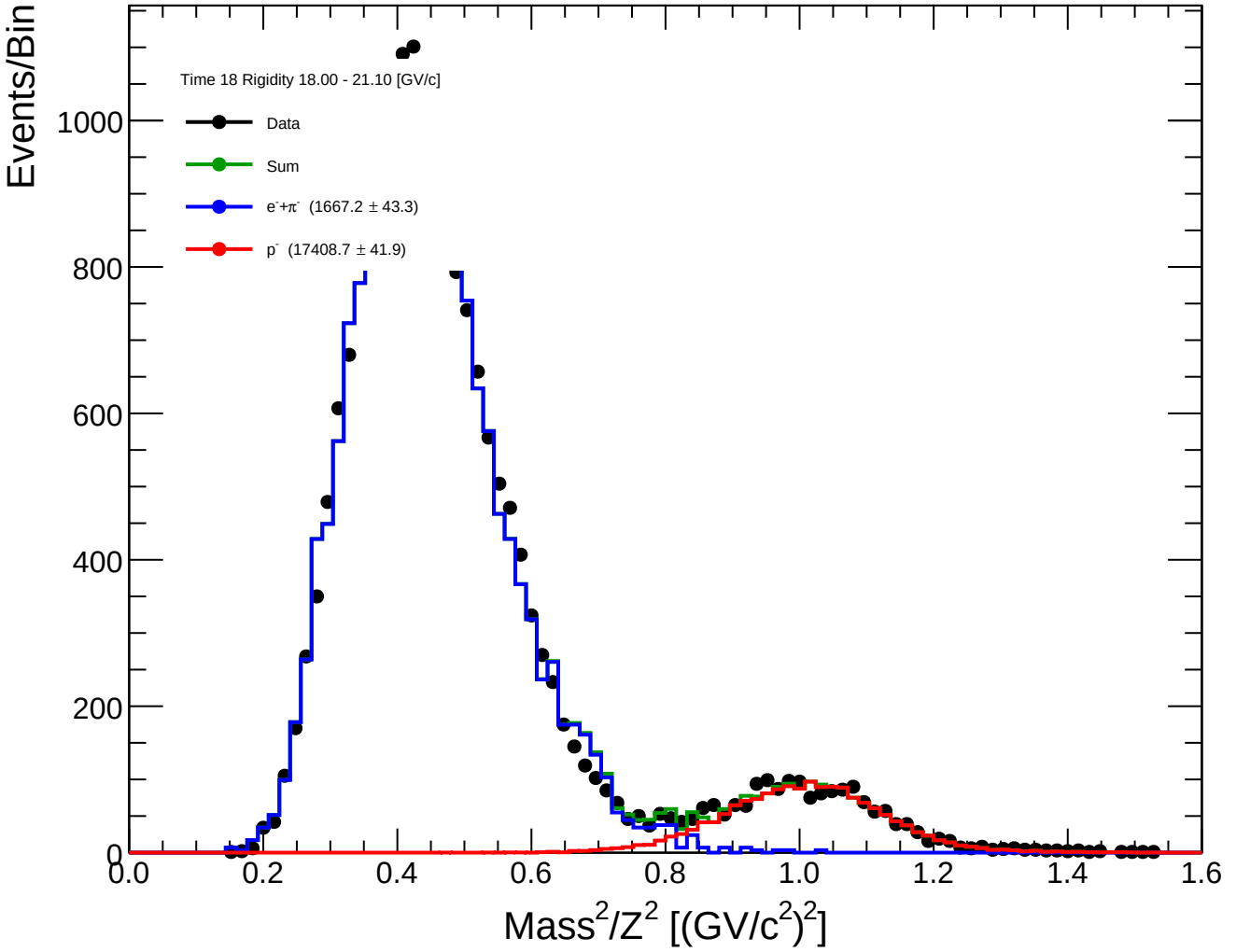

Time 18 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1517.2 ± 51.5)
p⁻ (29425.5 ± 48.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

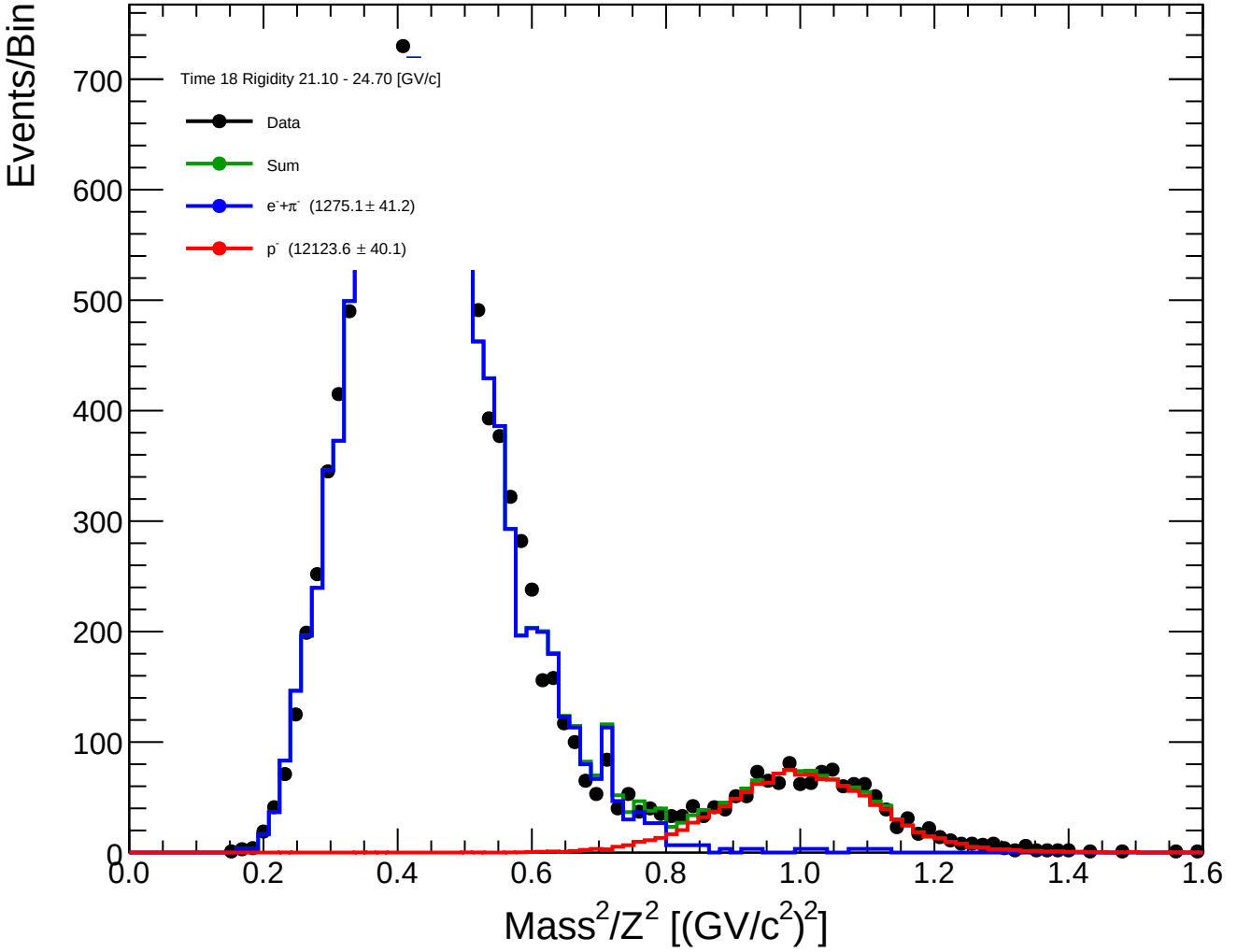

Time 18 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2780.9 ± 53.1)
p⁻ (48516.8 ± 50.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

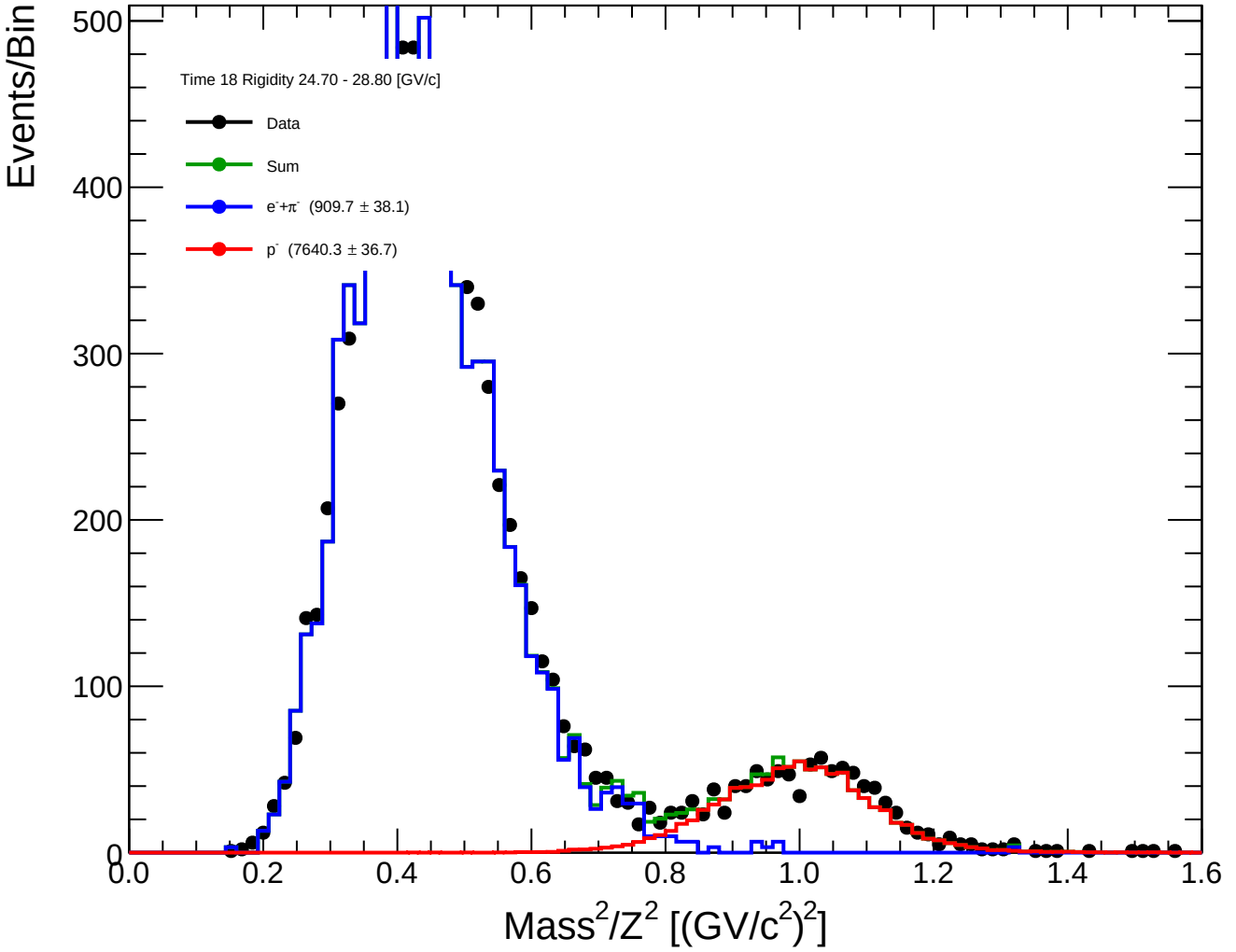

Time 18 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2325.7 ± 60.2)
p⁻ (36468.9 ± 57.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

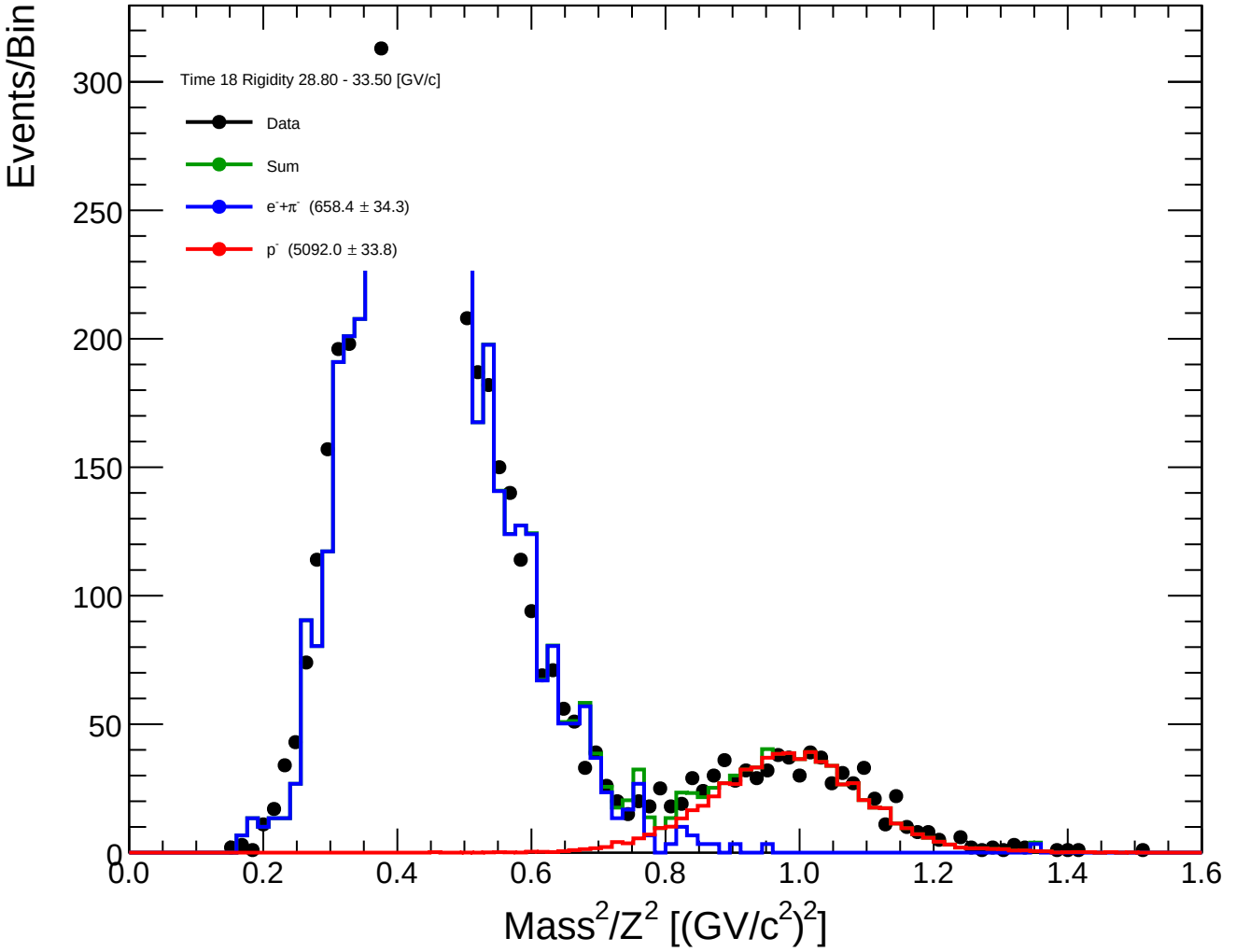

Time 18 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (1911.4 ± 59.5)
p⁻ (27552.6 ± 57.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

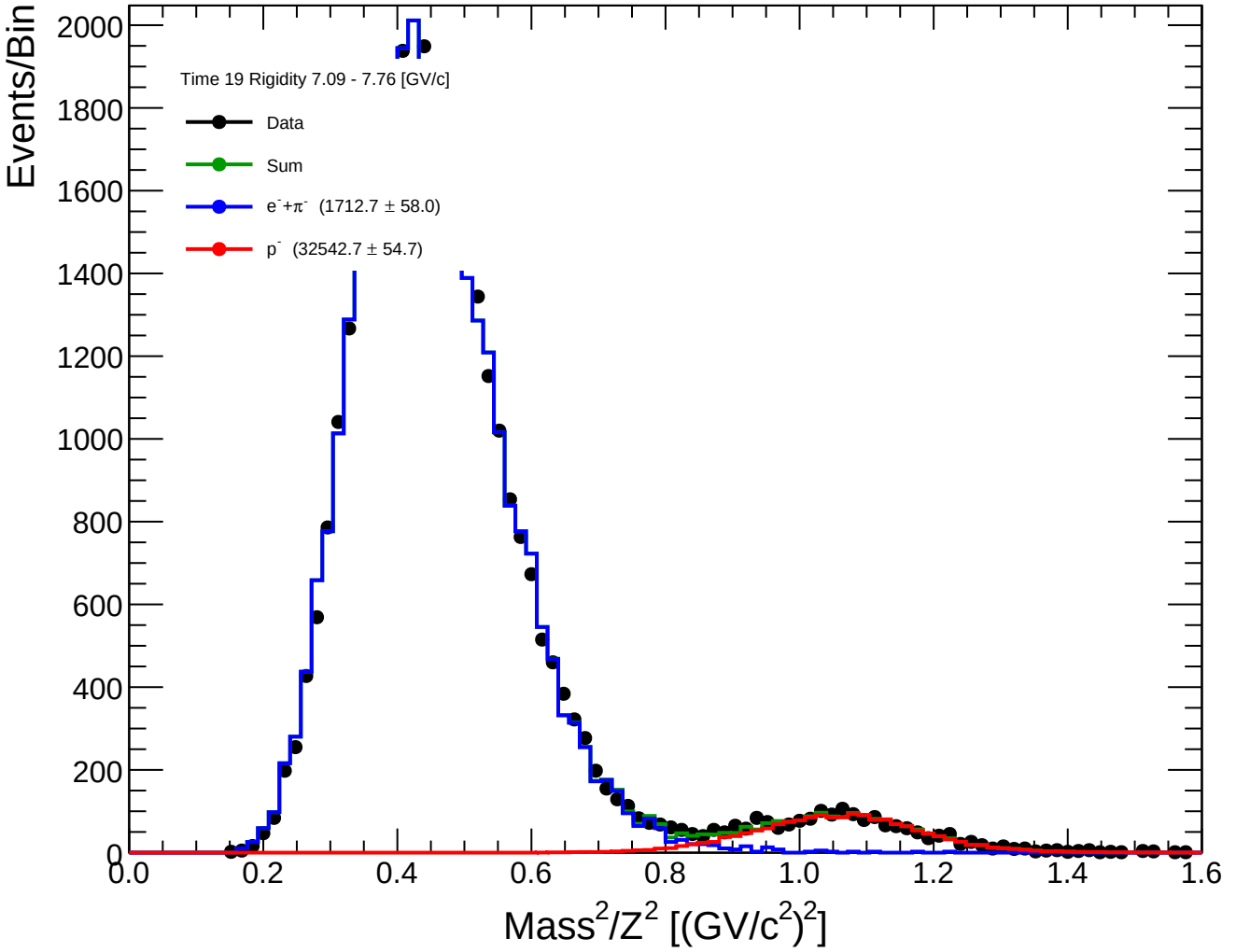

Time 18 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1880.5 ± 54.9)
p⁻ (21905.8 ± 52.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

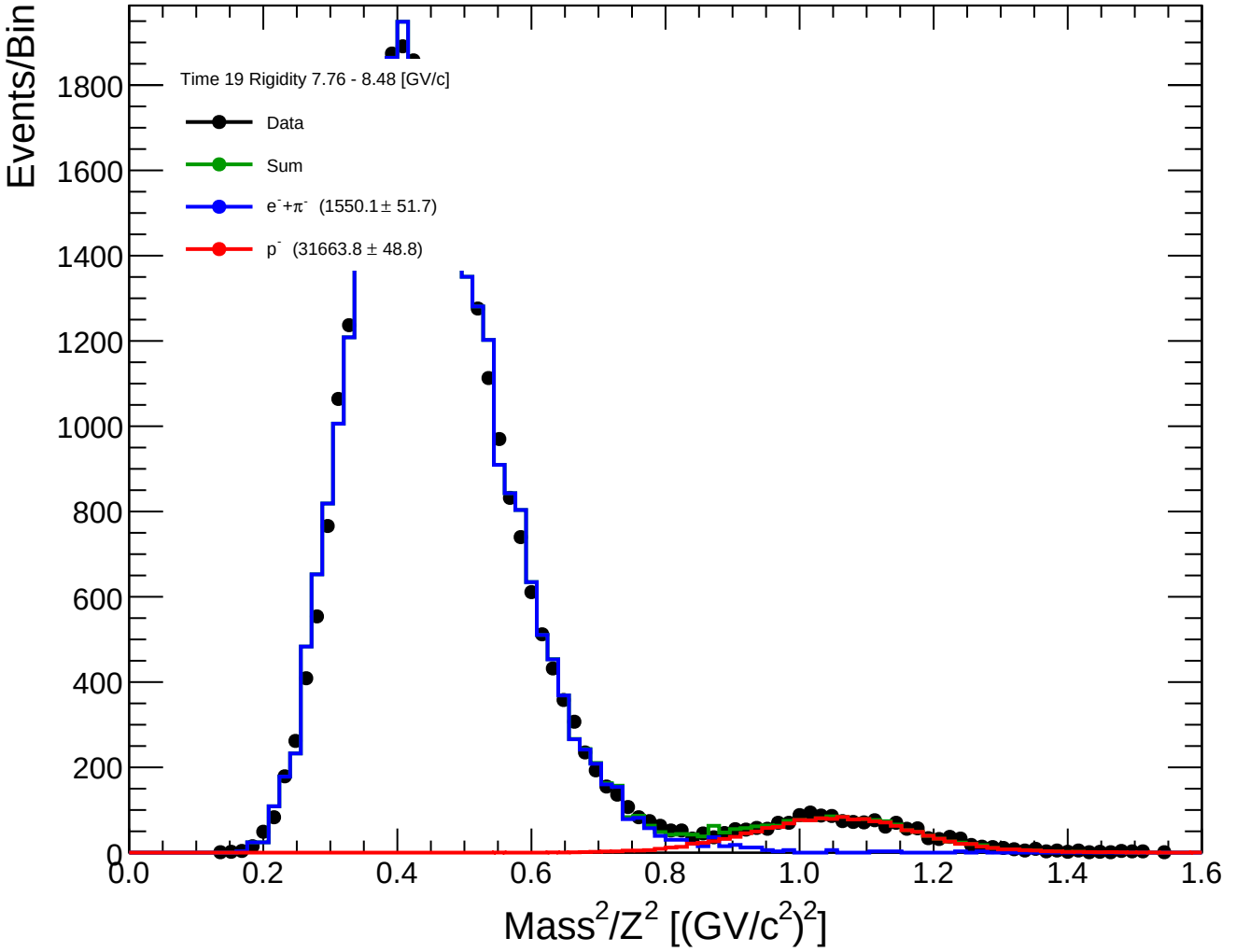

Time 18 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1667.2 ± 43.3)
p⁻ (17408.7 ± 41.9)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

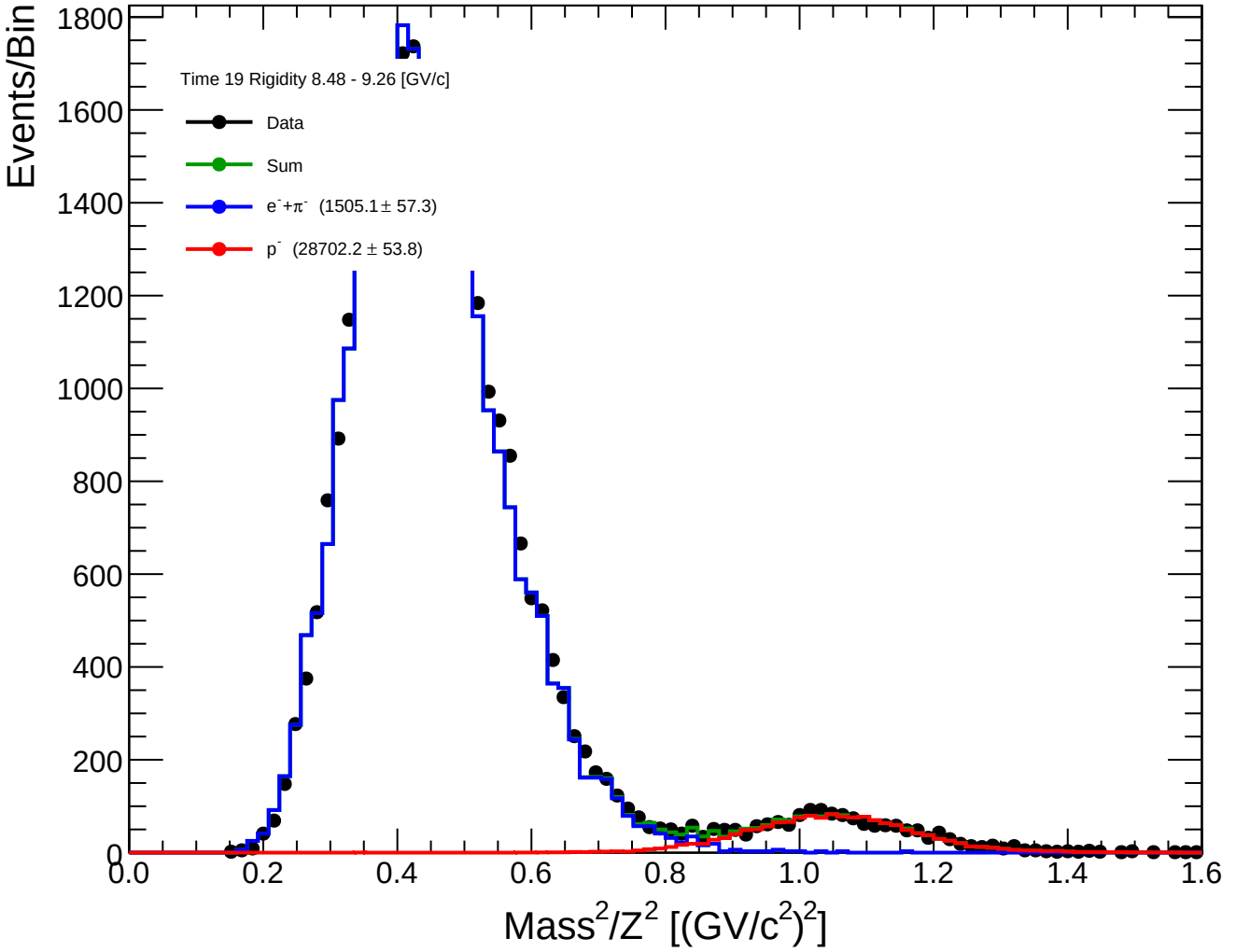

Time 18 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1275.1 ± 41.2)
p⁻ (12123.6 ± 40.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

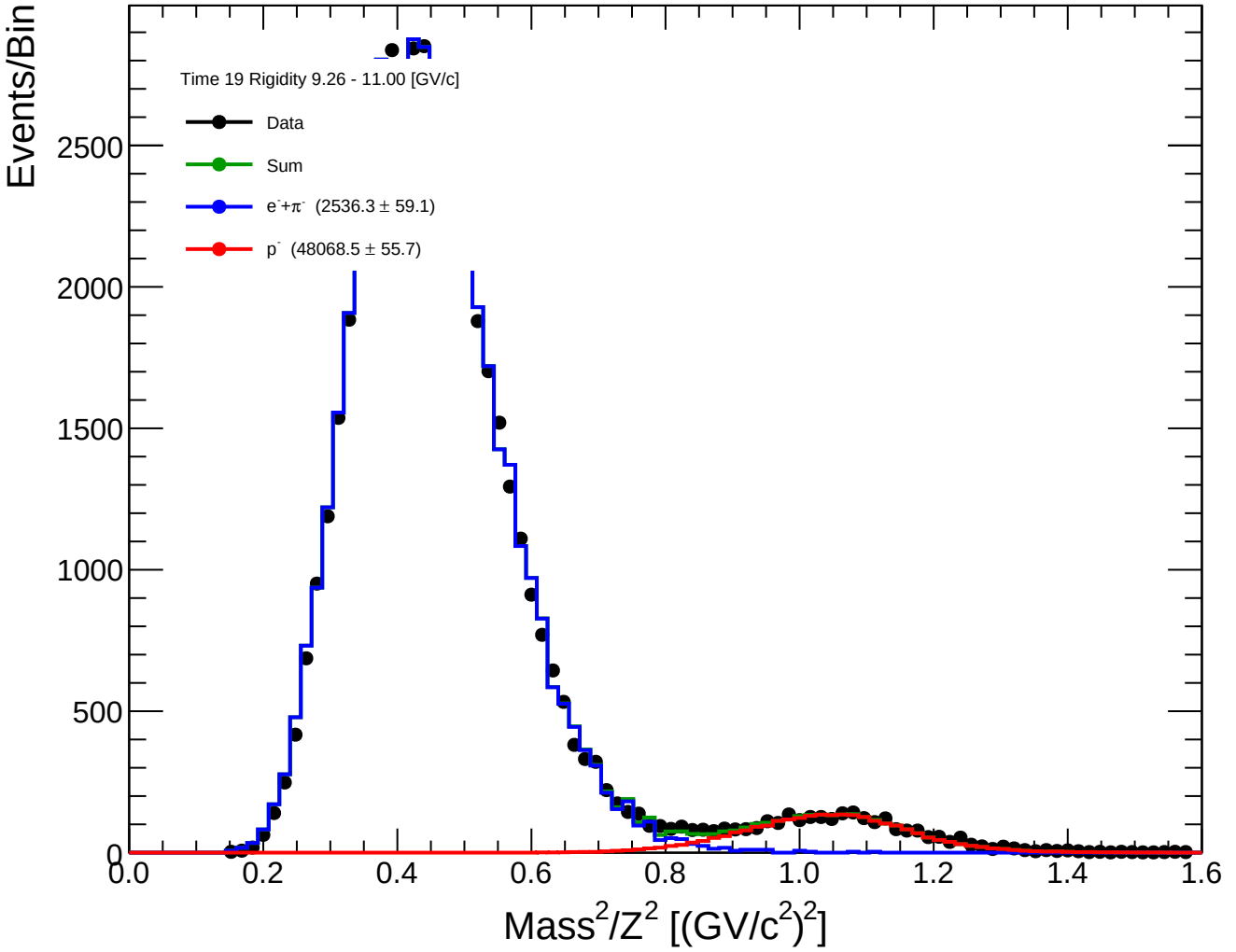

Time 18 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (909.7 ± 38.1)
p⁻ (7640.3 ± 36.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

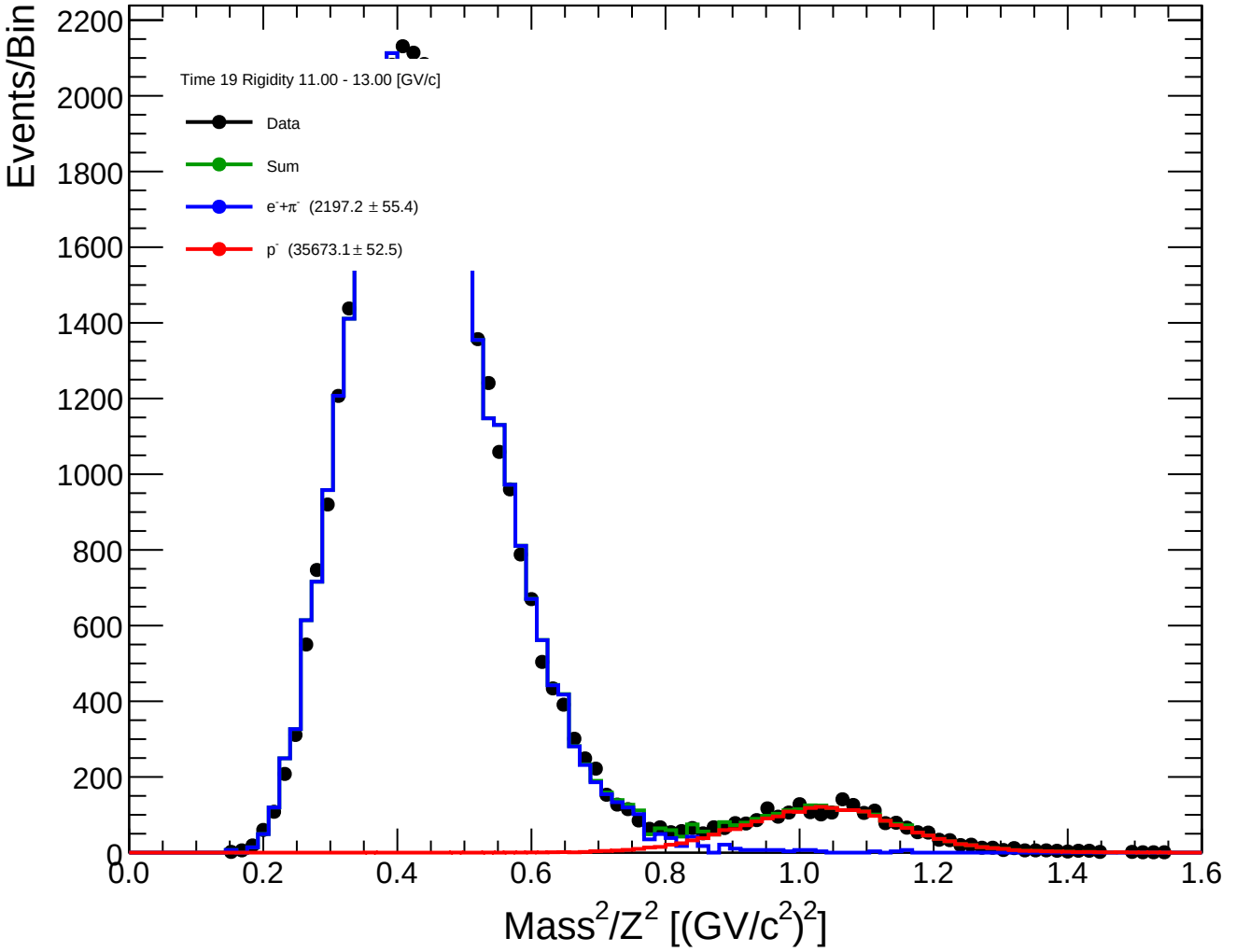

Time 18 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (658.4 ± 34.3)
p⁻ (5092.0 ± 33.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

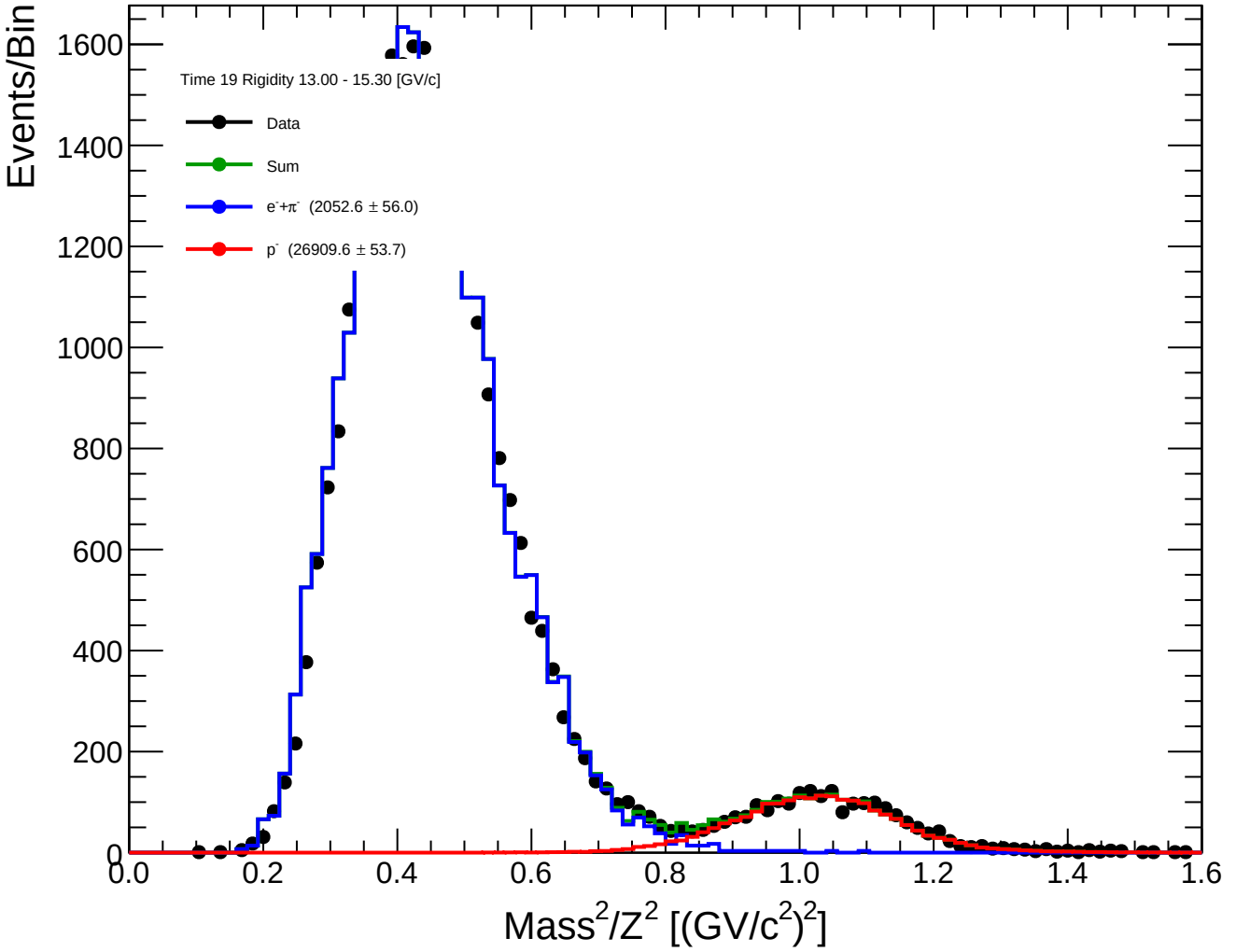

Time 19 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1712.7 ± 58.0)
p⁻ (32542.7 ± 54.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

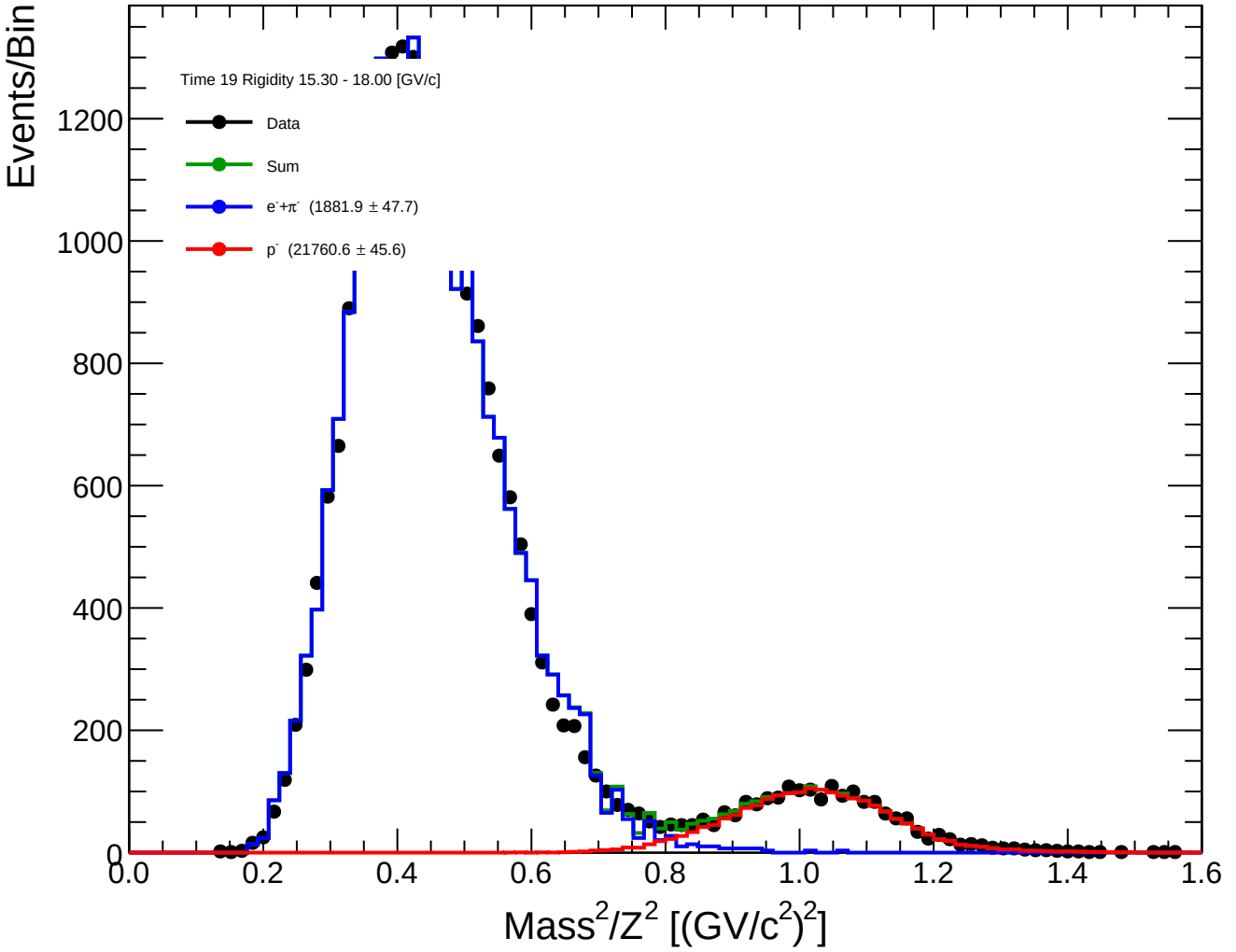

Time 19 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1550.1± 51.7)
p⁻ (31663.8 ± 48.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

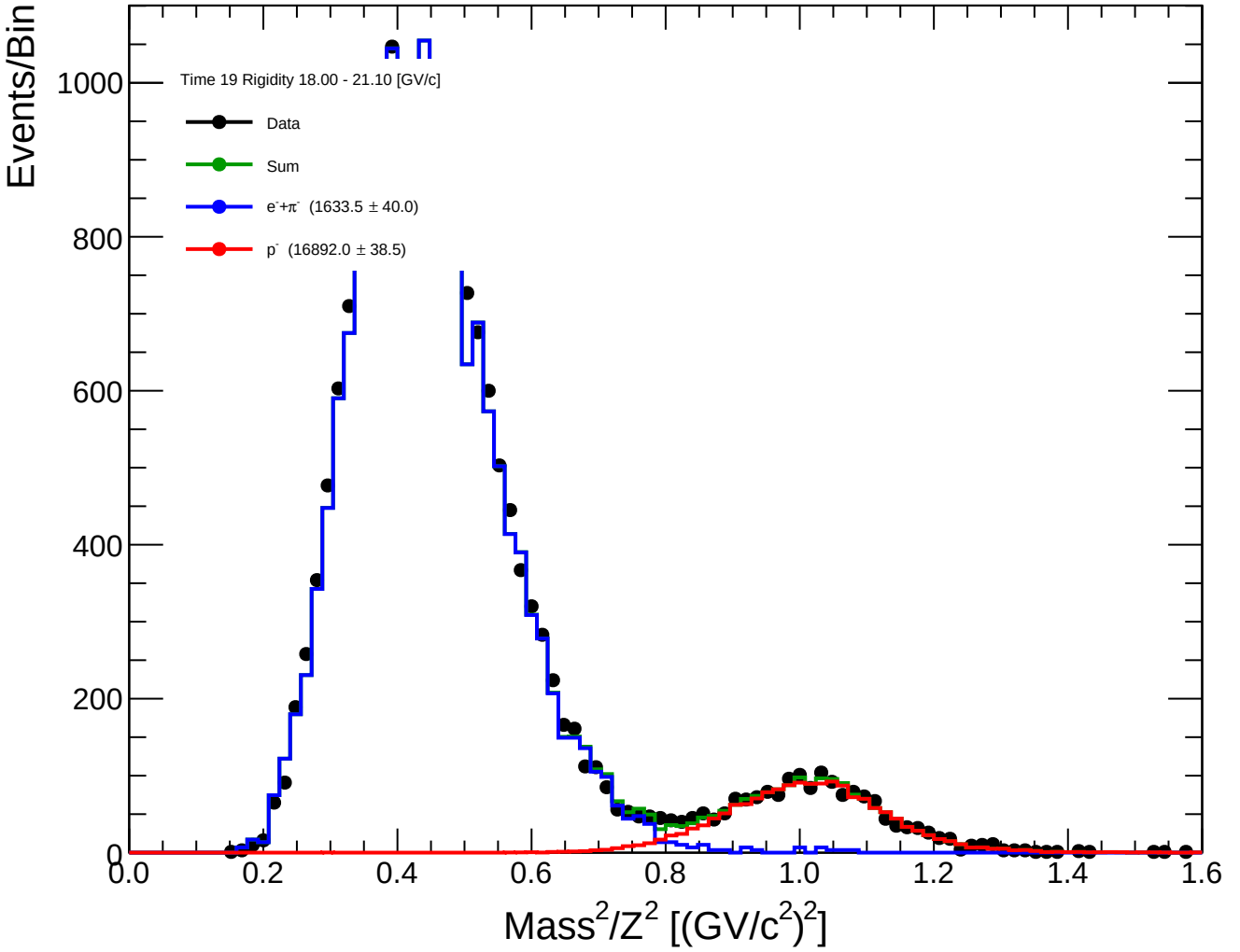

Time 19 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1505.1± 57.3)
p⁻ (28702.2 ± 53.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

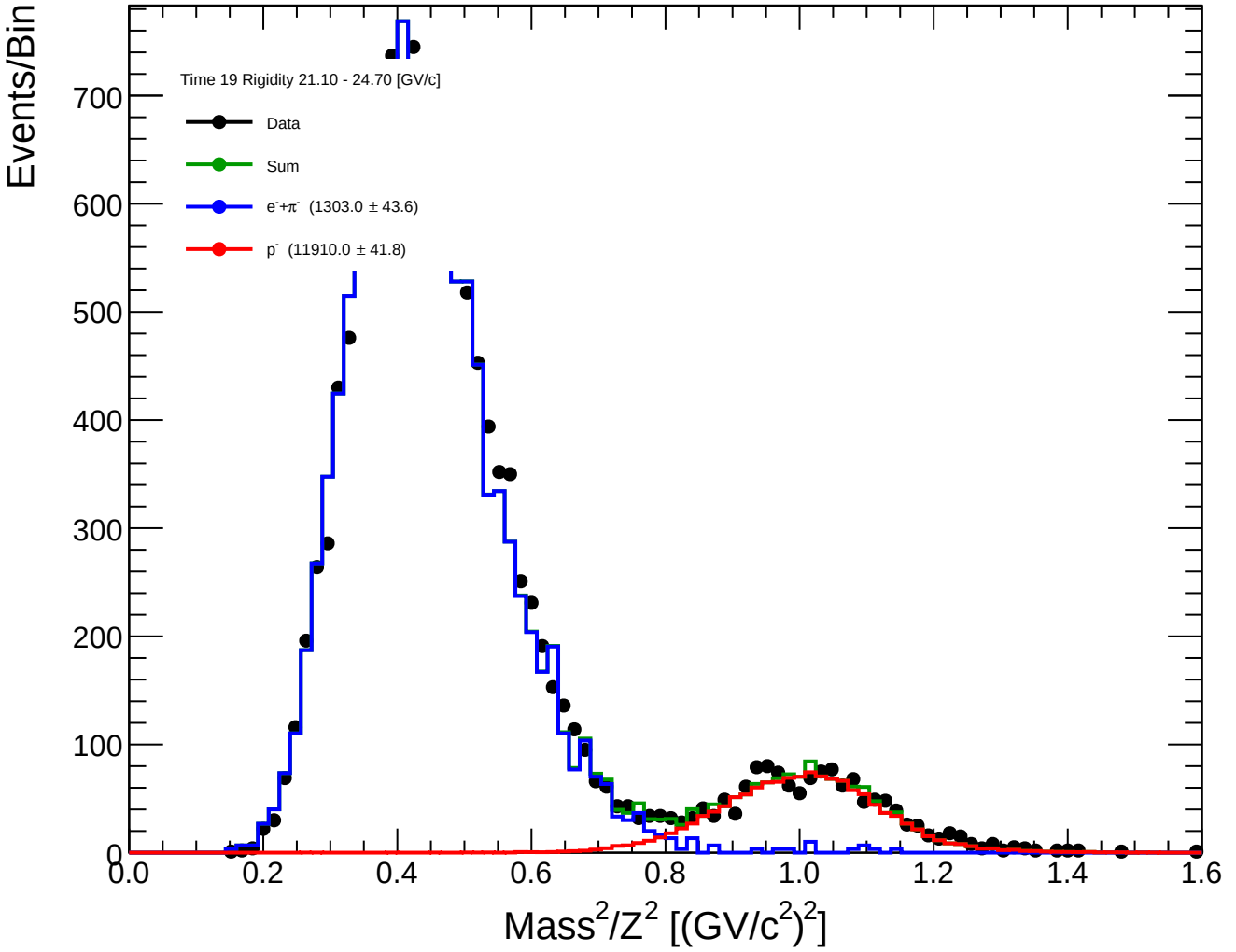

Time 19 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2536.3 ± 59.1)
p⁻ (48068.5 ± 55.7)
Events/Bin
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

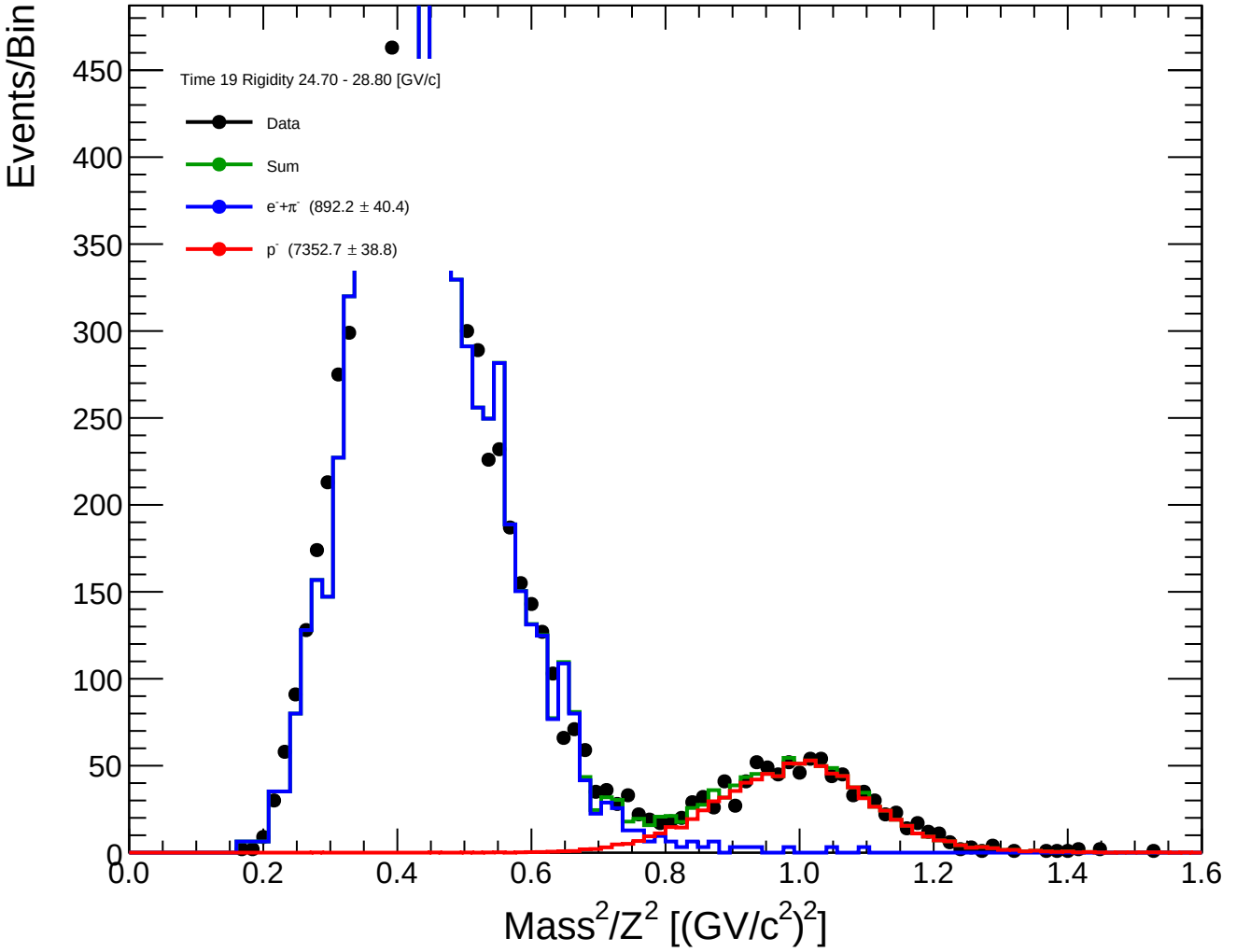

Time 19 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2197.2 ± 55.4)
p⁻ (35673.1 ± 52.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

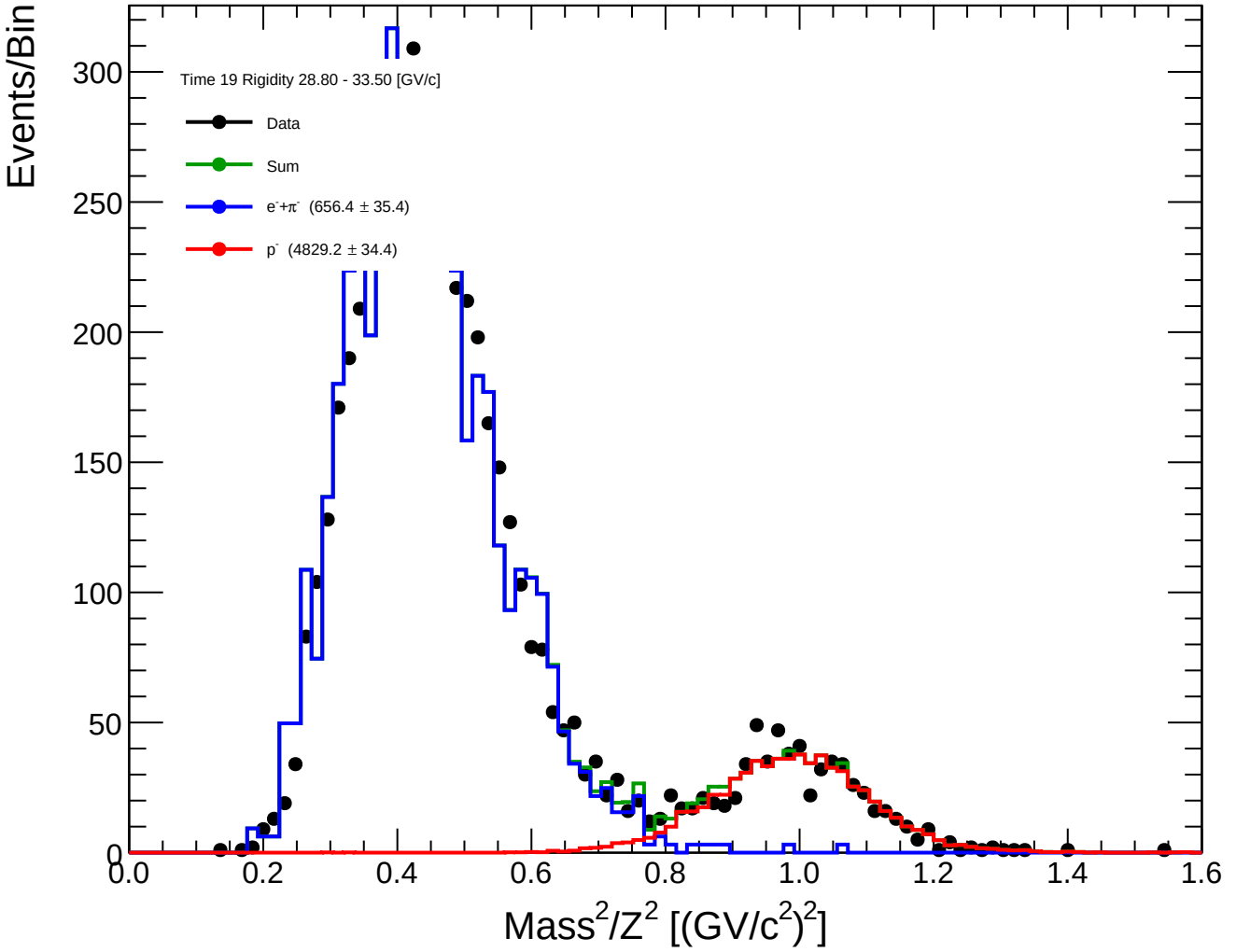

Time 19 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2052.6 ± 56.0)
p⁻ (26909.6 ± 53.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

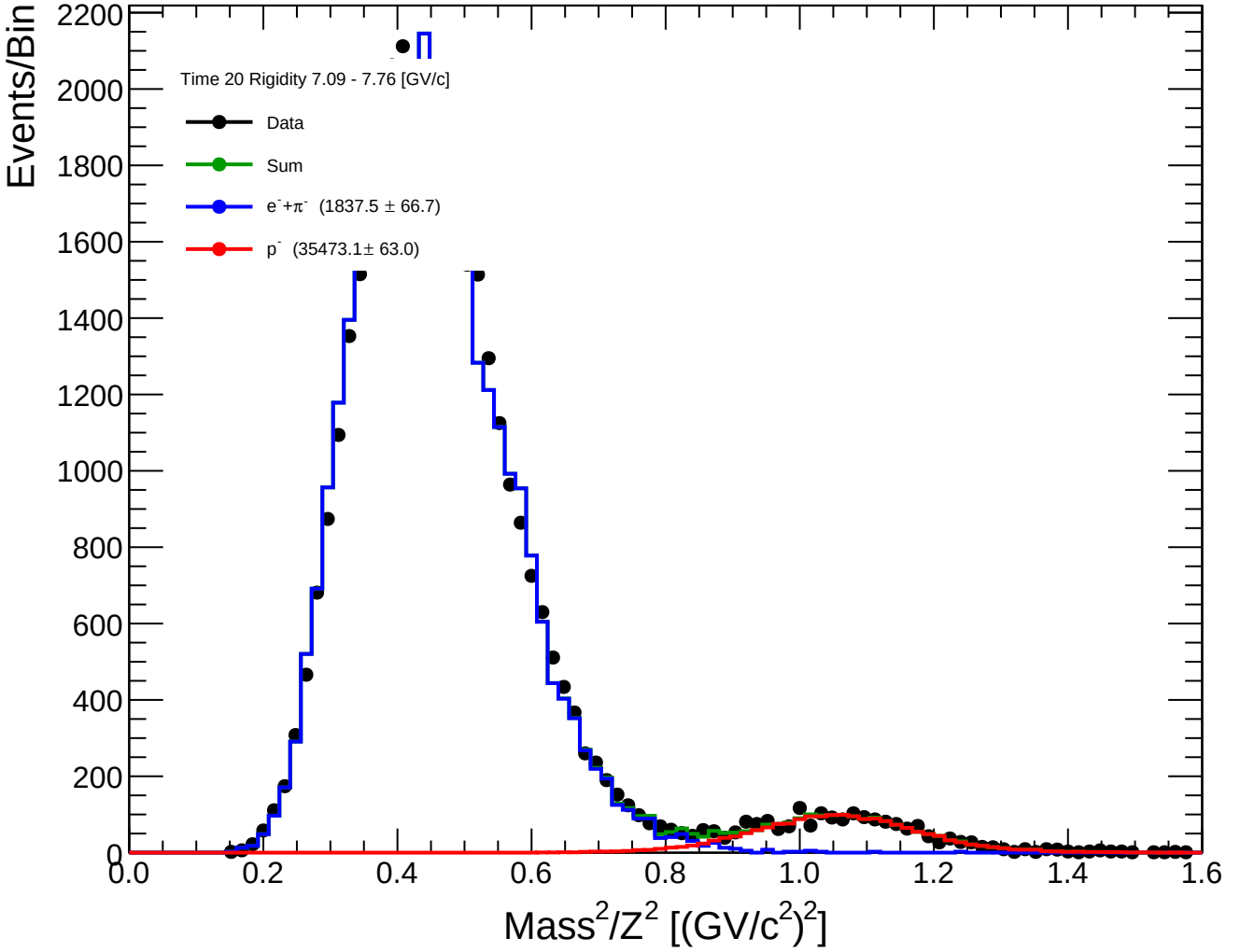

Time 19 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1881.9 ± 47.7)
p⁻ (21760.6 ± 45.6)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

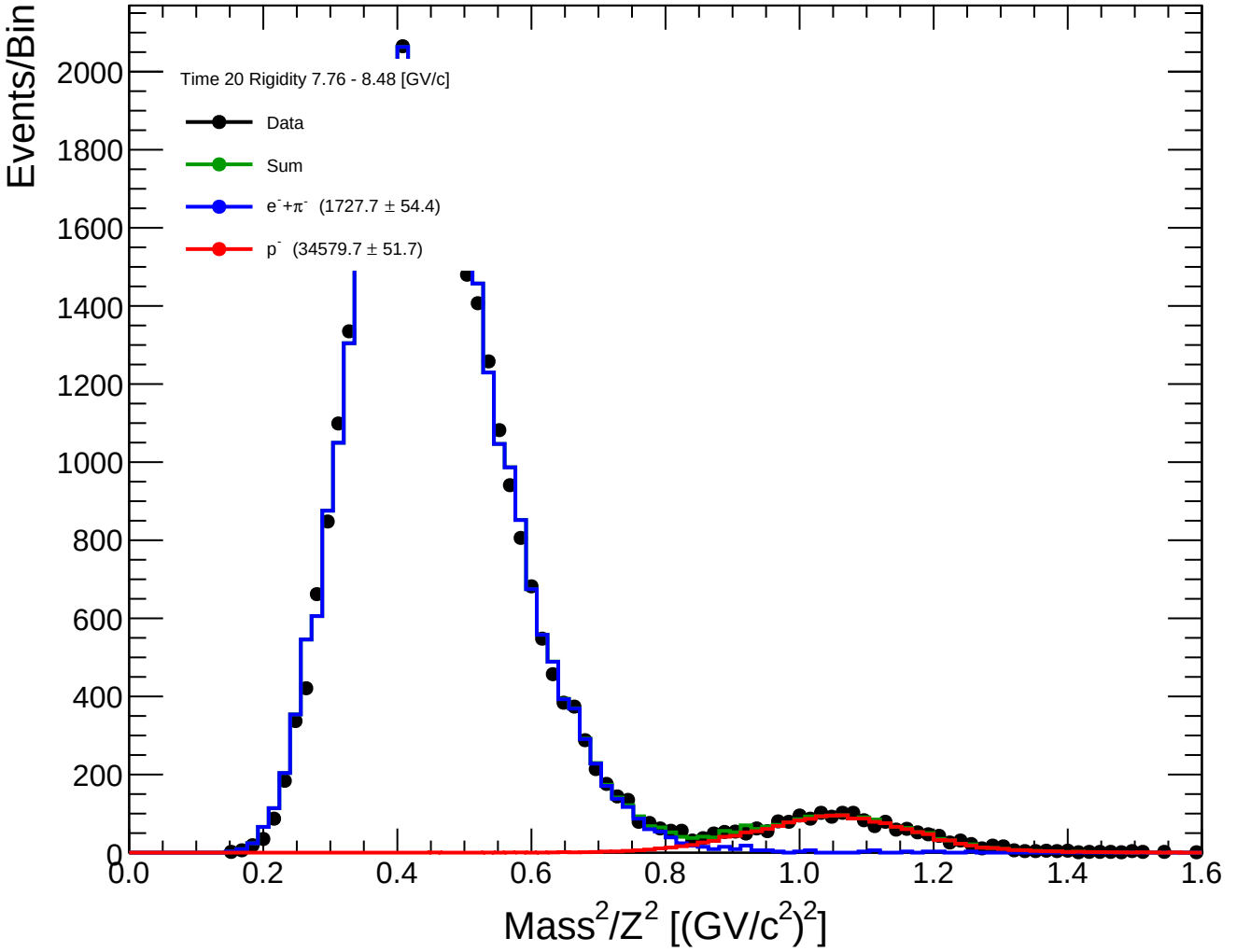

Time 19 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1633.5 ± 40.0)
p⁻ (16892.0 ± 38.5)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

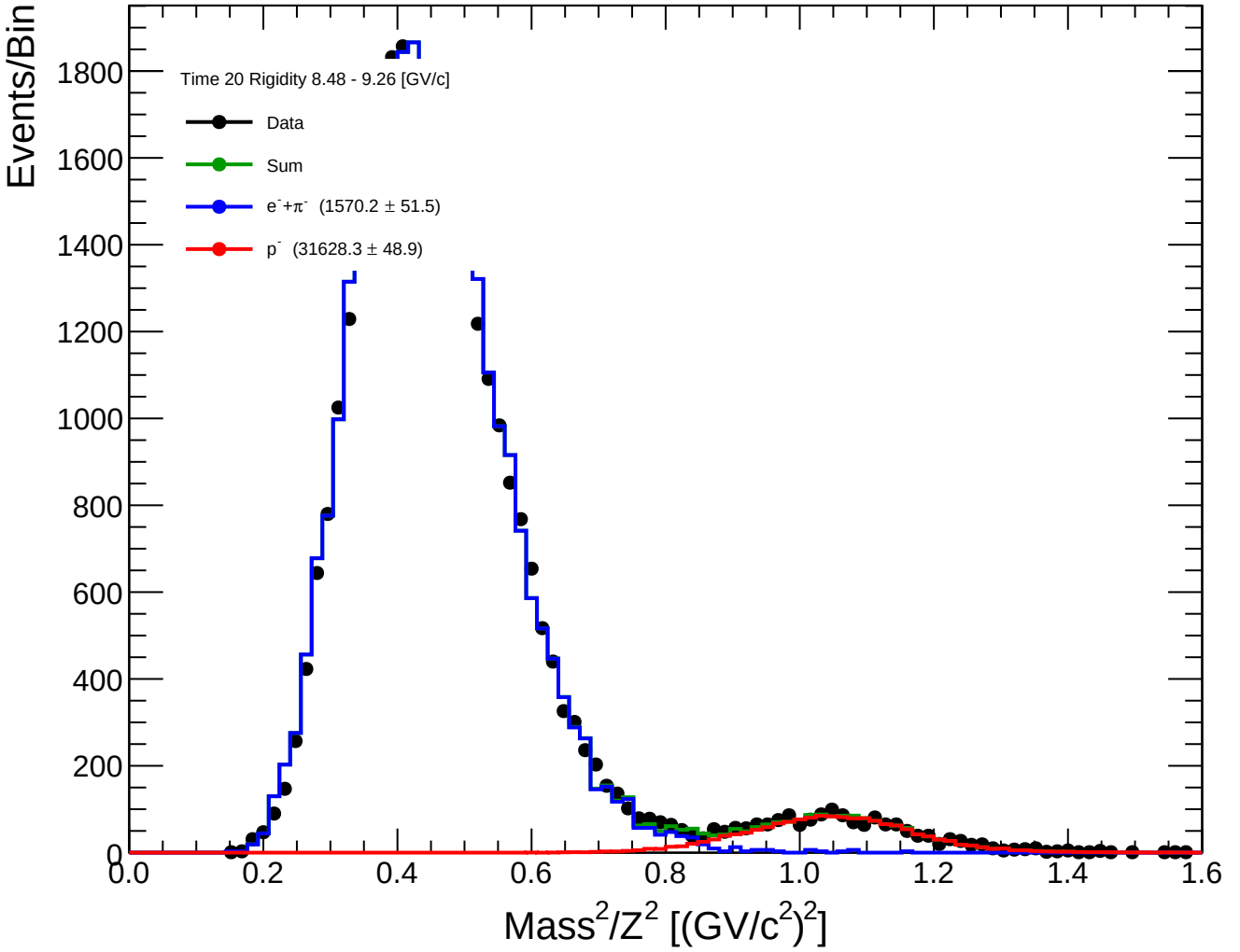

Time 19 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1303.0 ± 43.6)
p⁻ (11910.0 ± 41.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

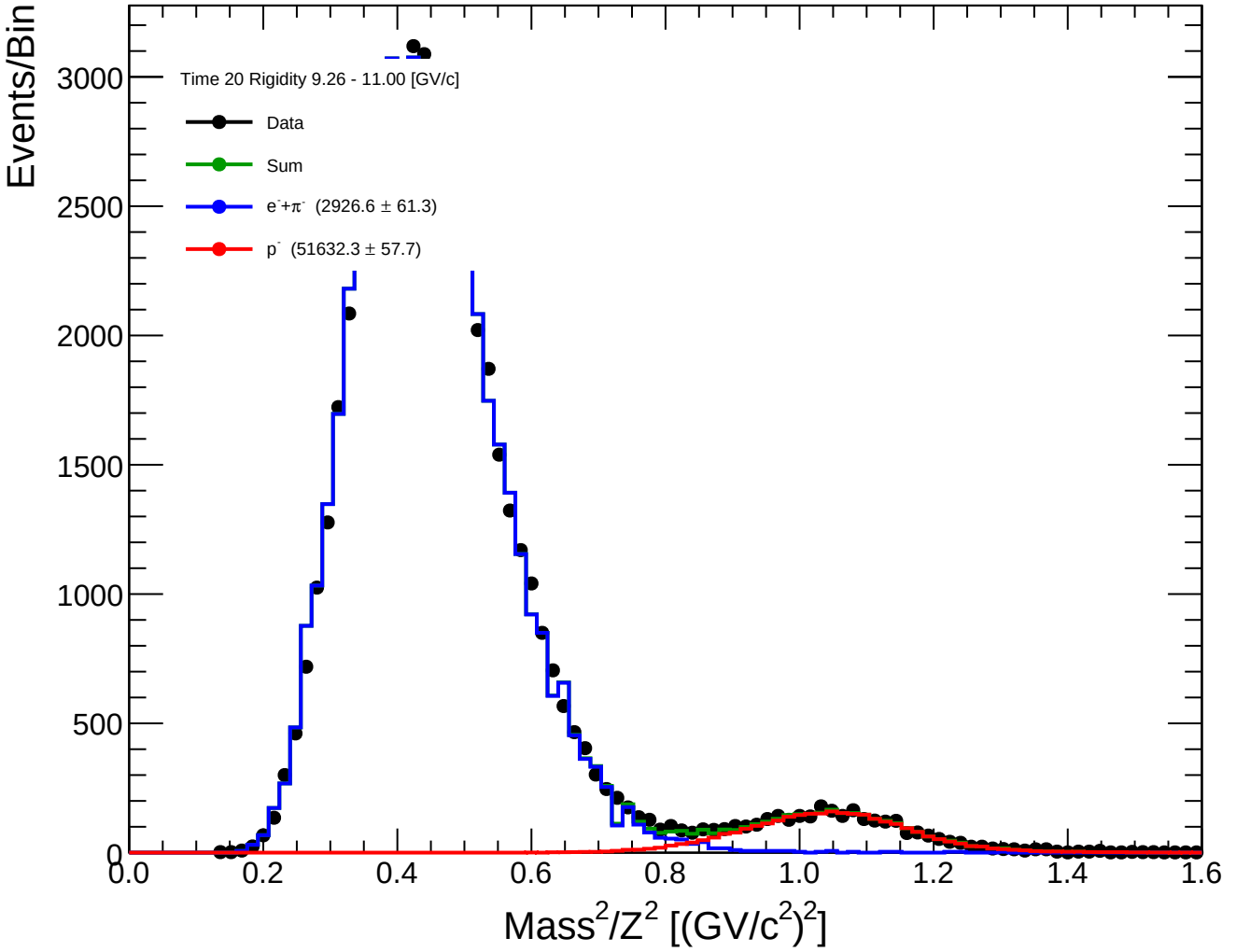

Time 19 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (892.2 ± 40.4)
p⁻ (7352.7 ± 38.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
400
450
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

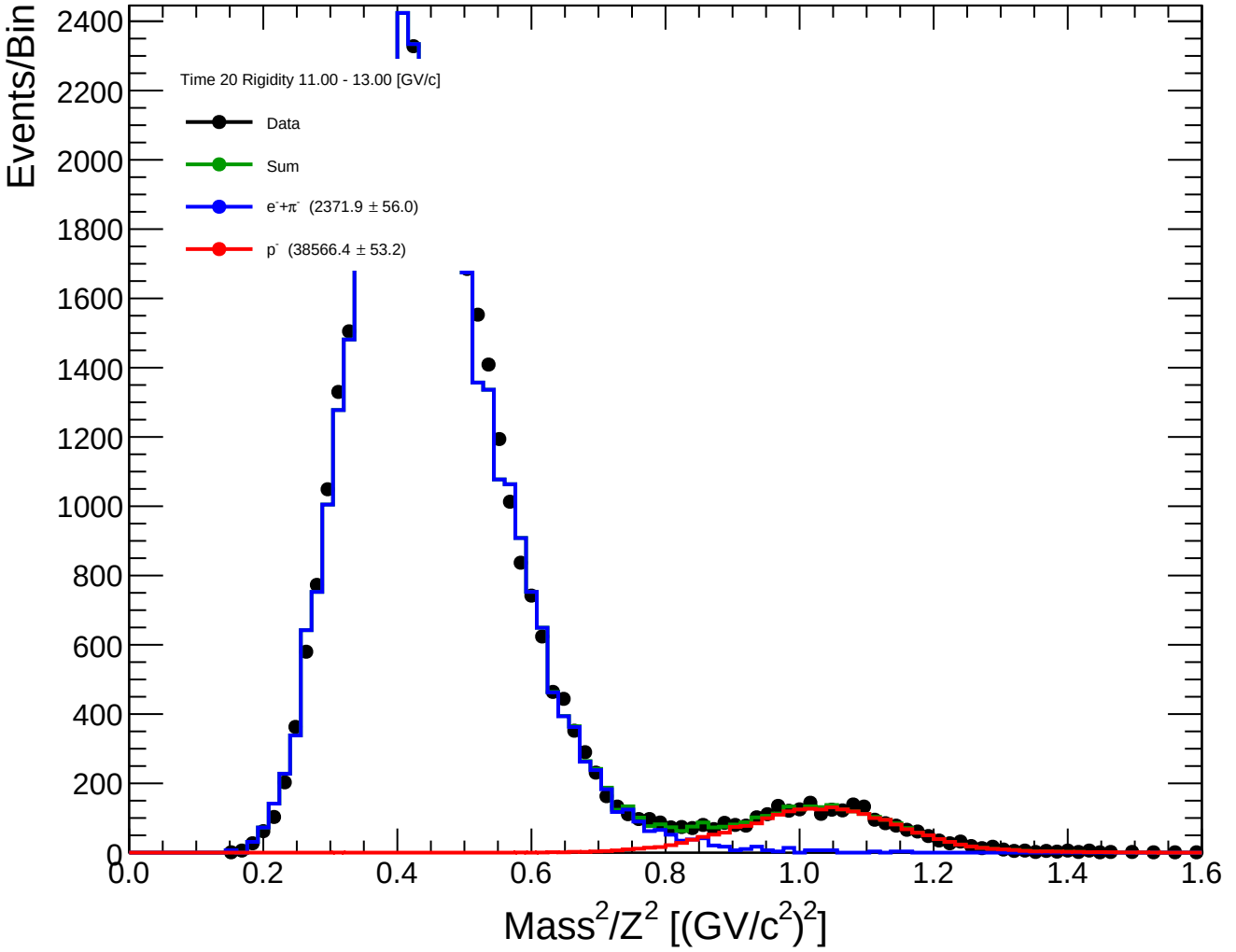

Events/Bin
Time 19 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (656.4 ± 35.4)
p⁻ (4829.2 ± 34.4)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

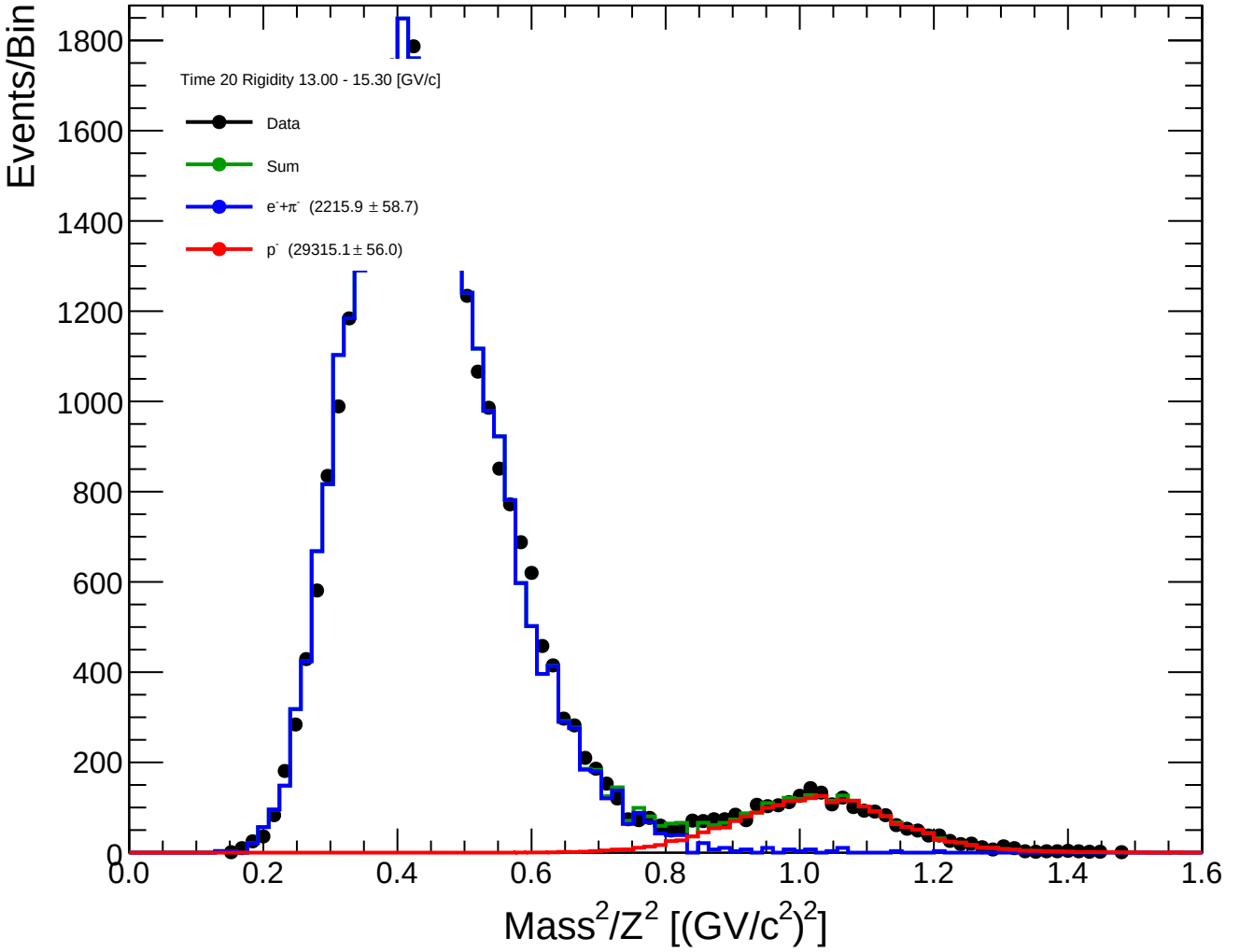

Events/Bin
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass^2/Z^2 [(GV/c^2)^2]
Time 20 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e$^-$+π$^-$ (1837.5 ± 66.7)
p$^-$ (35473.1± 63.0)

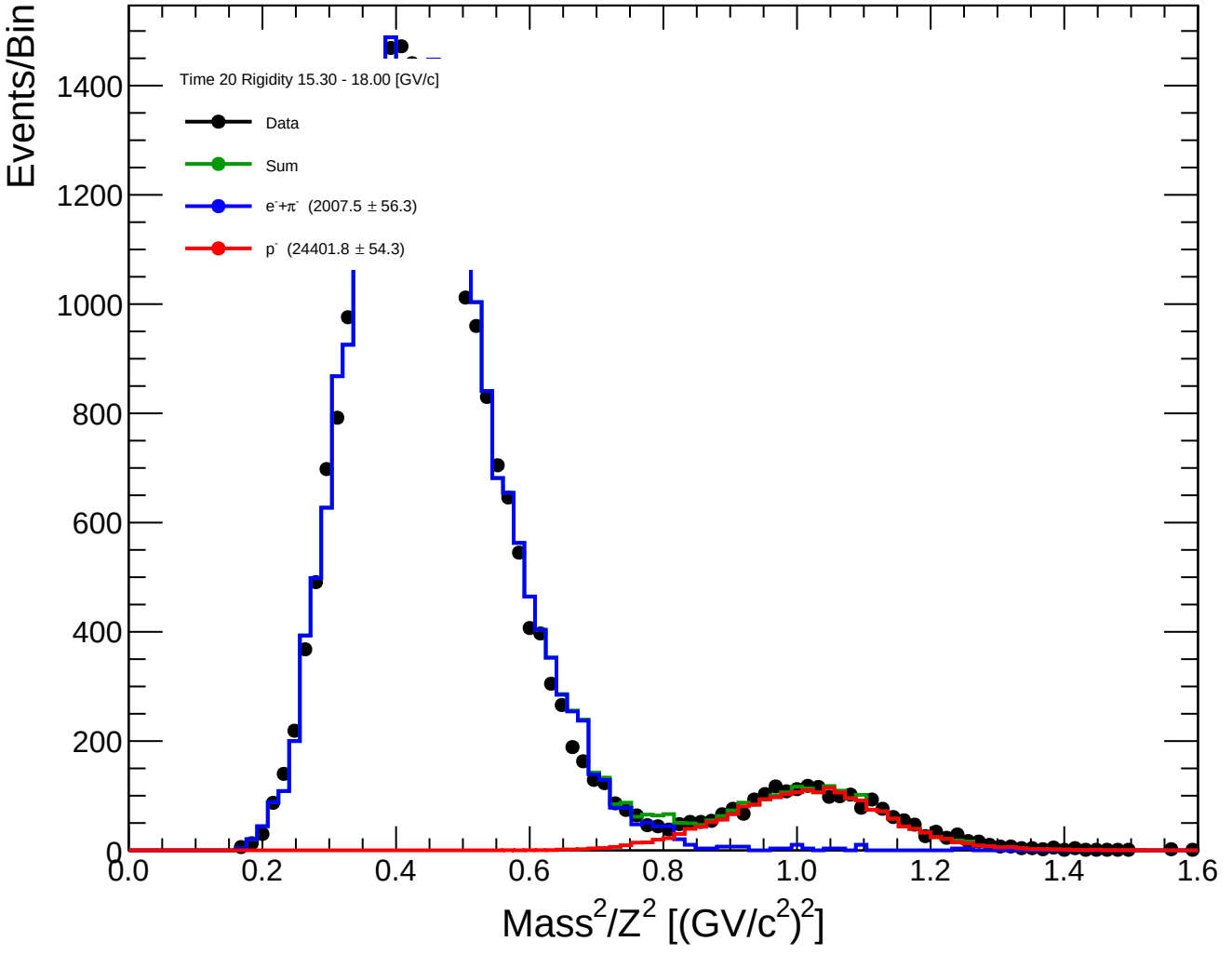

Events/Bin
Time 20 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1727.7 ± 54.4)
p⁻ (34579.7 ± 51.7)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

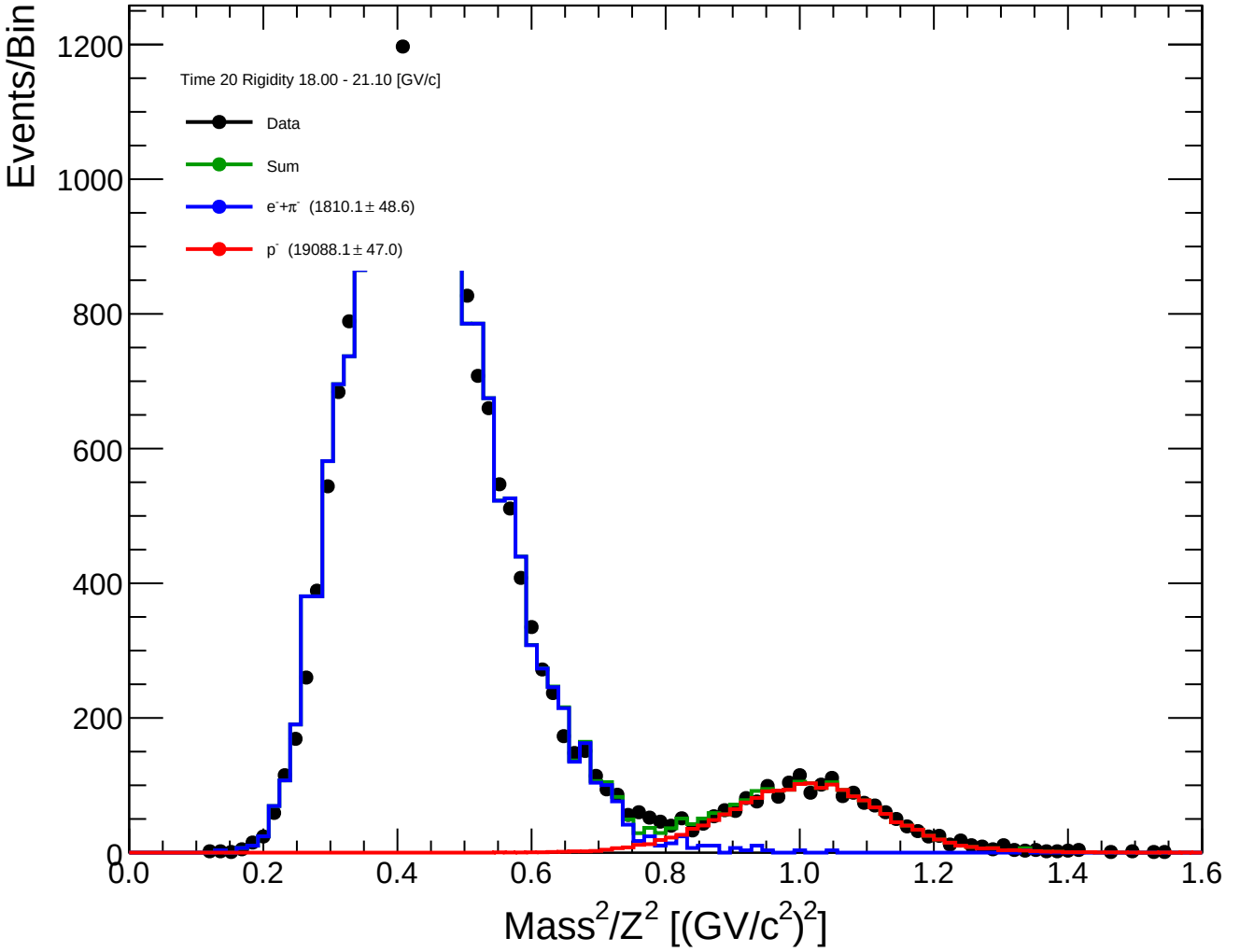

Time 20 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1570.2 ± 51.5)
p⁻ (31628.3 ± 48.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

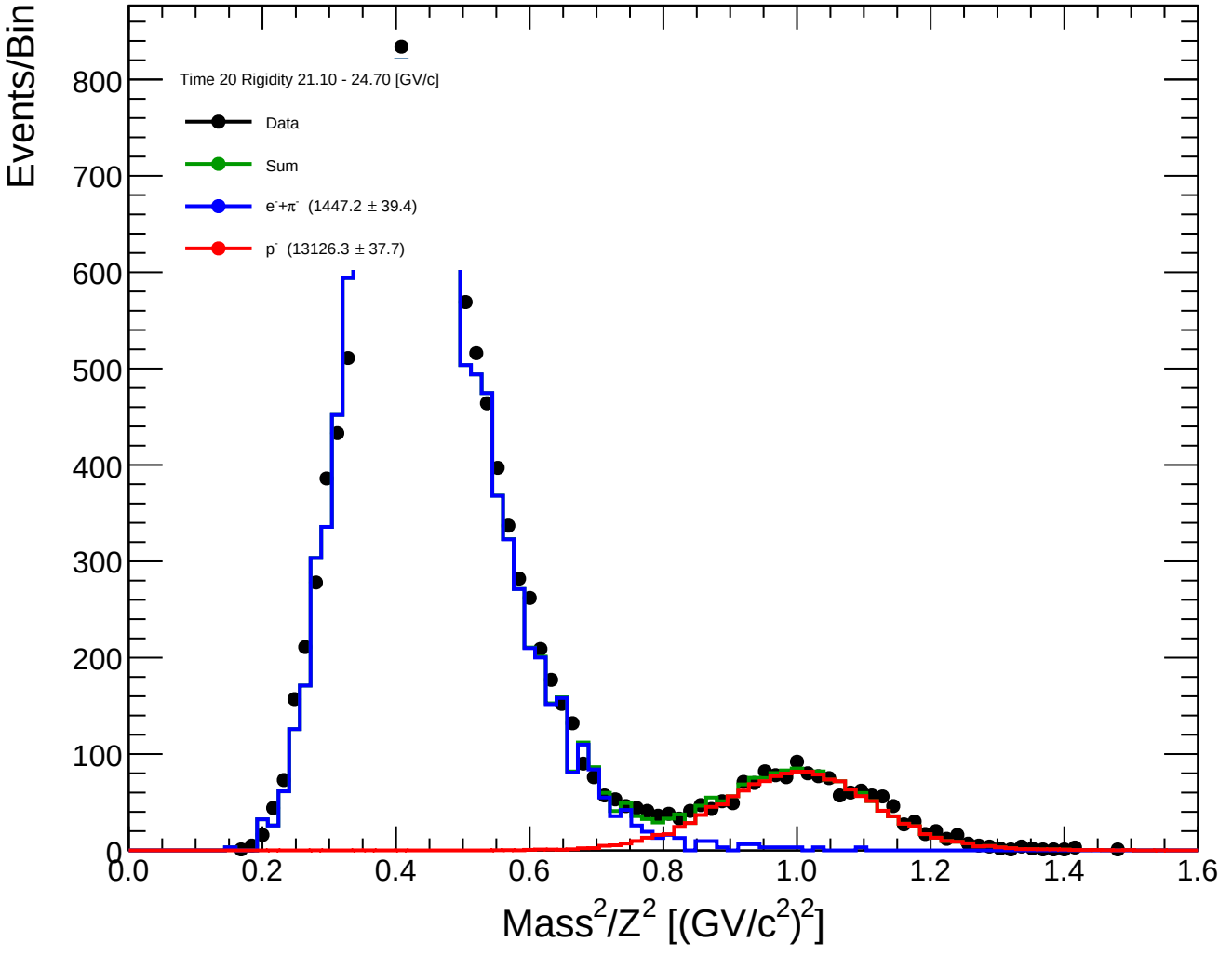

Time 20 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2926.6 ± 61.3)
p⁻ (51632.3 ± 57.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

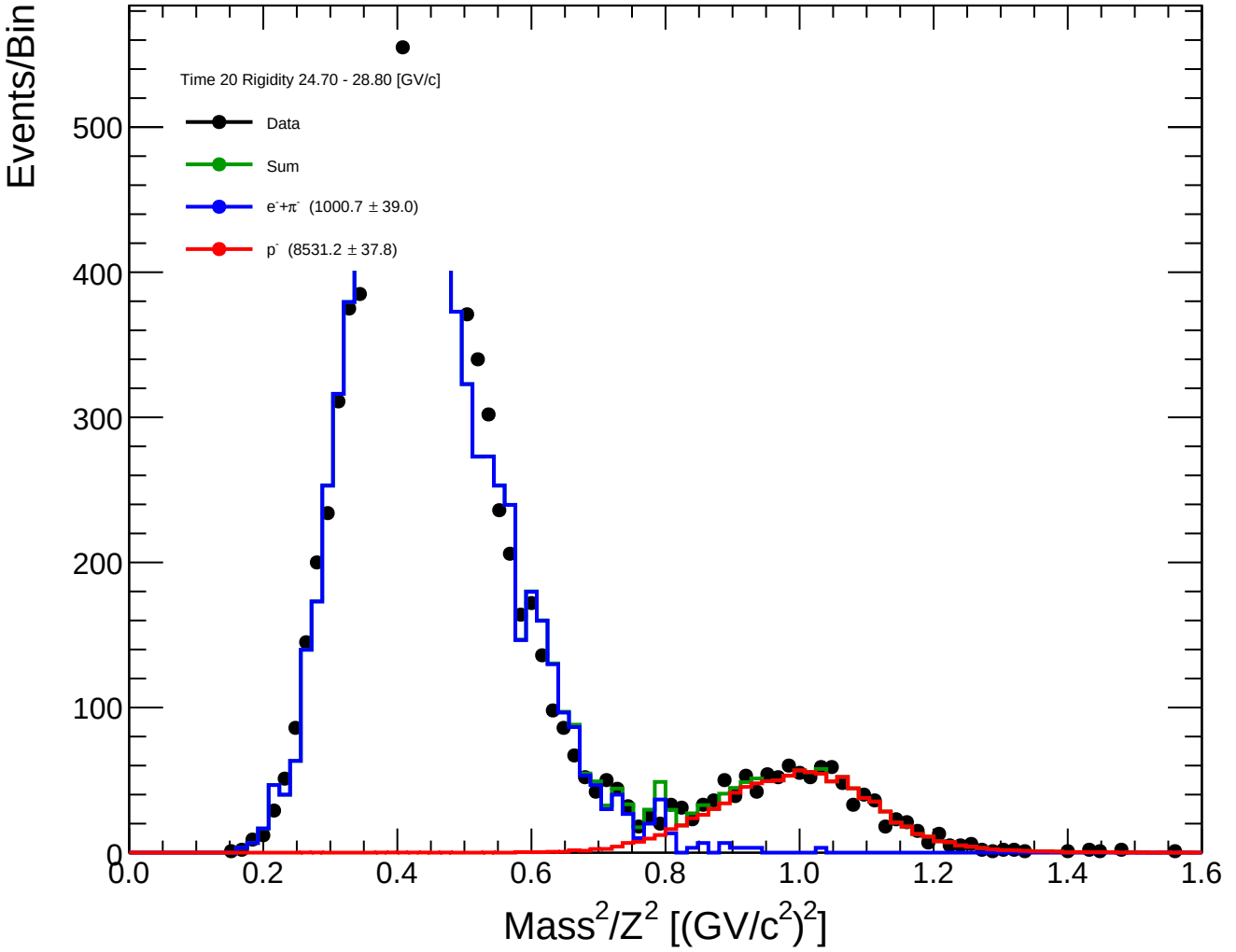

Time 20 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2371.9 ± 56.0)
p⁻ (38566.4 ± 53.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

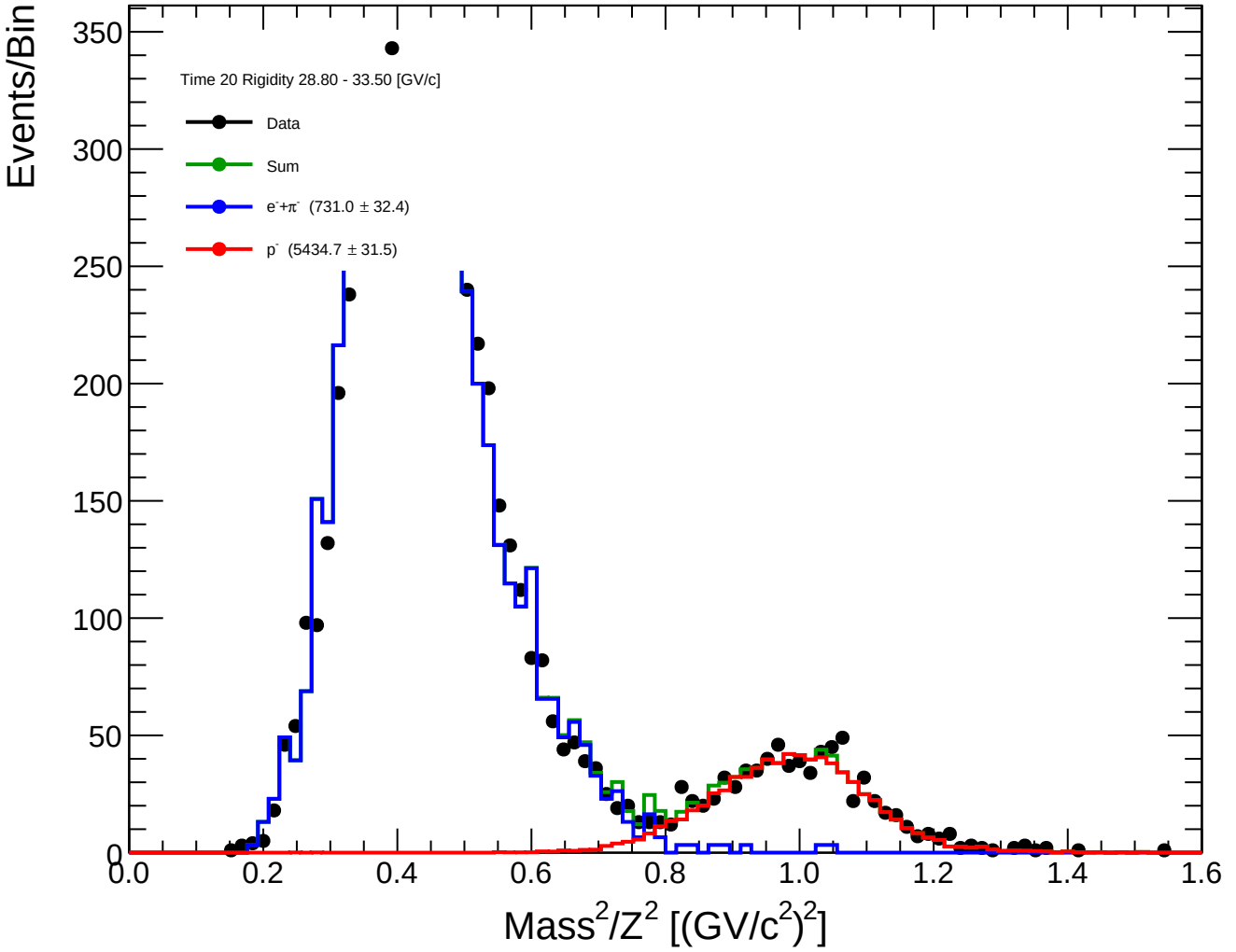

Time 20 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2215.9 ± 58.7)
p⁻ (29315.1 ± 56.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

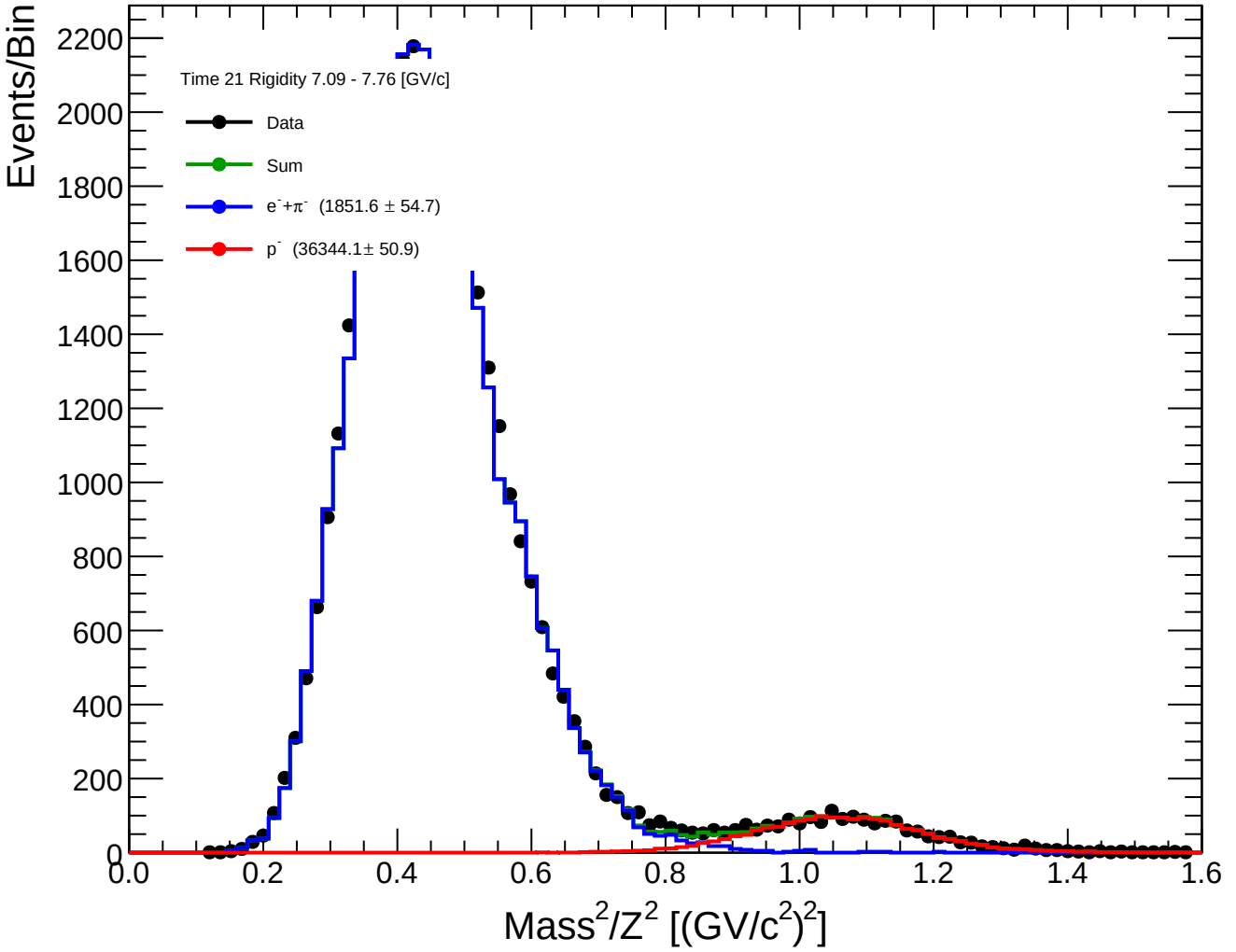

Time 20 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2007.5 ± 56.3)
p⁻ (24401.8 ± 54.3)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

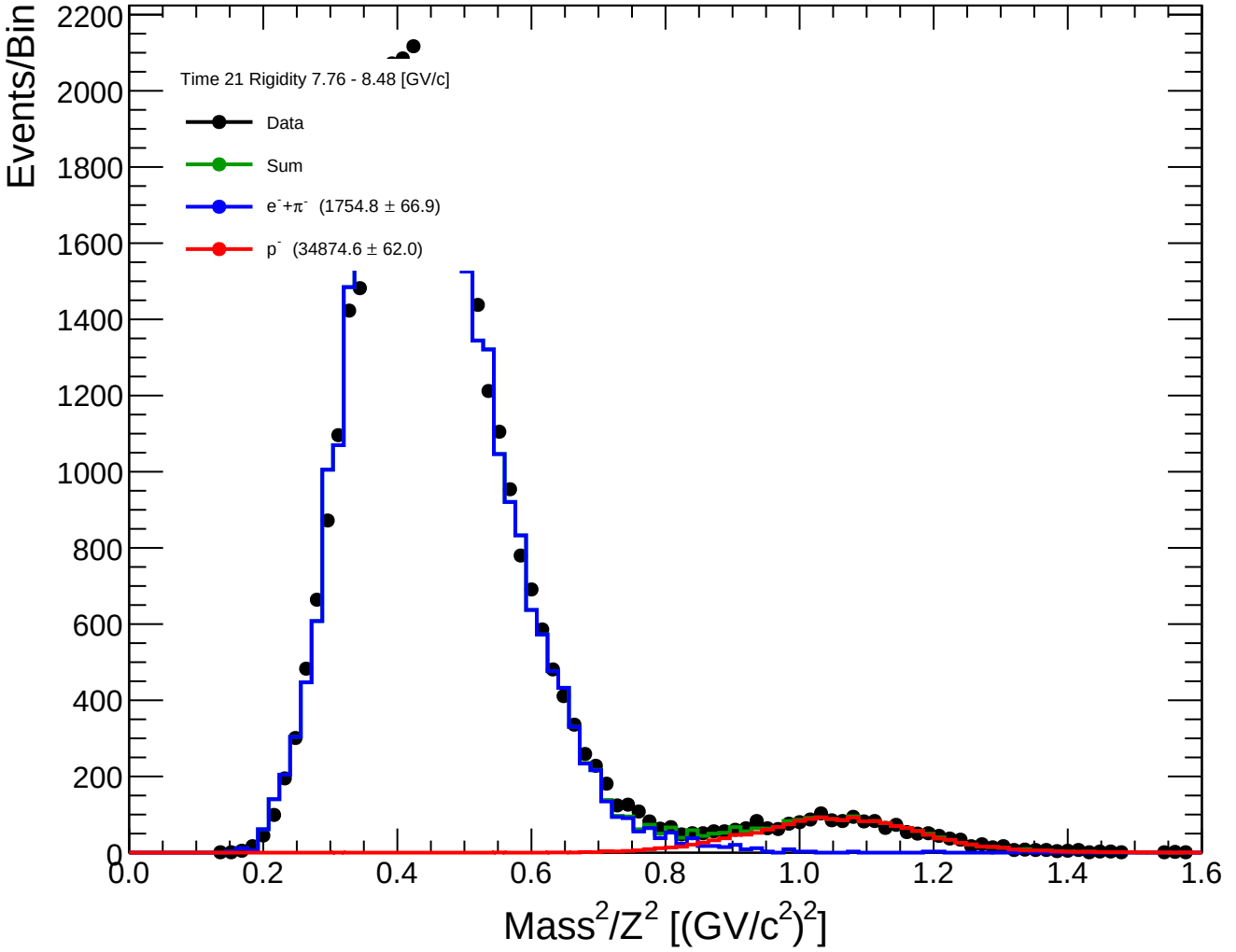

Time 20 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1810.1 ± 48.6)
p⁻ (19088.1 ± 47.0)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

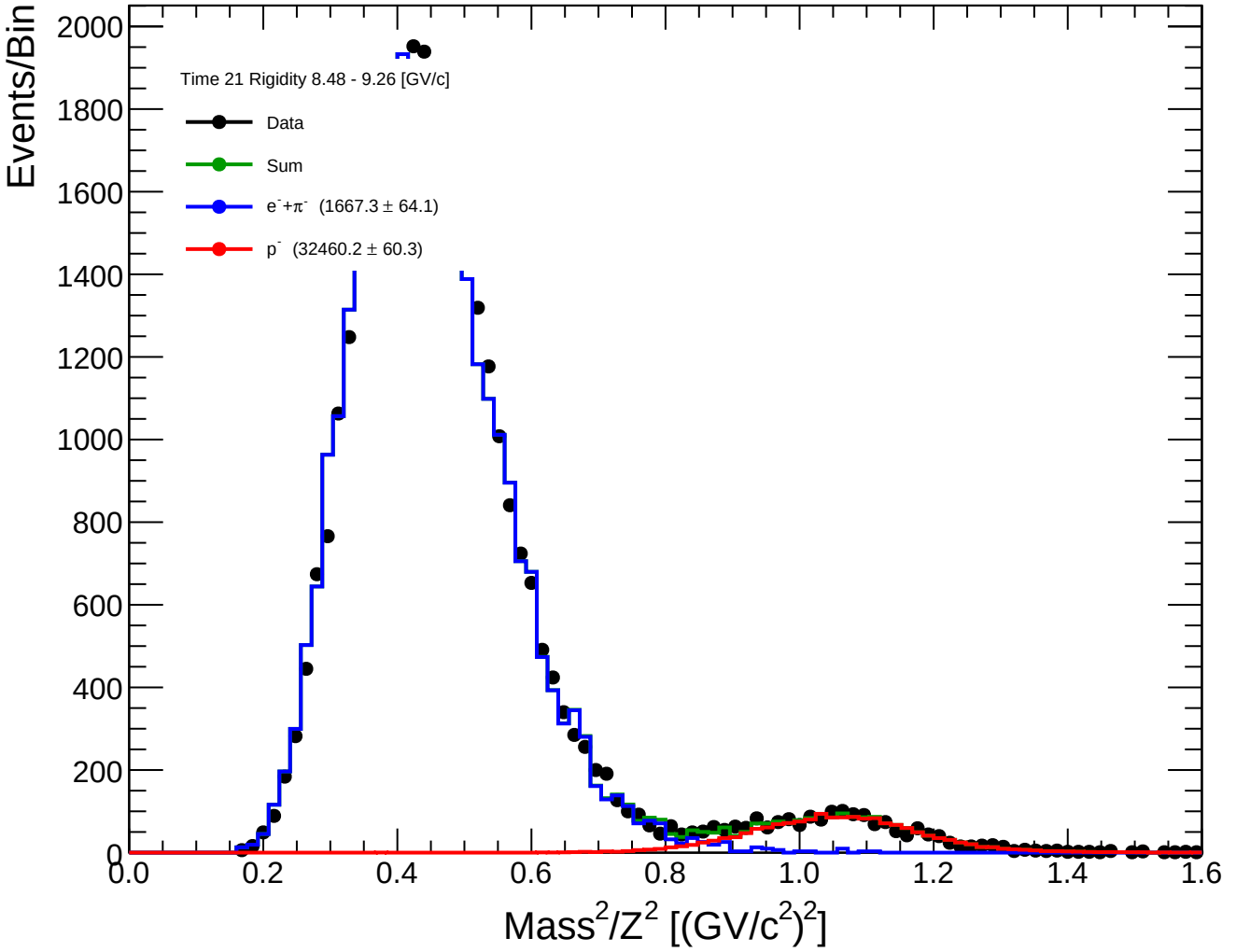

Time 20 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1447.2 ± 39.4)
p⁻ (13126.3 ± 37.7)
Events/Bin
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

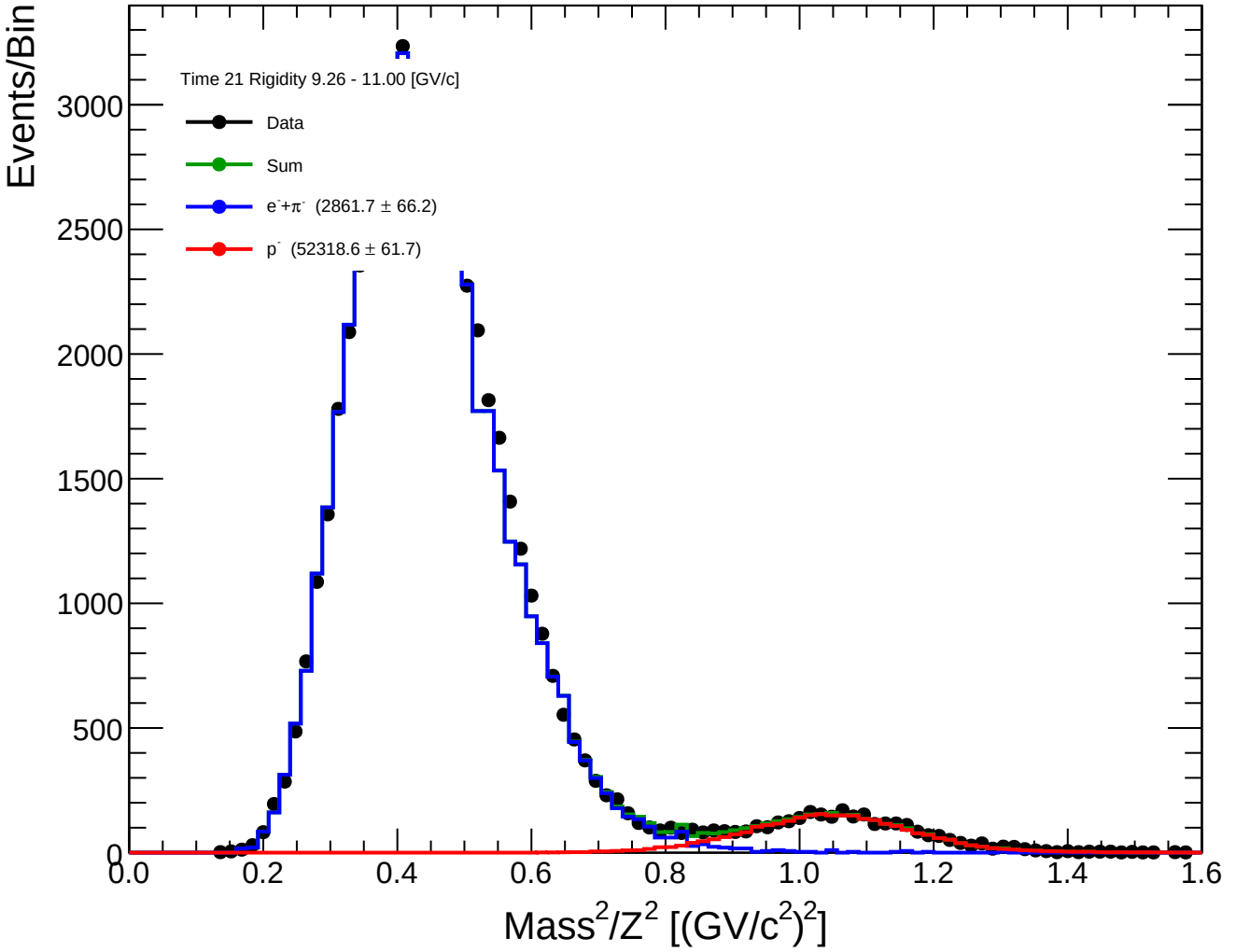

Time 20 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1000.7 ± 39.0)
p⁻ (8531.2 ± 37.8)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

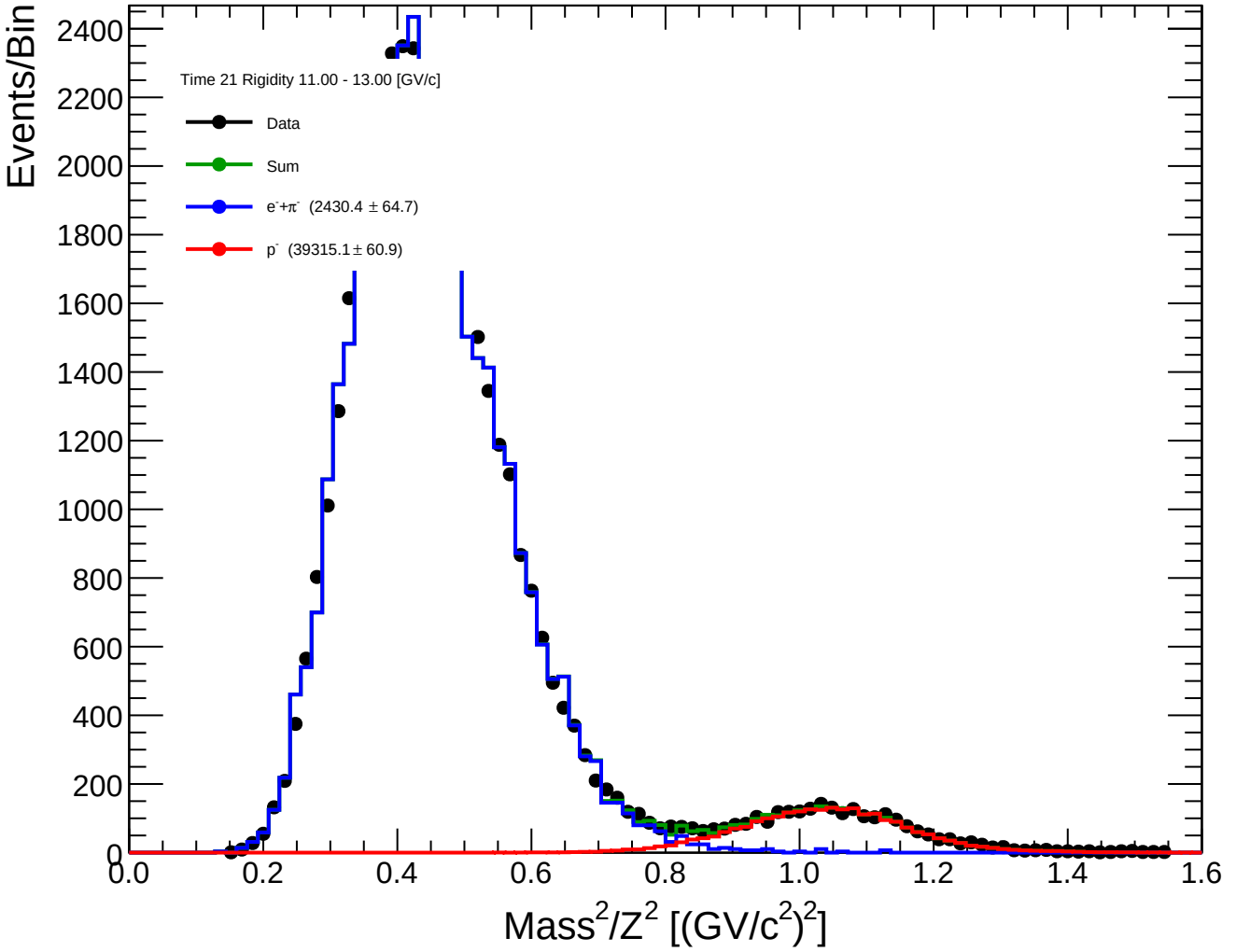

Time 20 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (731.0 ± 32.4)
p⁻ (5434.7 ± 31.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

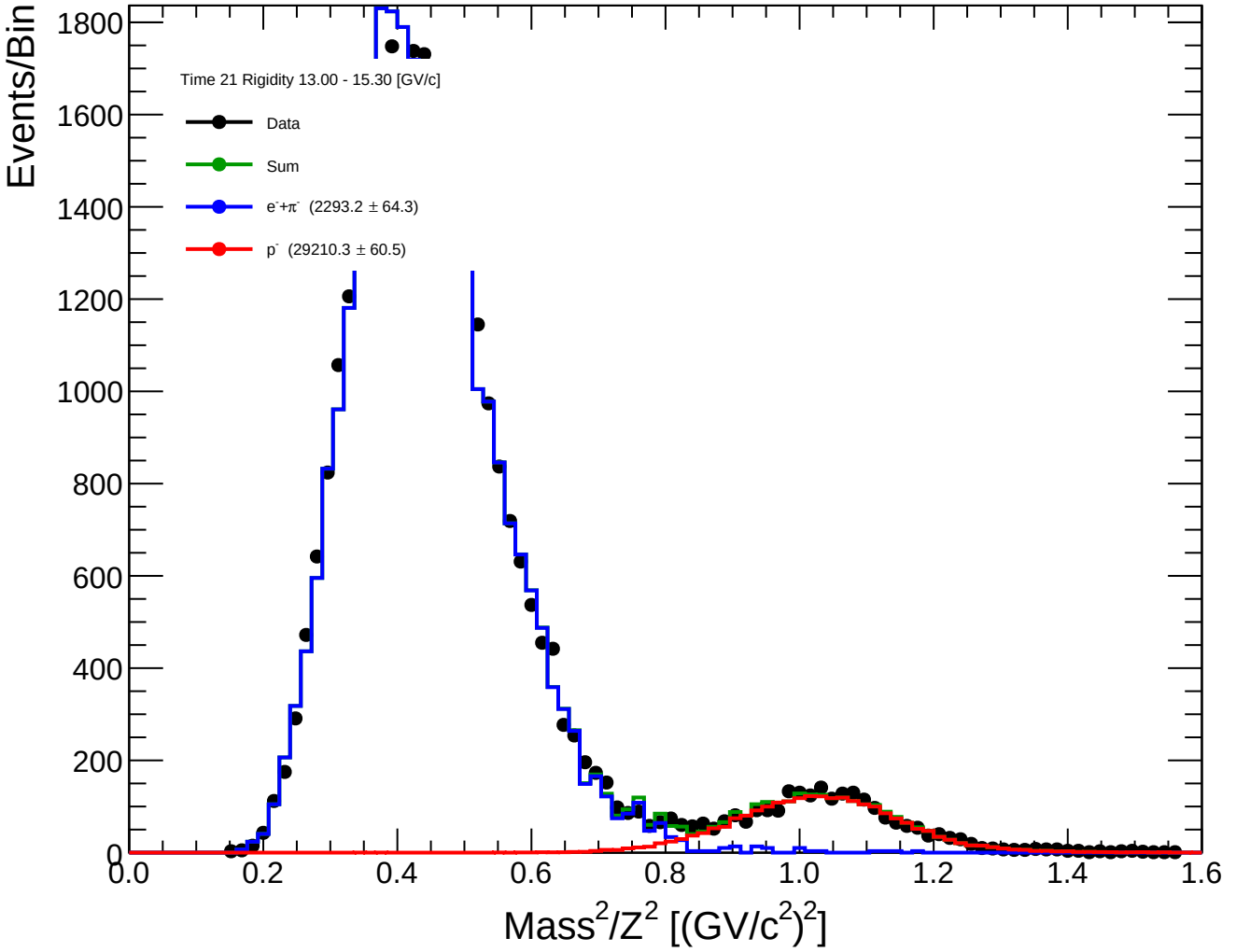

Time 21 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1851.6 ± 54.7)
p⁻ (36344.1± 50.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

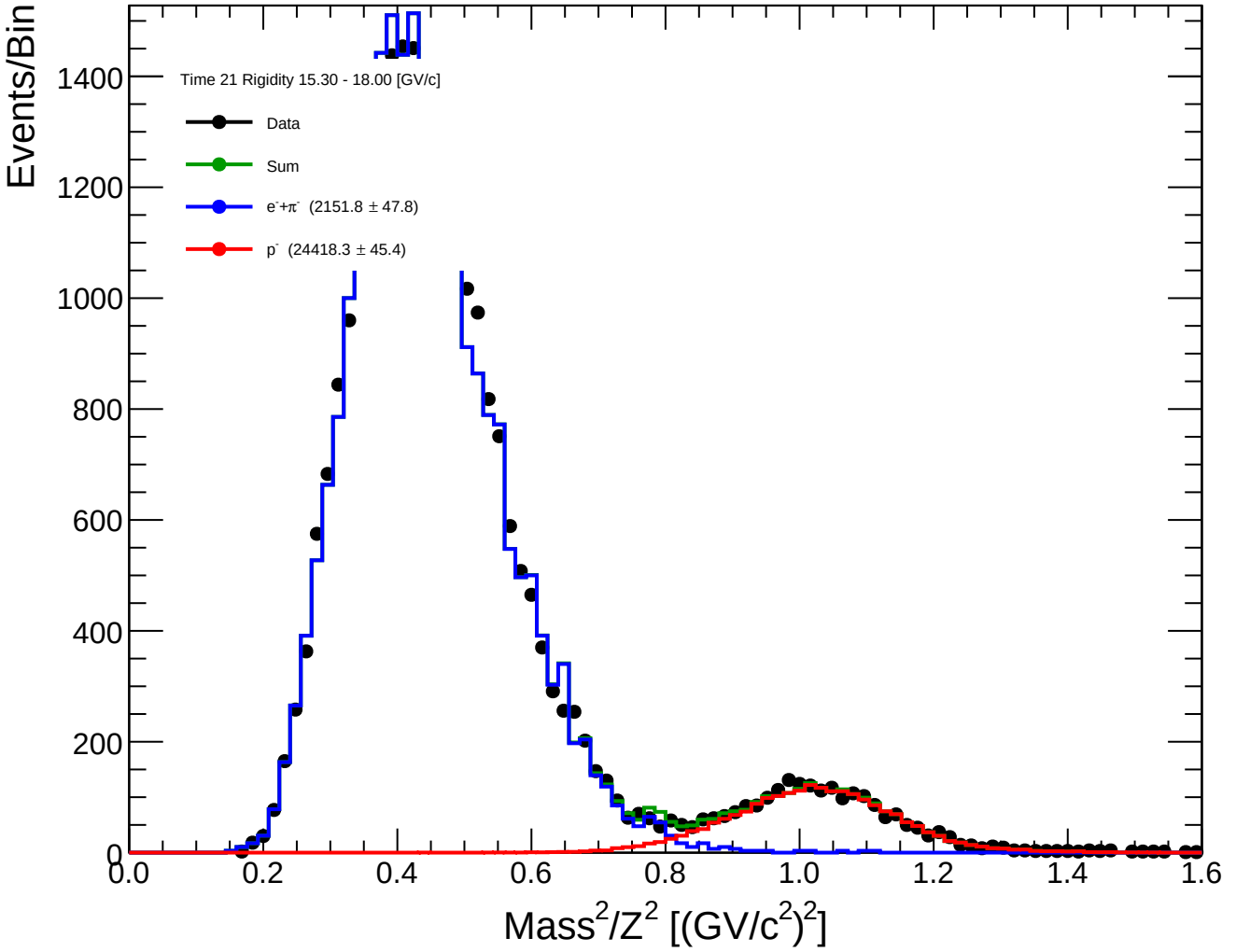

Time 21 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1754.8 ± 66.9)
p⁻ (34874.6 ± 62.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

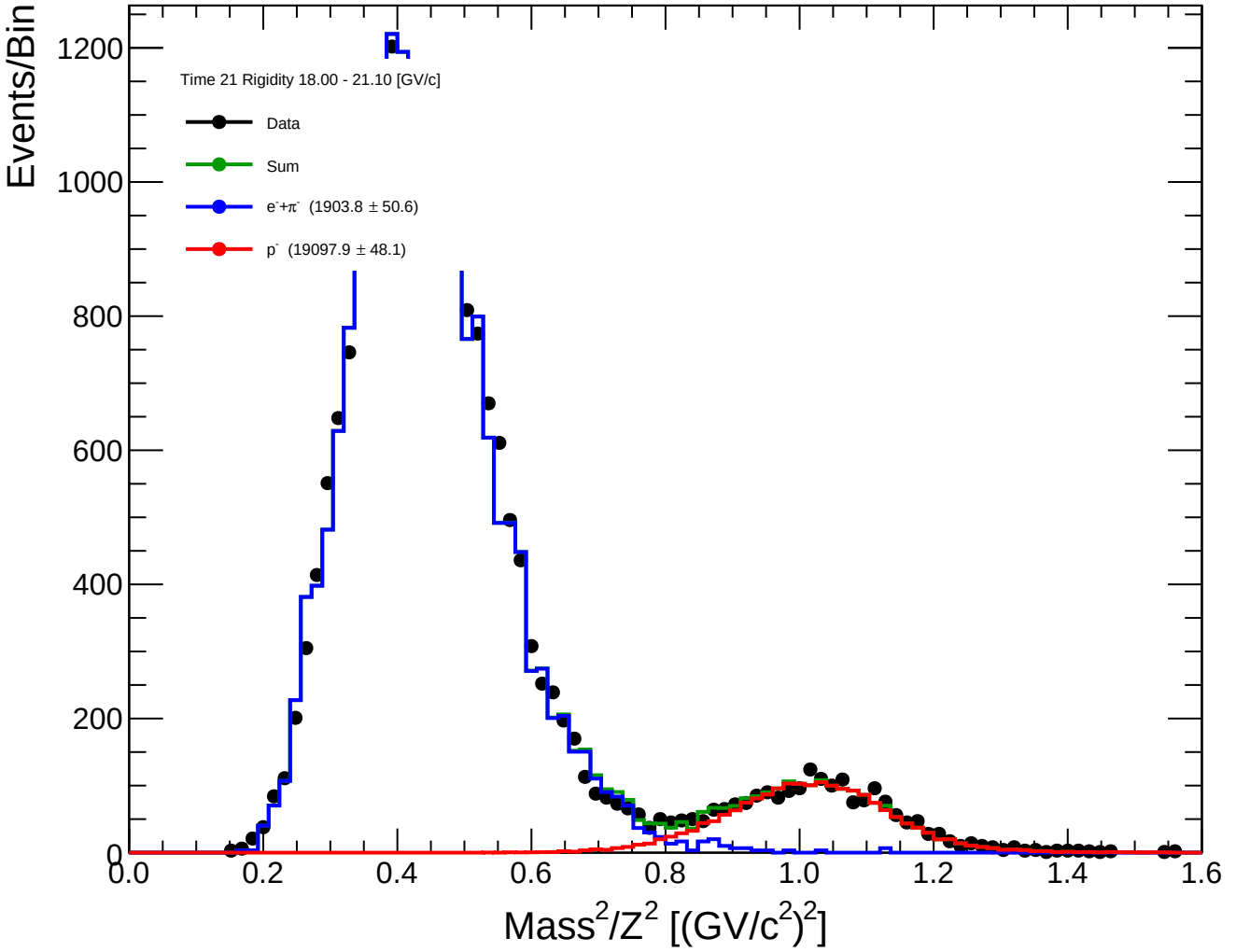

Time 21 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1667.3 ± 64.1)
p⁻ (32460.2 ± 60.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

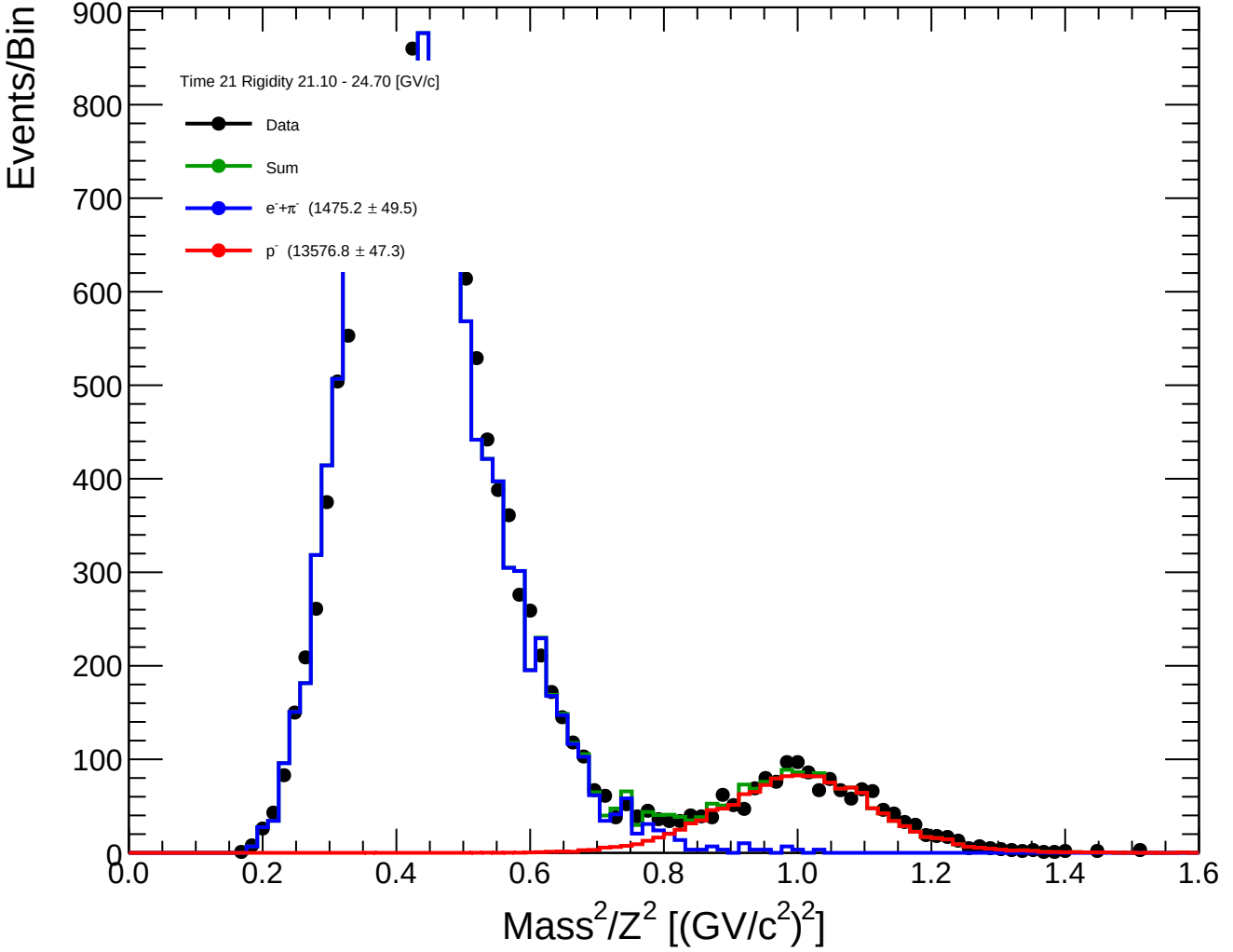

Time 21 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2861.7 ± 66.2)
p⁻ (52318.6 ± 61.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

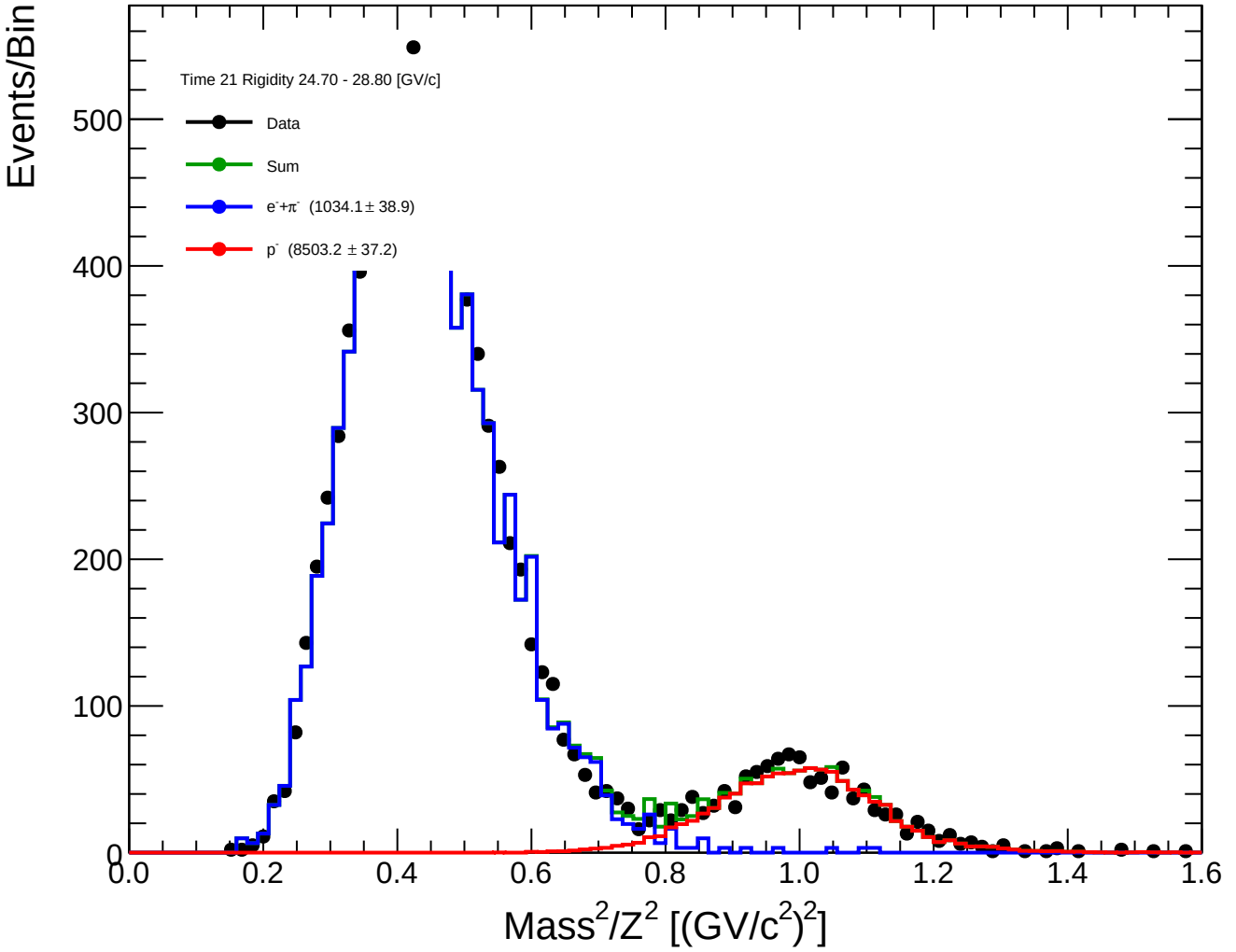

Time 21 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2430.4 ± 64.7)
p⁻ (39315.1 ± 60.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

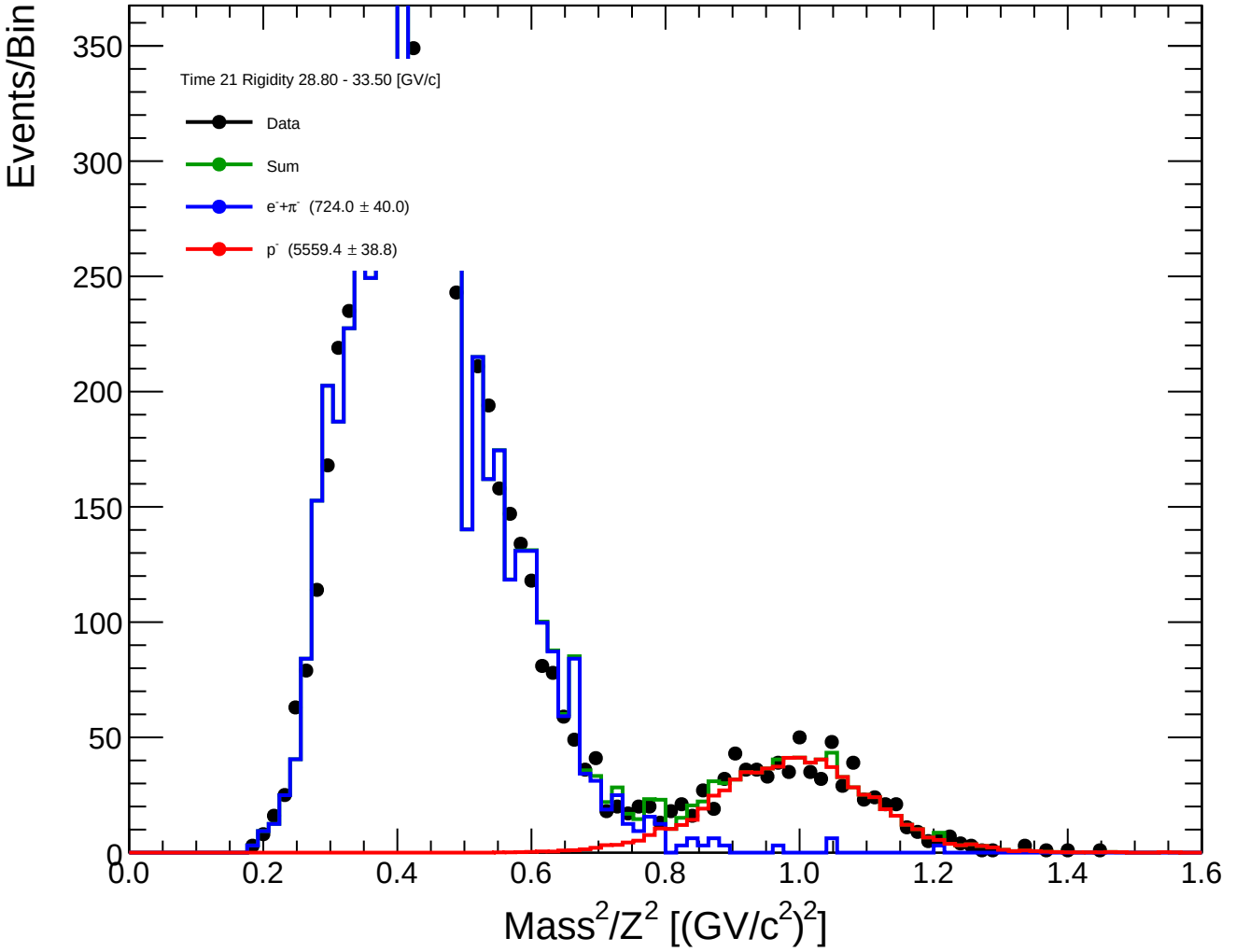

Time 21 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2293.2 ± 64.3)
p⁻ (29210.3 ± 60.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

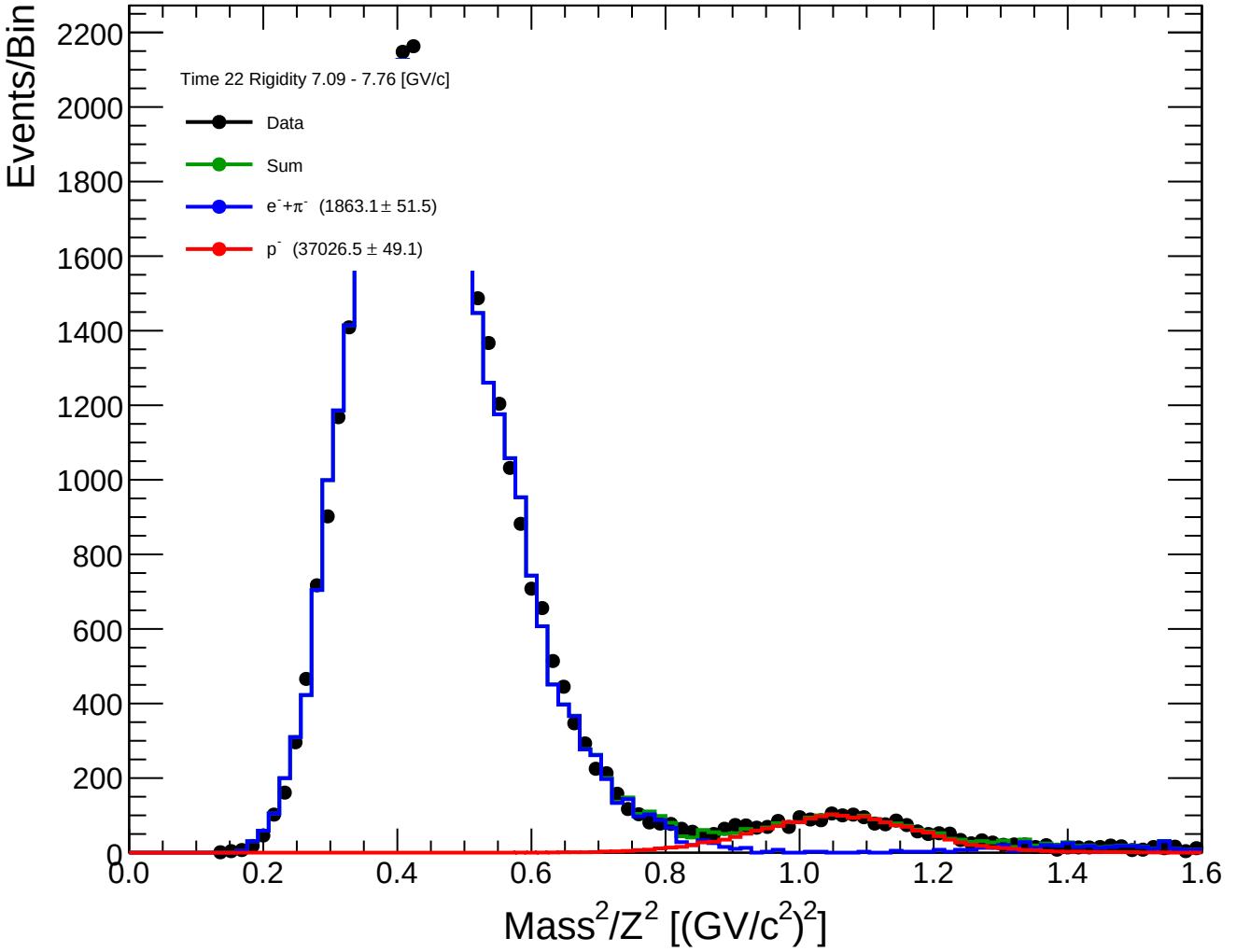

Time 21 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2151.8 ± 47.8)
p⁻ (24418.3 ± 45.4)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

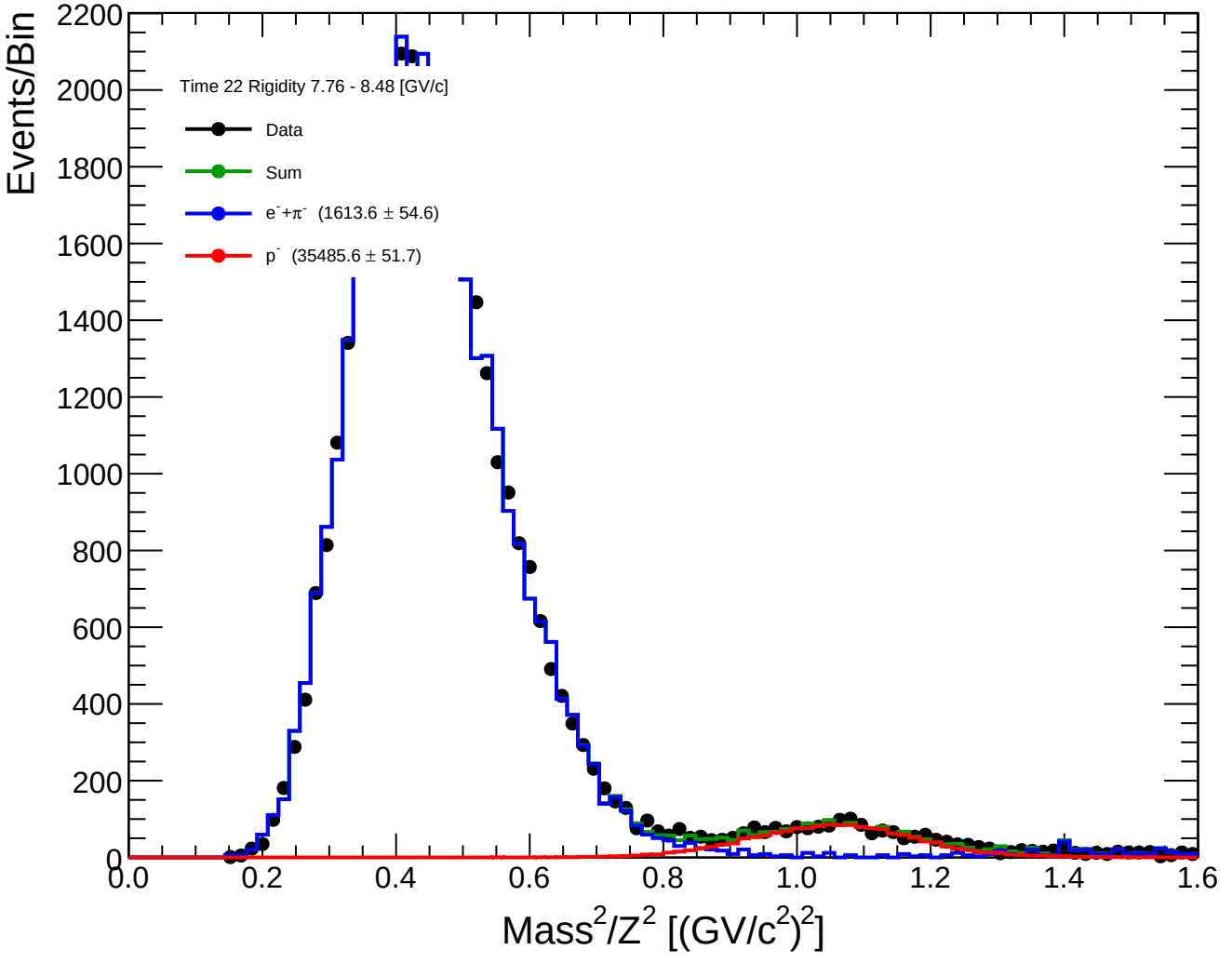

Time 21 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1903.8 ± 50.6)
p⁻ (19097.9 ± 48.1)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

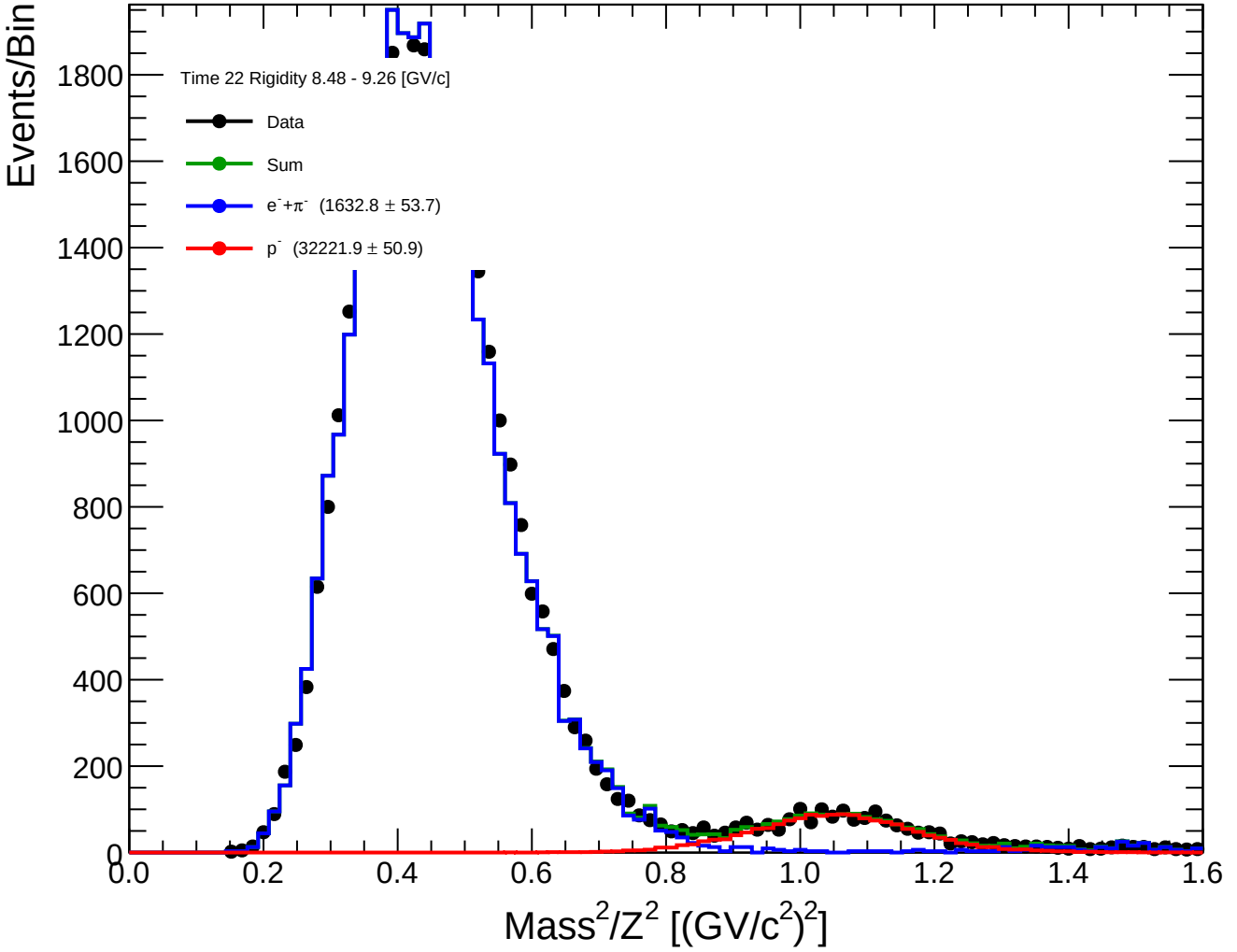

Time 21 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1475.2 ± 49.5)
p⁻ (13576.8 ± 47.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
900
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

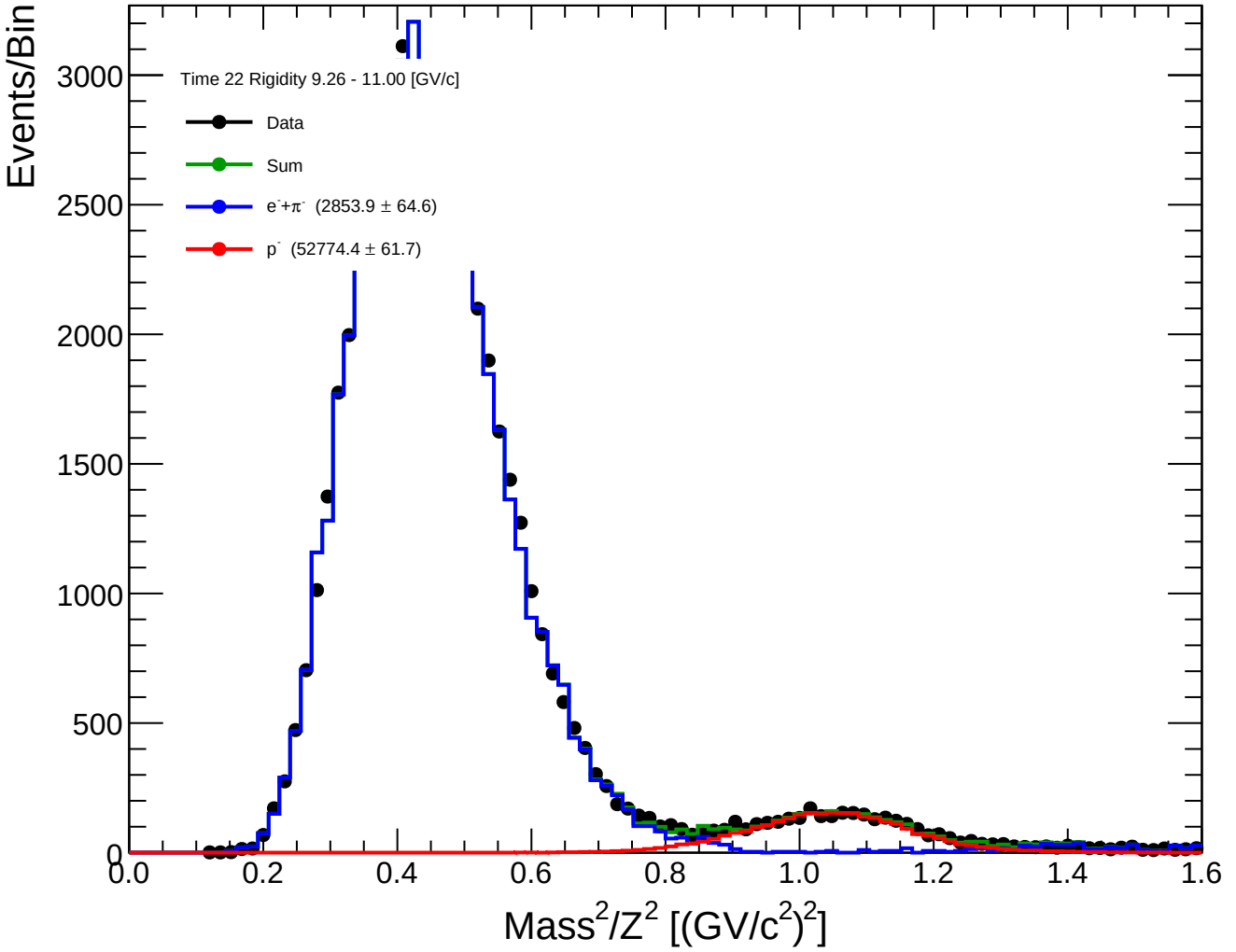

Time 21 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1034.1 ± 38.9)
p⁻ (8503.2 ± 37.2)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

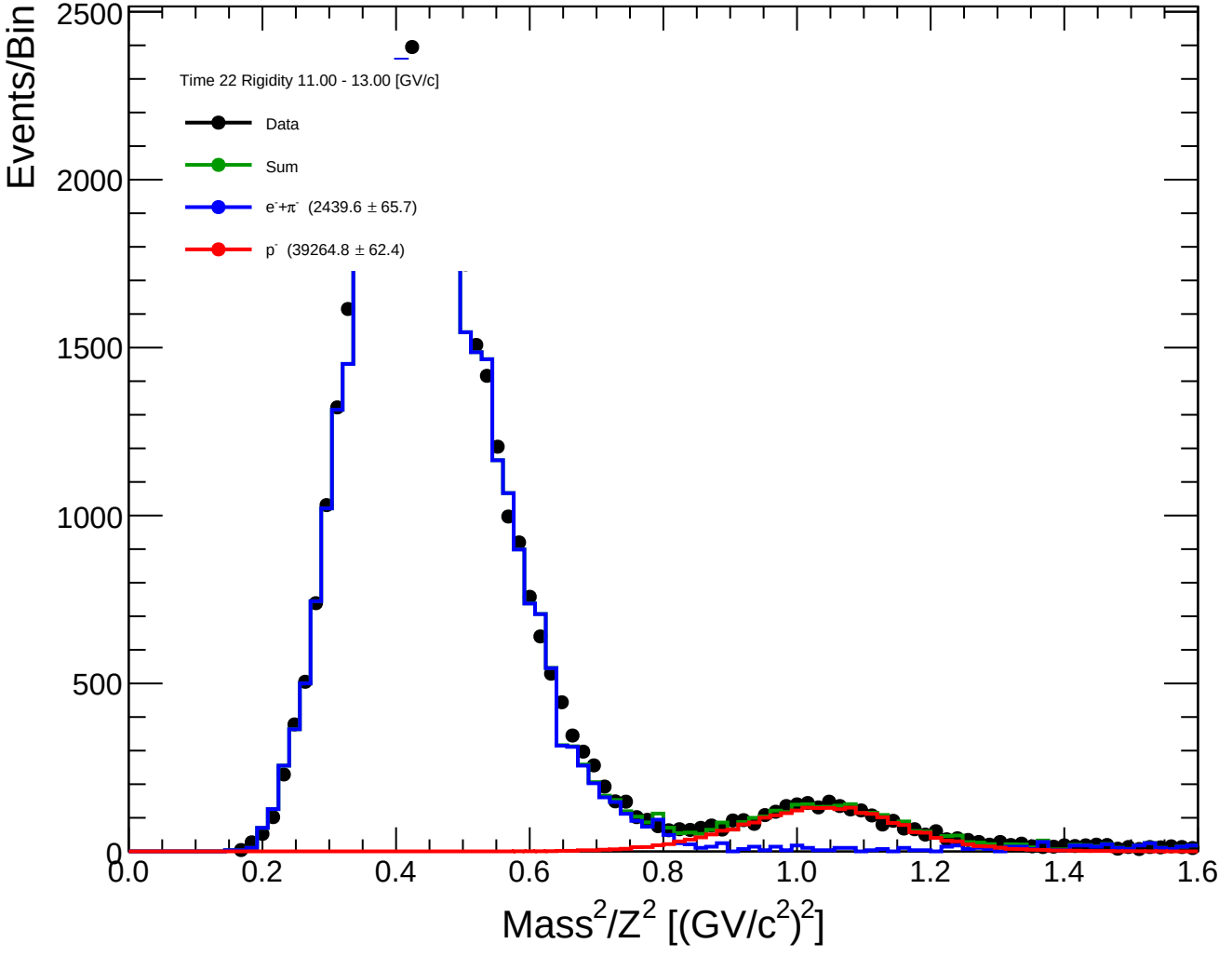

Time 21 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (724.0 ± 40.0)
p⁻ (5559.4 ± 38.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

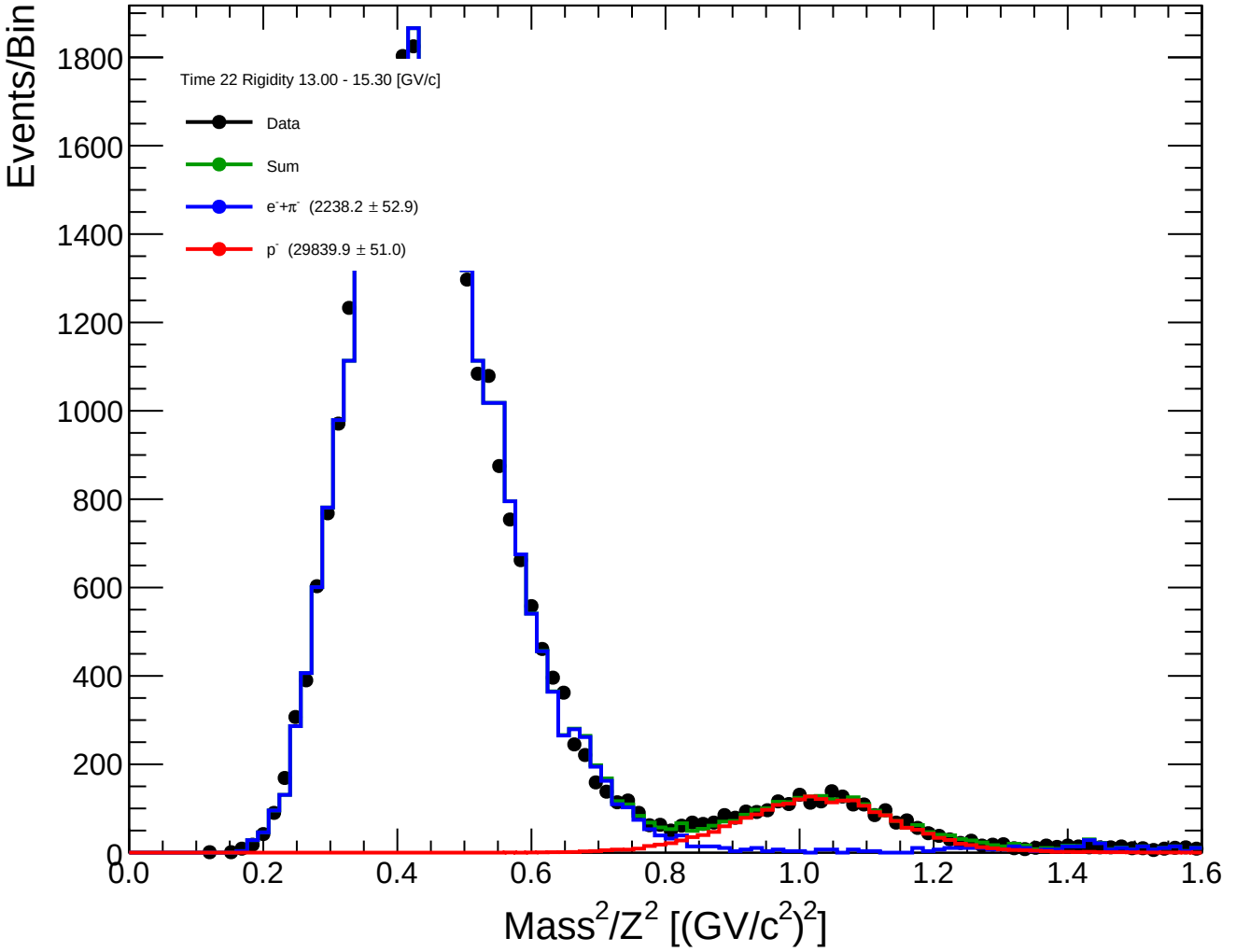

Time 22 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1863.1± 51.5)
p⁻ (37026.5 ± 49.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

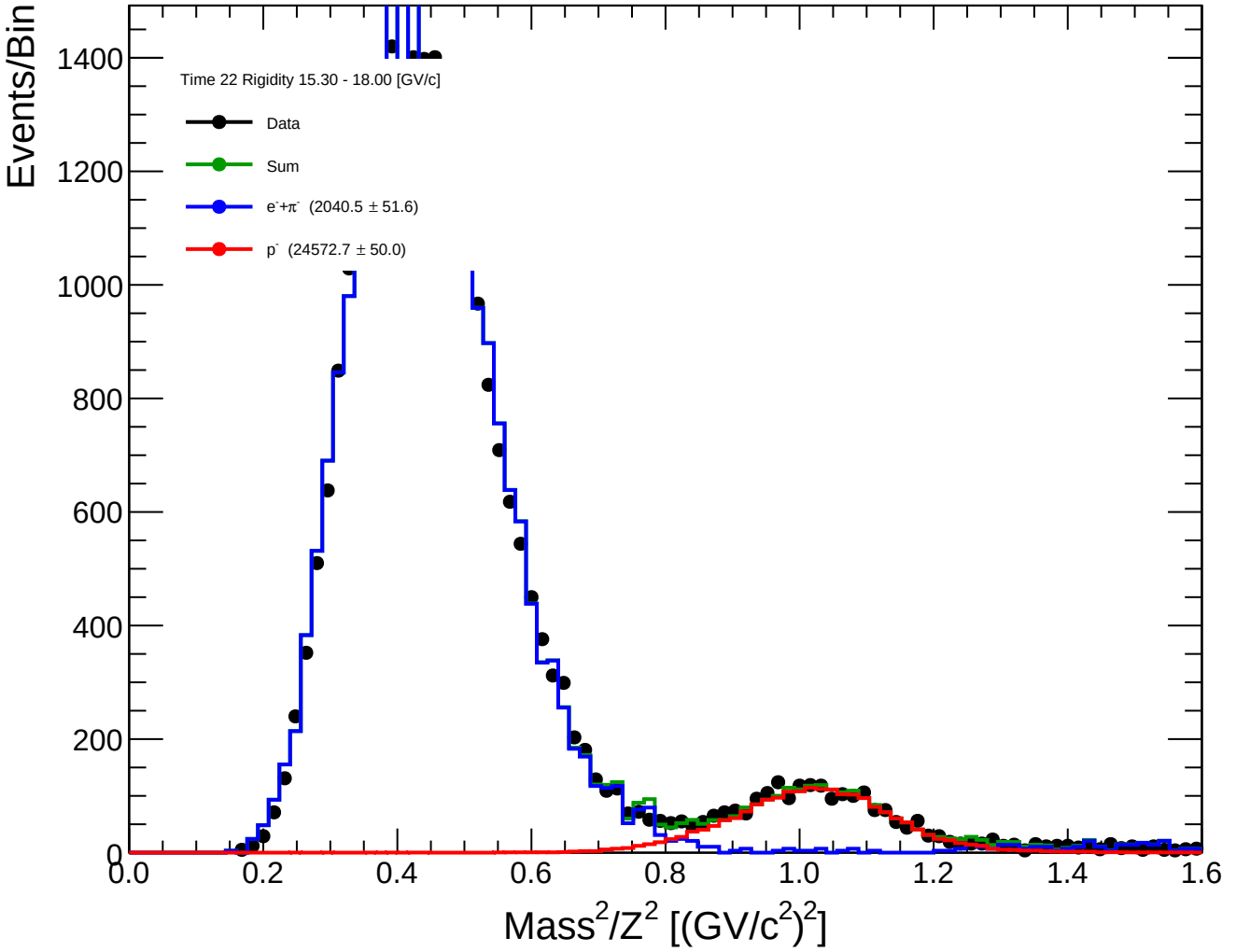

Time 22 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1613.6 ± 54.6)
p⁻ (35485.6 ± 51.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

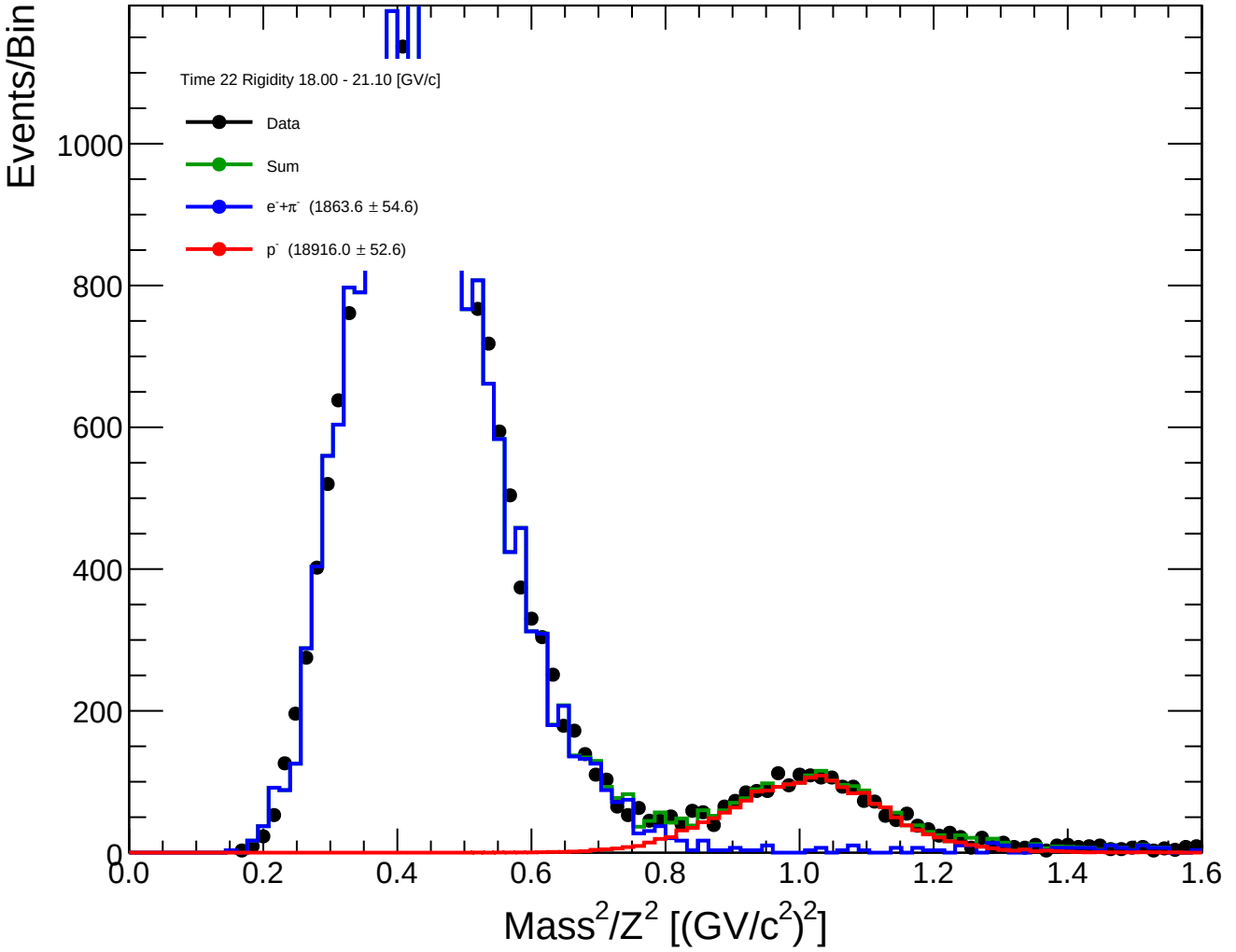

Events/Bin
Time 22 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1632.8 ± 53.7)
p⁻ (32221.9 ± 50.9)
1800
1600
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

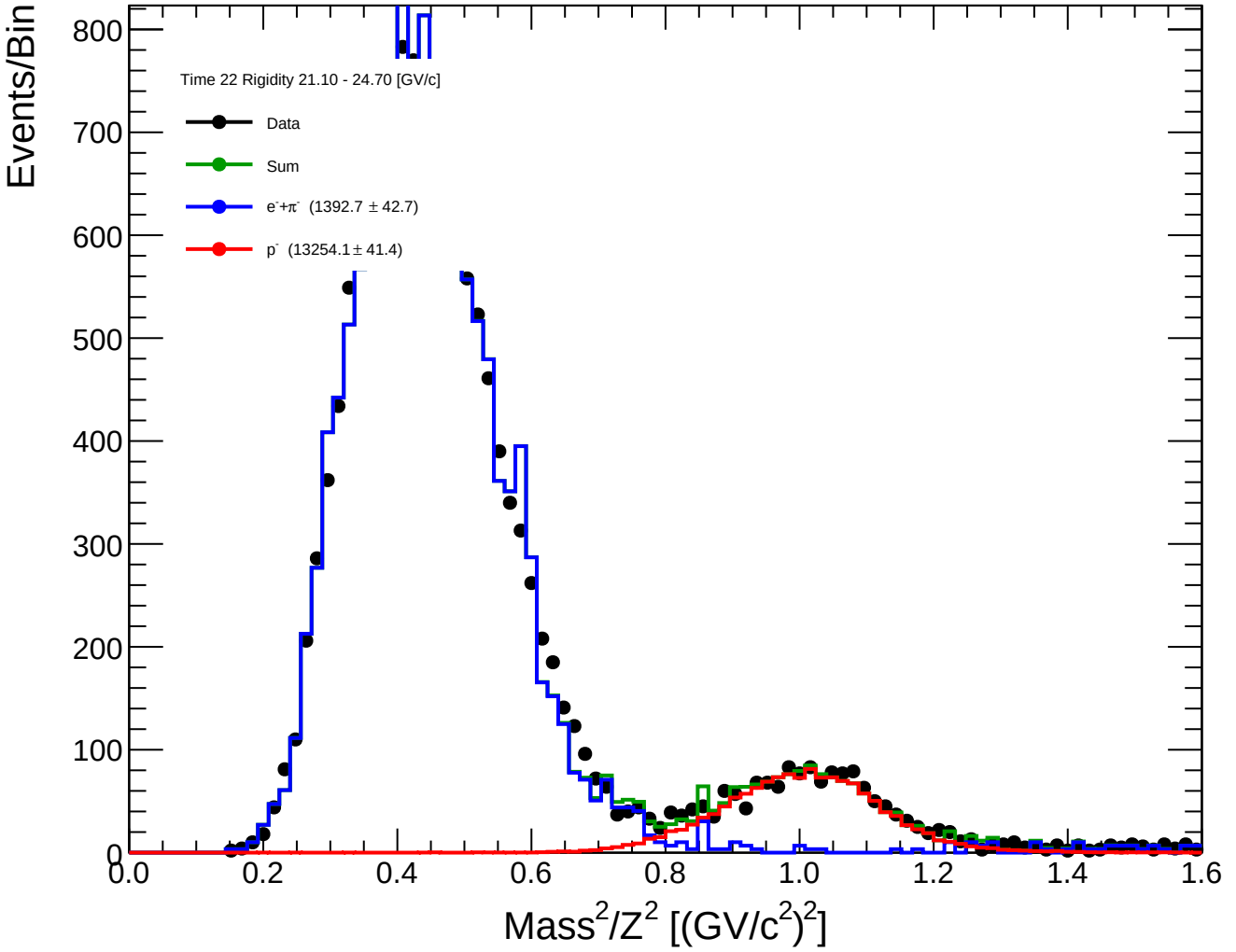

Events/Bin
Time 22 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2853.9 ± 64.6)
p⁻ (52774.4 ± 61.7)
3000
2500
2000
1500
1000
500
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

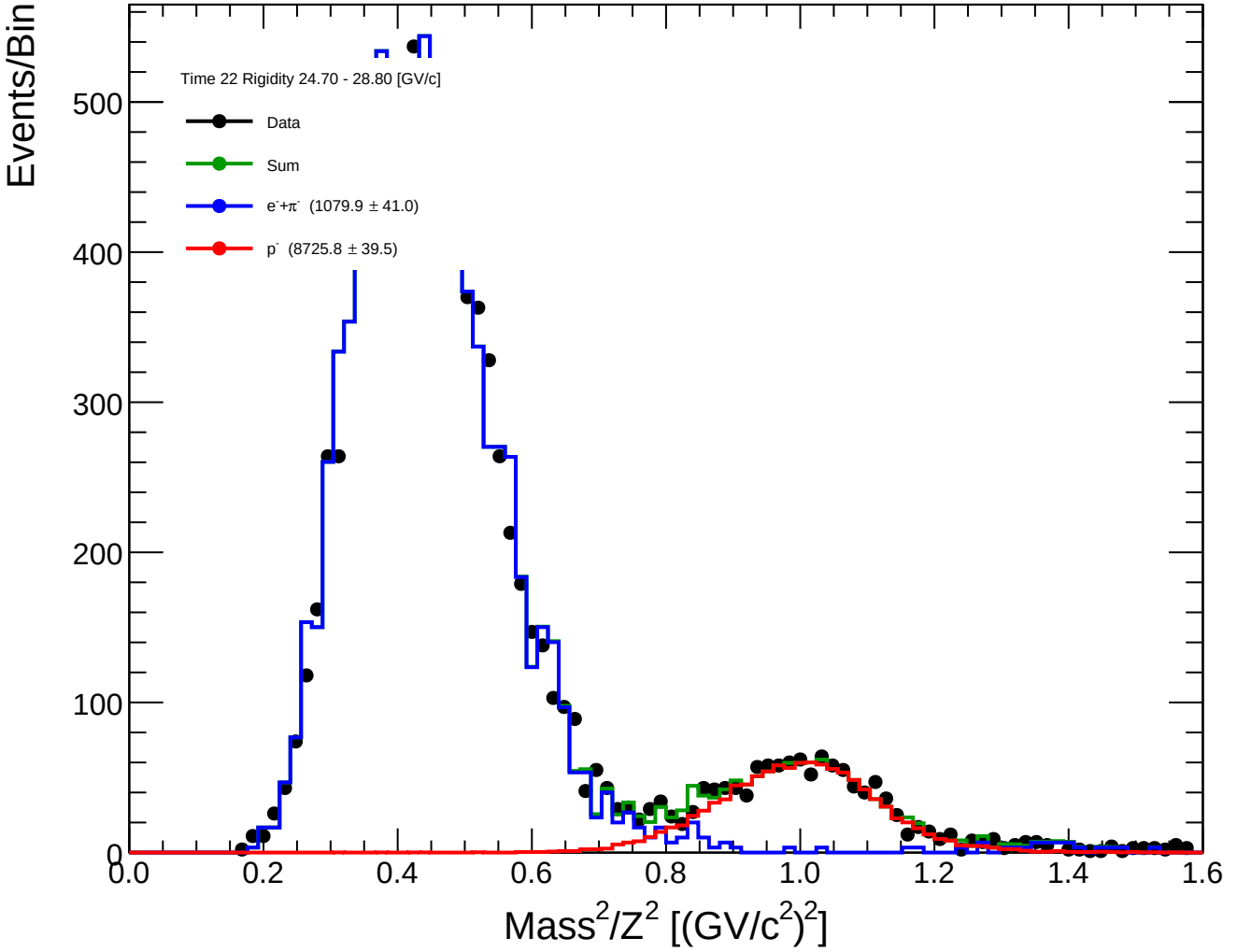

Time 22 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2439.6 ± 65.7)
p⁻ (39264.8 ± 62.4)
Events/Bin
2500
2000
1500
1000
500
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

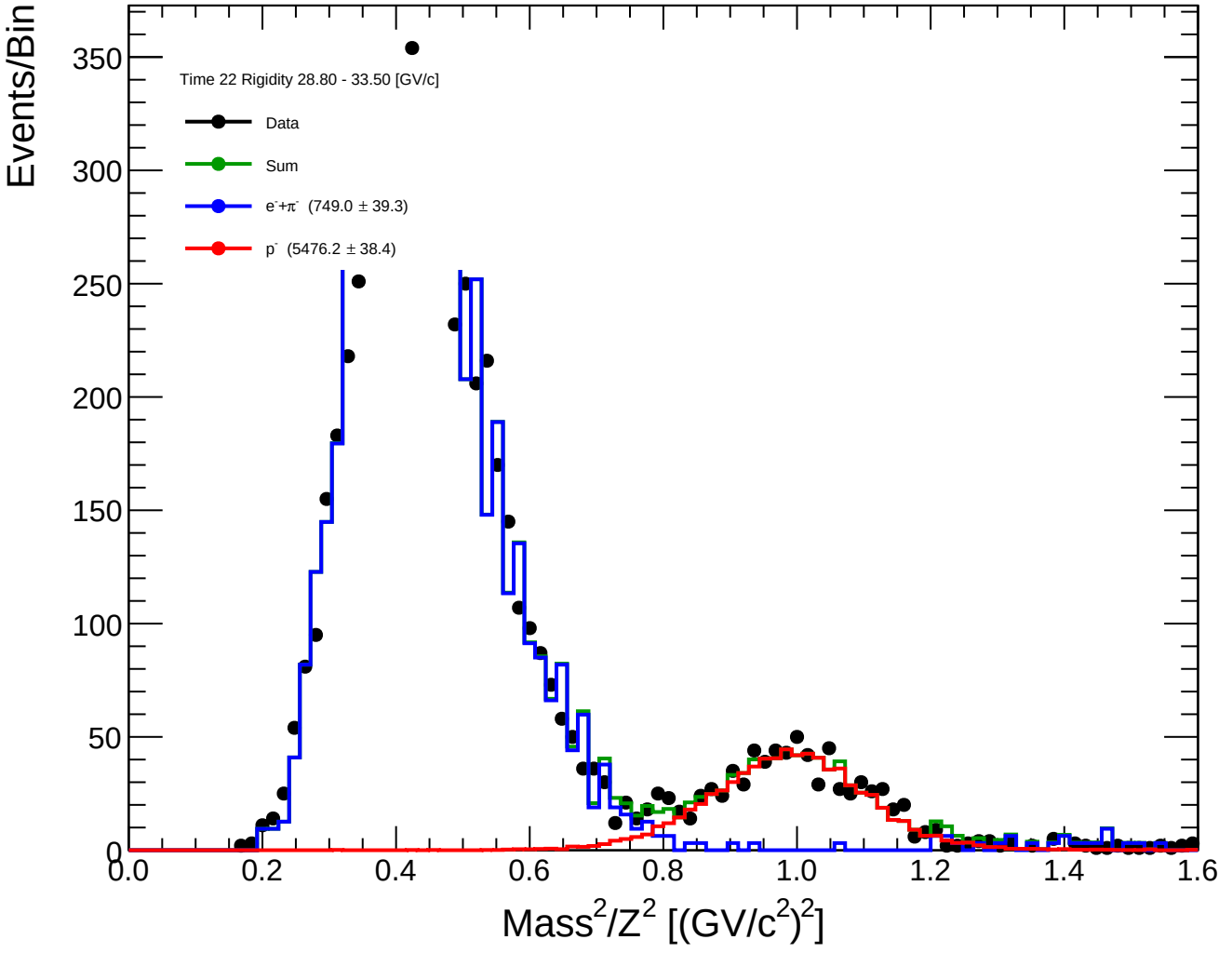

Events/Bin
1800
1600
1400
1200
1000
800
600
400
200
0
Time 22 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2238.2 ± 52.9)
p⁻ (29839.9 ± 51.0)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

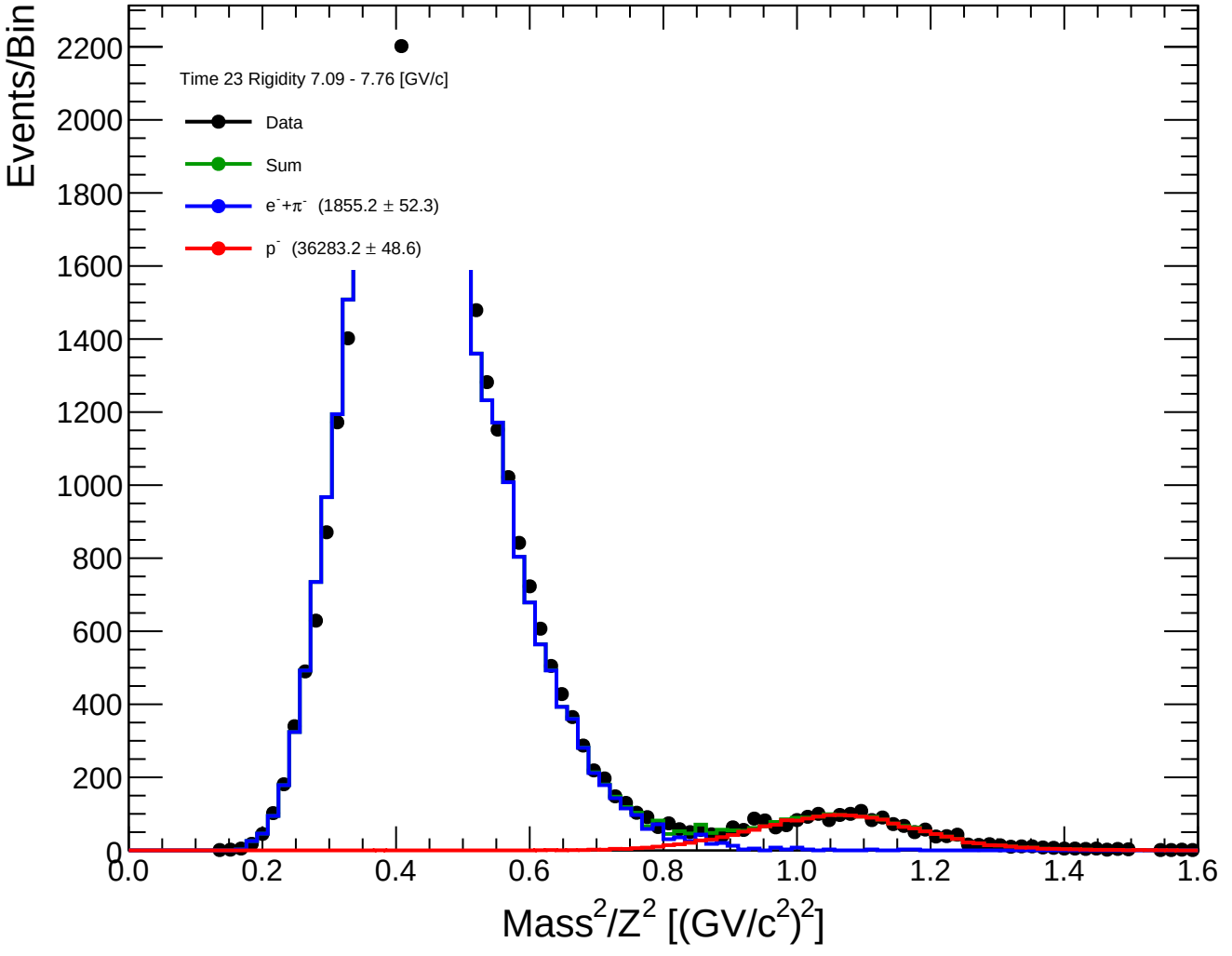

Events/Bin
1400
1200
1000
800
600
400
200
0
Time 22 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2040.5 ± 51.6)
p⁻ (24572.7 ± 50.0)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

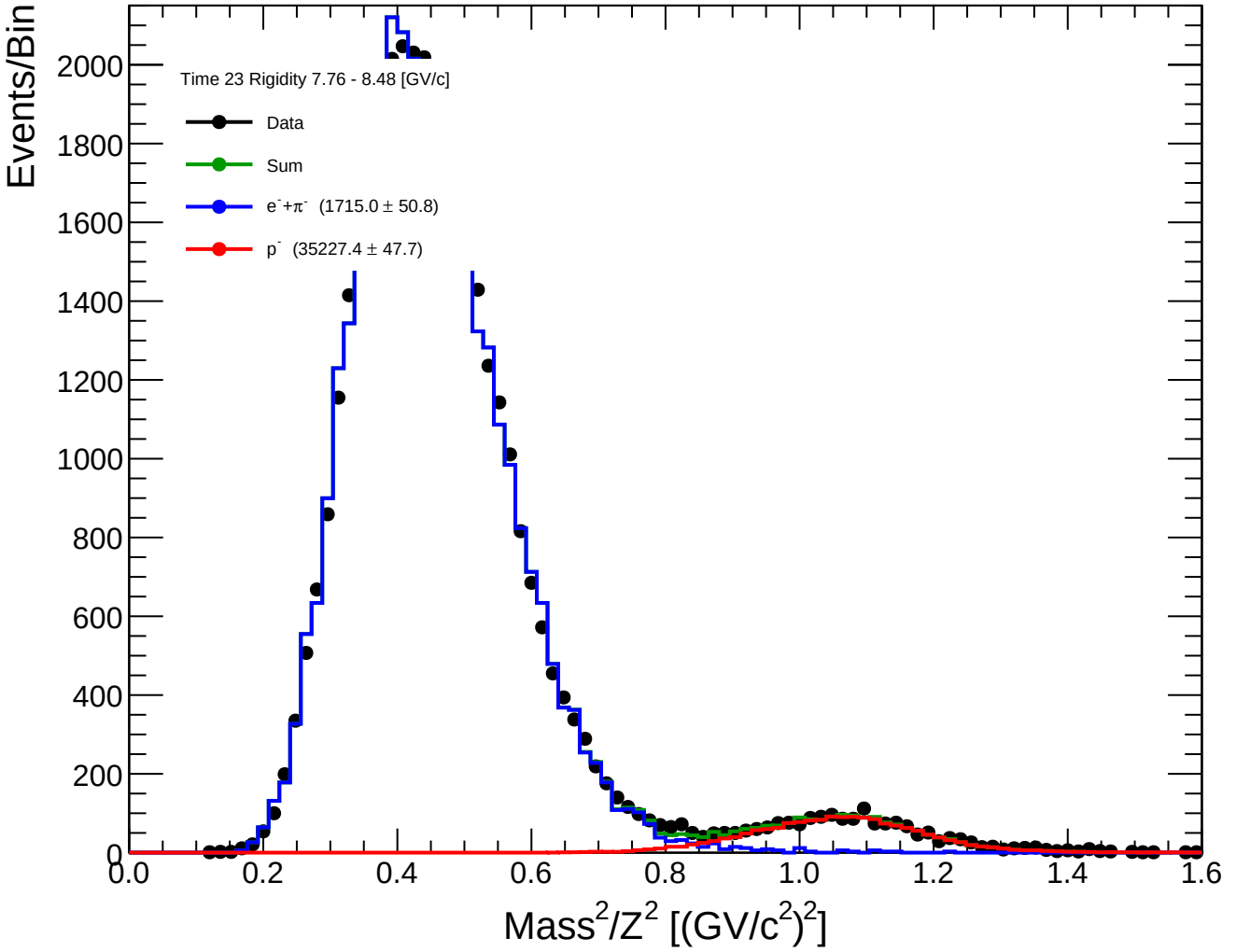

Time 22 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1863.6 ± 54.6)
p⁻ (18916.0 ± 52.6)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

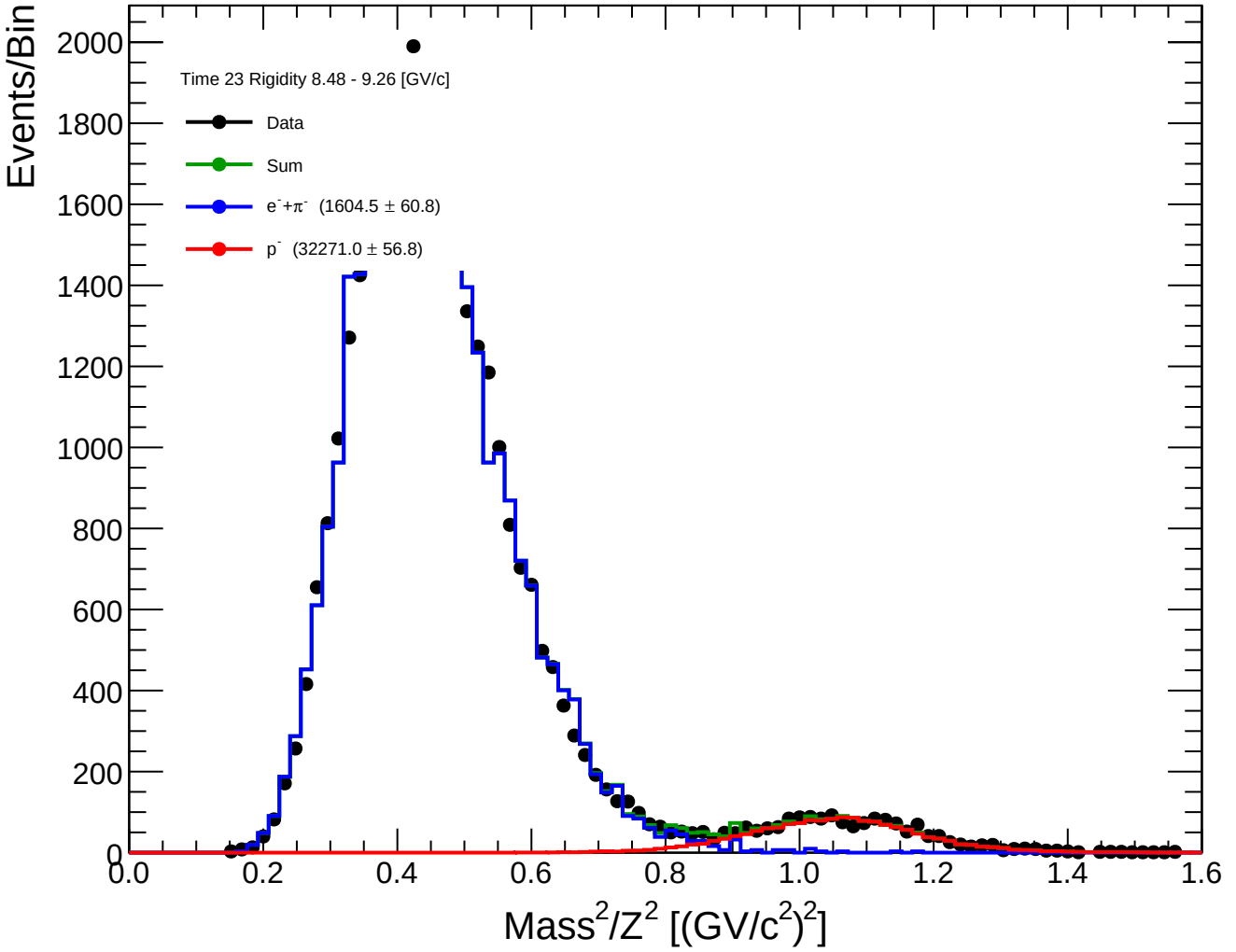

Time 22 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1392.7 ± 42.7)
p⁻ (13254.1 ± 41.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

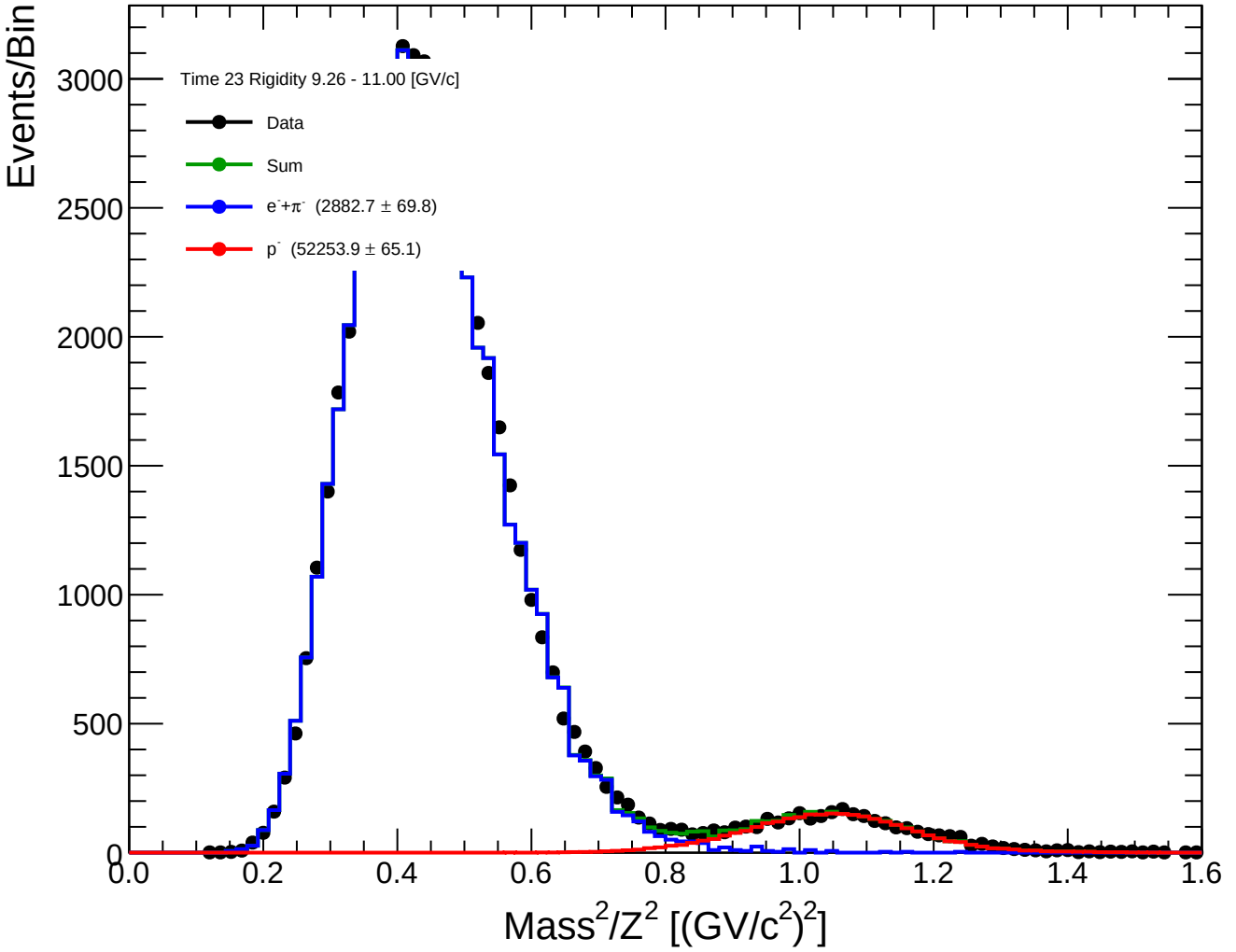

Time 22 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1079.9 ± 41.0)
p⁻ (8725.8 ± 39.5)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

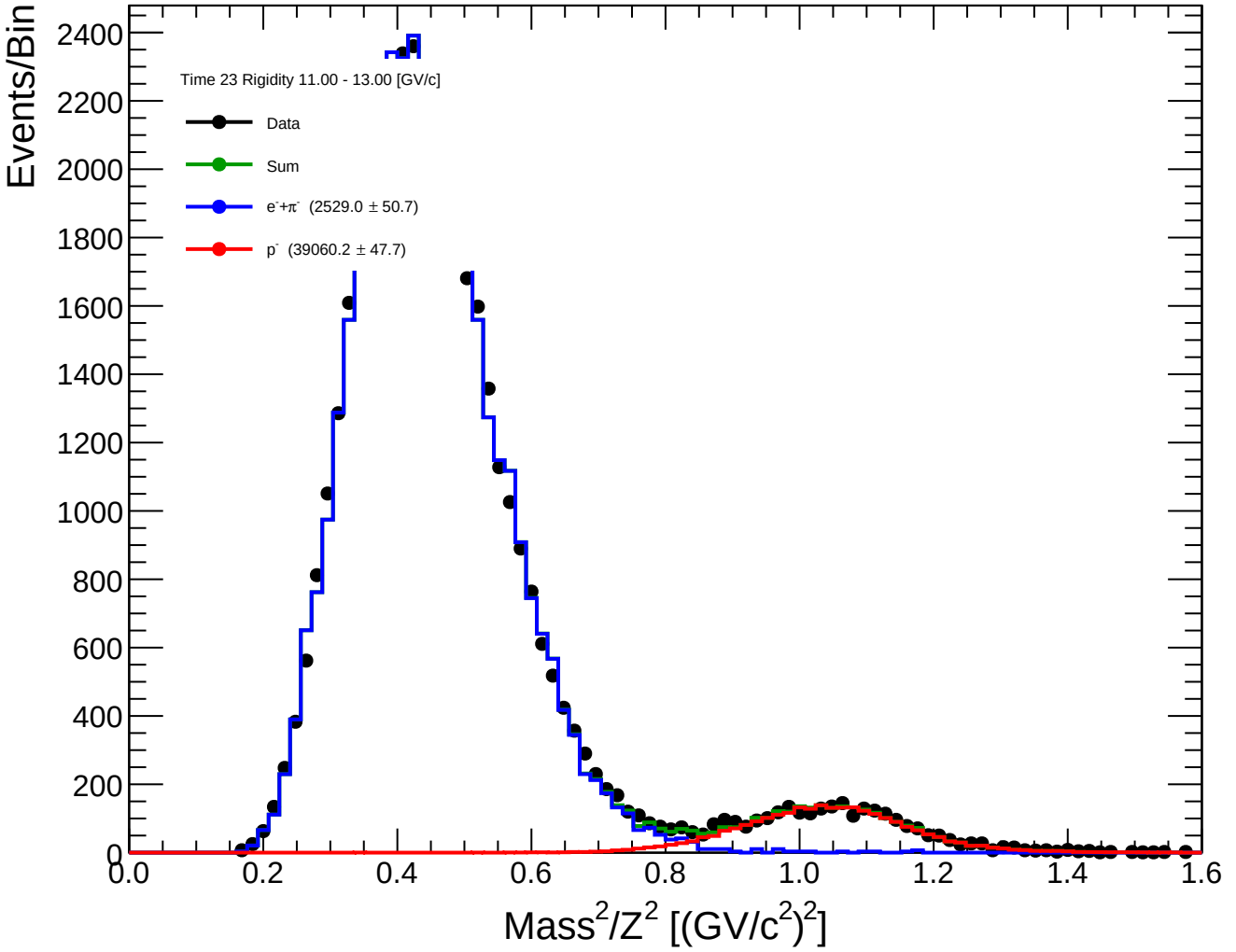

Time 22 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (749.0 ± 39.3)
p⁻ (5476.2 ± 38.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

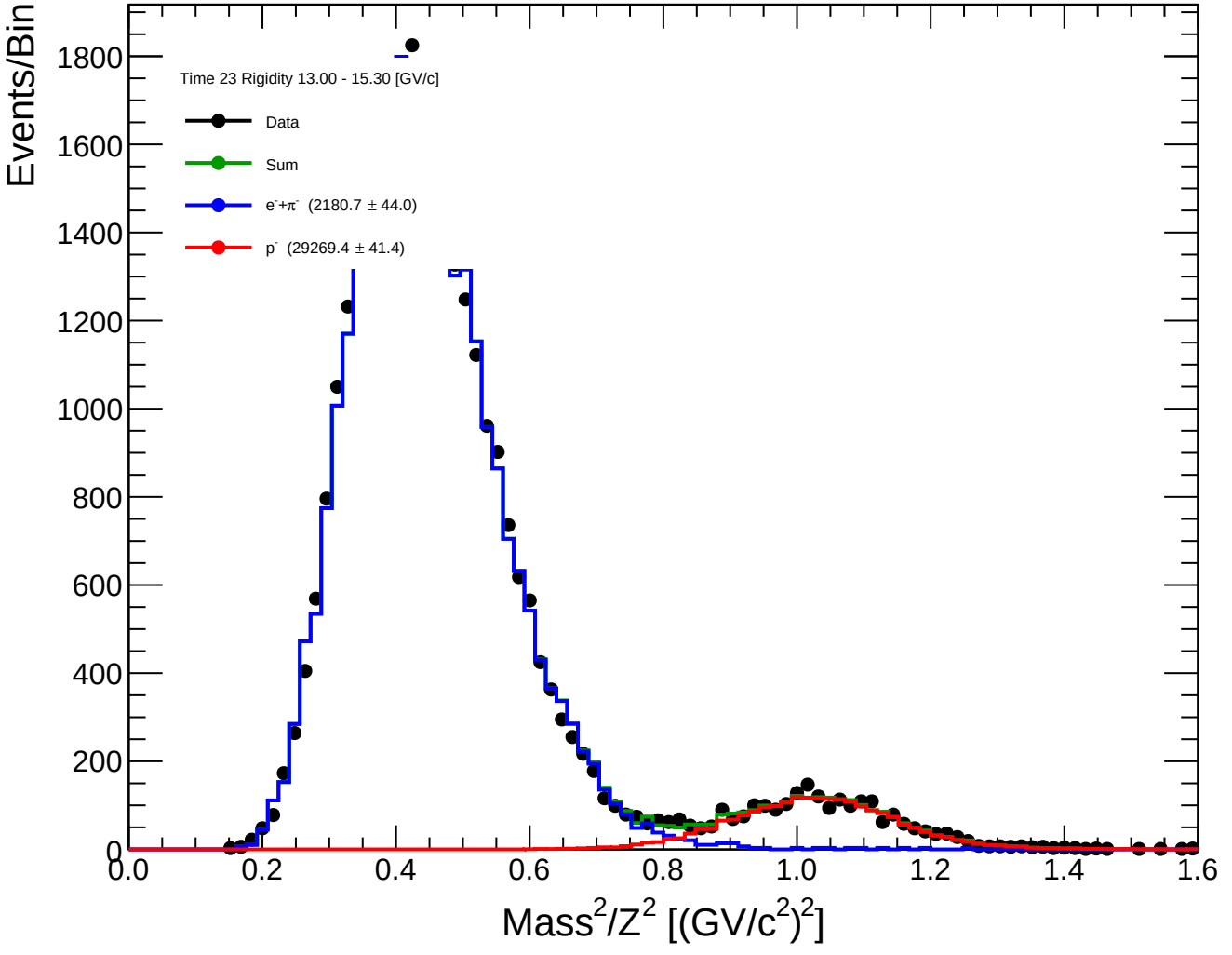

Time 23 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1855.2 ± 52.3)
p⁻ (36283.2 ± 48.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

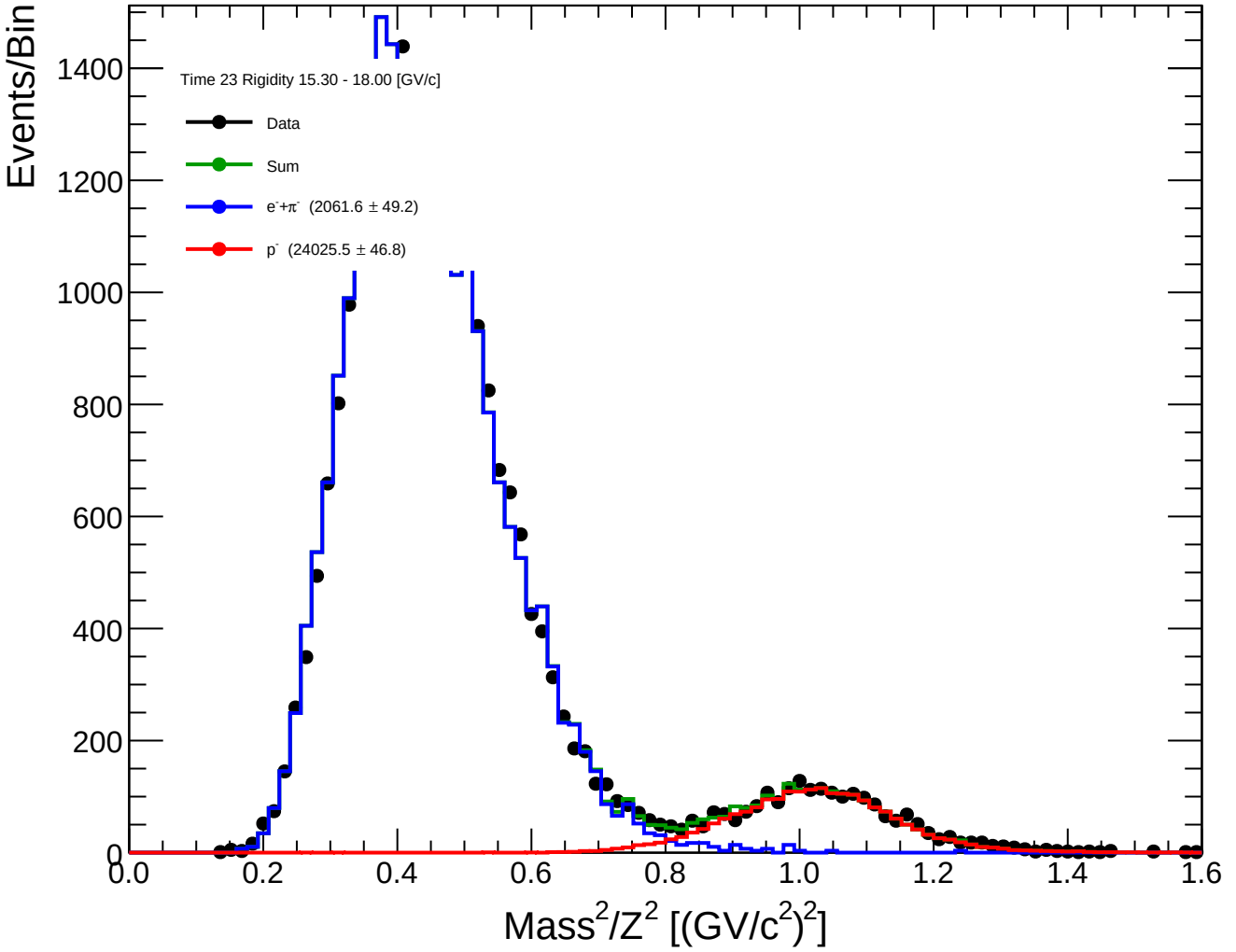

Time 23 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1715.0 ± 50.8)
p⁻ (35227.4 ± 47.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

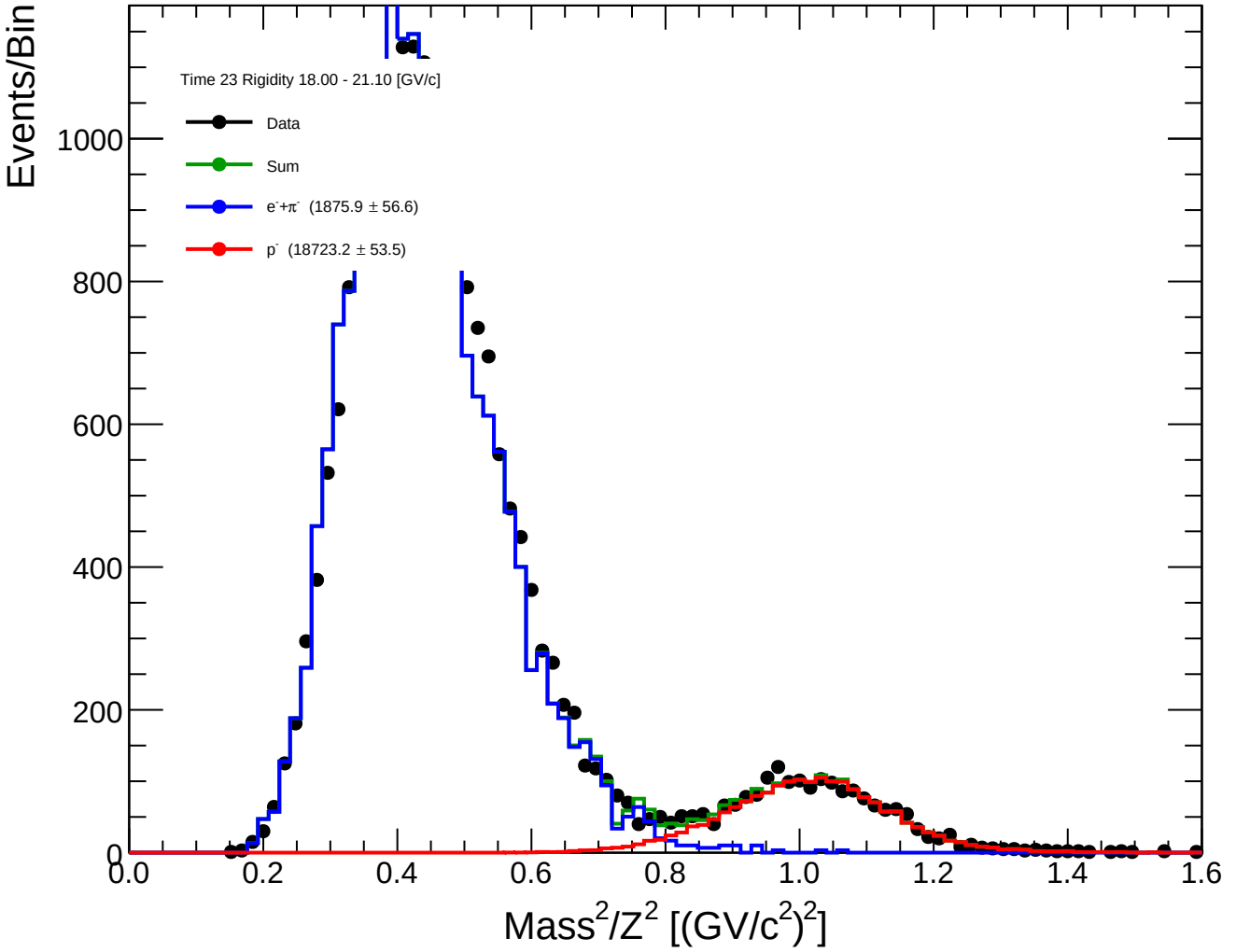

Time 23 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1604.5 ± 60.8)
p⁻ (32271.0 ± 56.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

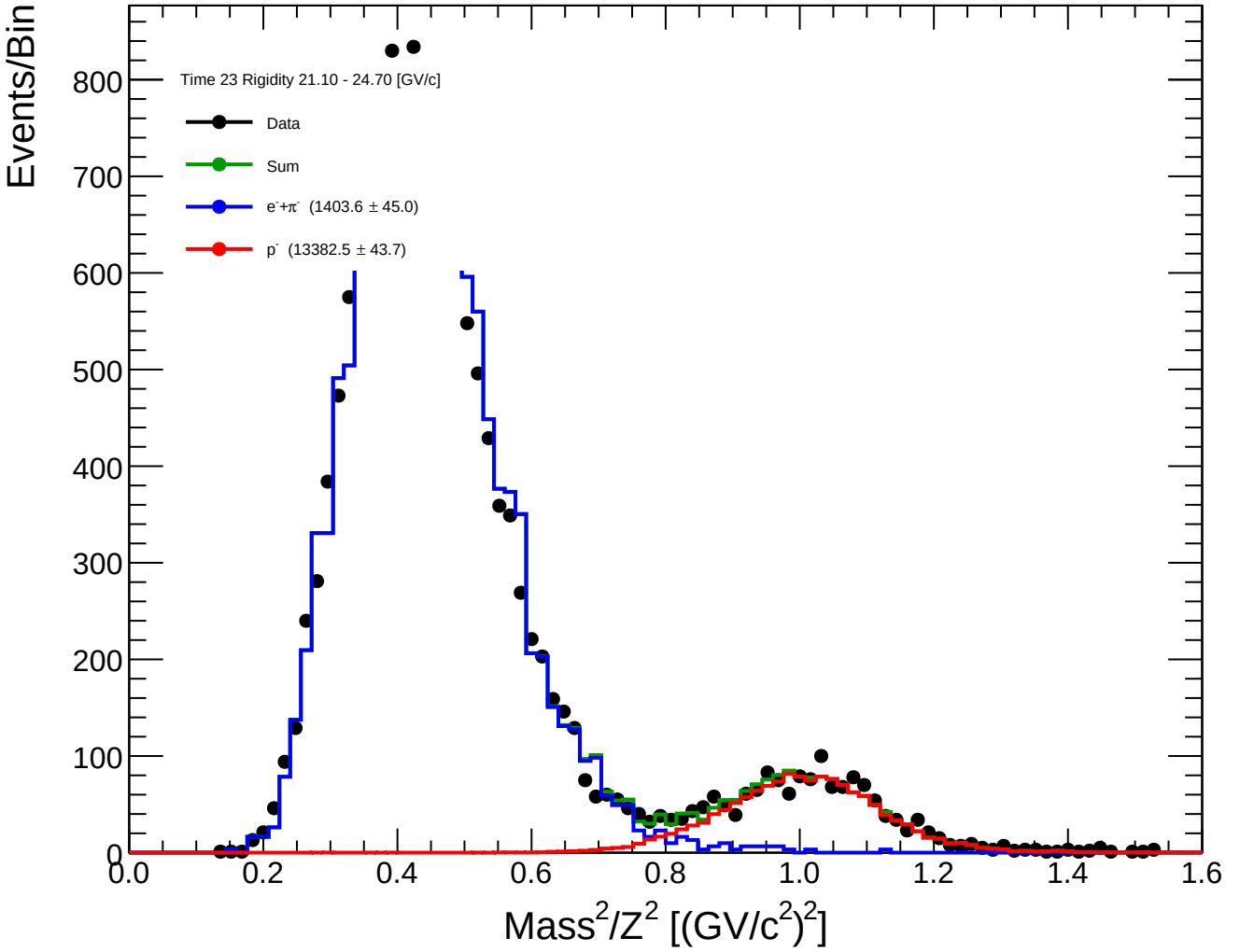

Events/Bin
Time 23 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2882.7 ± 69.8)
p⁻ (52253.9 ± 65.1)
3000
2500
2000
1500
1000
500
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

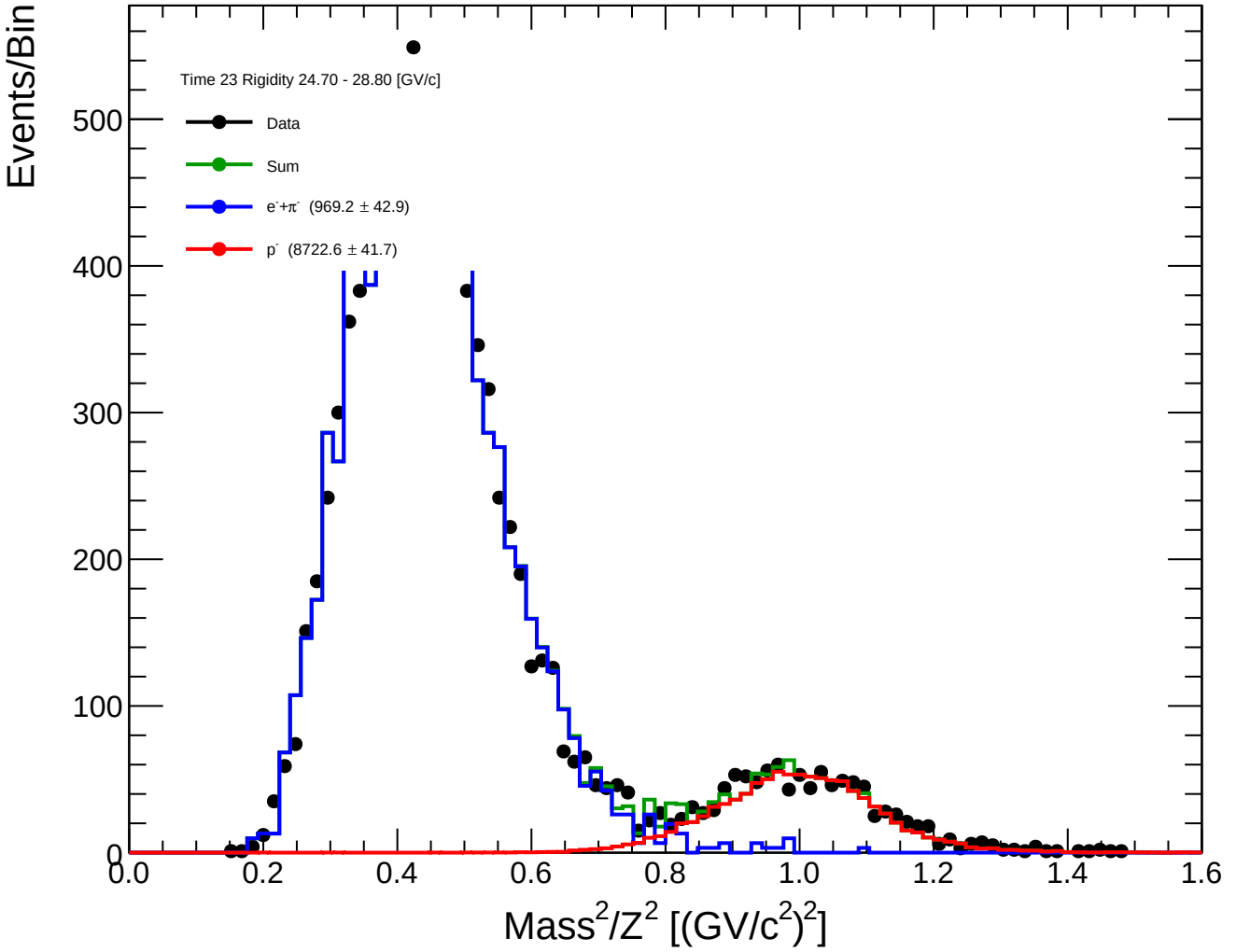

Time 23 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2529.0 ± 50.7)
p⁻ (39060.2 ± 47.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

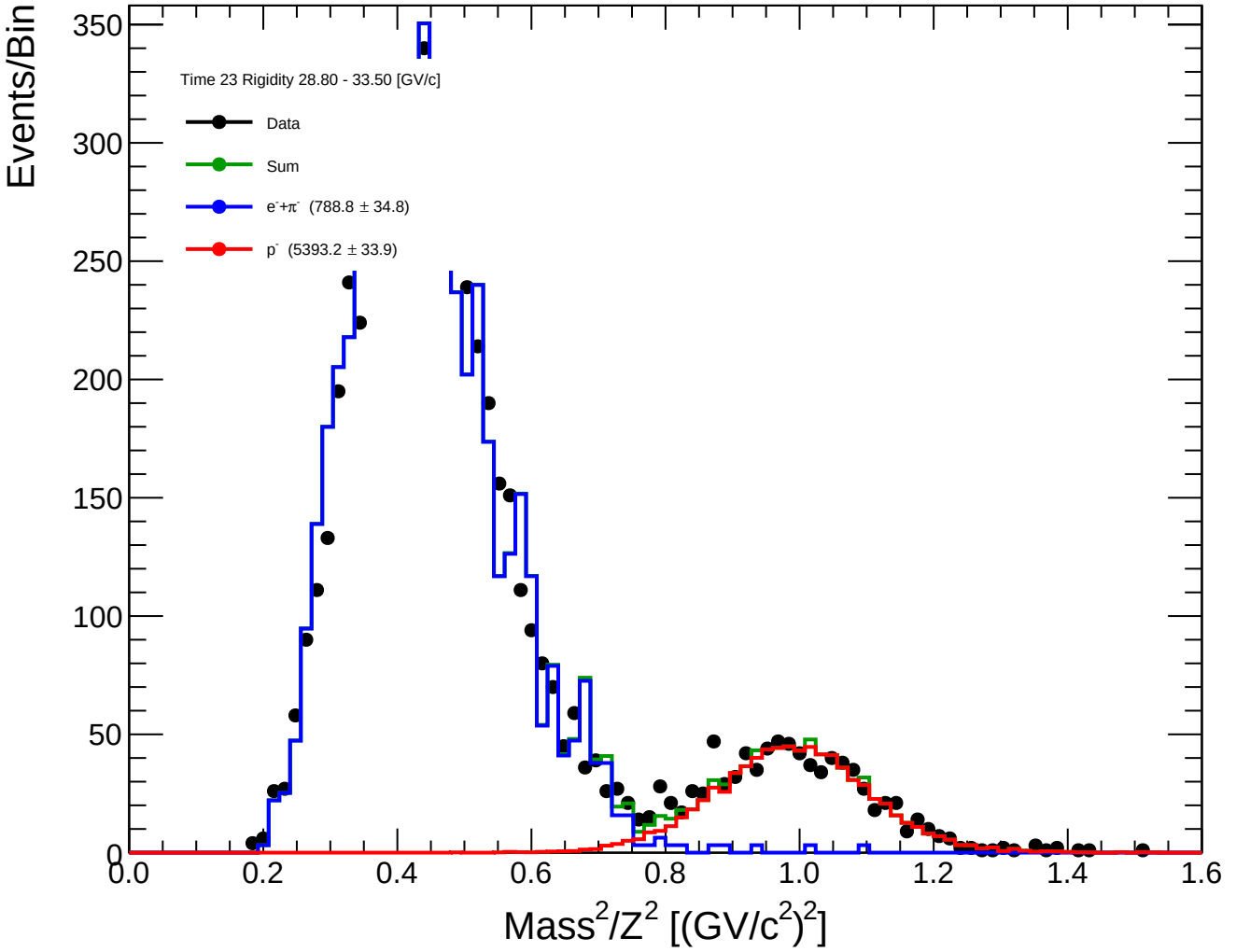

Time 23 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2180.7 ± 44.0)
p⁻ (29269.4 ± 41.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

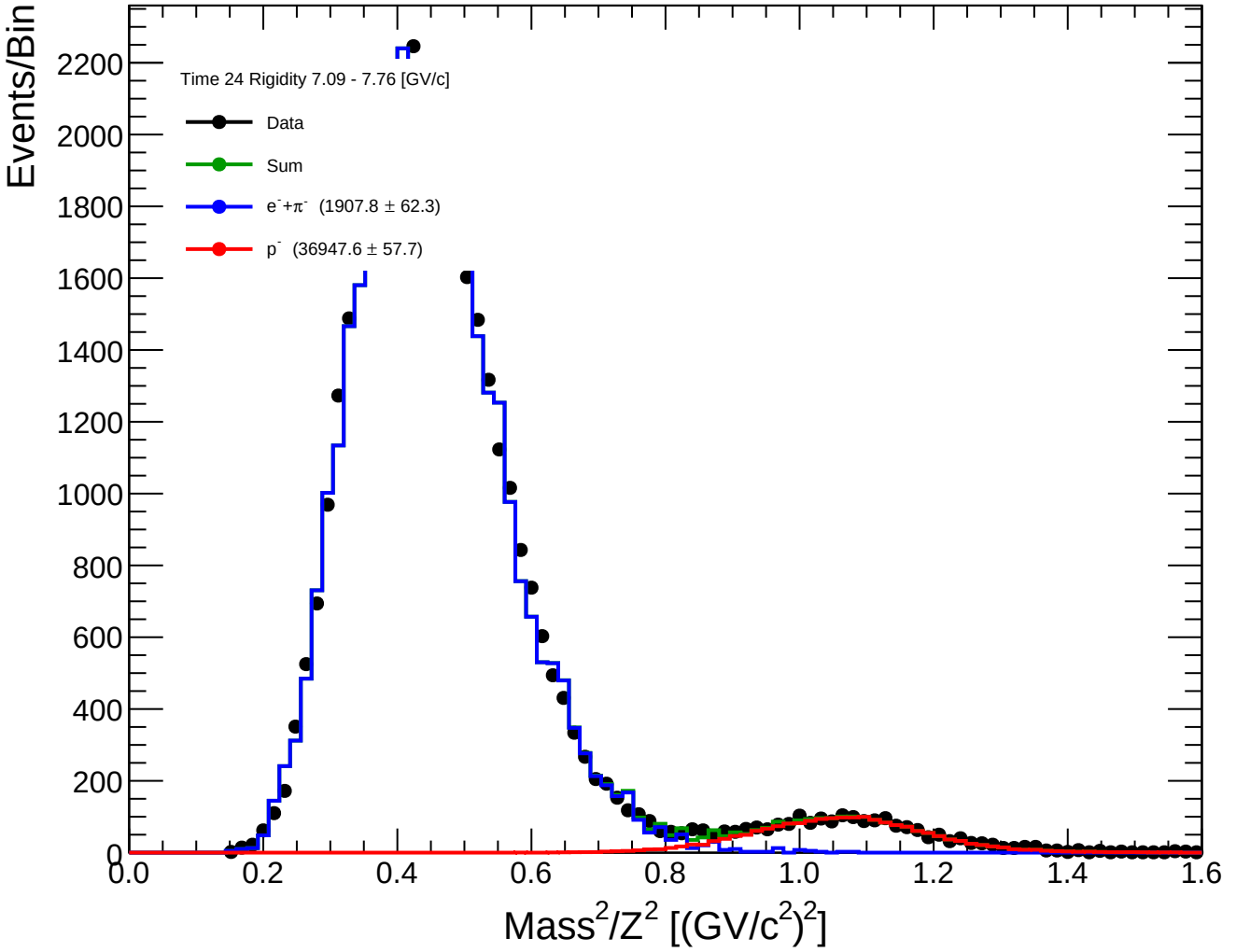

Time 23 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2061.6 ± 49.2)
p⁻ (24025.5 ± 46.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

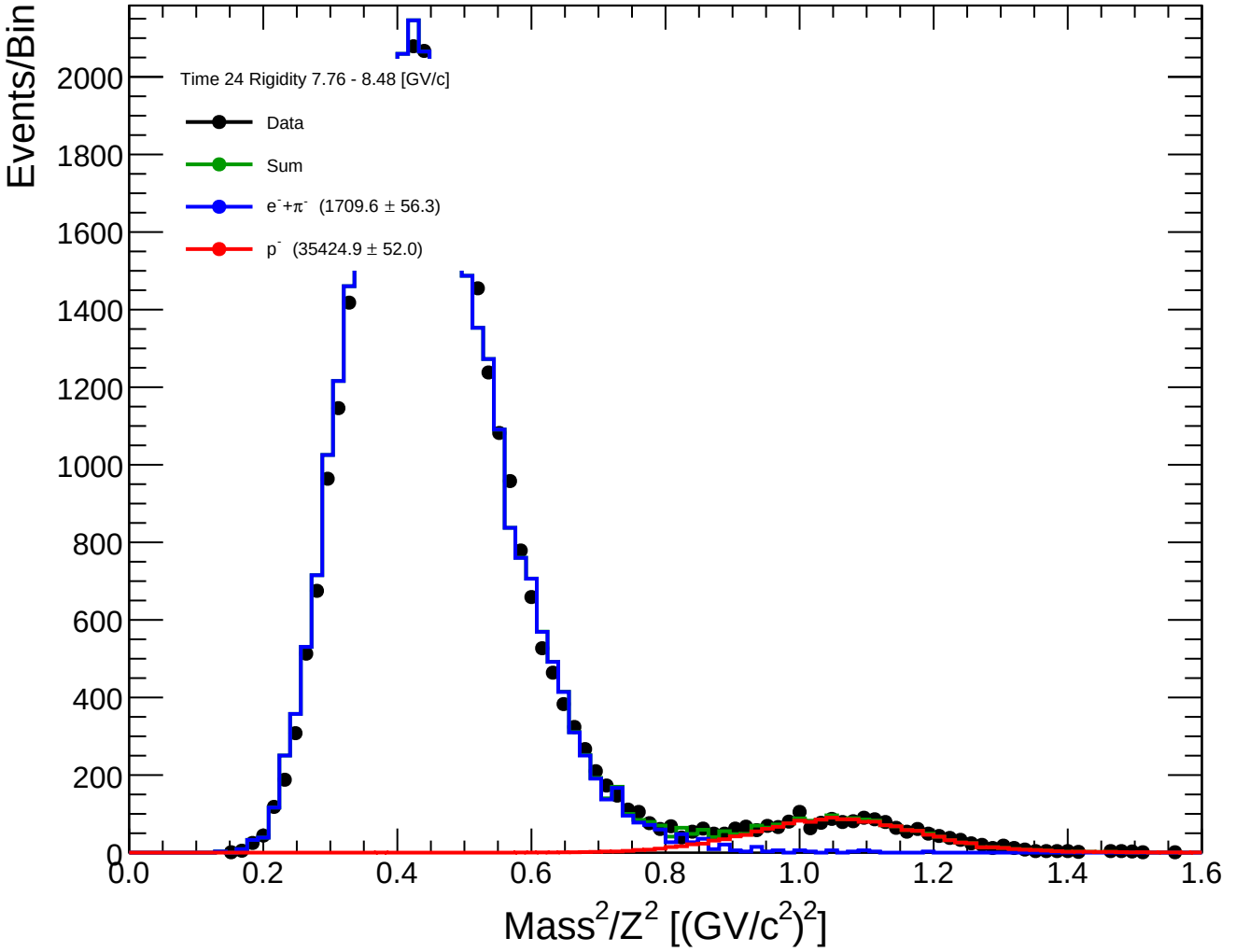

Time 23 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1875.9 ± 56.6)
p⁻ (18723.2 ± 53.5)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

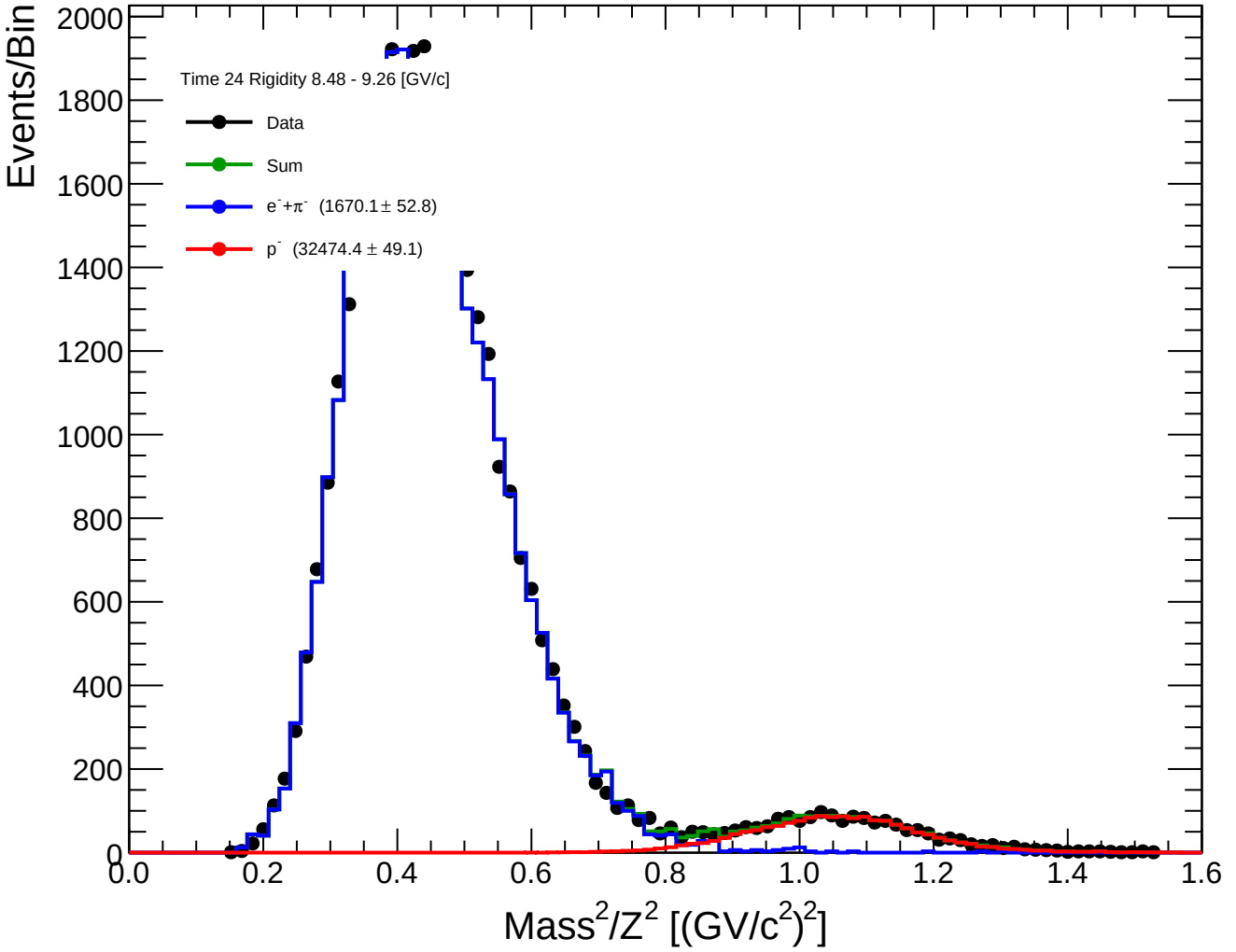

Time 23 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1403.6 ± 45.0)
p⁻ (13382.5 ± 43.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

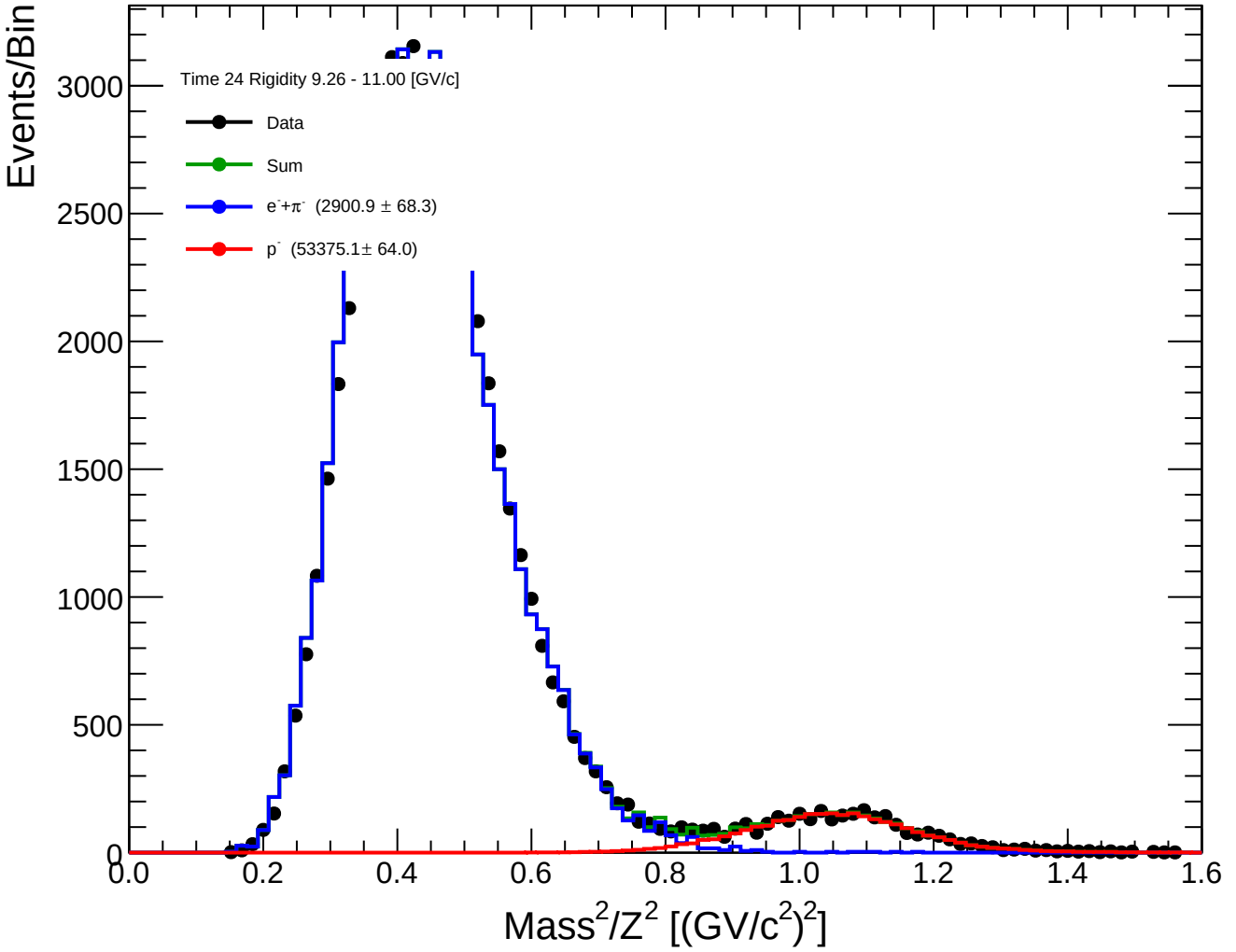

Time 23 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (969.2 ± 42.9)
p⁻ (8722.6 ± 41.7)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

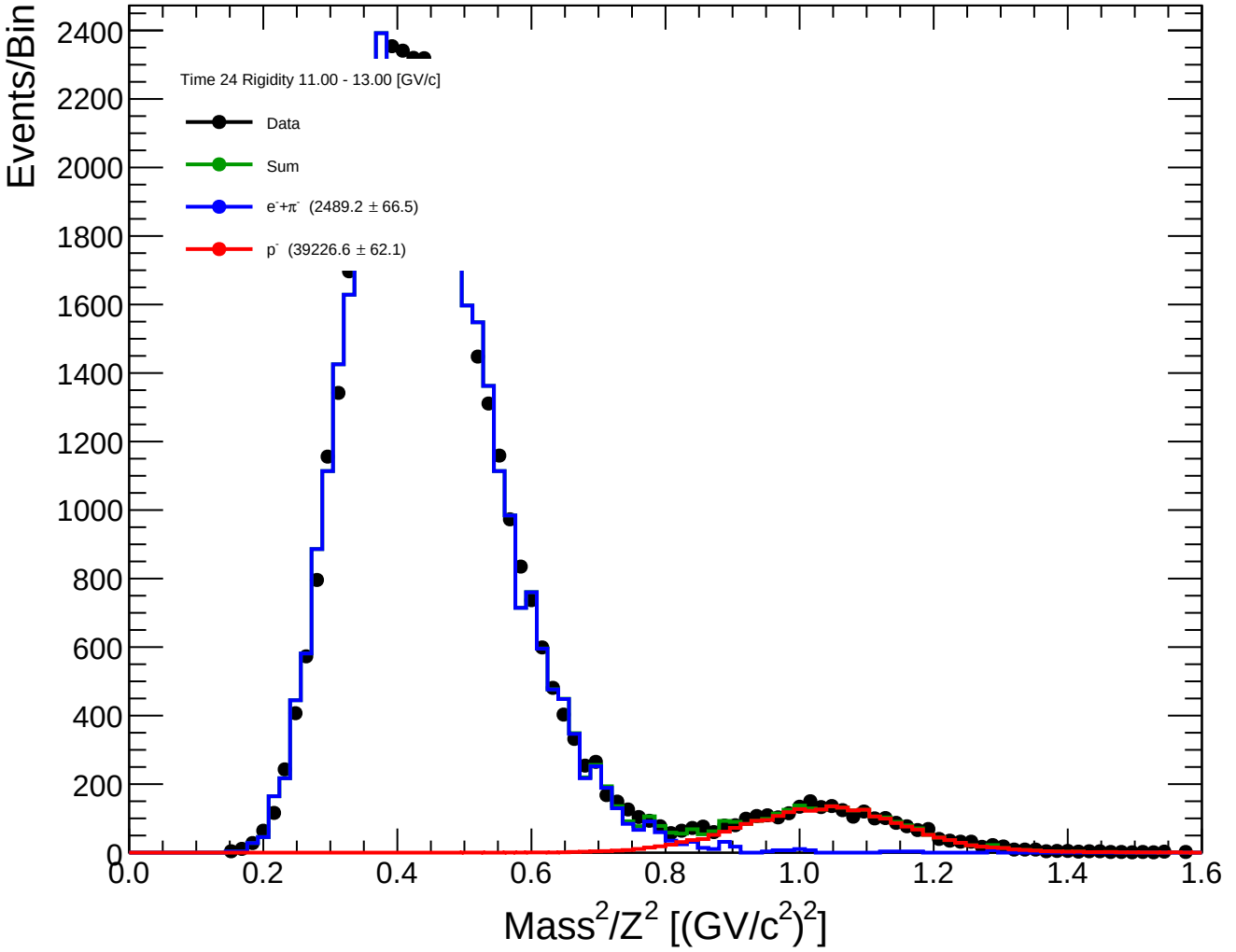

Time 23 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (788.8 ± 34.8)
p⁻ (5393.2 ± 33.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

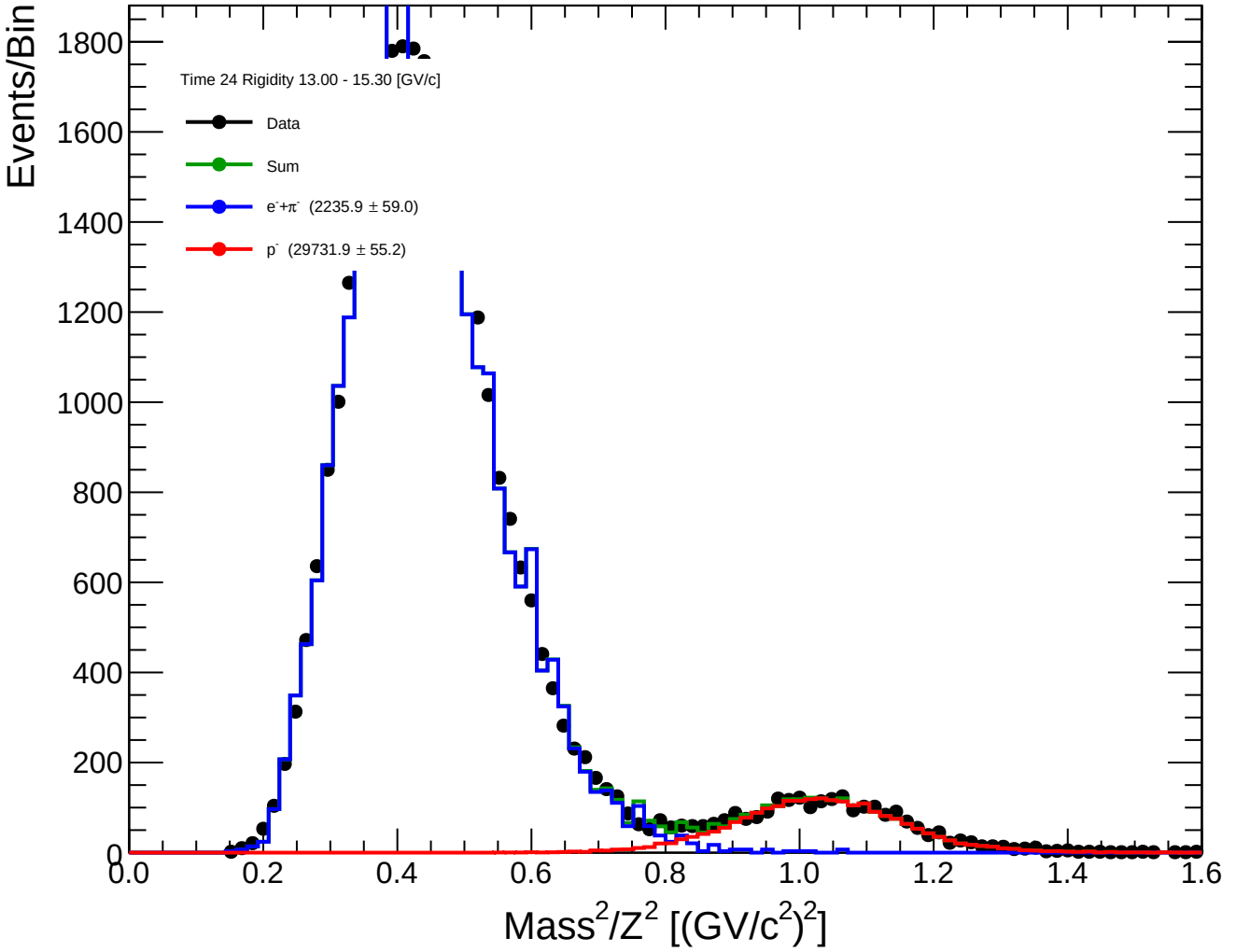

Time 24 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1907.8 ± 62.3)
p⁻ (36947.6 ± 57.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

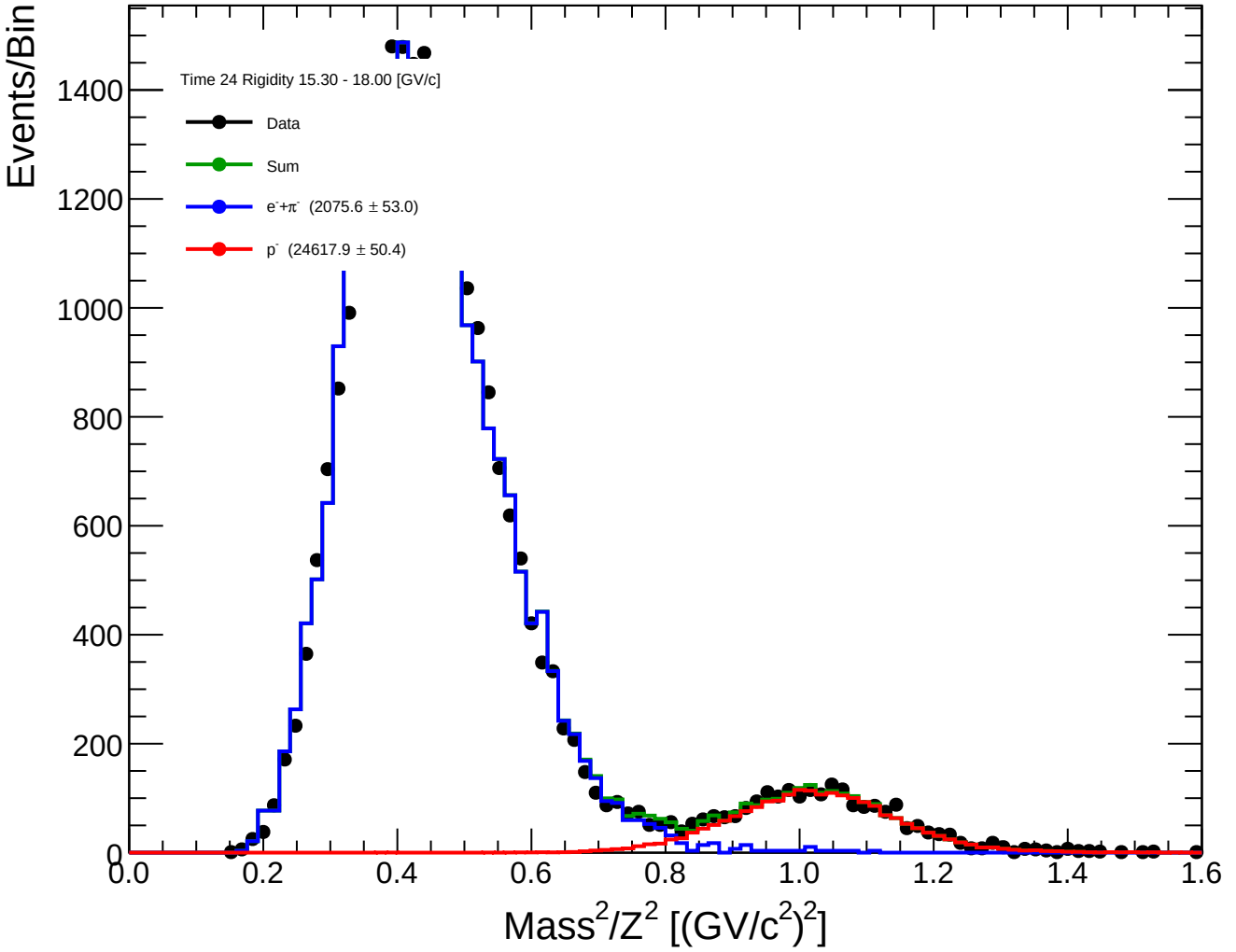

Time 24 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1709.6 ± 56.3)
p⁻ (35424.9 ± 52.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

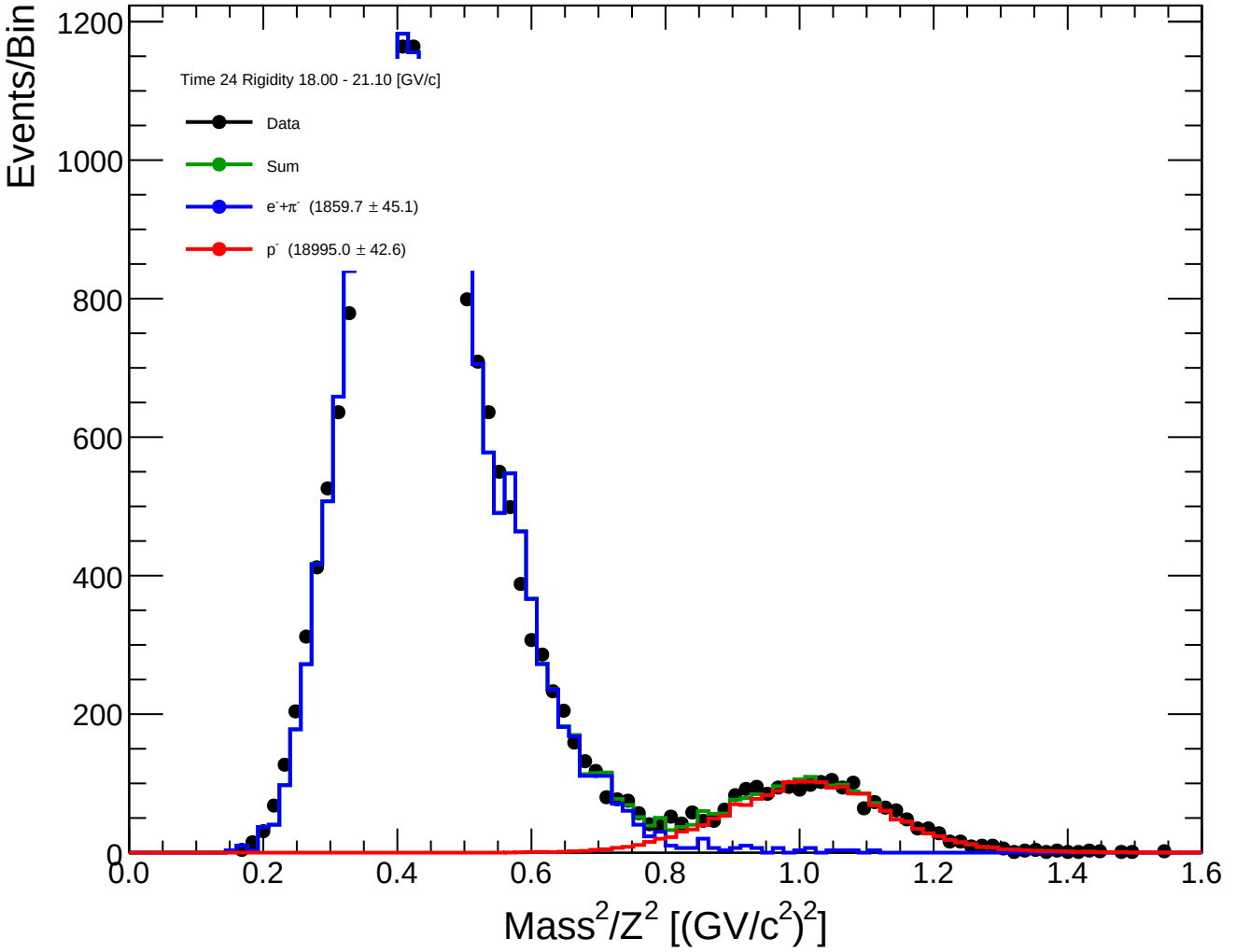

Time 24 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1670.1± 52.8)
p⁻ (32474.4 ± 49.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

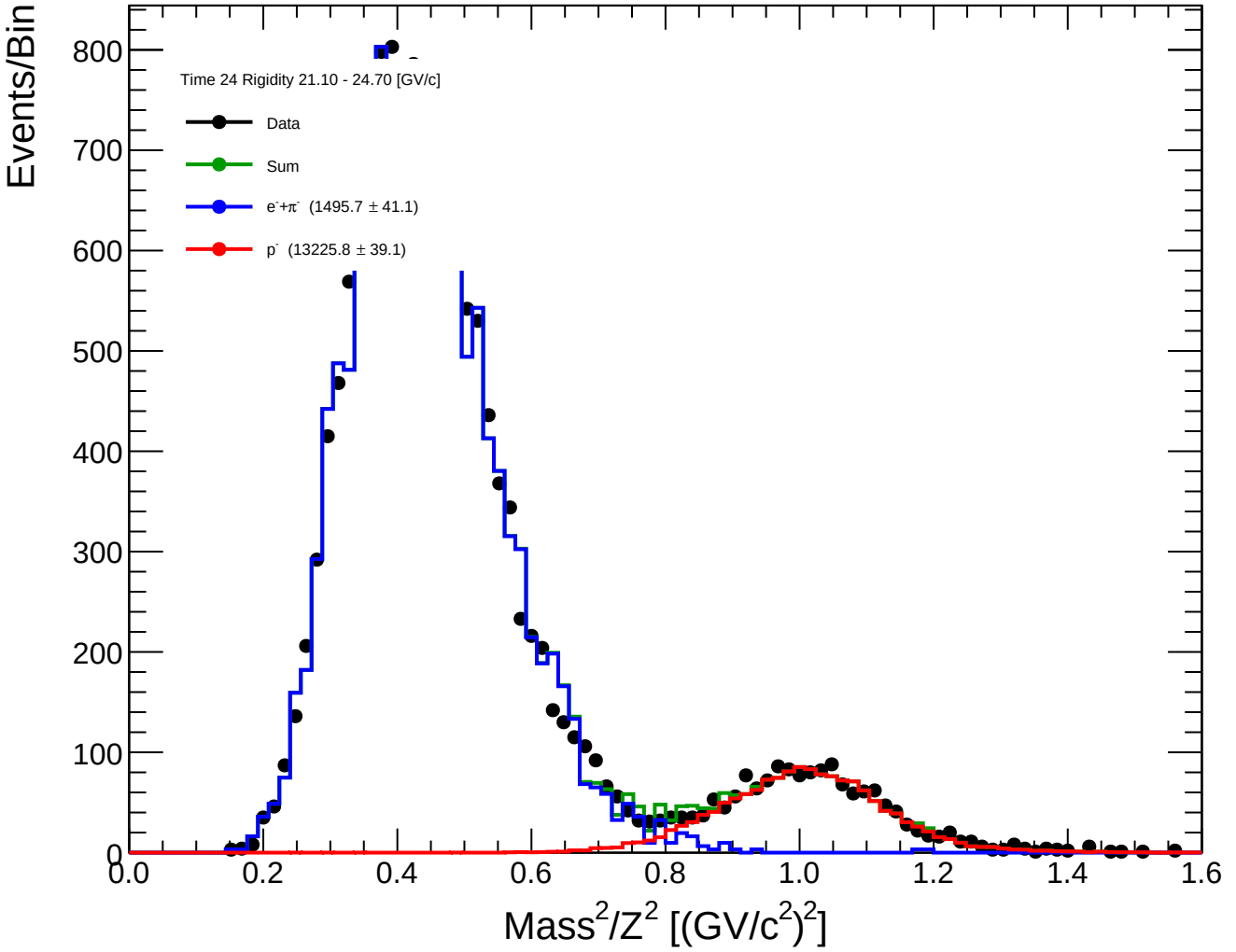

Time 24 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2900.9 ± 68.3)
p⁻ (53375.1± 64.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

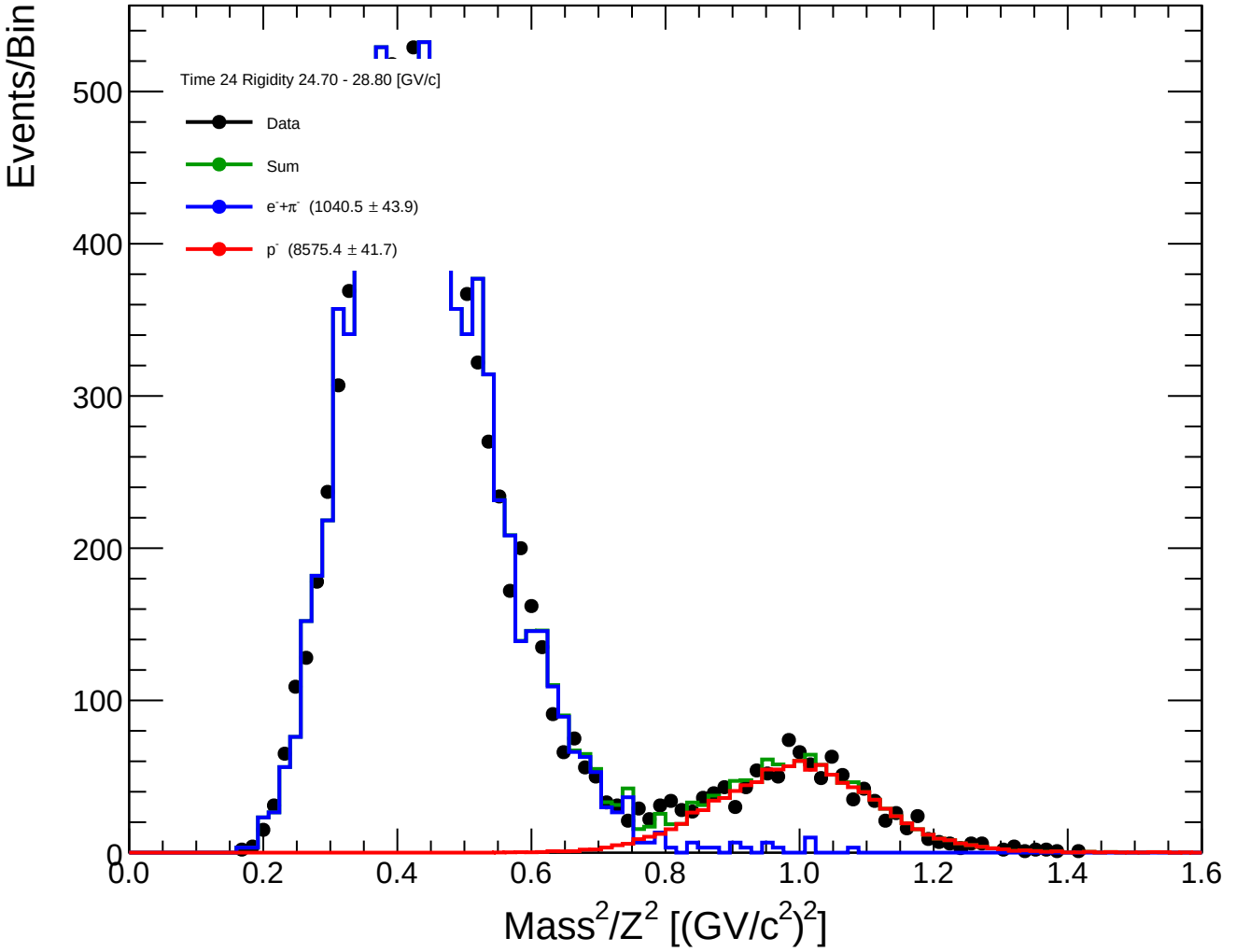

Time 24 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2489.2 ± 66.5)
p⁻ (39226.6 ± 62.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

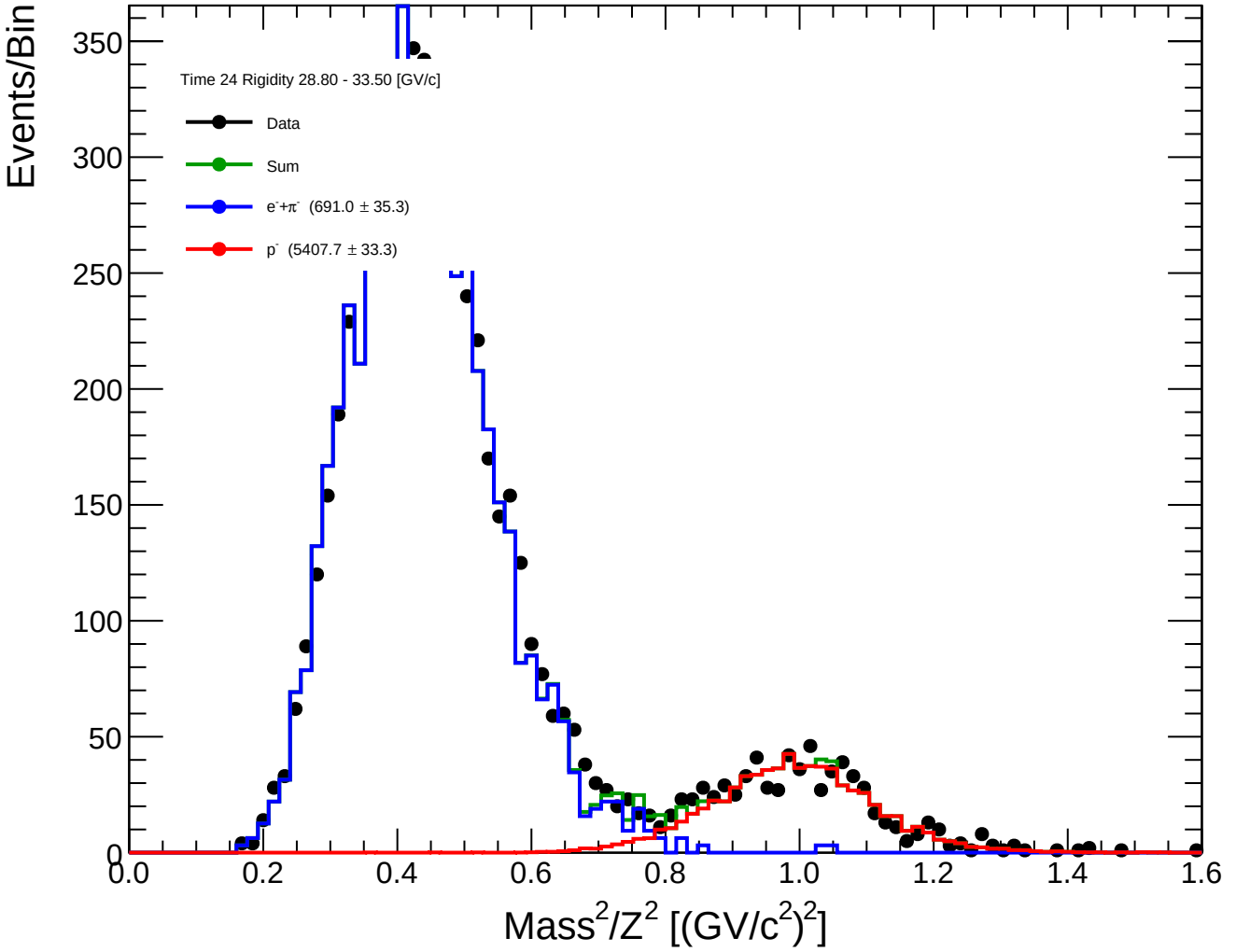

Time 24 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2235.9 ± 59.0)
p⁻ (29731.9 ± 55.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

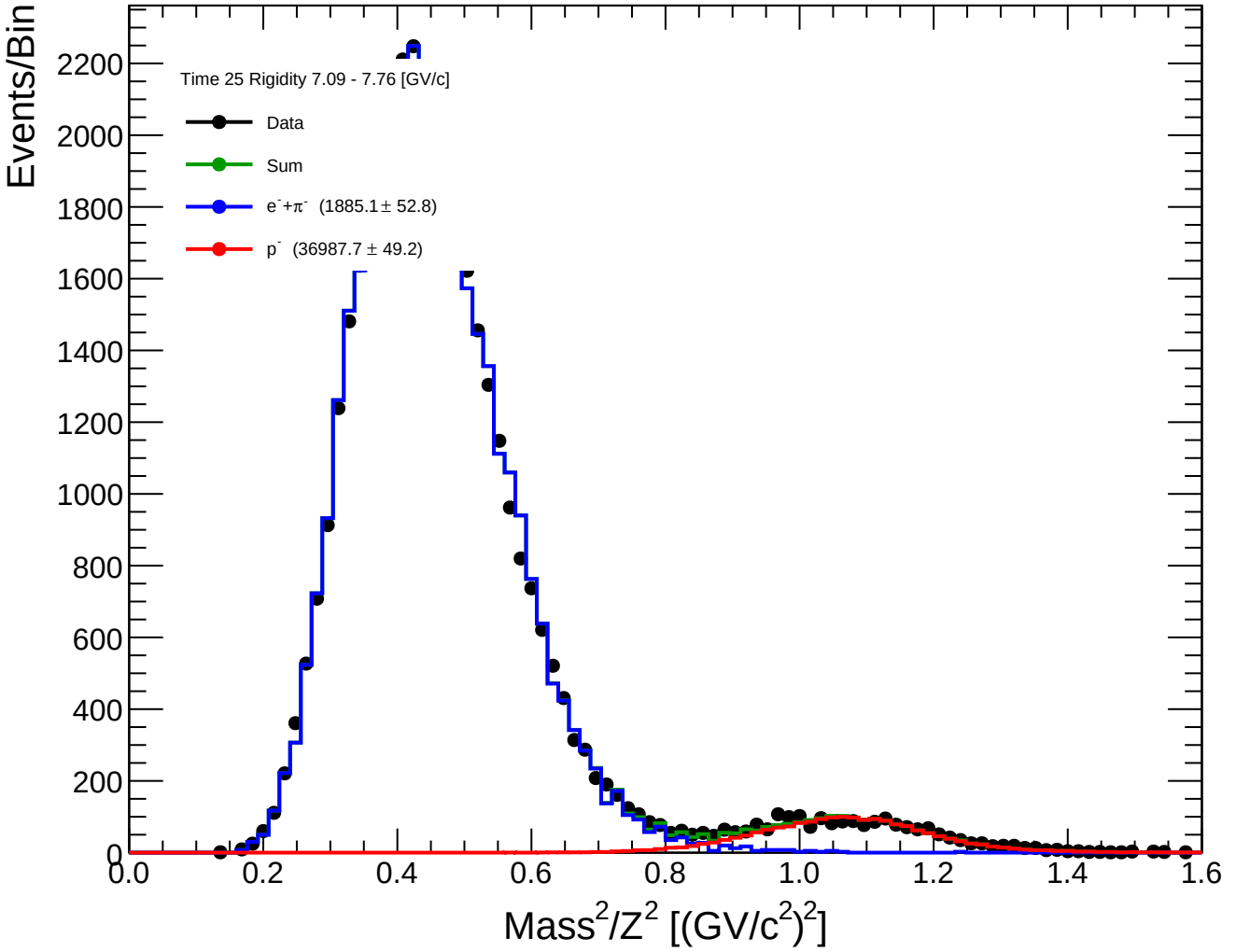

Time 24 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2075.6 ± 53.0)
p⁻ (24617.9 ± 50.4)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

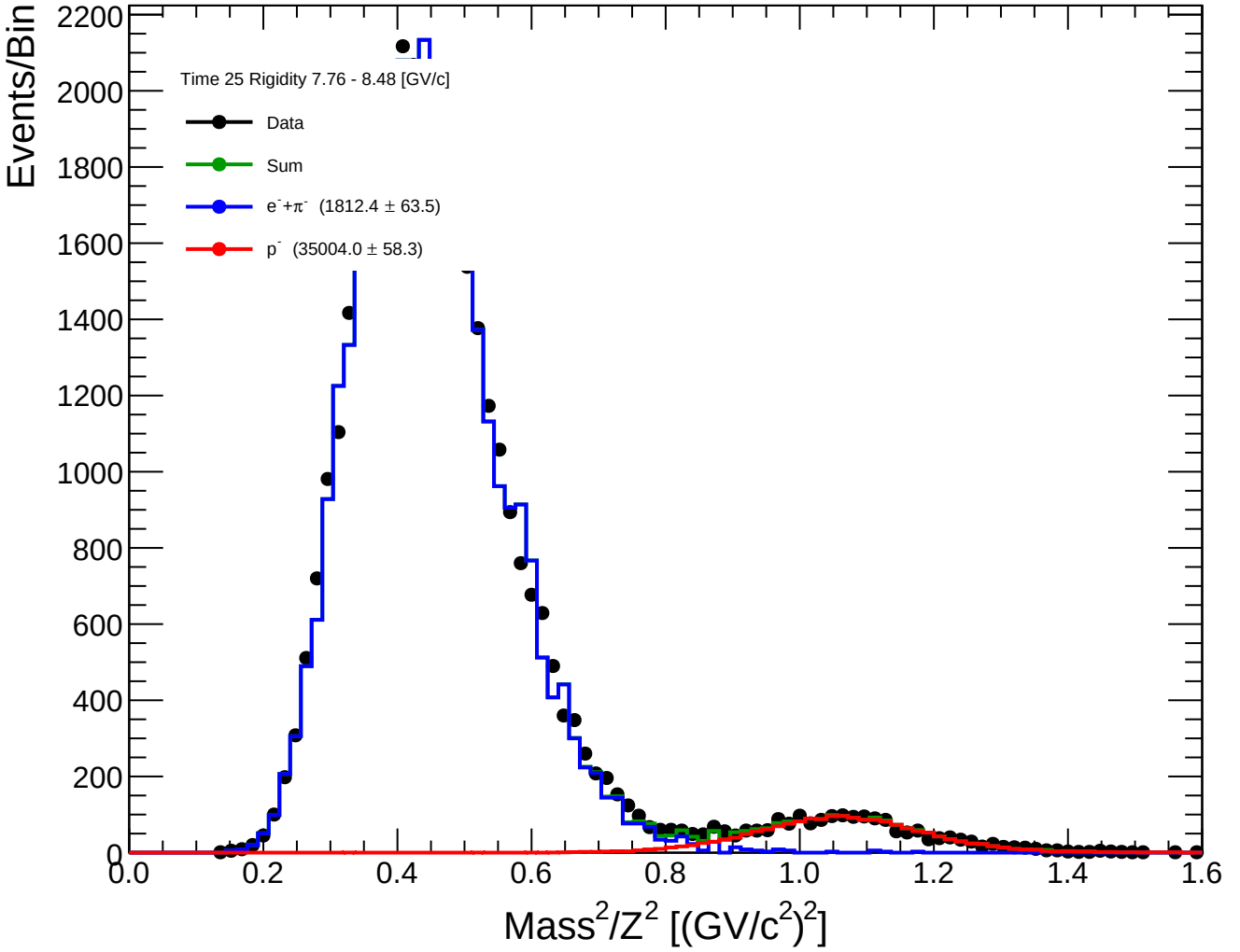

Time 24 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1859.7 ± 45.1)
p⁻ (18995.0 ± 42.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

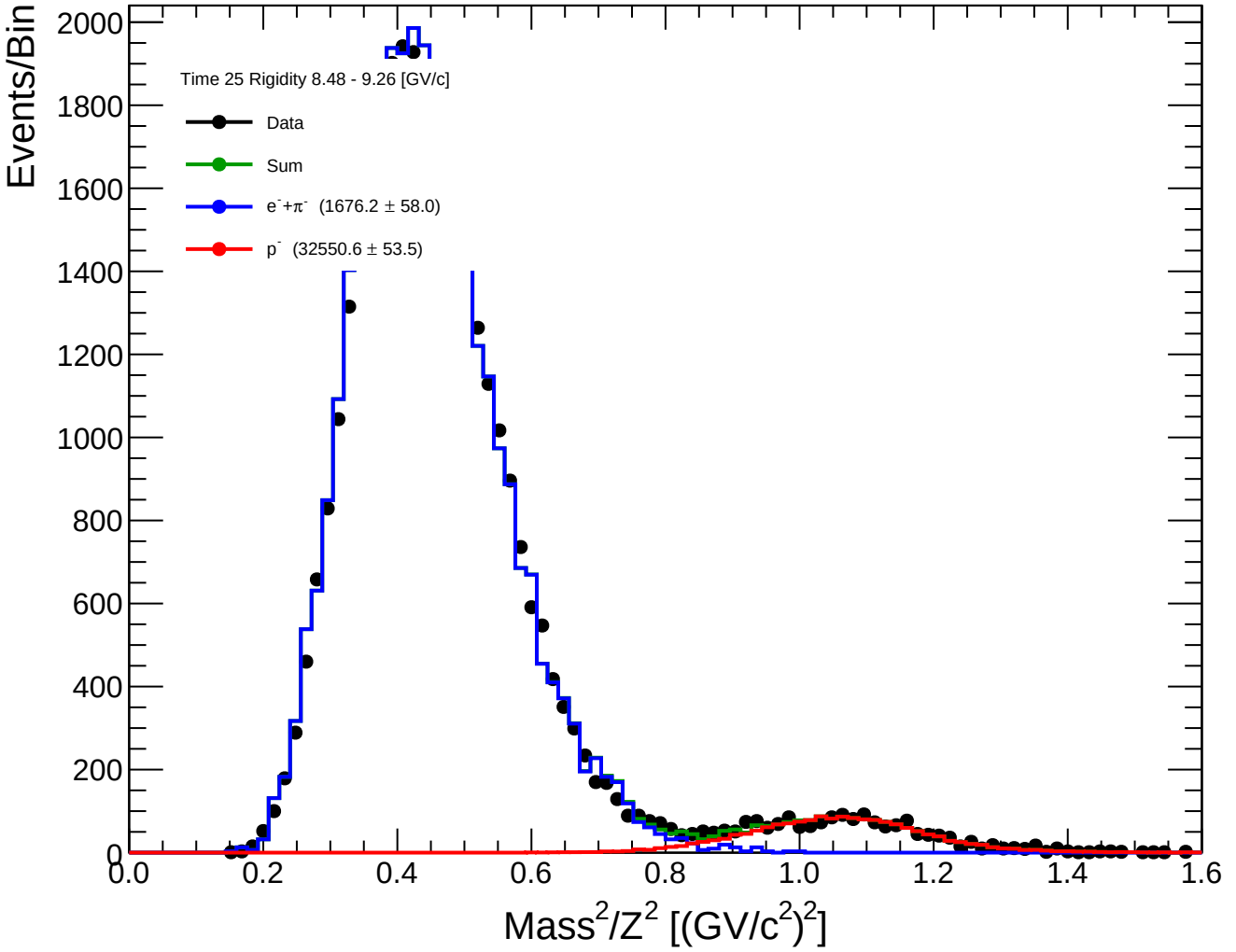

Time 24 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1495.7 ± 41.1)
p⁻ (13225.8 ± 39.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

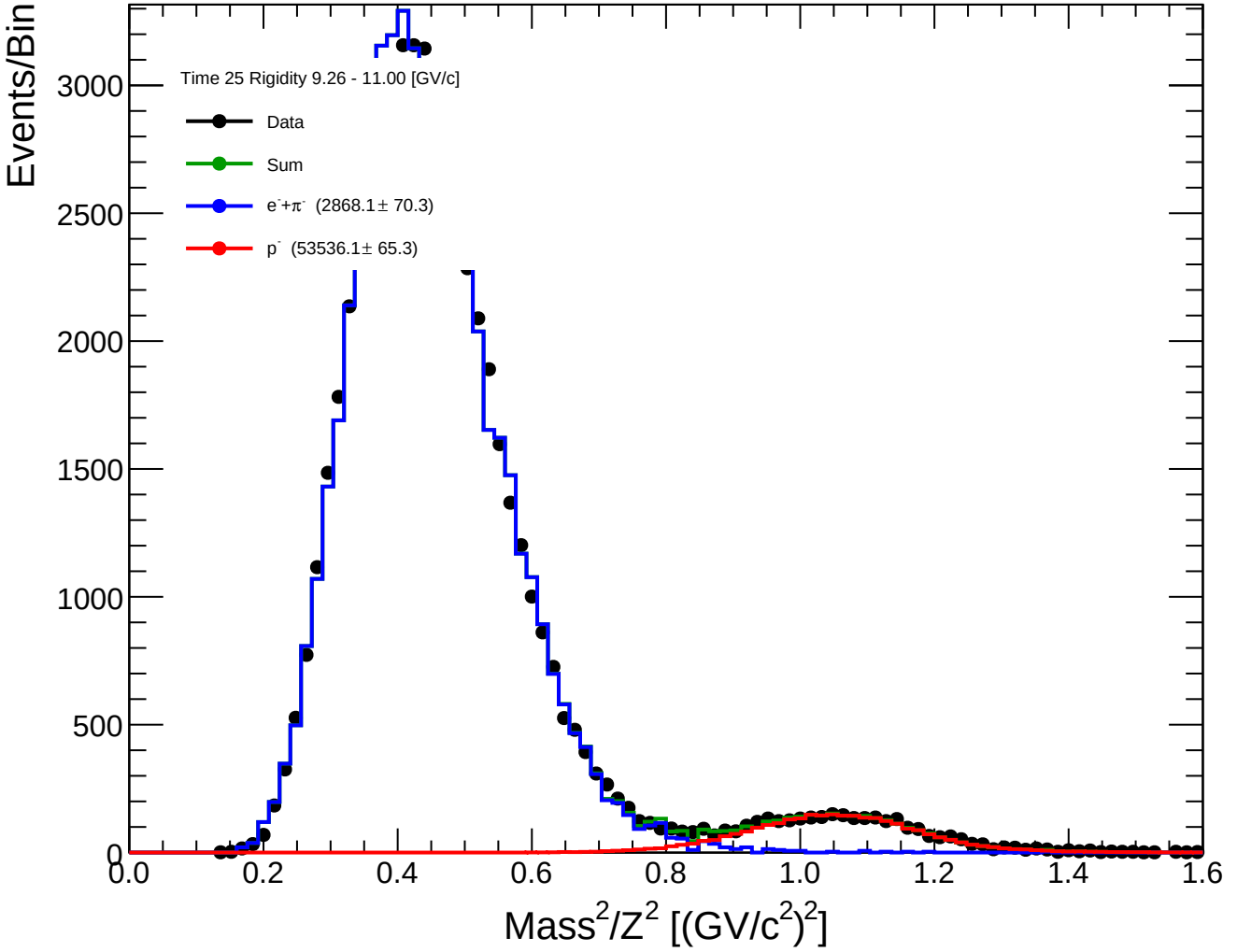

Time 24 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1040.5 ± 43.9)
p⁻ (8575.4 ± 41.7)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

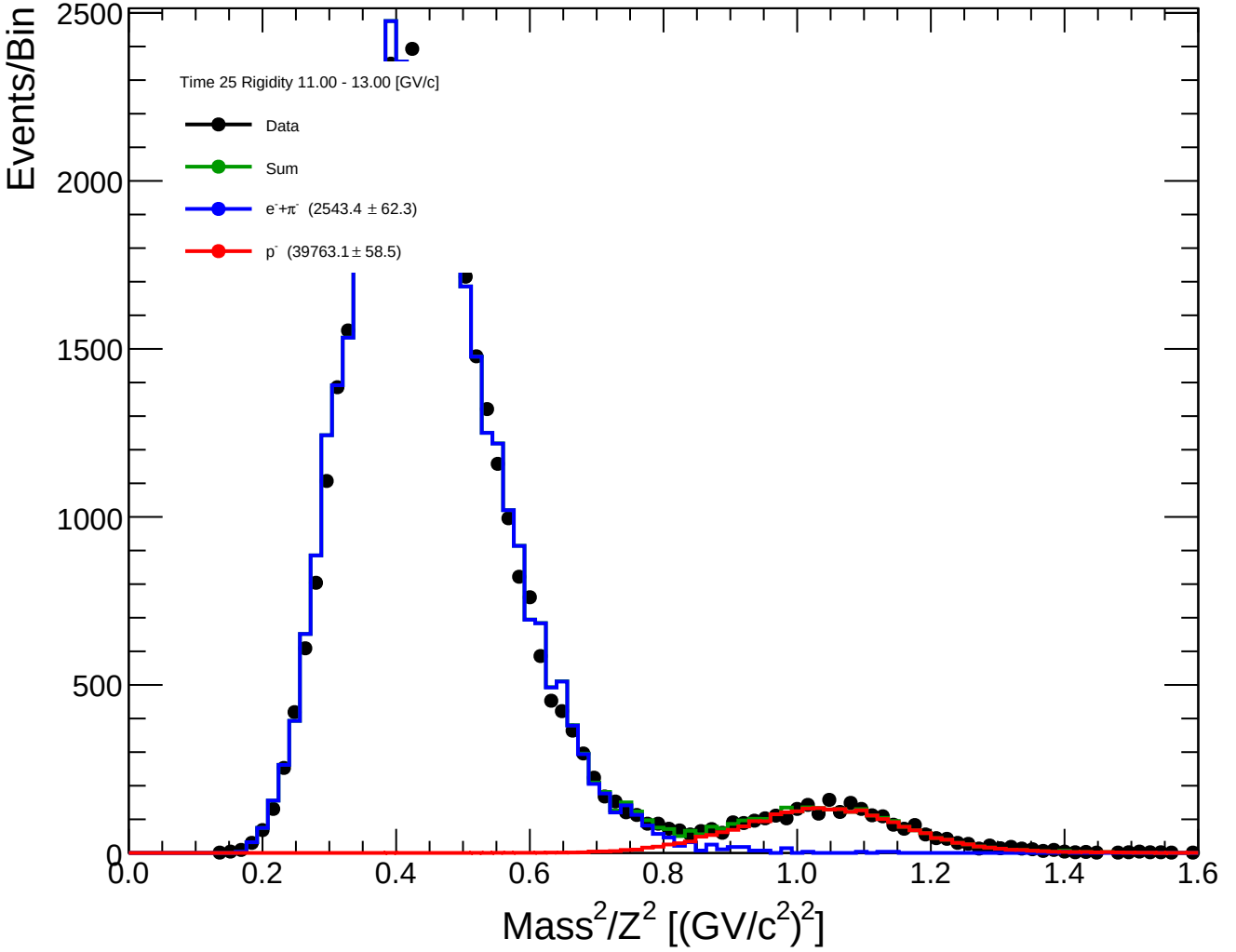

Time 24 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (691.0 ± 35.3)
p⁻ (5407.7 ± 33.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

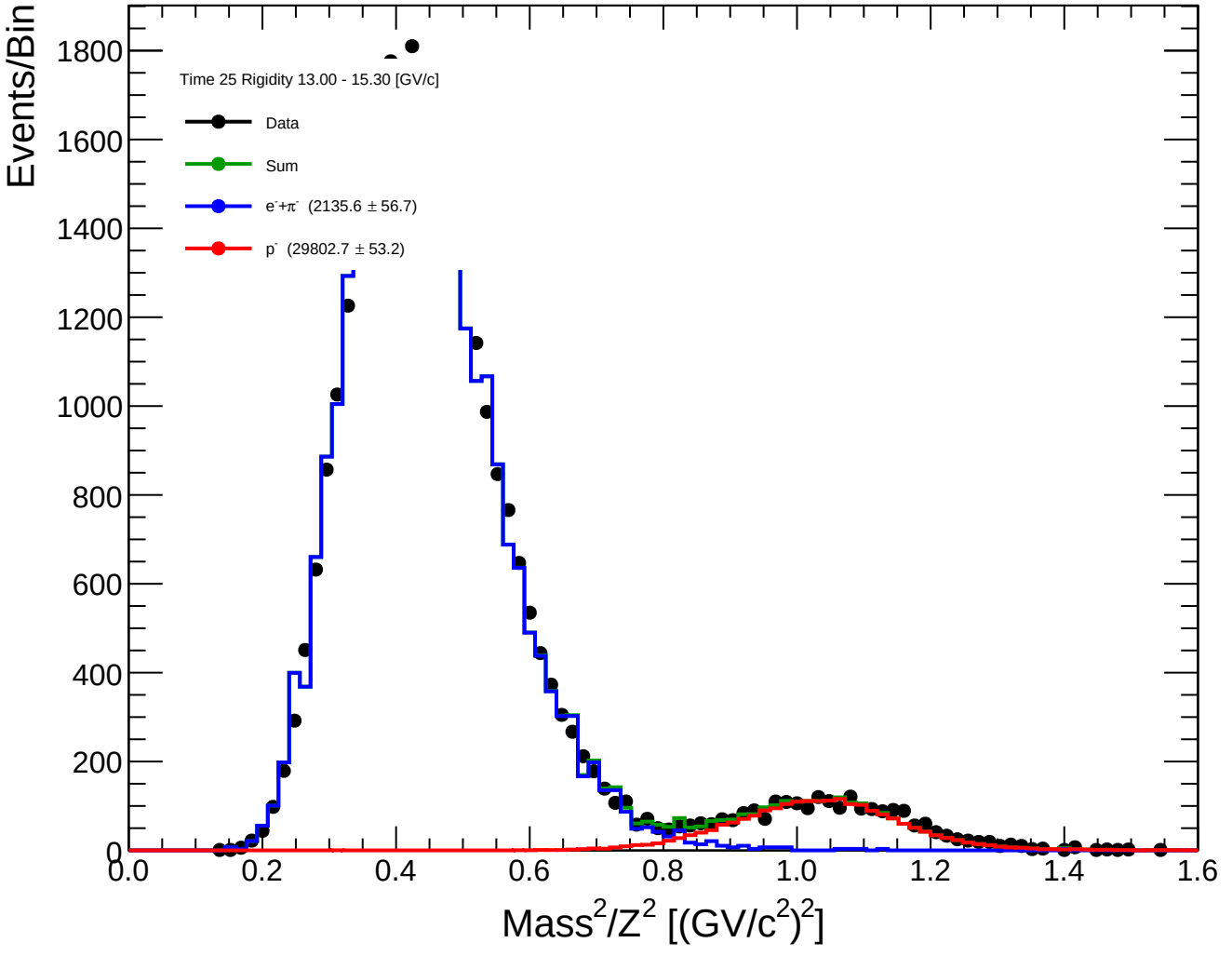

Time 25 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1885.1± 52.8)
p⁻ (36987.7 ± 49.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

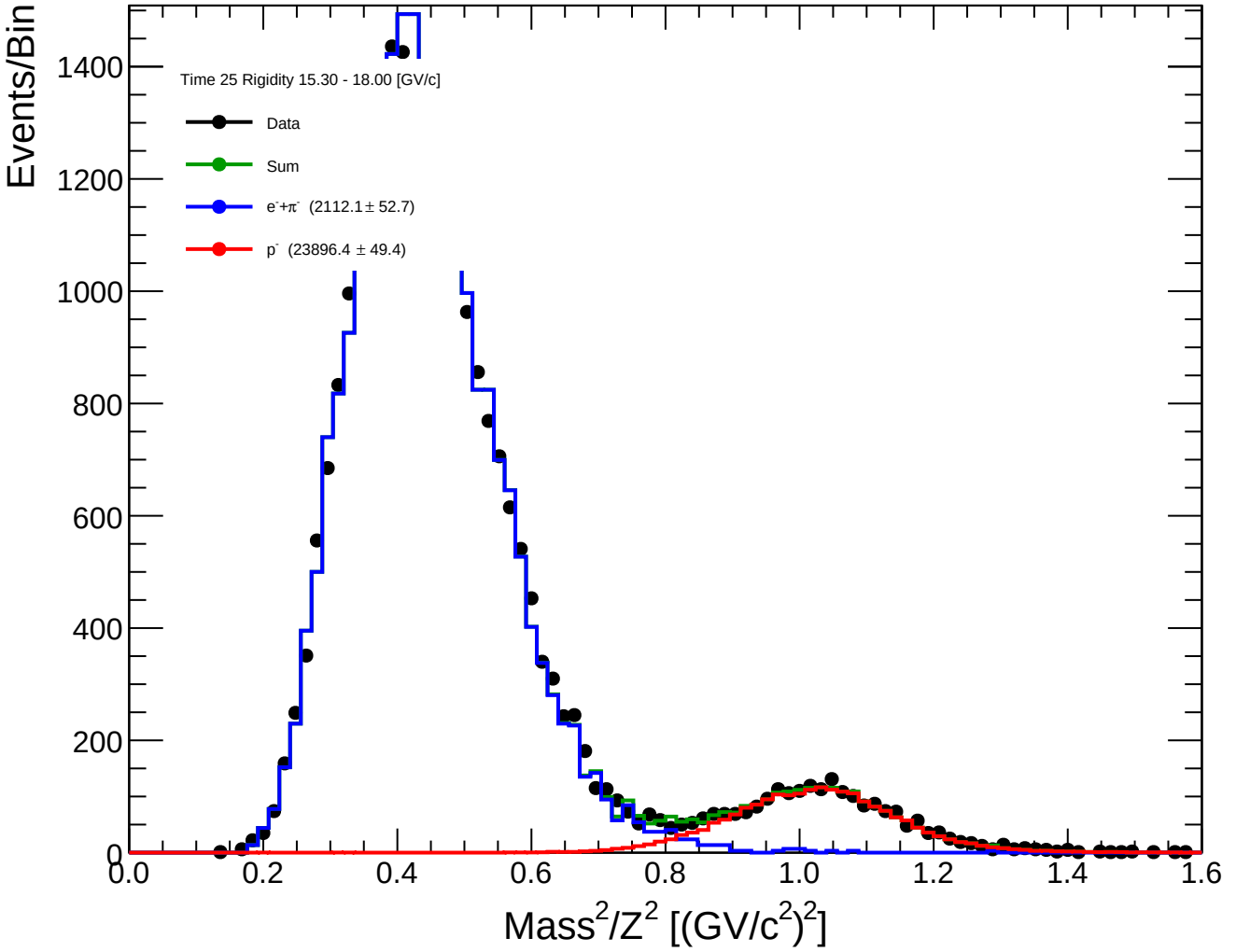

Events/Bin
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass^2/Z^2 [(GV/c^2)^2]
Time 25 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e$^-$+π$^-$ (1812.4 ± 63.5)
p$^-$ (35004.0 ± 58.3)

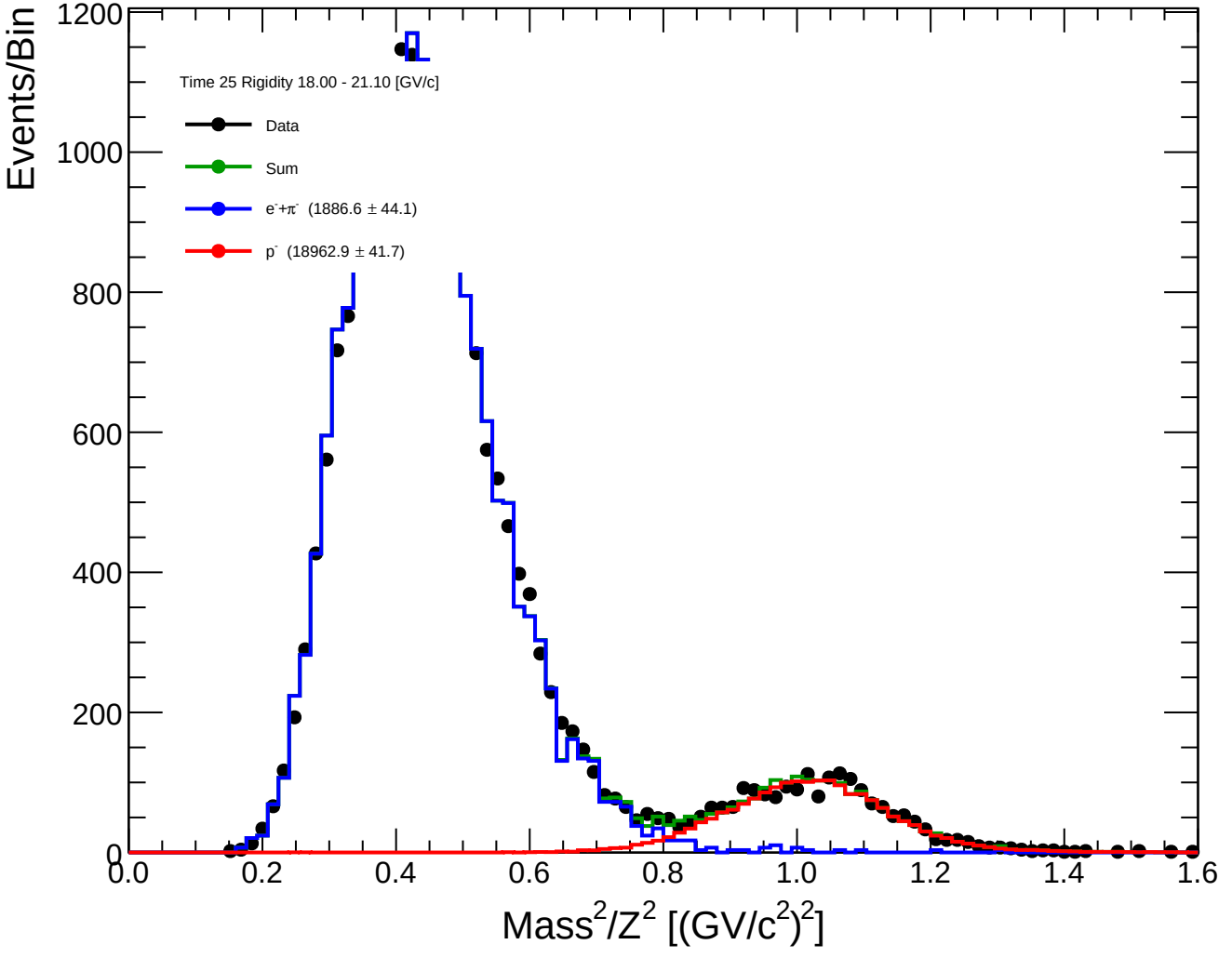

Time 25 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1676.2 ± 58.0)
p⁻ (32550.6 ± 53.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

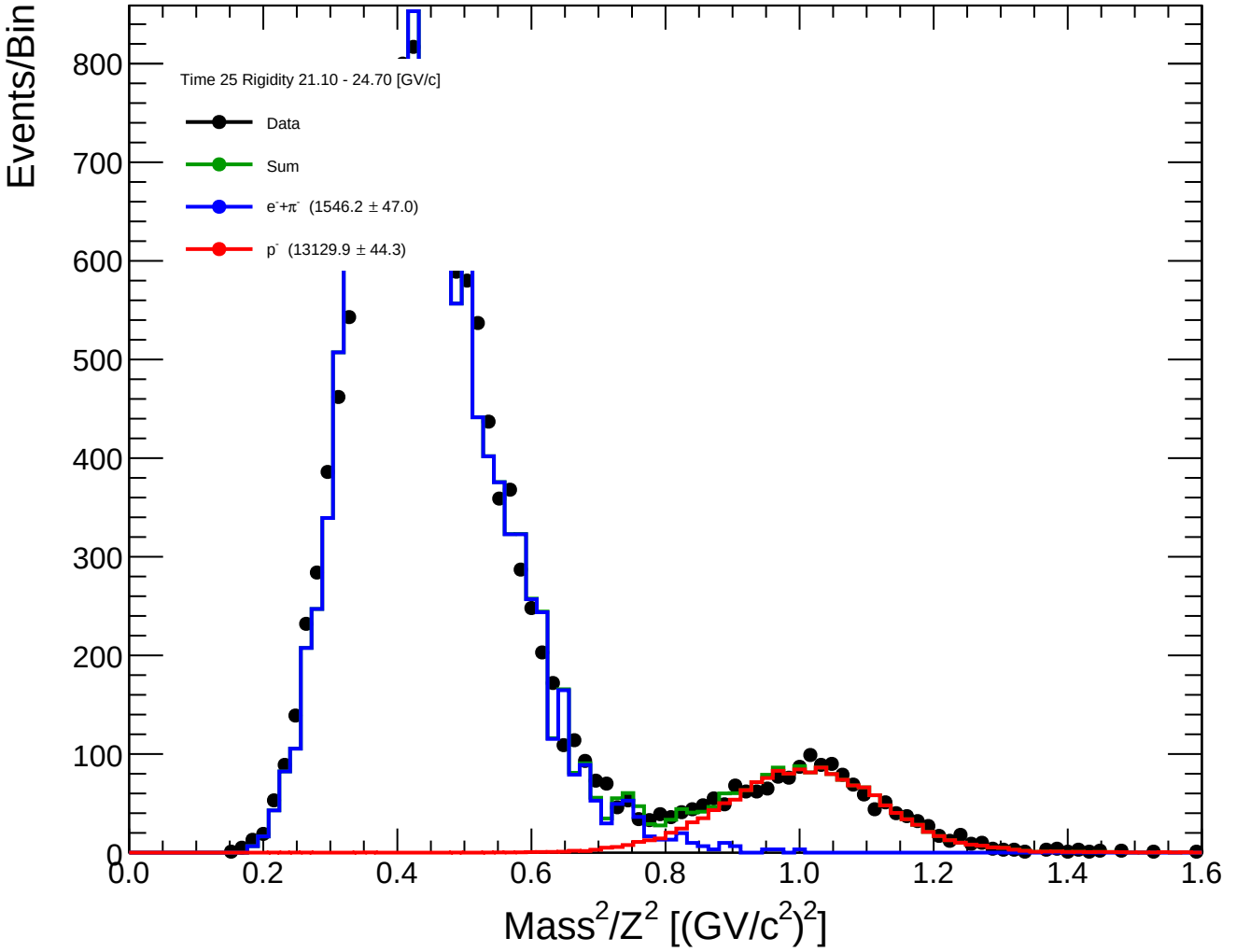

Time 25 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2868.1± 70.3)
p⁻ (53536.1± 65.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

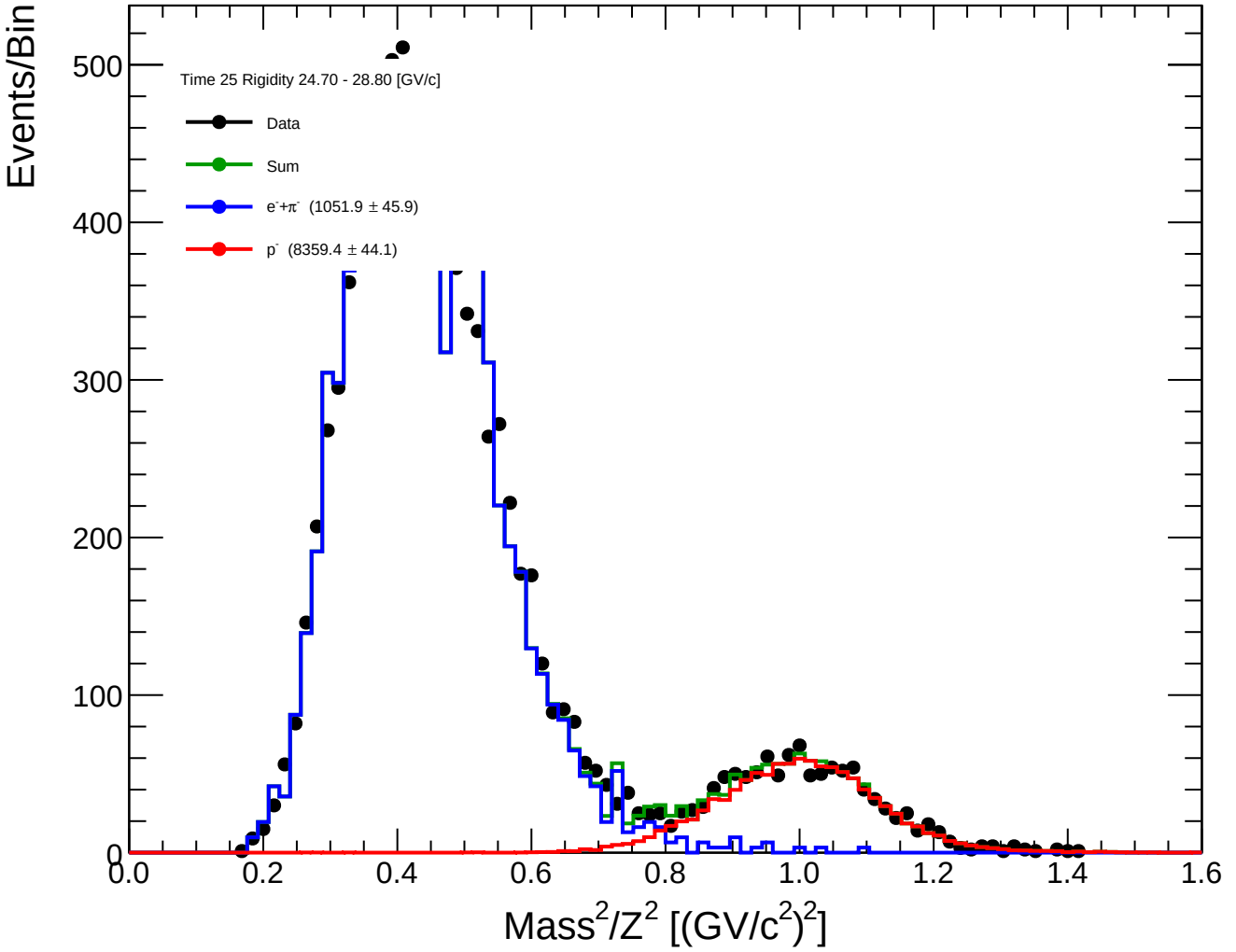

Time 25 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2543.4 ± 62.3)
p⁻ (39763.1 ± 58.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

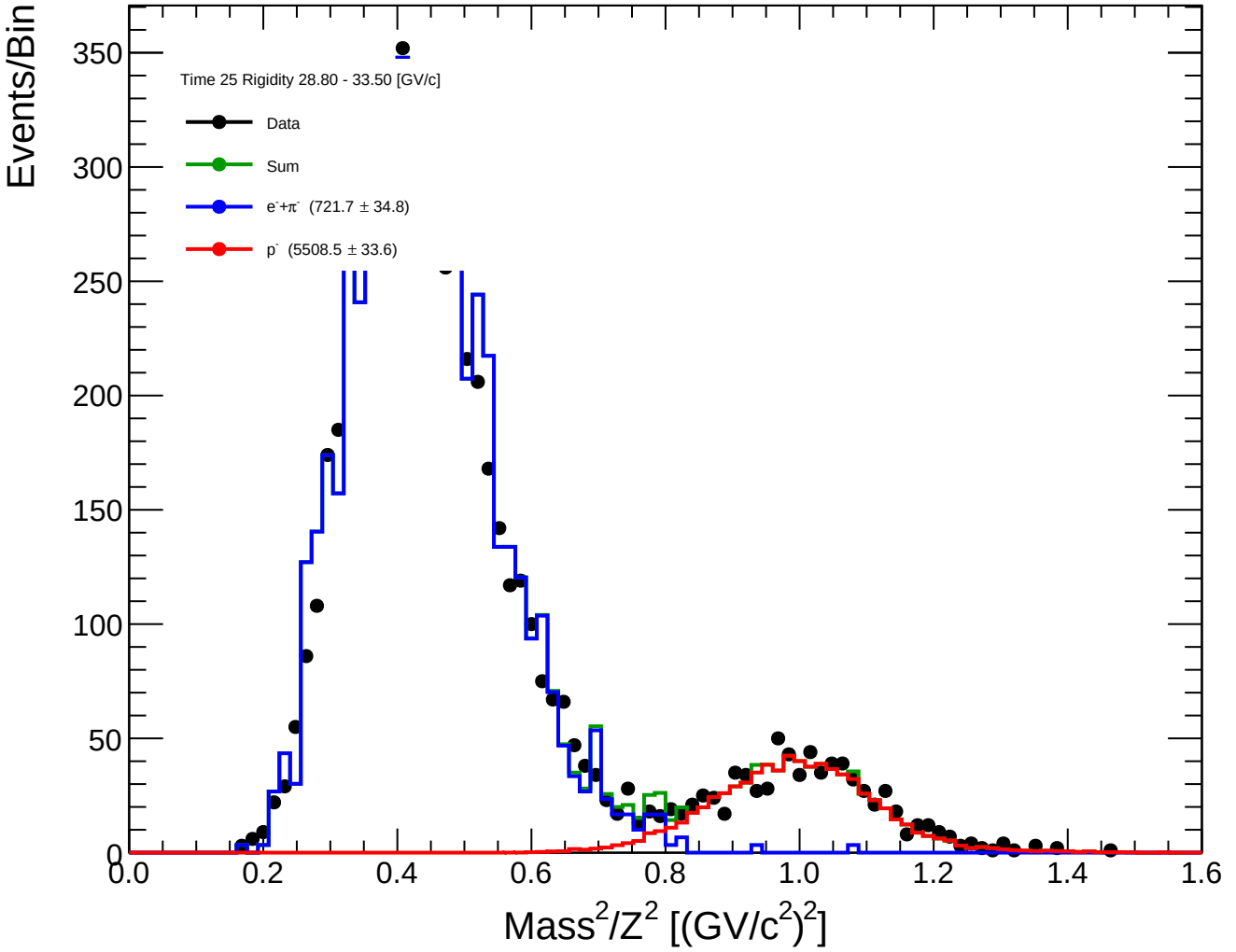

Time 25 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2135.6 ± 56.7)
p⁻ (29802.7 ± 53.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

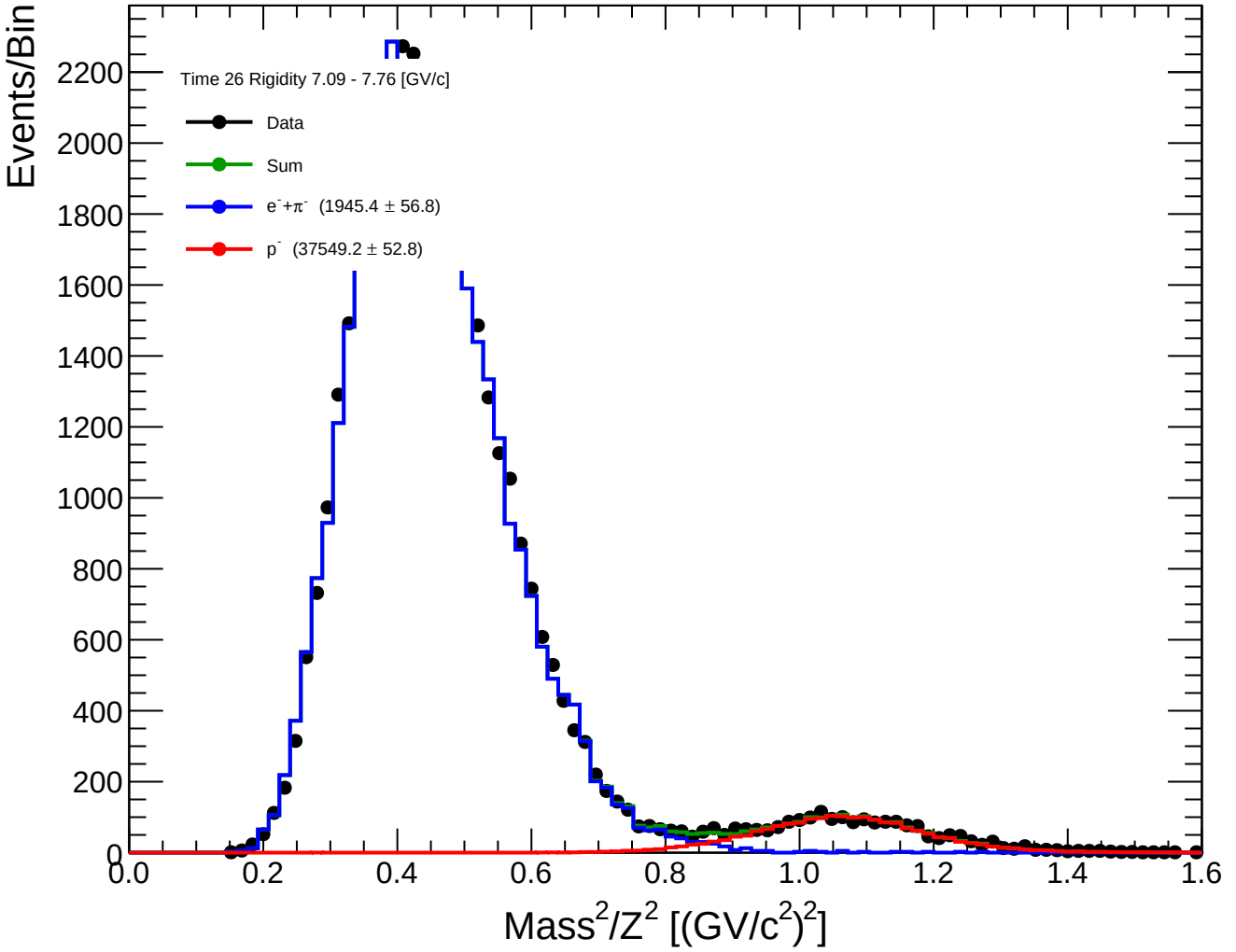

Time 25 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2112.1 ± 52.7)
p⁻ (23896.4 ± 49.4)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

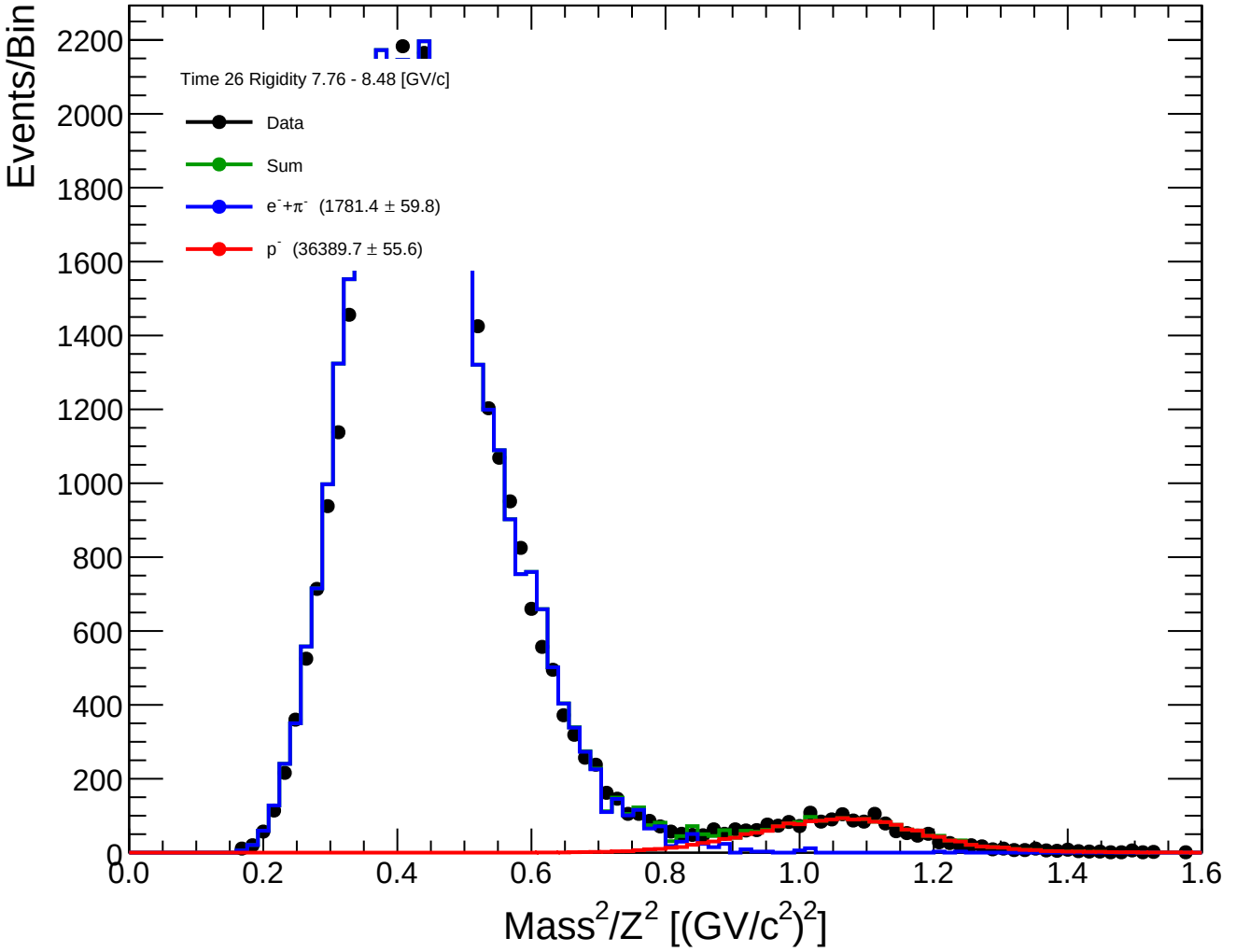

Time 25 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1886.6 ± 44.1)
p⁻ (18962.9 ± 41.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

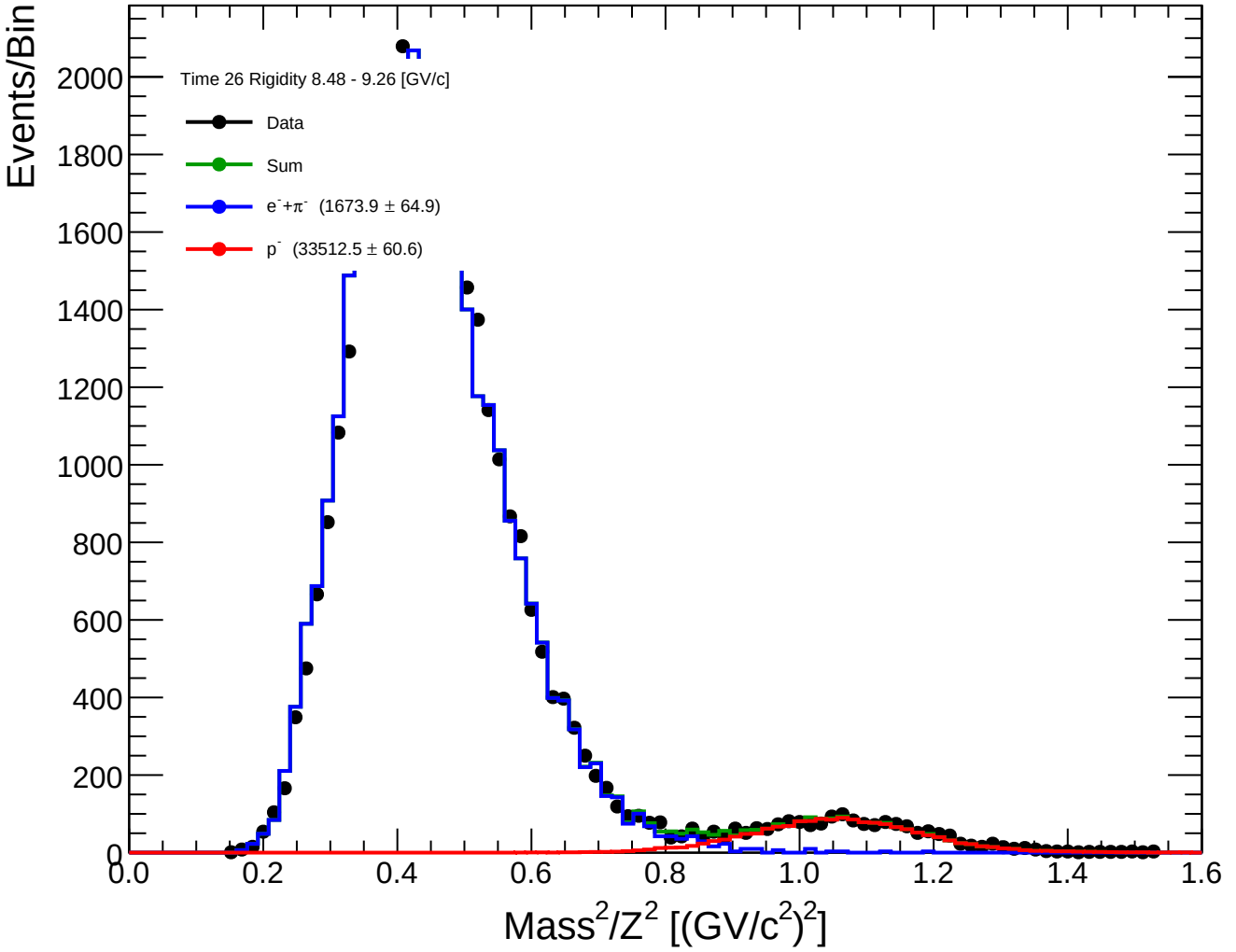

Time 25 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1546.2 ± 47.0)
p⁻ (13129.9 ± 44.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

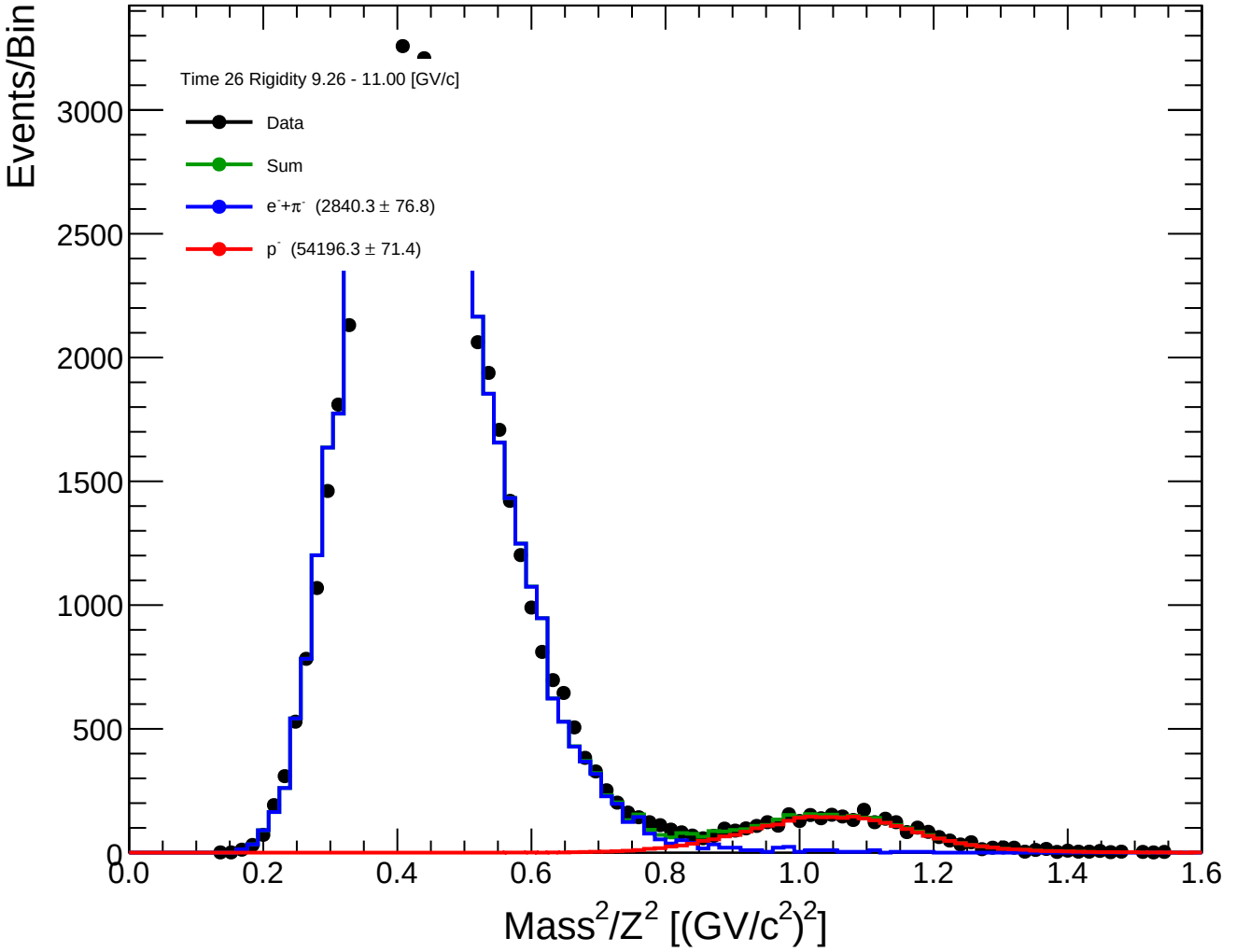

Time 25 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1051.9 ± 45.9)
p⁻ (8359.4 ± 44.1)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

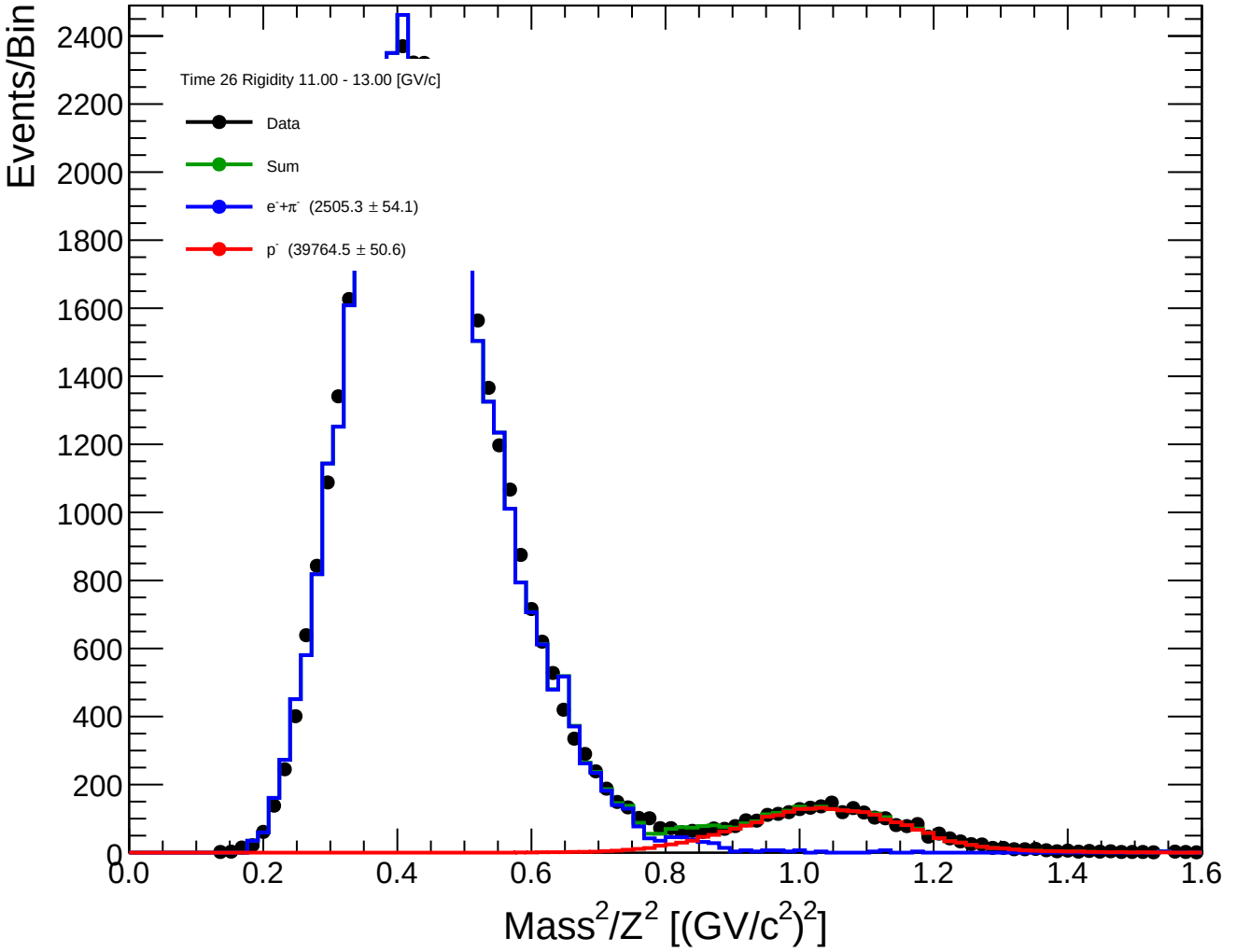

Time 25 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (721.7 ± 34.8)
p⁻ (5508.5 ± 33.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

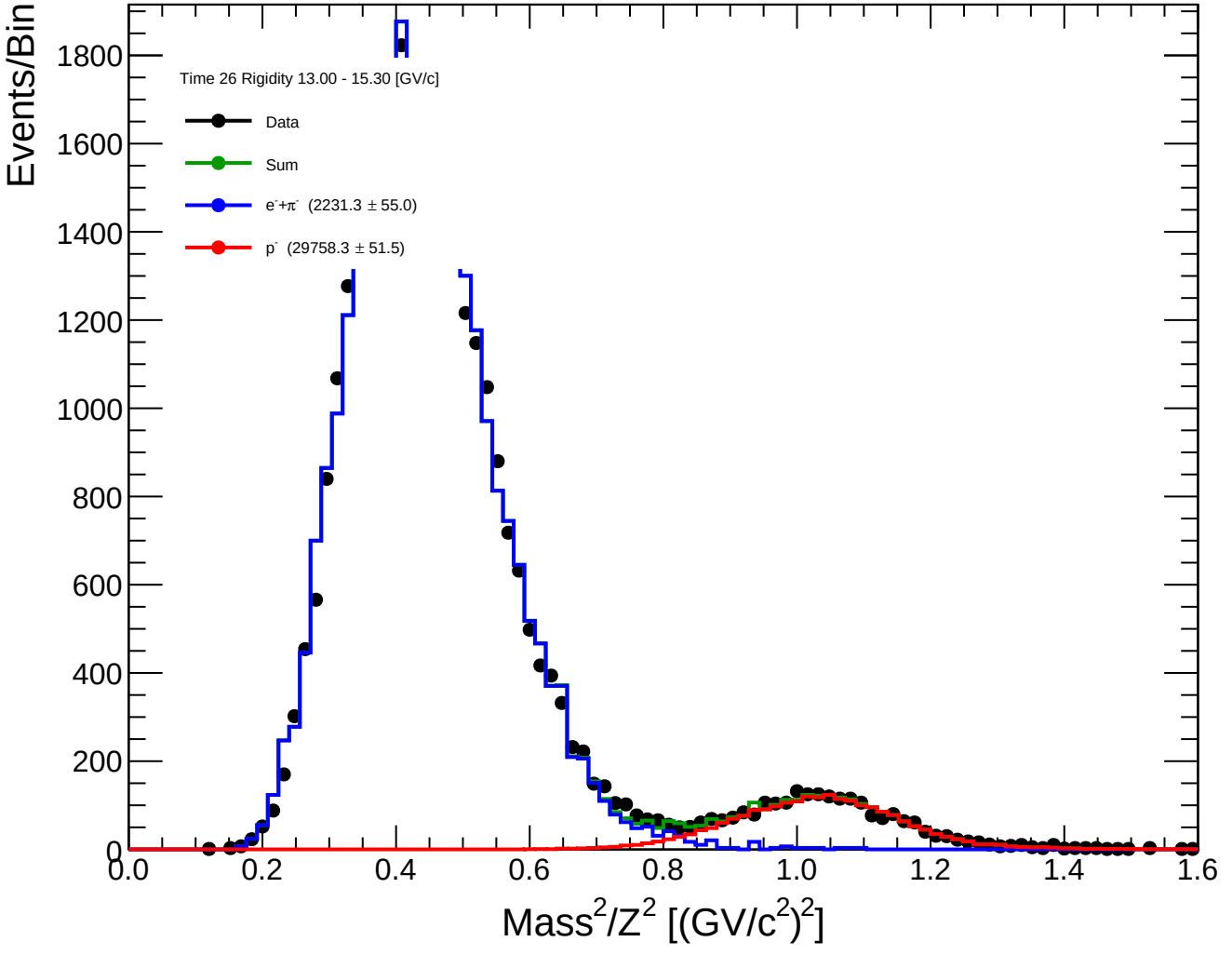

Time 26 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1945.4 ± 56.8)
p⁻ (37549.2 ± 52.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

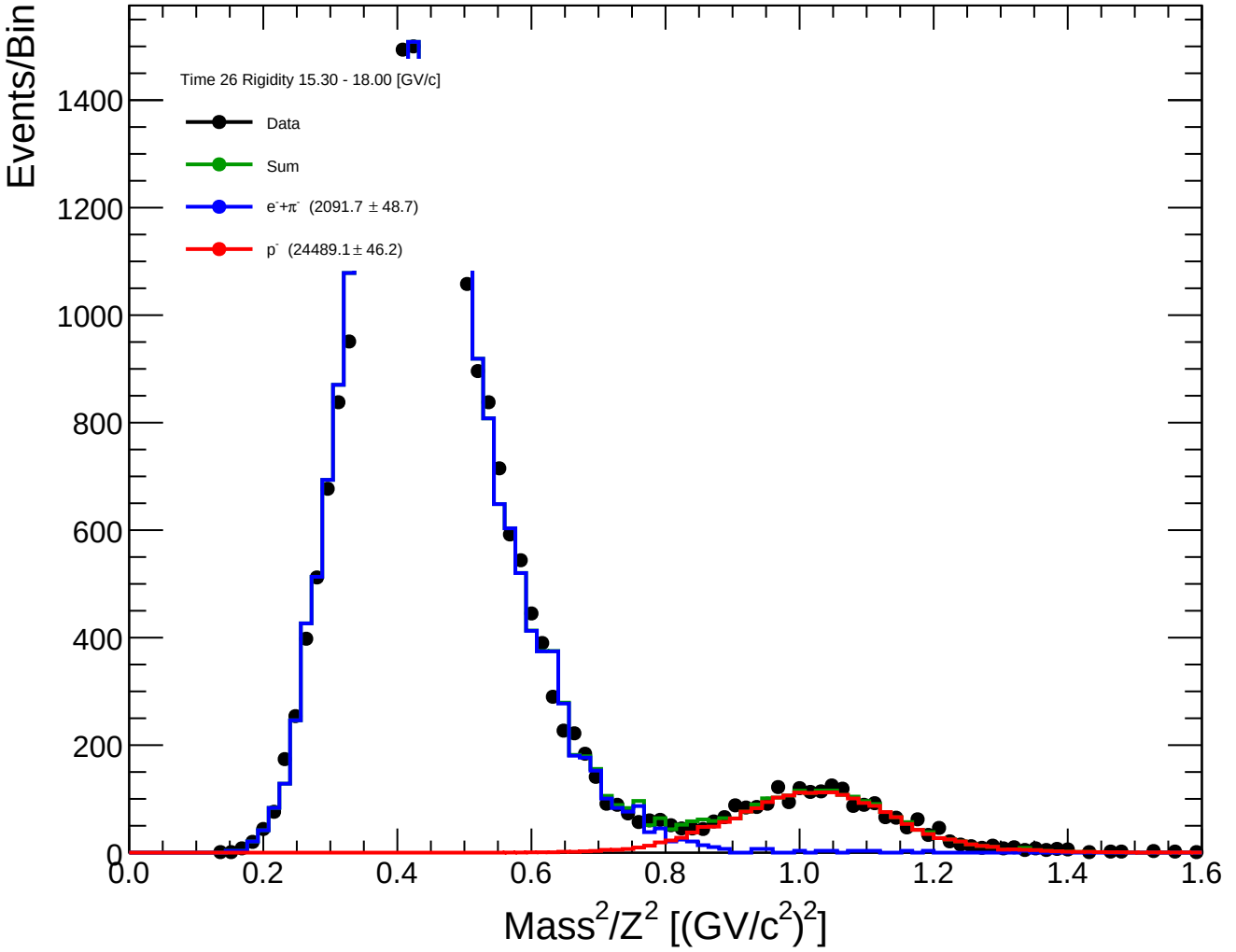

Time 26 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1781.4 ± 59.8)
p⁻ (36389.7 ± 55.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

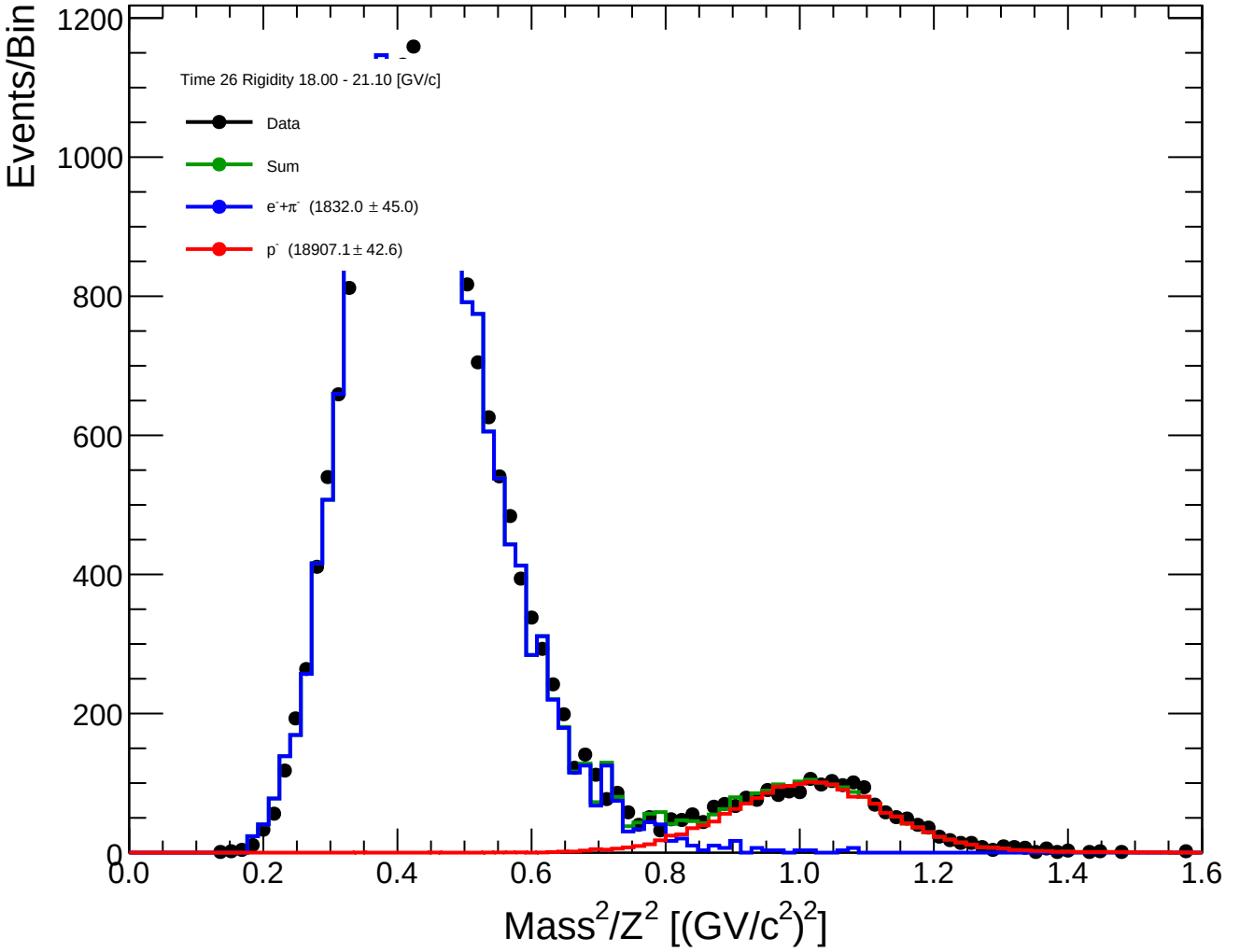

Time 26 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1673.9 ± 64.9)
p⁻ (33512.5 ± 60.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

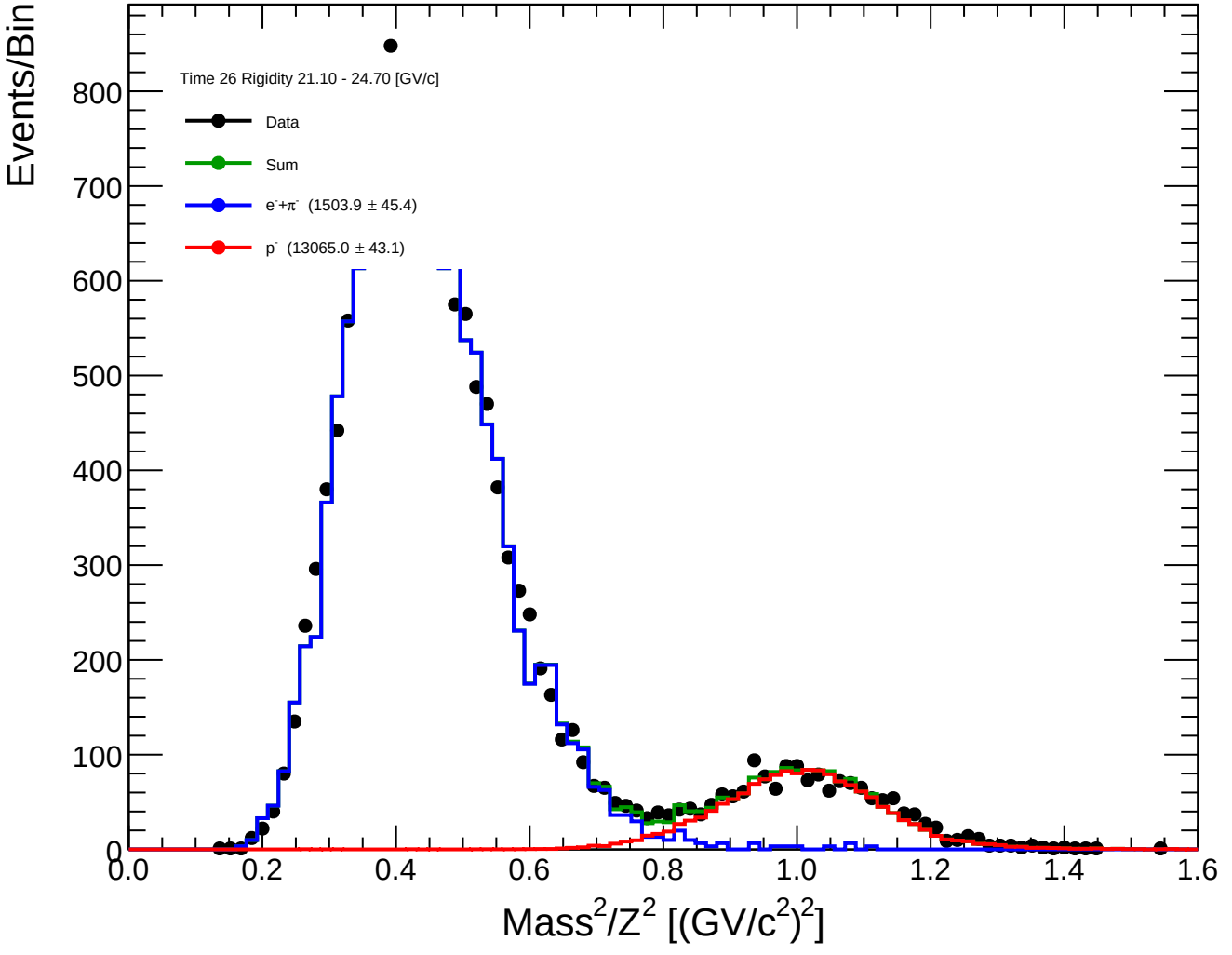

Time 26 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2840.3 ± 76.8)
p⁻ (54196.3 ± 71.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

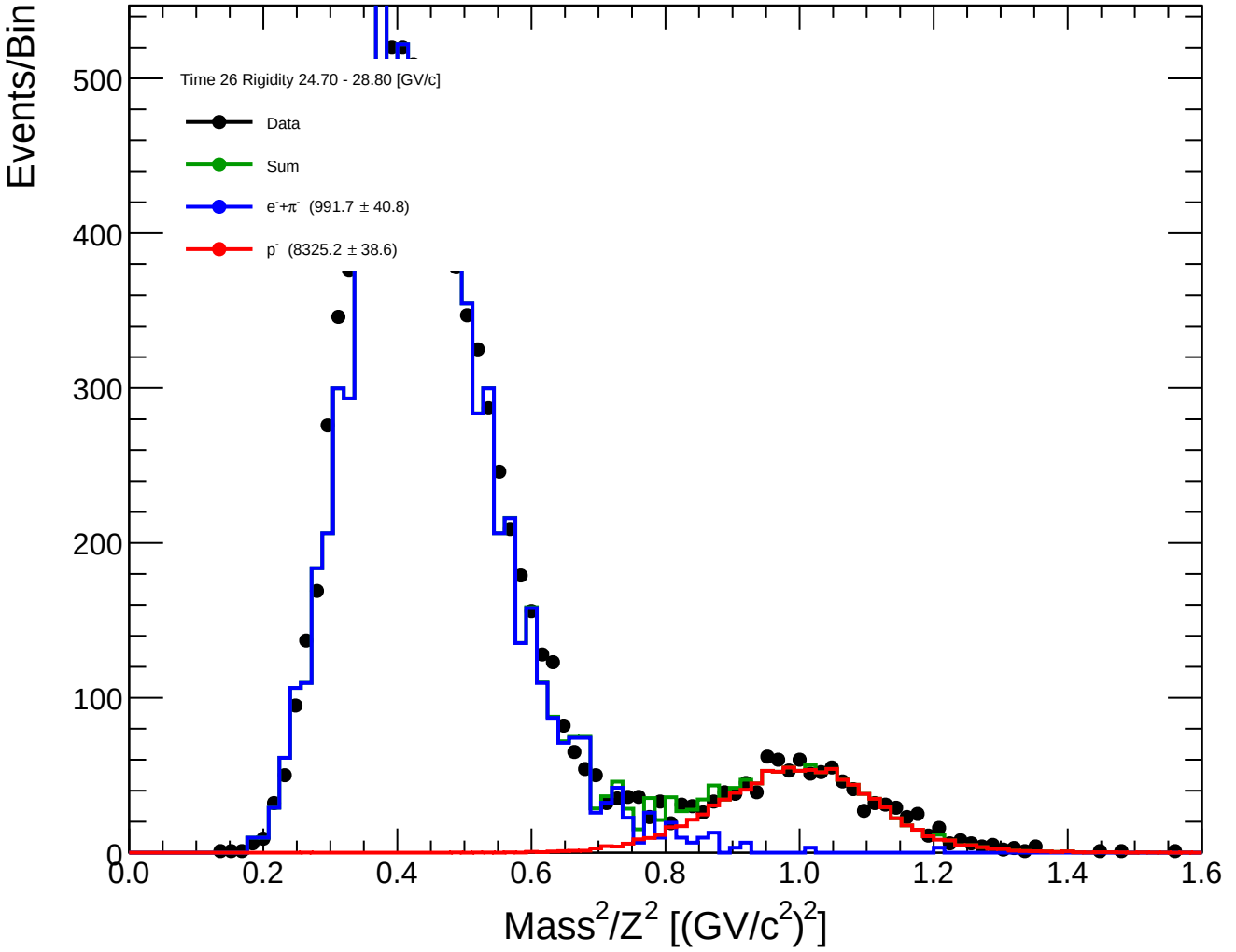

Time 26 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2505.3 ± 54.1)
p⁻ (39764.5 ± 50.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

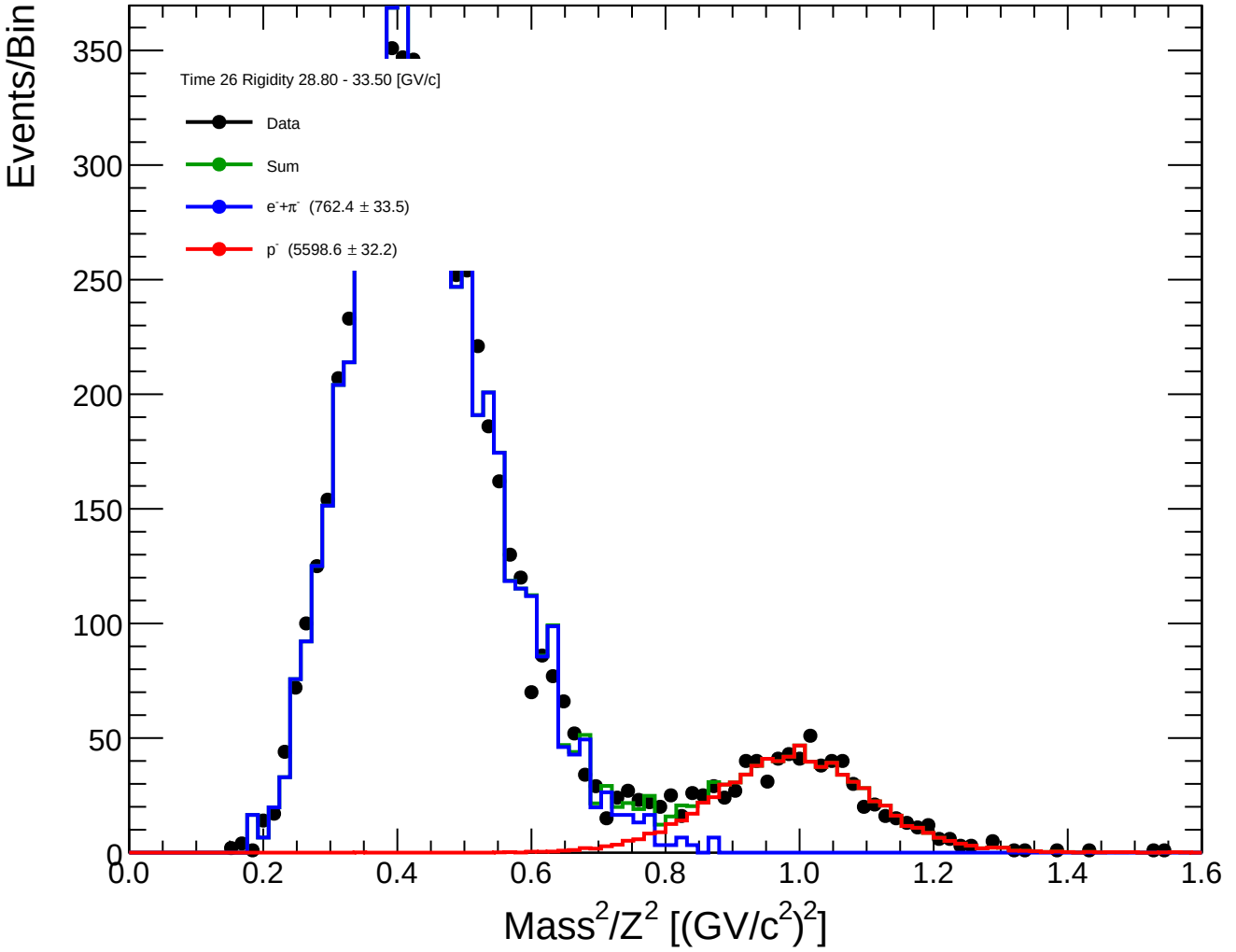

Time 26 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2231.3 ± 55.0)
p⁻ (29758.3 ± 51.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

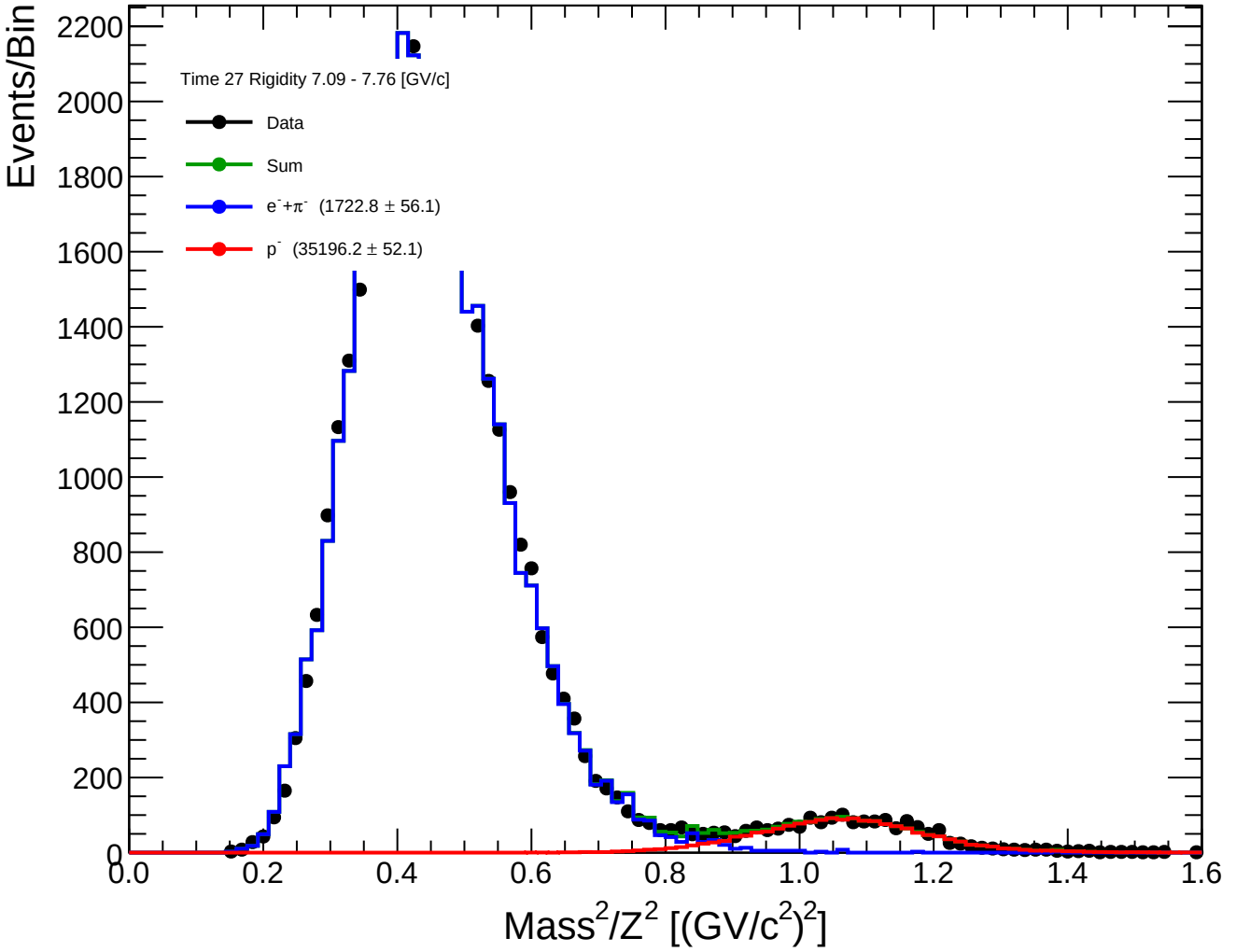

Time 26 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2091.7 ± 48.7)
p⁻ (24489.1 ± 46.2)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

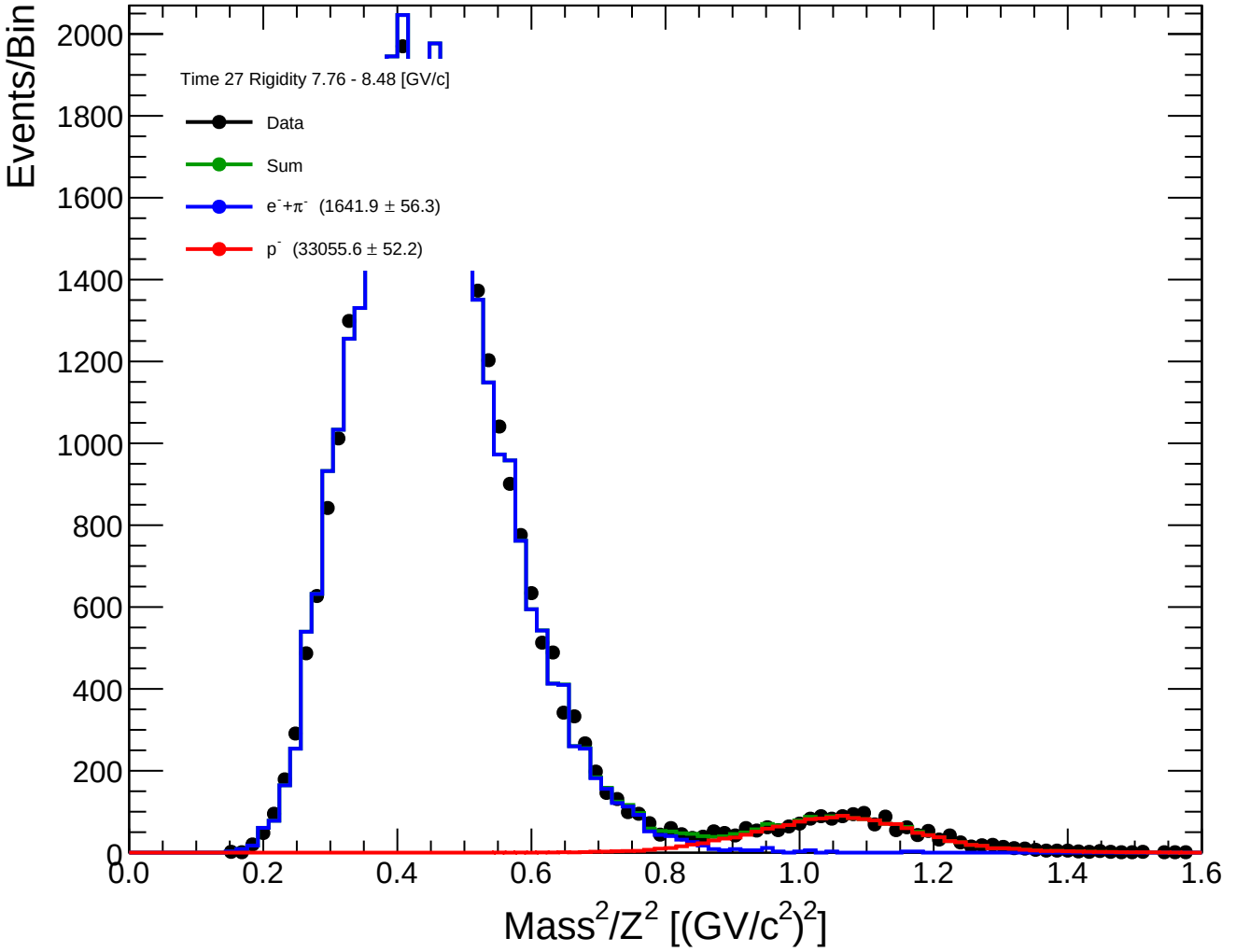

Time 26 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1832.0 ± 45.0)
p⁻ (18907.1 ± 42.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

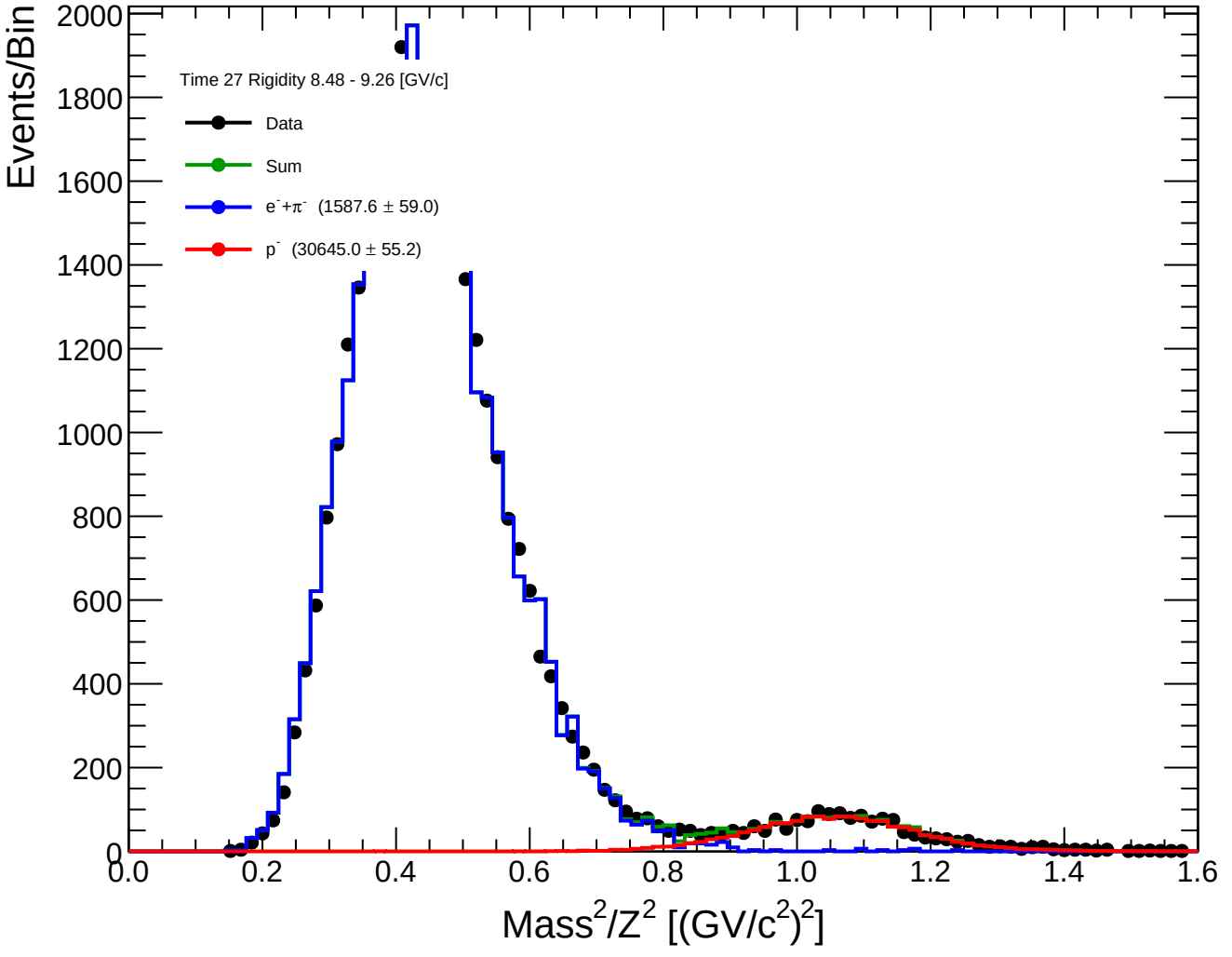

Time 26 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1503.9 ± 45.4)
p⁻ (13065.0 ± 43.1)
Events/Bin
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

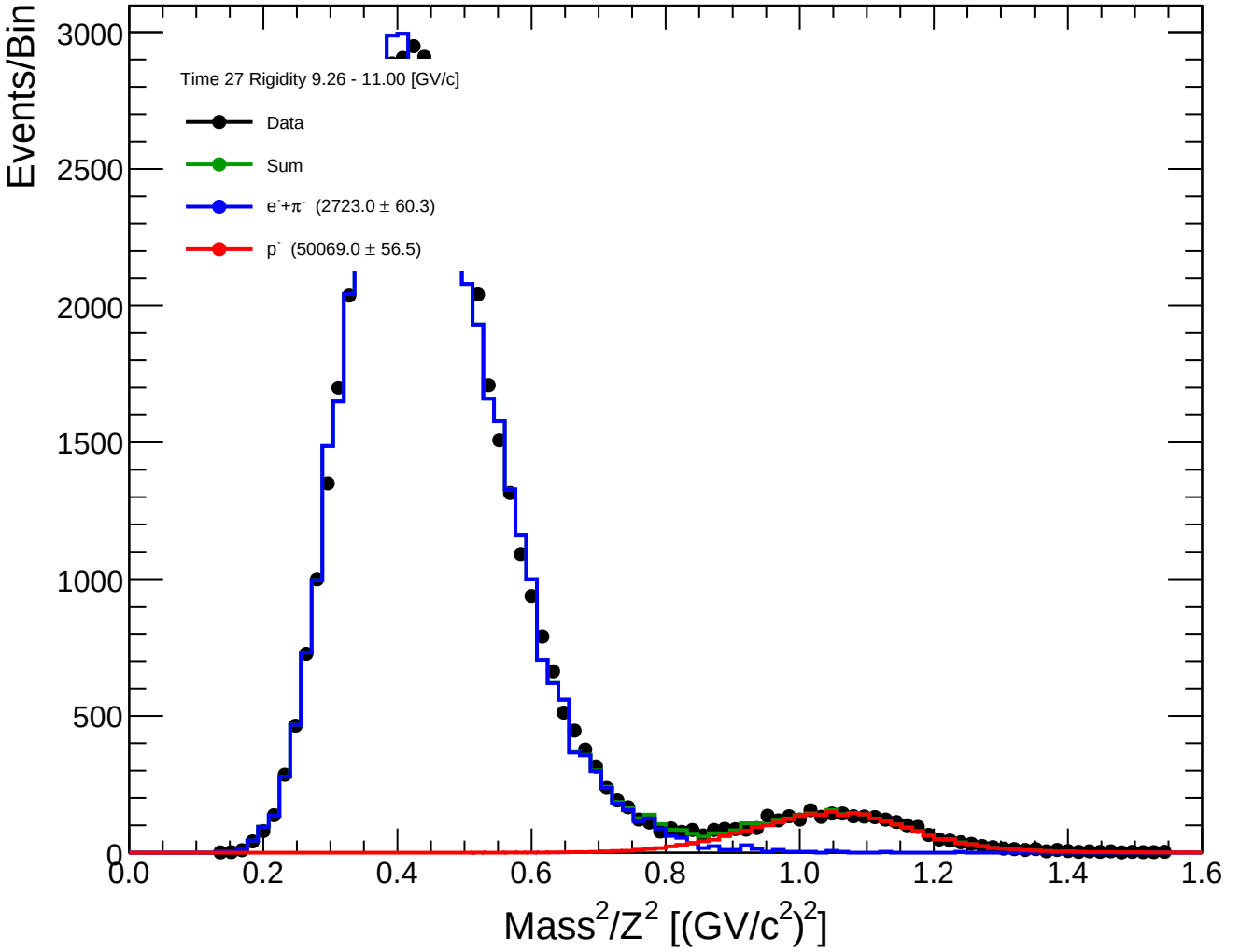

Time 26 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (991.7 ± 40.8)
p⁻ (8325.2 ± 38.6)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

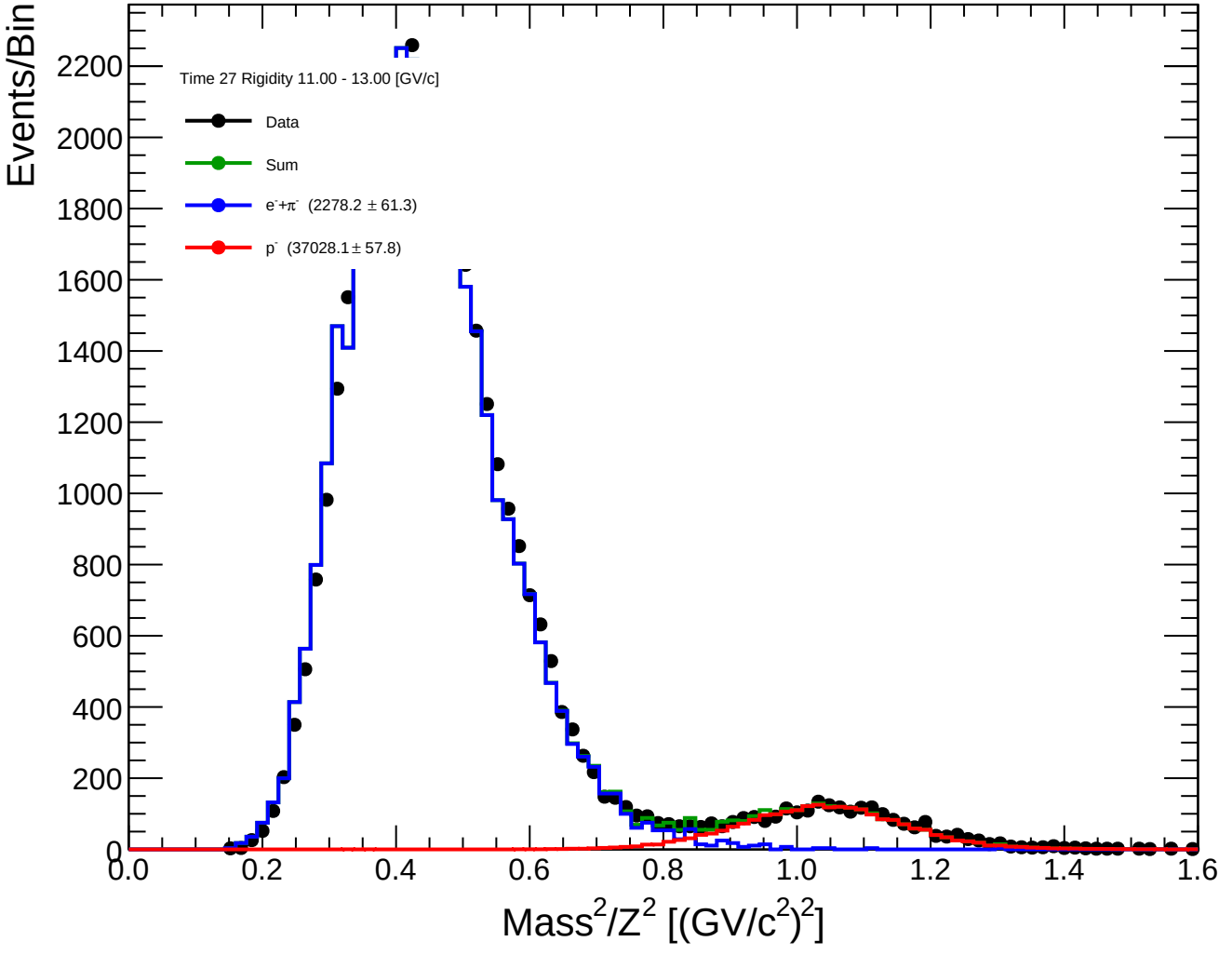

Time 26 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (762.4 ± 33.5)
p⁻ (5598.6 ± 32.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

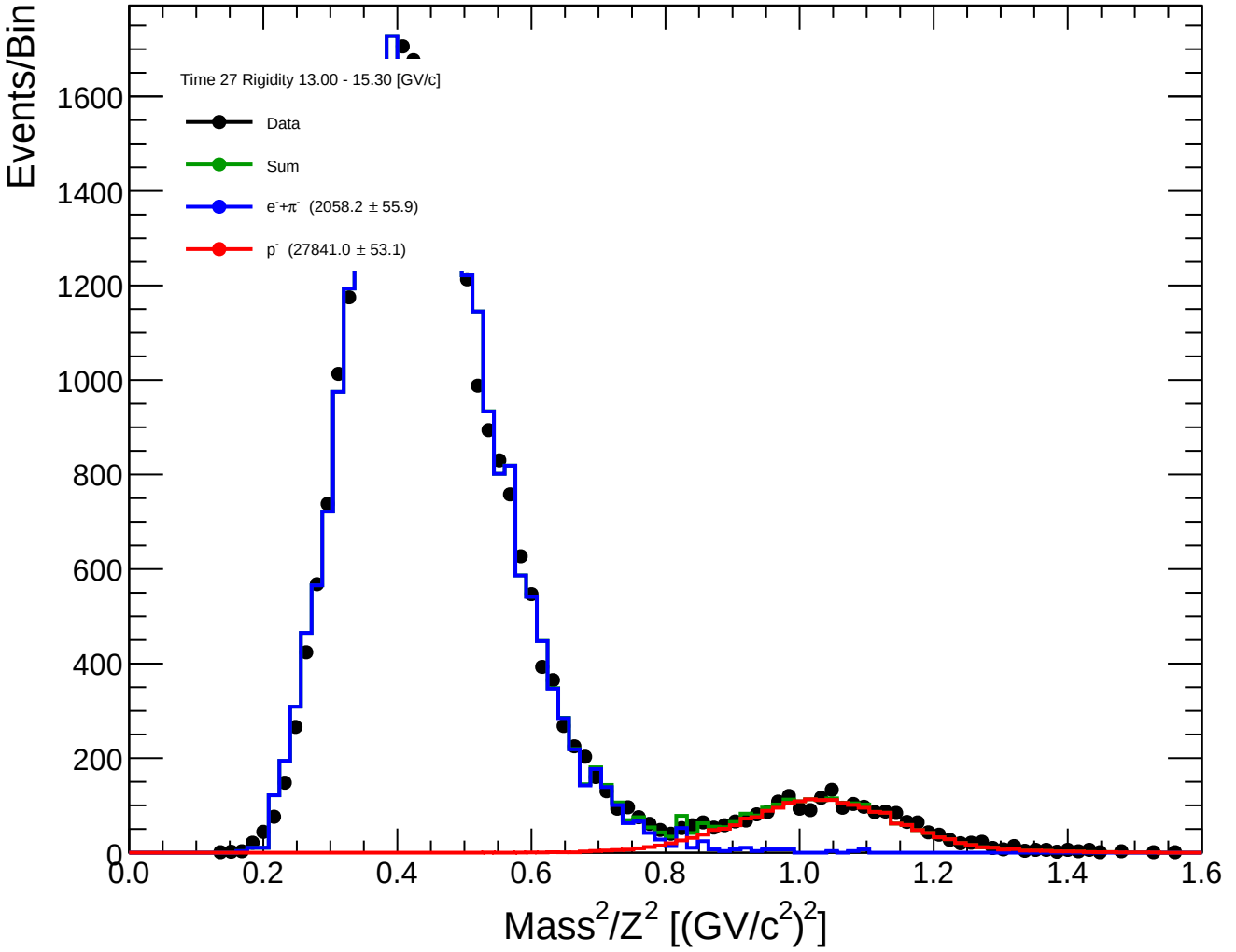

Time 27 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1722.8 ± 56.1)
p⁻ (35196.2 ± 52.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

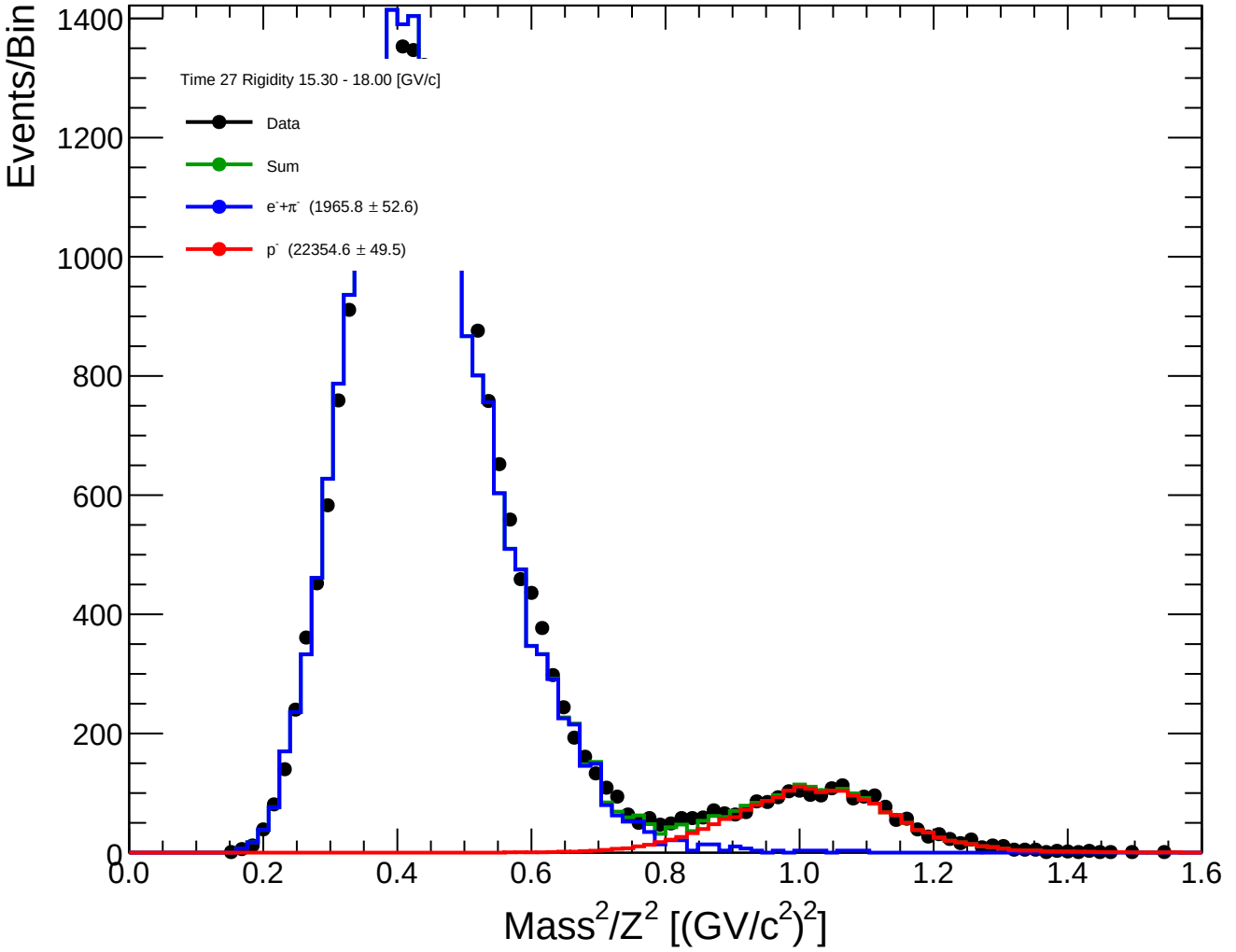

Events/Bin
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Time 27 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1641.9 ± 56.3)
p⁻ (33055.6 ± 52.2)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

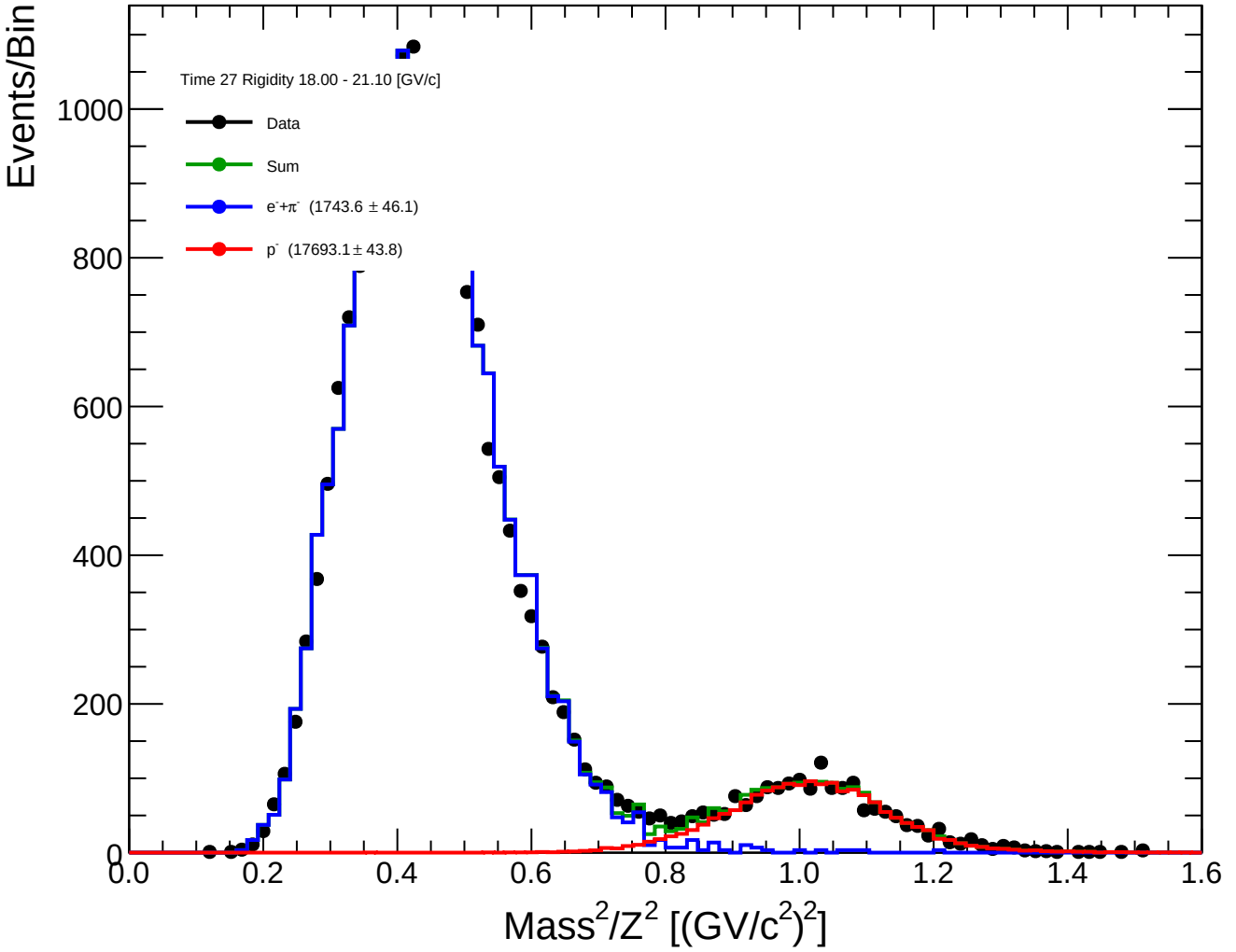

Time 27 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1587.6 ± 59.0)
p⁻ (30645.0 ± 55.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

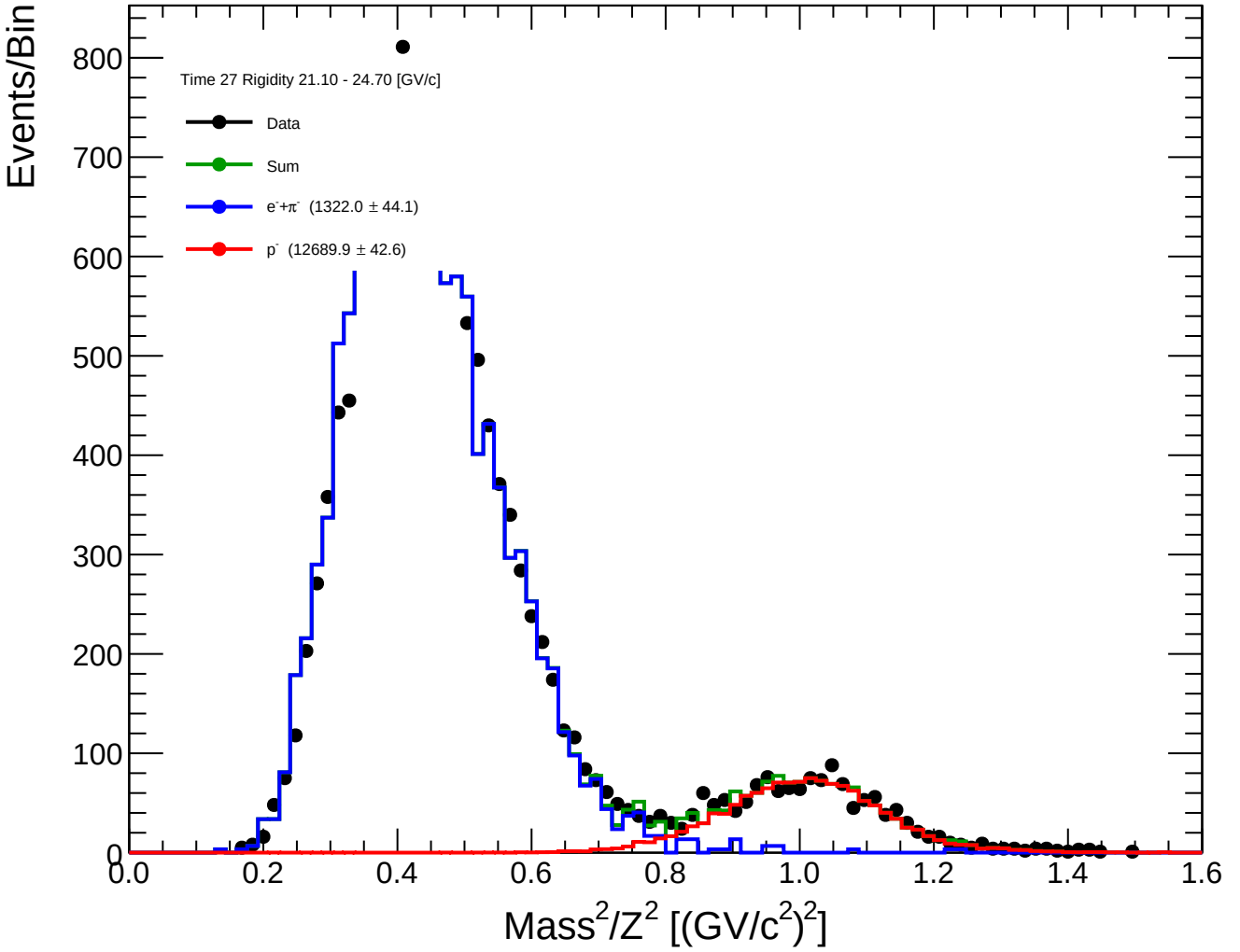

Time 27 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2723.0 ± 60.3)
p⁻ (50069.0 ± 56.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

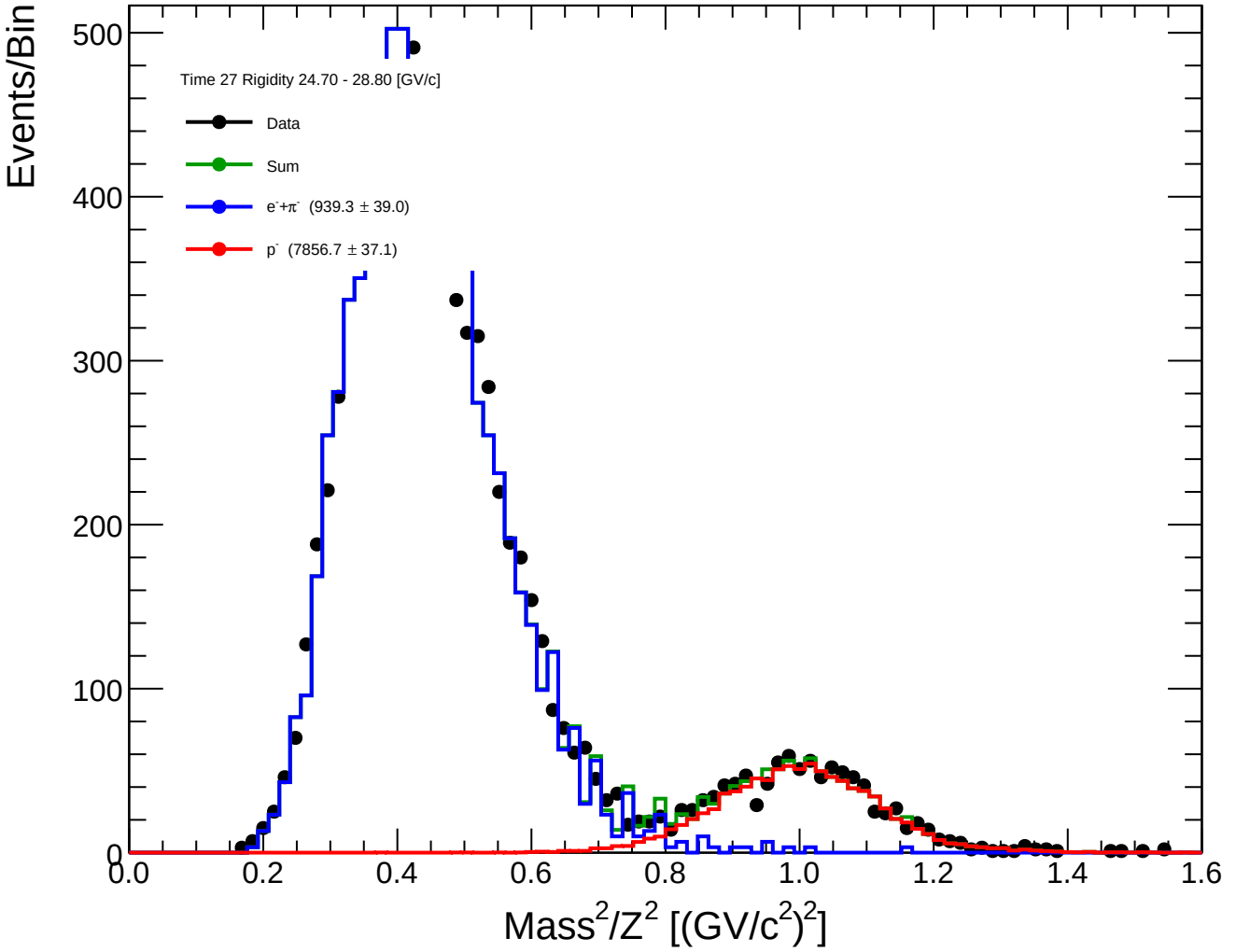

Time 27 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2278.2 ± 61.3)
p⁻ (37028.1 ± 57.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

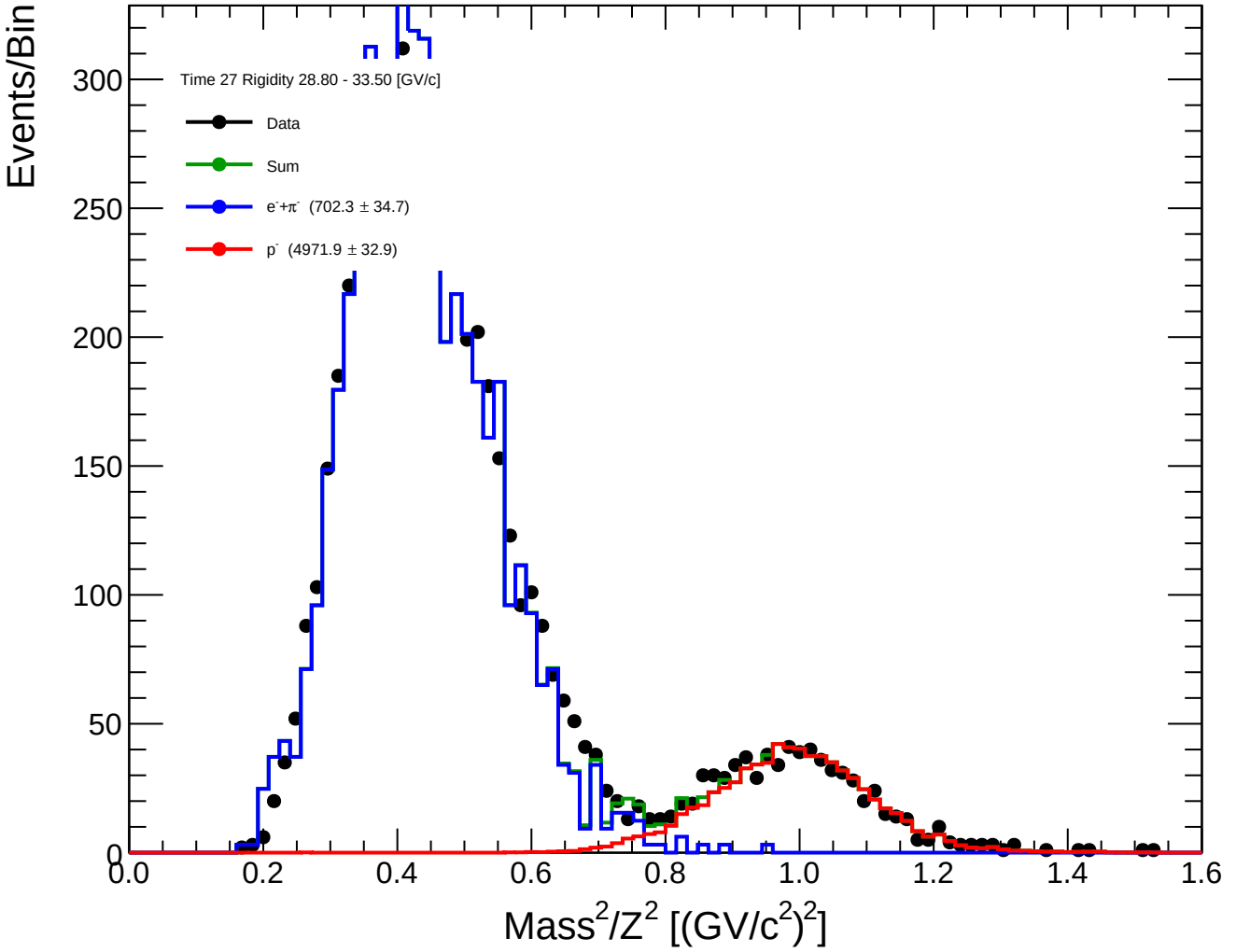

Time 27 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2058.2 ± 55.9)
p⁻ (27841.0 ± 53.1)
Events/Bin
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

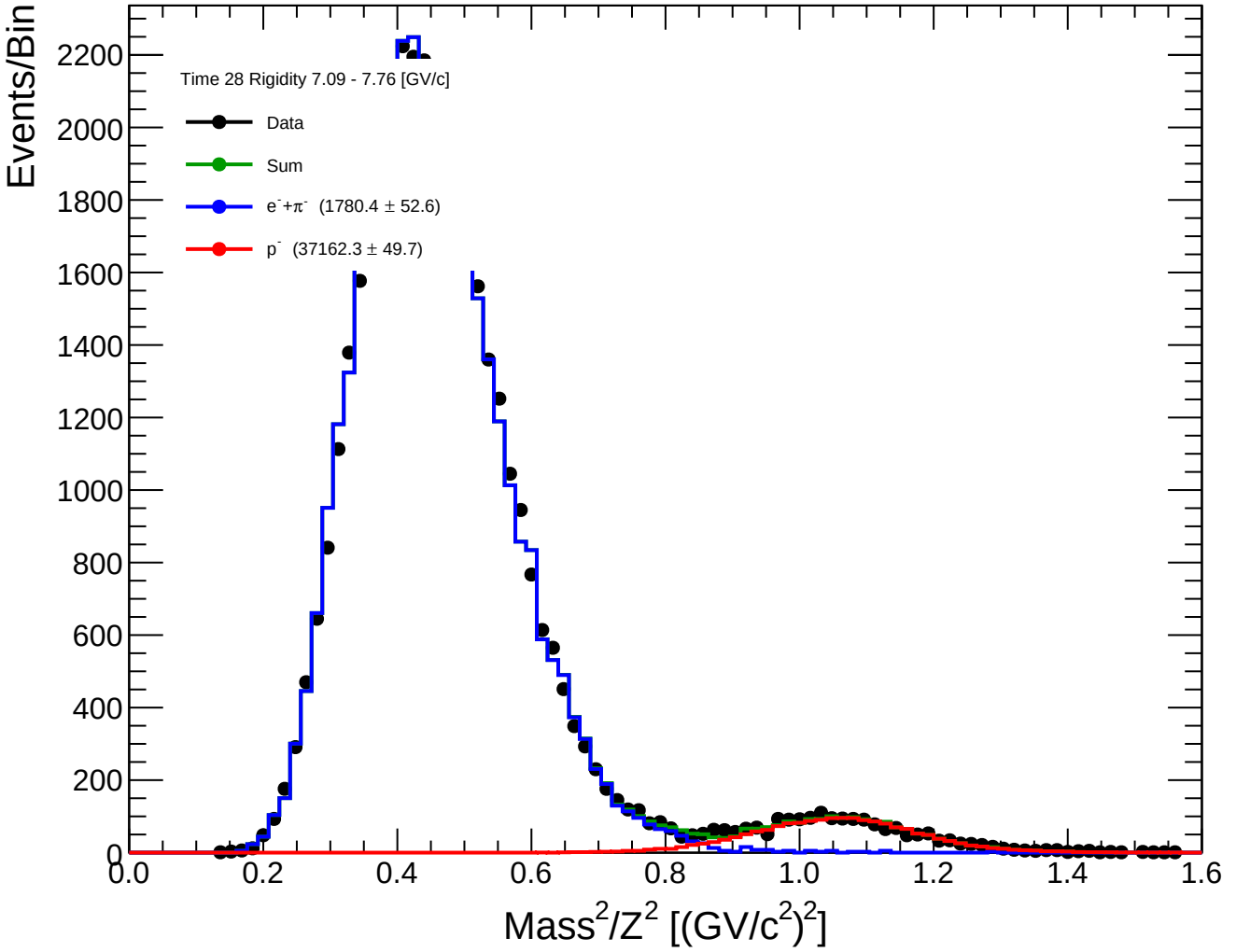

Time 27 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1965.8 ± 52.6)
p⁻ (22354.6 ± 49.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

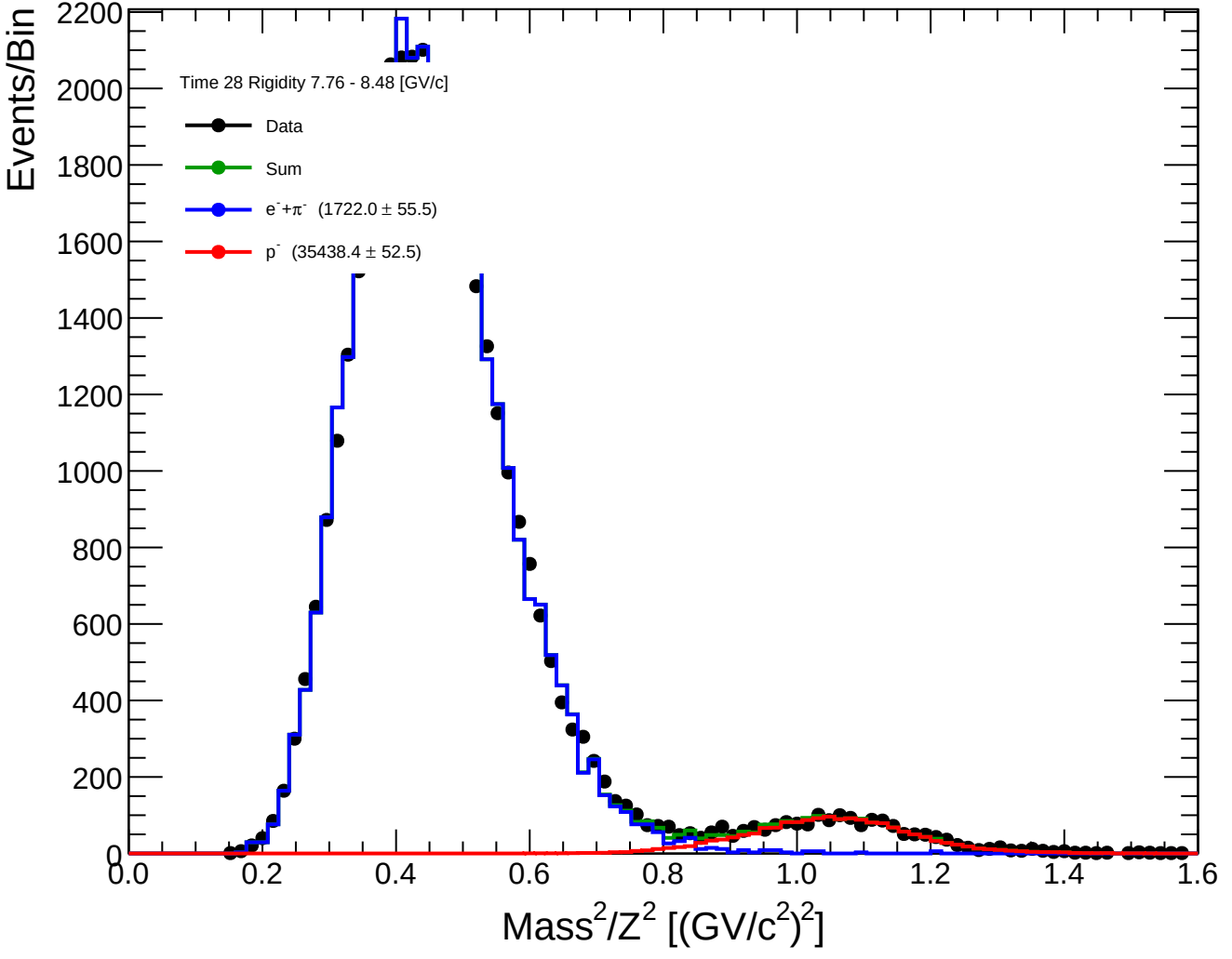

Time 27 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1743.6 ± 46.1)
p⁻ (17693.1 ± 43.8)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

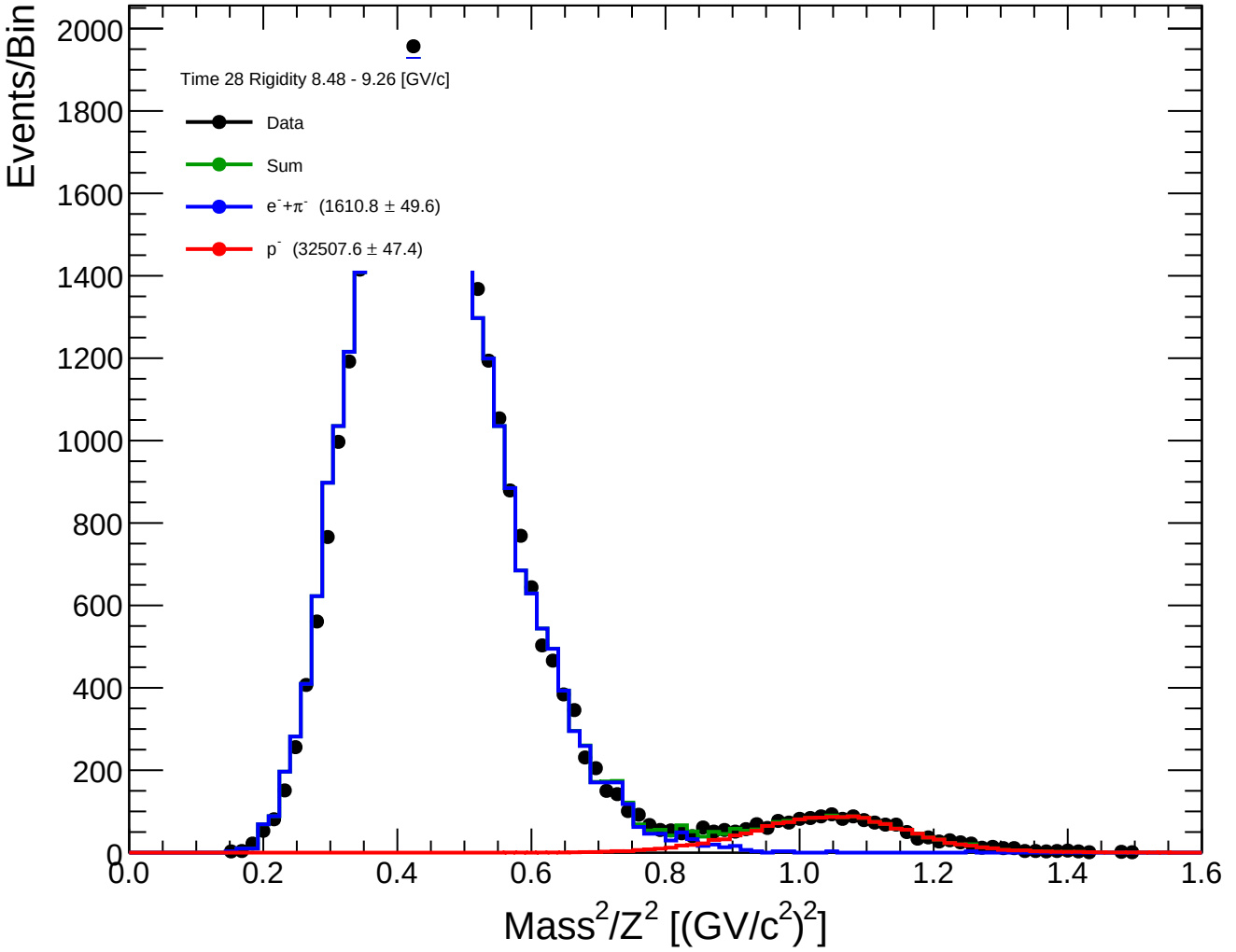

Time 27 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1322.0 ± 44.1)
p⁻ (12689.9 ± 42.6)
Events/Bin
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

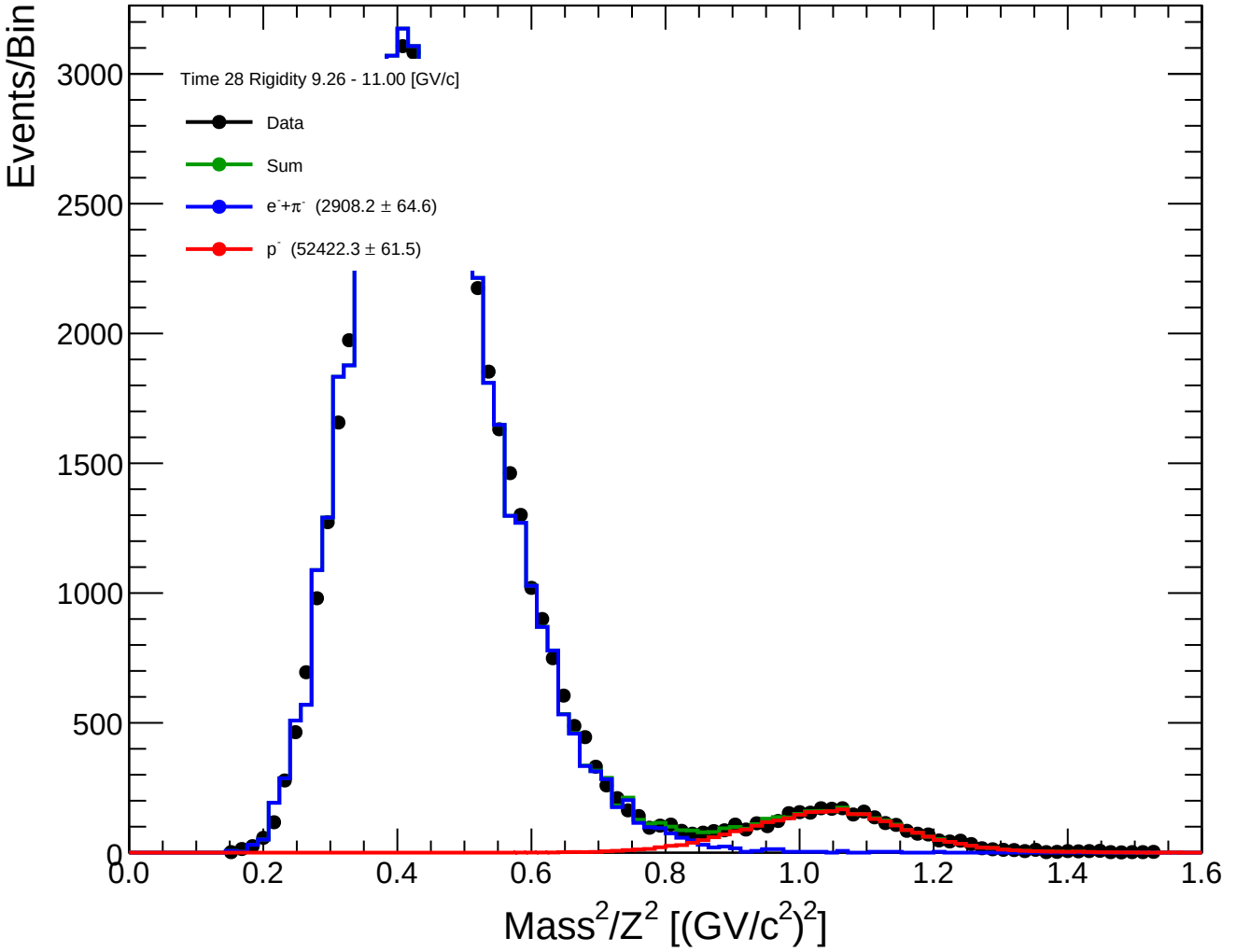

Time 27 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (939.3 ± 39.0)
p⁻ (7856.7 ± 37.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

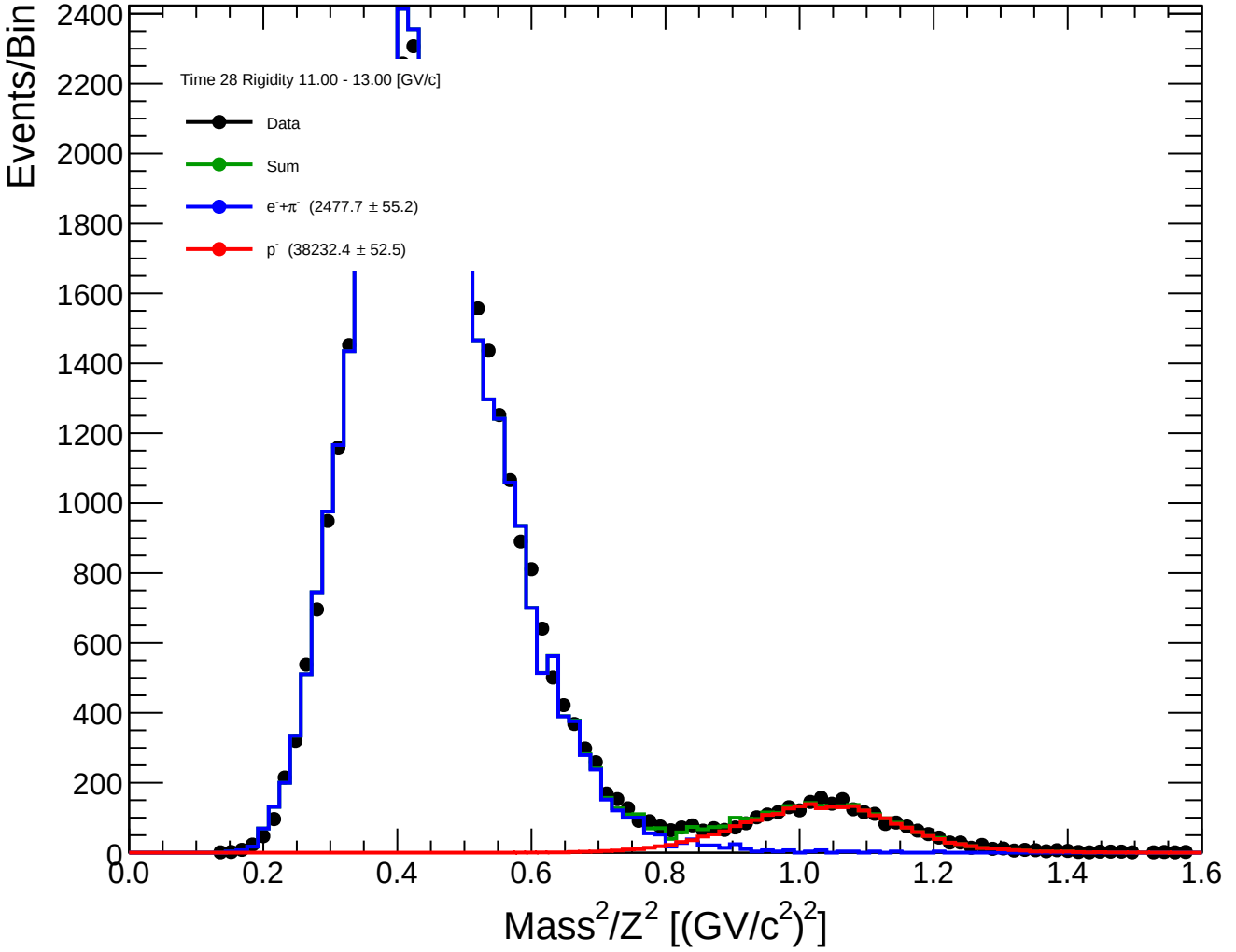

Time 27 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (702.3 ± 34.7)
p⁻ (4971.9 ± 32.9)
Events/Bin
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

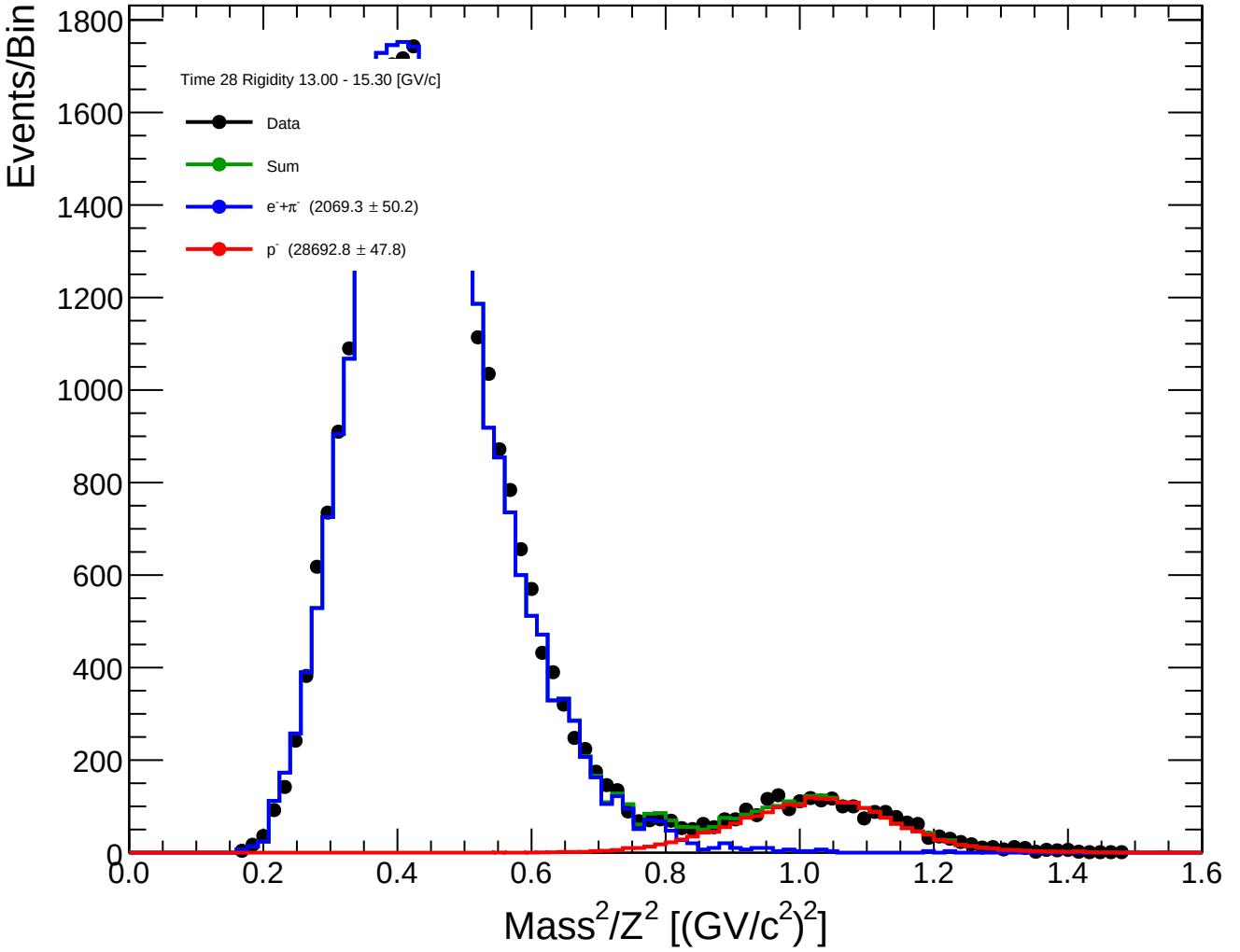

Time 28 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1780.4 ± 52.6)
p⁻ (37162.3 ± 49.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

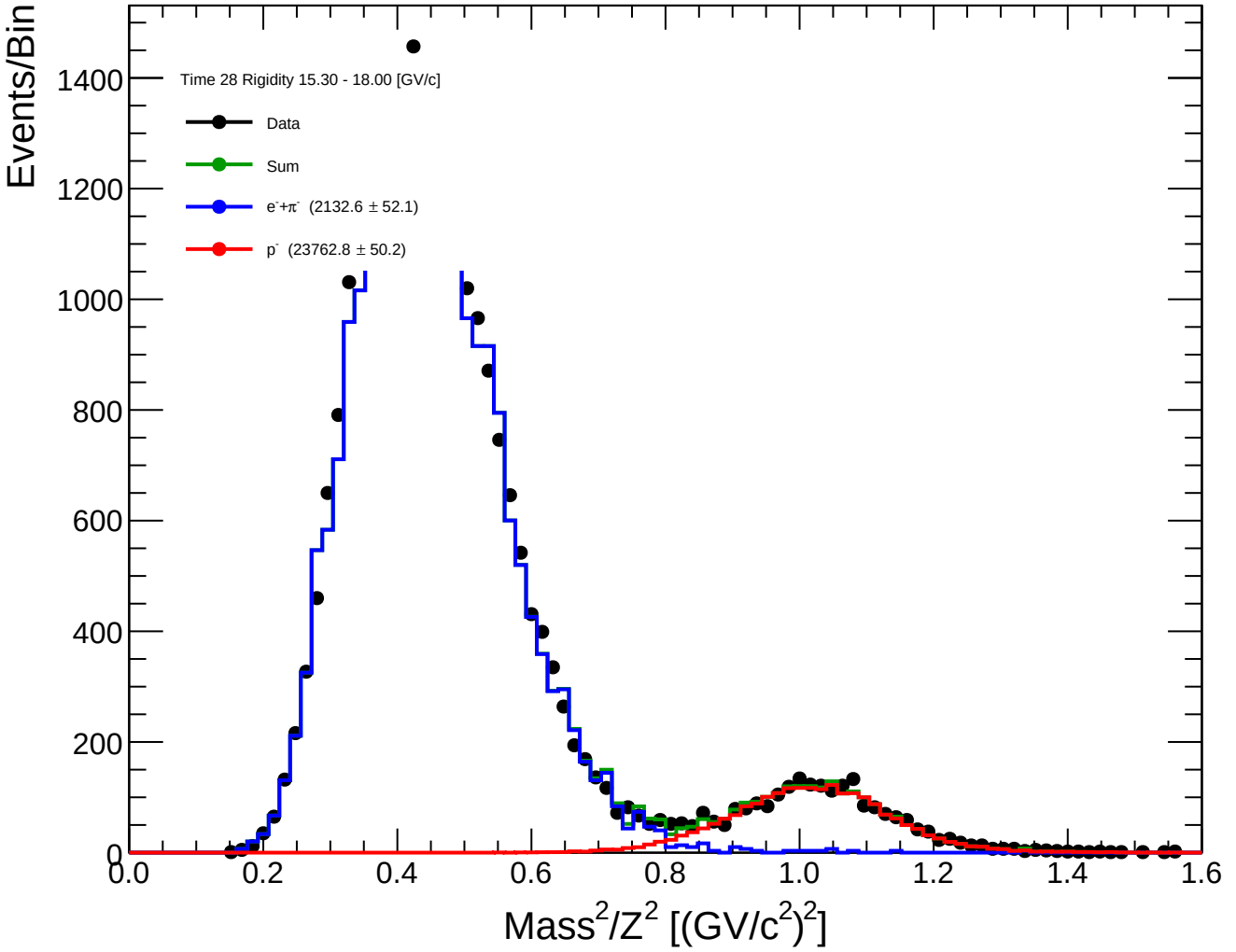

Time 28 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1722.0 ± 55.5)
p⁻ (35438.4 ± 52.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

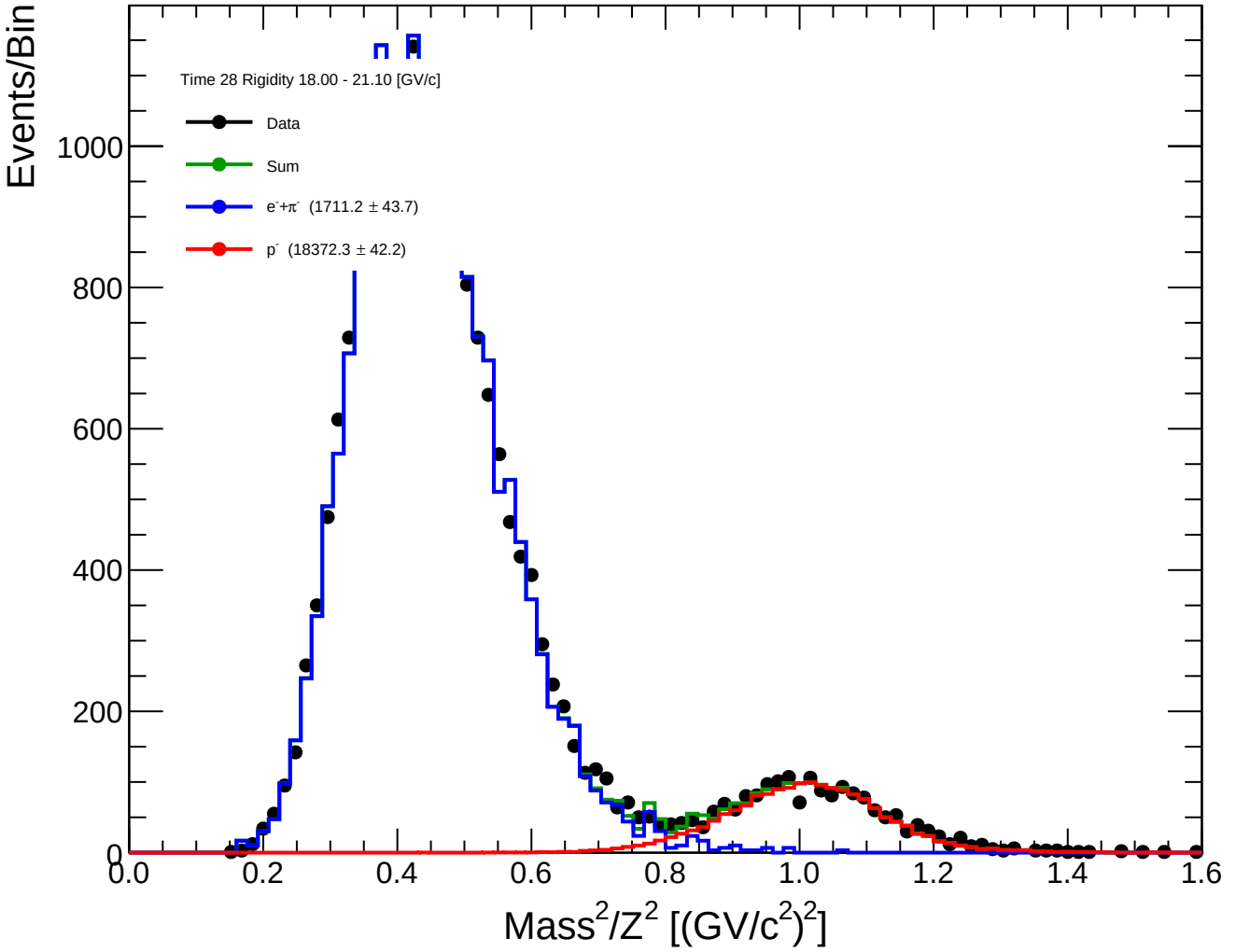

Time 28 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1610.8 ± 49.6)
p⁻ (32507.6 ± 47.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

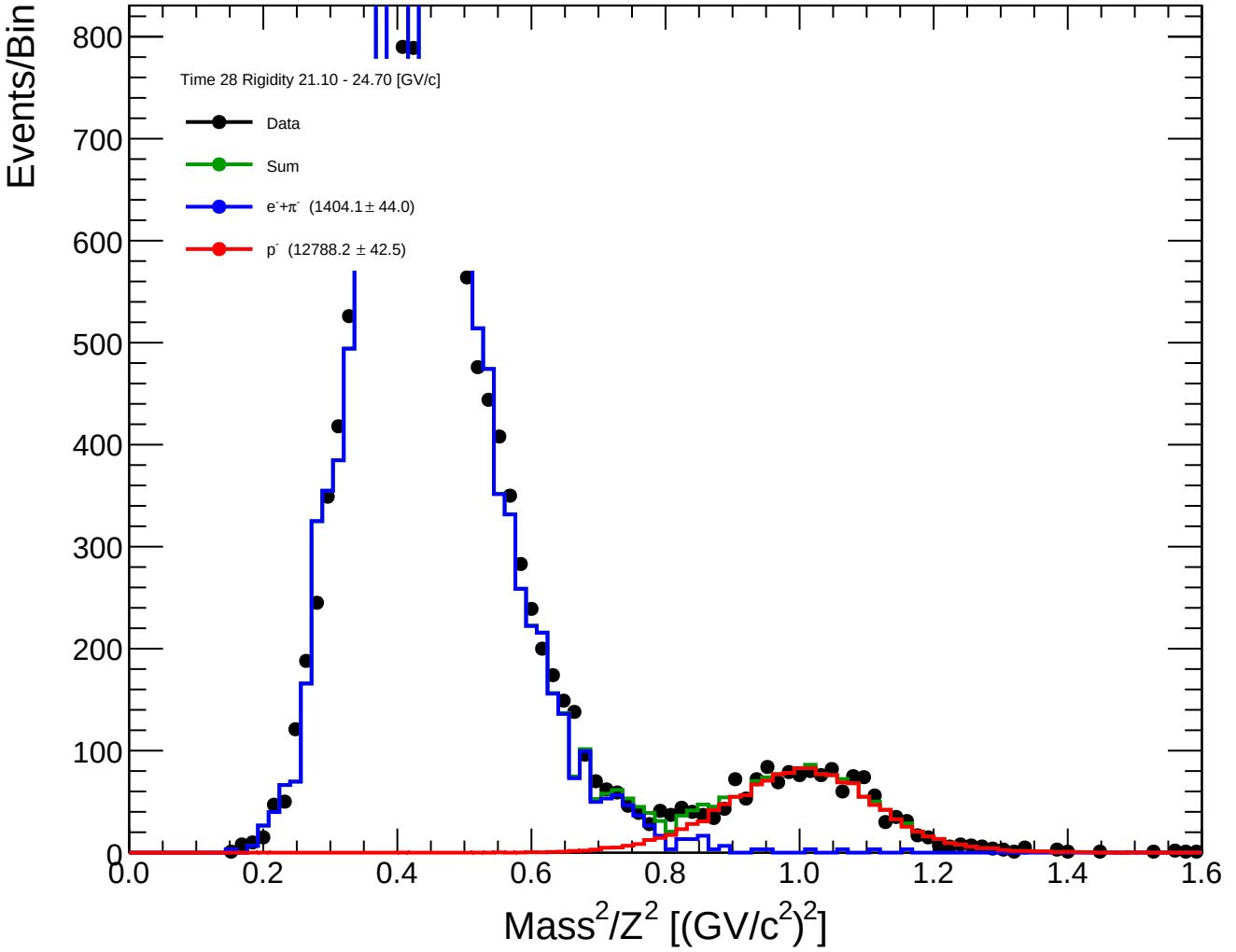

Time 28 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2908.2 ± 64.6)
p⁻ (52422.3 ± 61.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

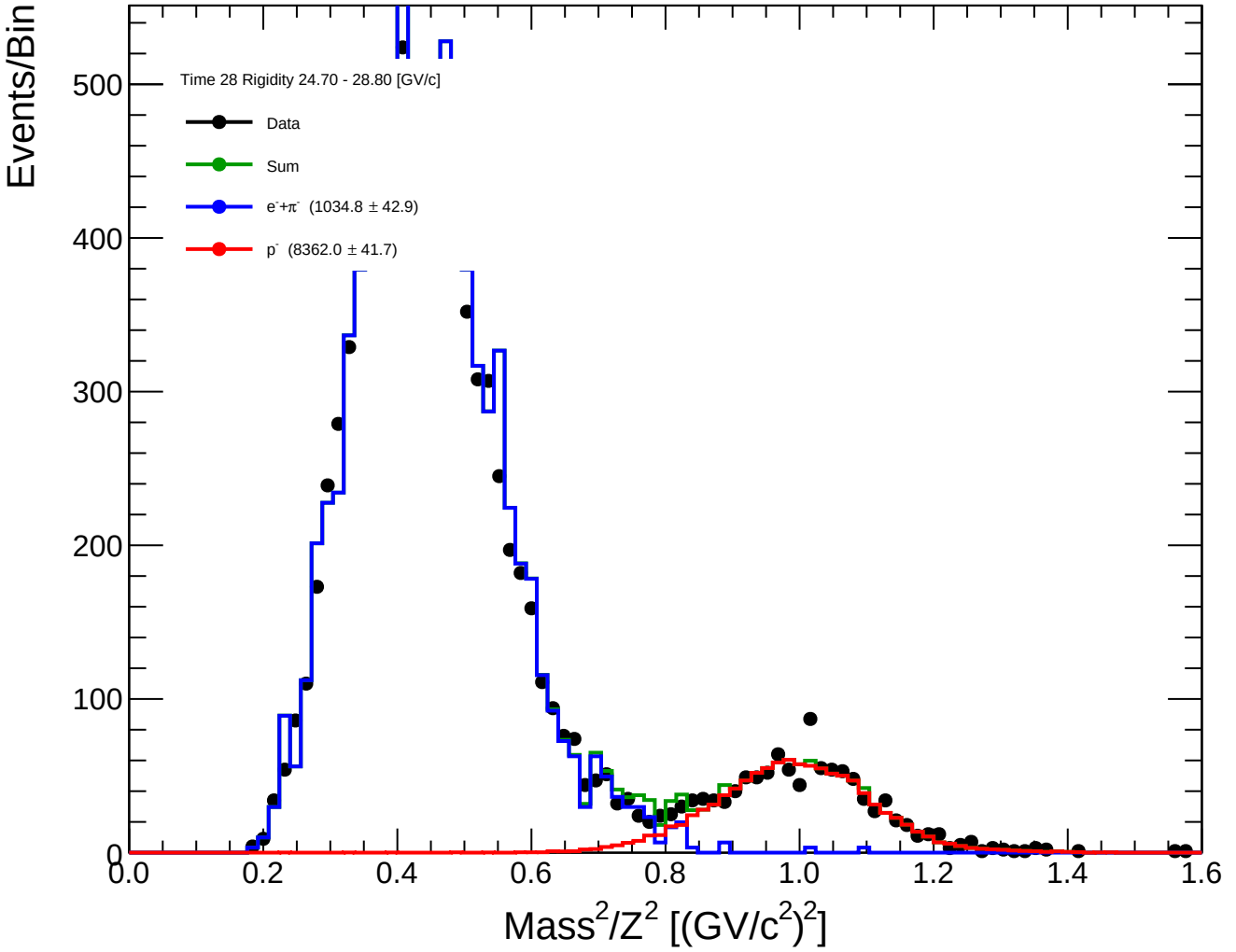

Time 28 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2477.7 ± 55.2)
p⁻ (38232.4 ± 52.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

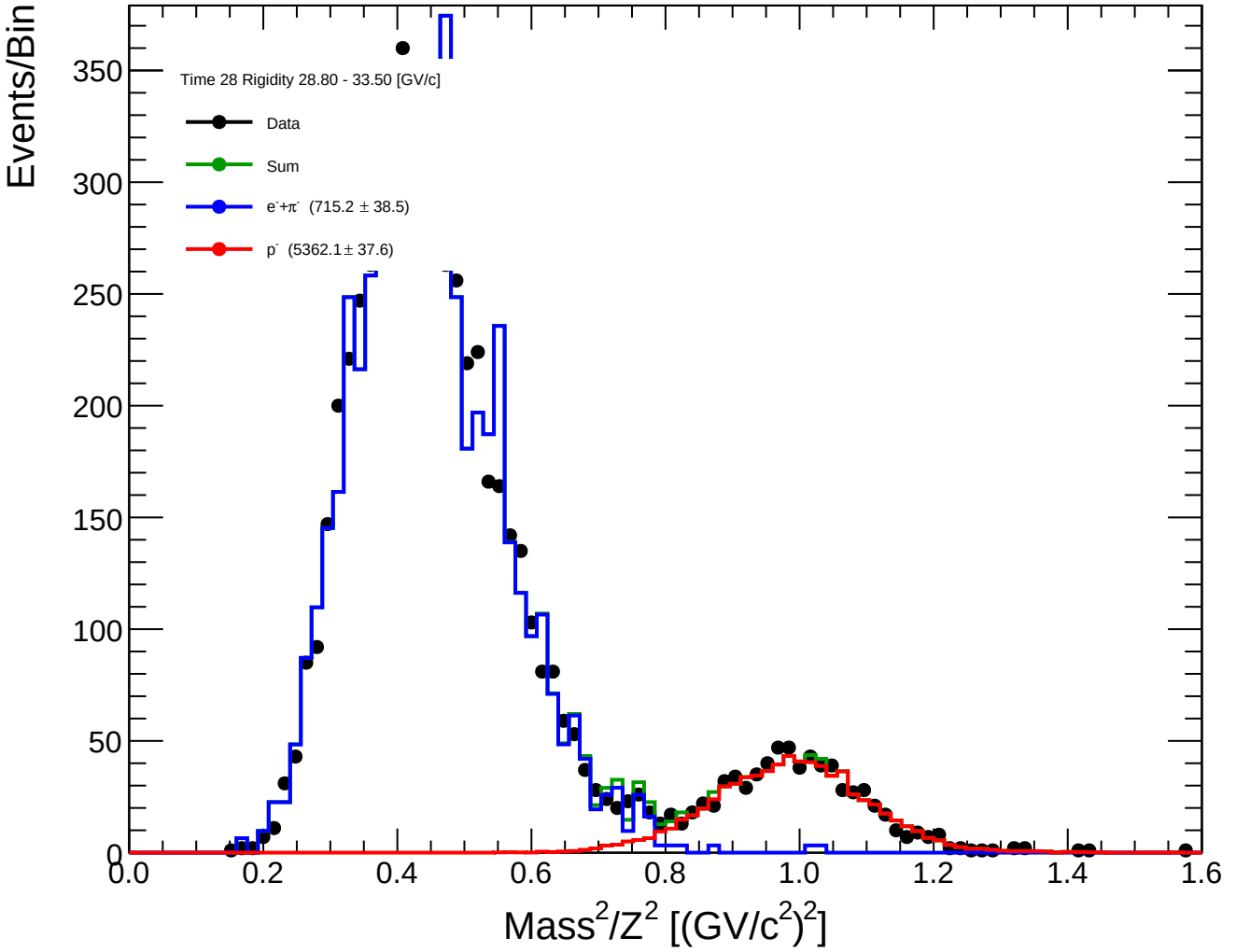

Time 28 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2069.3 ± 50.2)
p⁻ (28692.8 ± 47.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

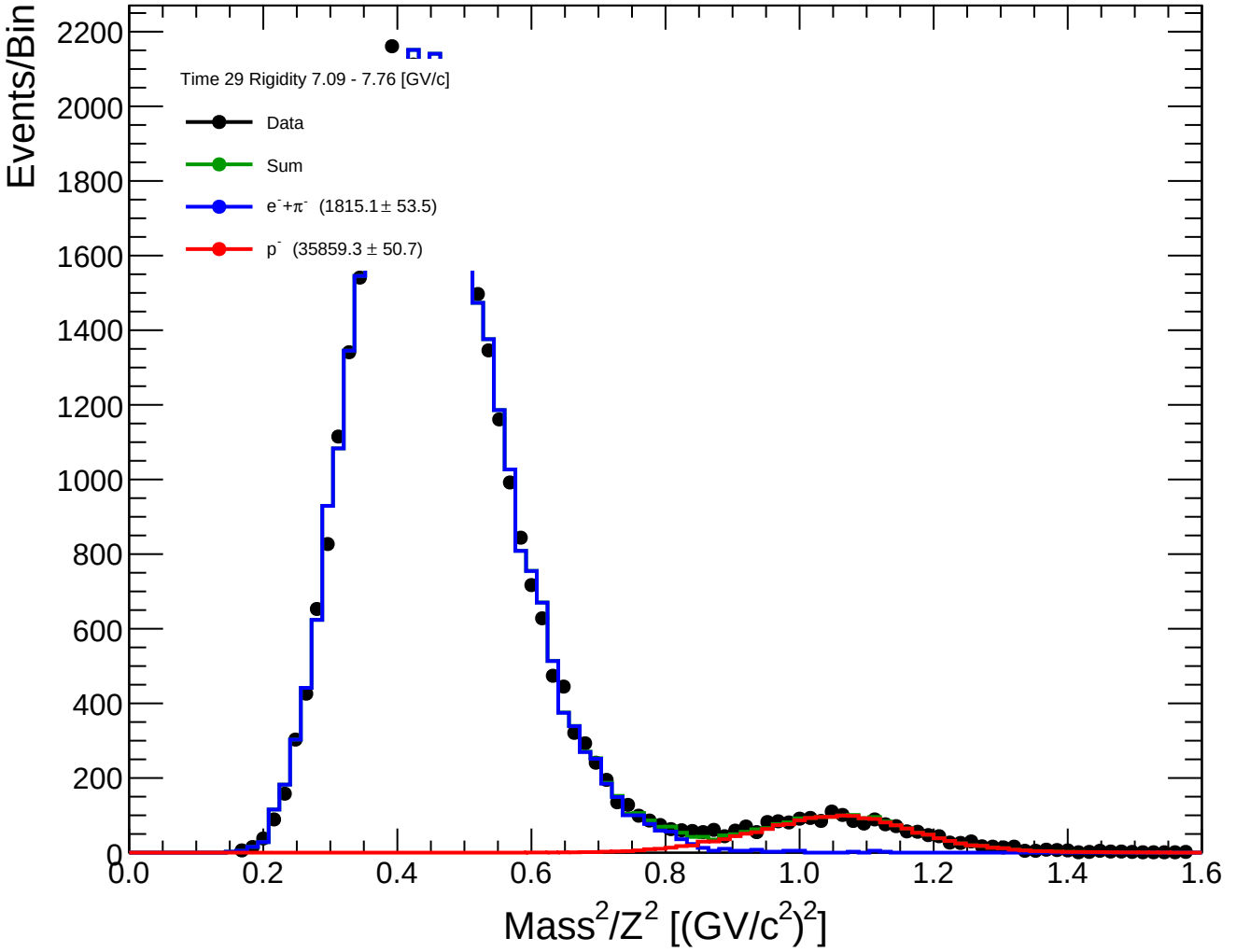

Time 28 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2132.6 ± 52.1)
p⁻ (23762.8 ± 50.2)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

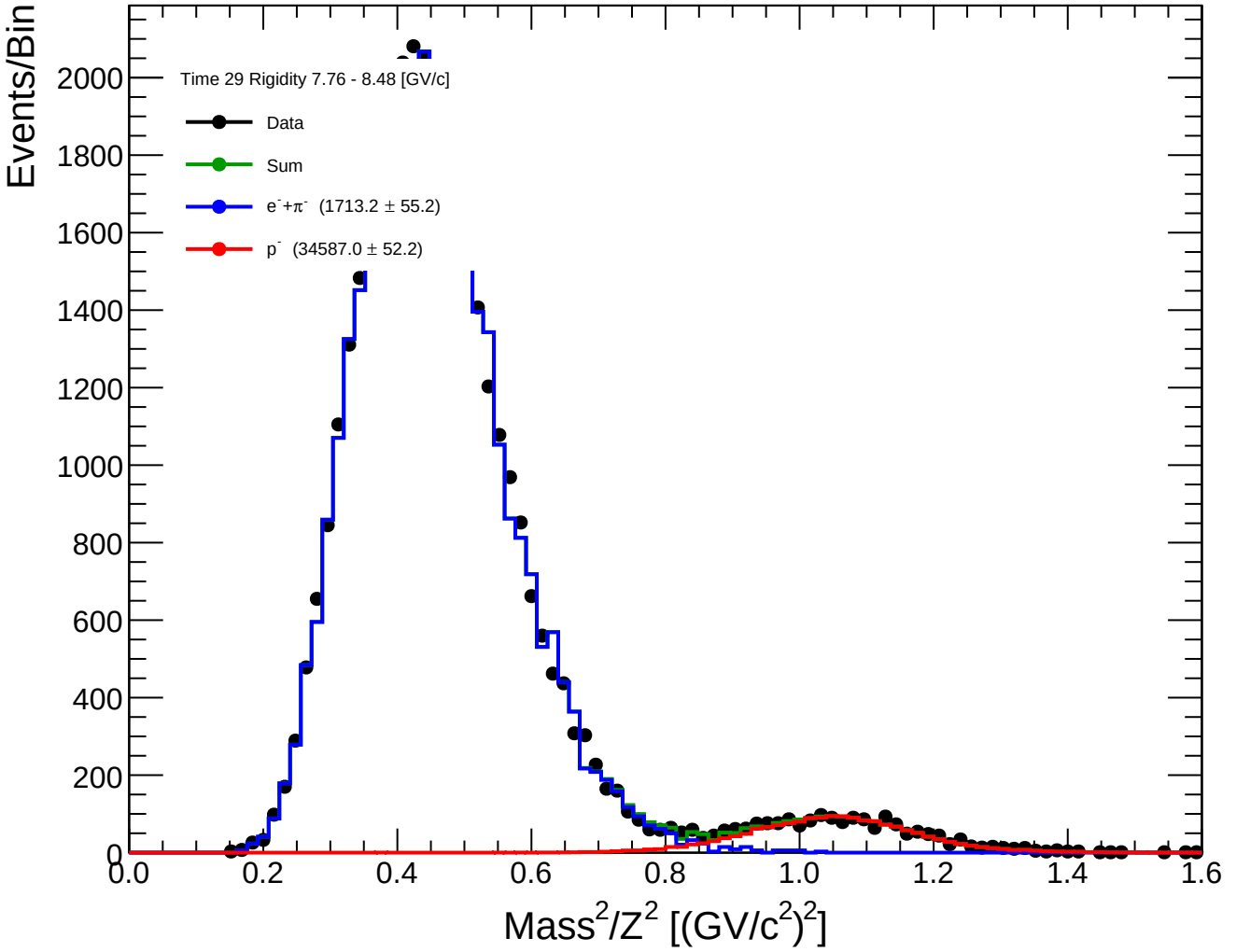

Time 28 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1711.2 ± 43.7)
p⁻ (18372.3 ± 42.2)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

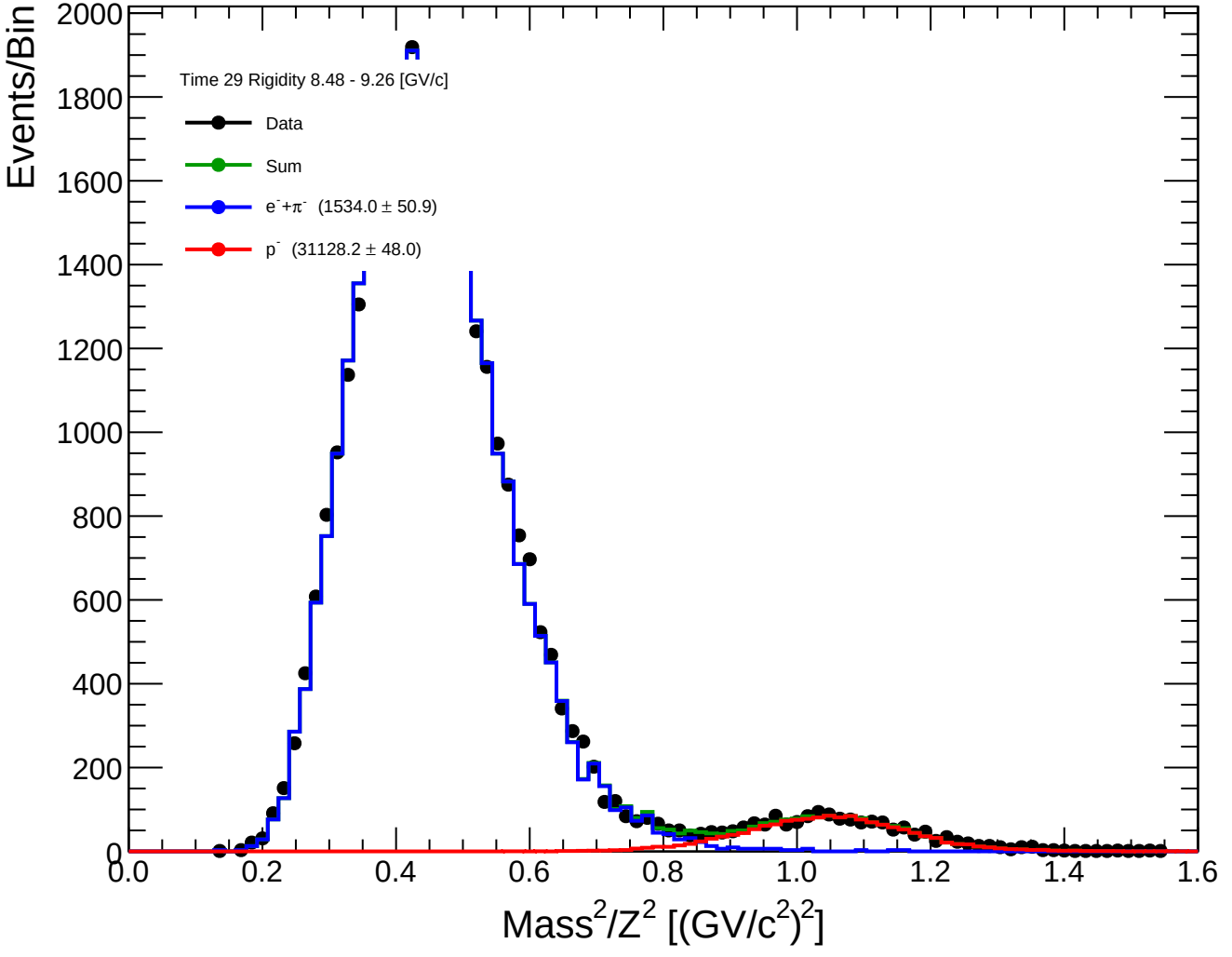

Time 28 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1404.1 ± 44.0)
p⁻ (12788.2 ± 42.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

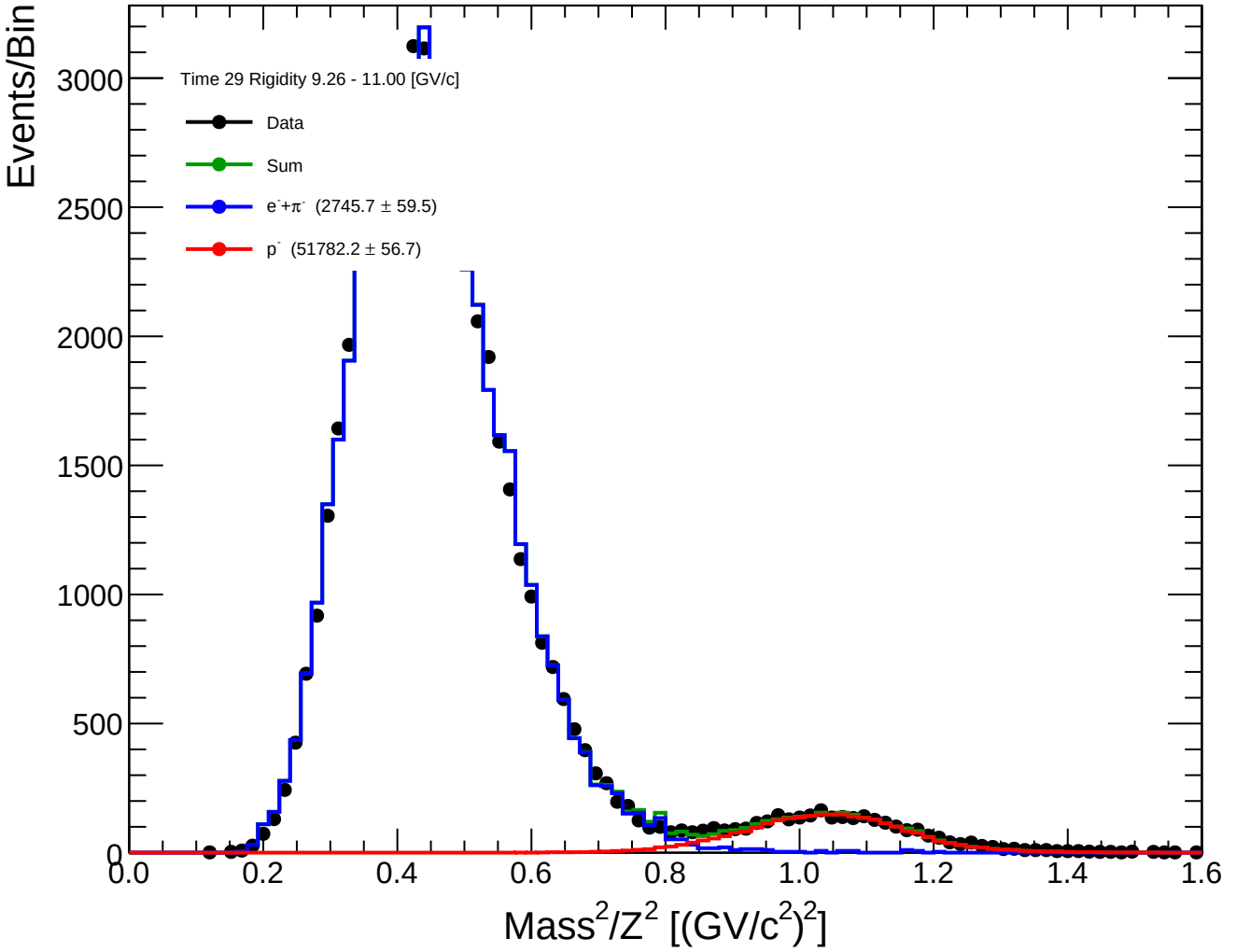

Time 28 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1034.8 ± 42.9)
p⁻ (8362.0 ± 41.7)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

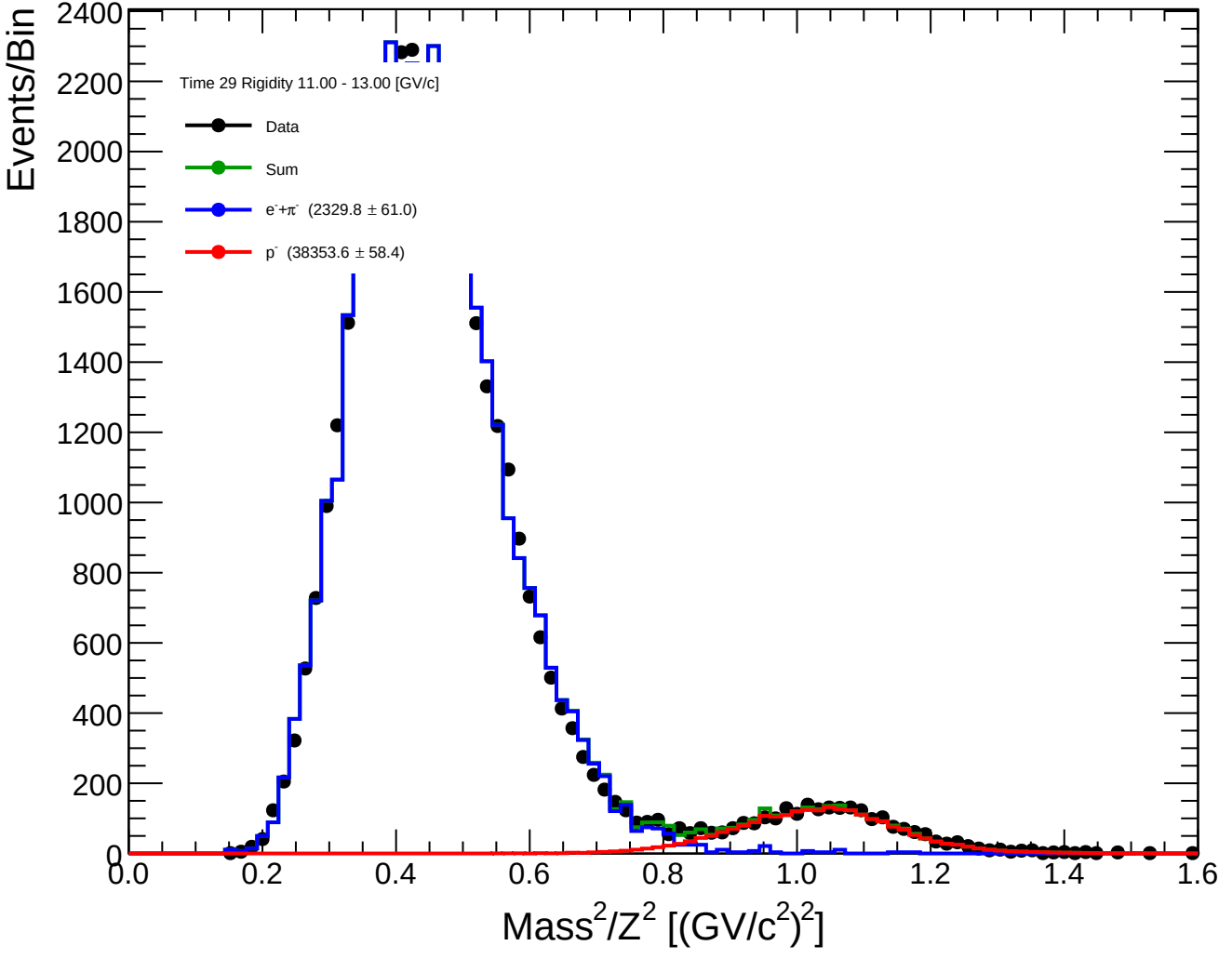

Time 28 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (715.2 ± 38.5)
p⁻ (5362.1± 37.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

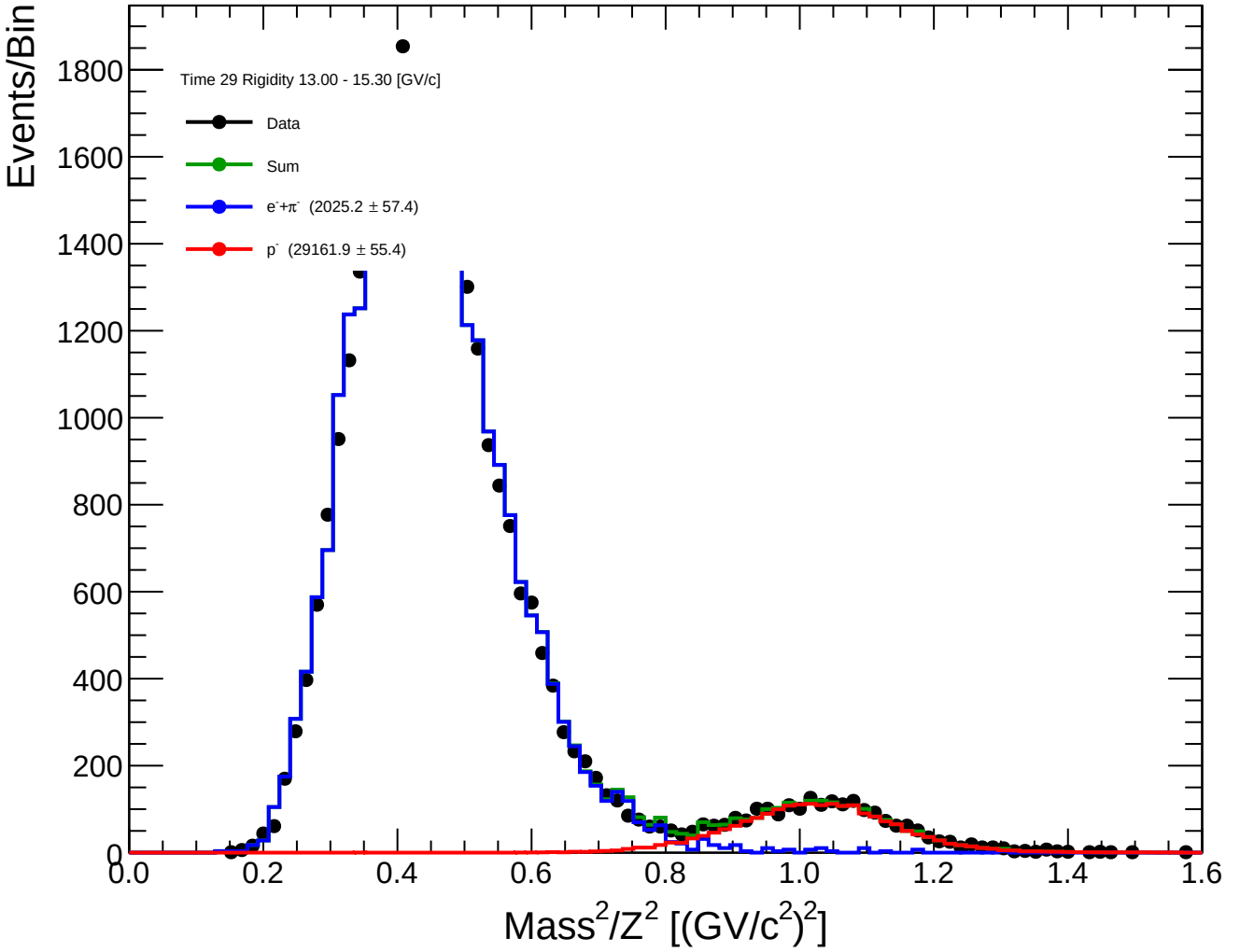

Time 29 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1815.1± 53.5)
p⁻ (35859.3 ± 50.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

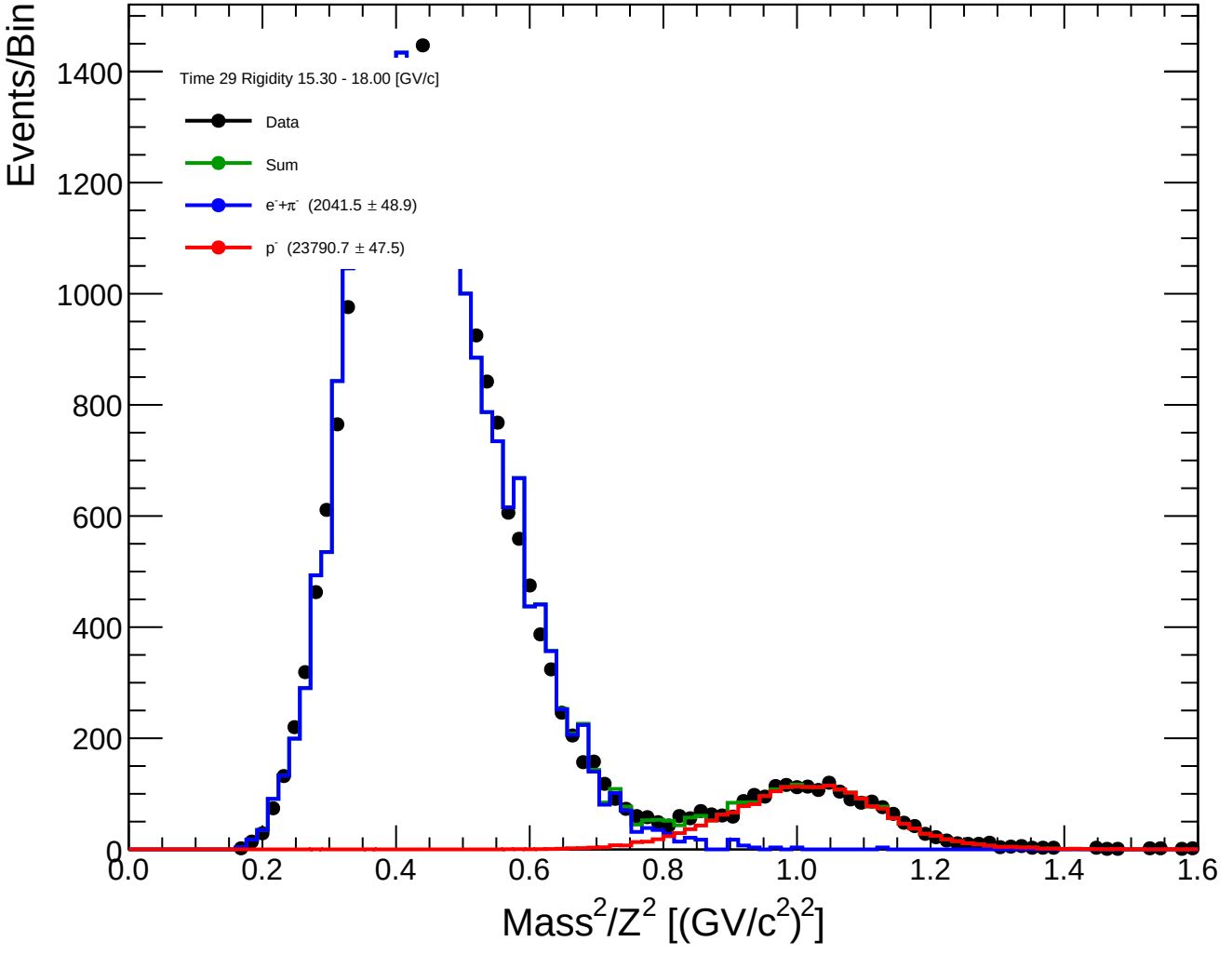

Time 29 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1713.2 ± 55.2)
p⁻ (34587.0 ± 52.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

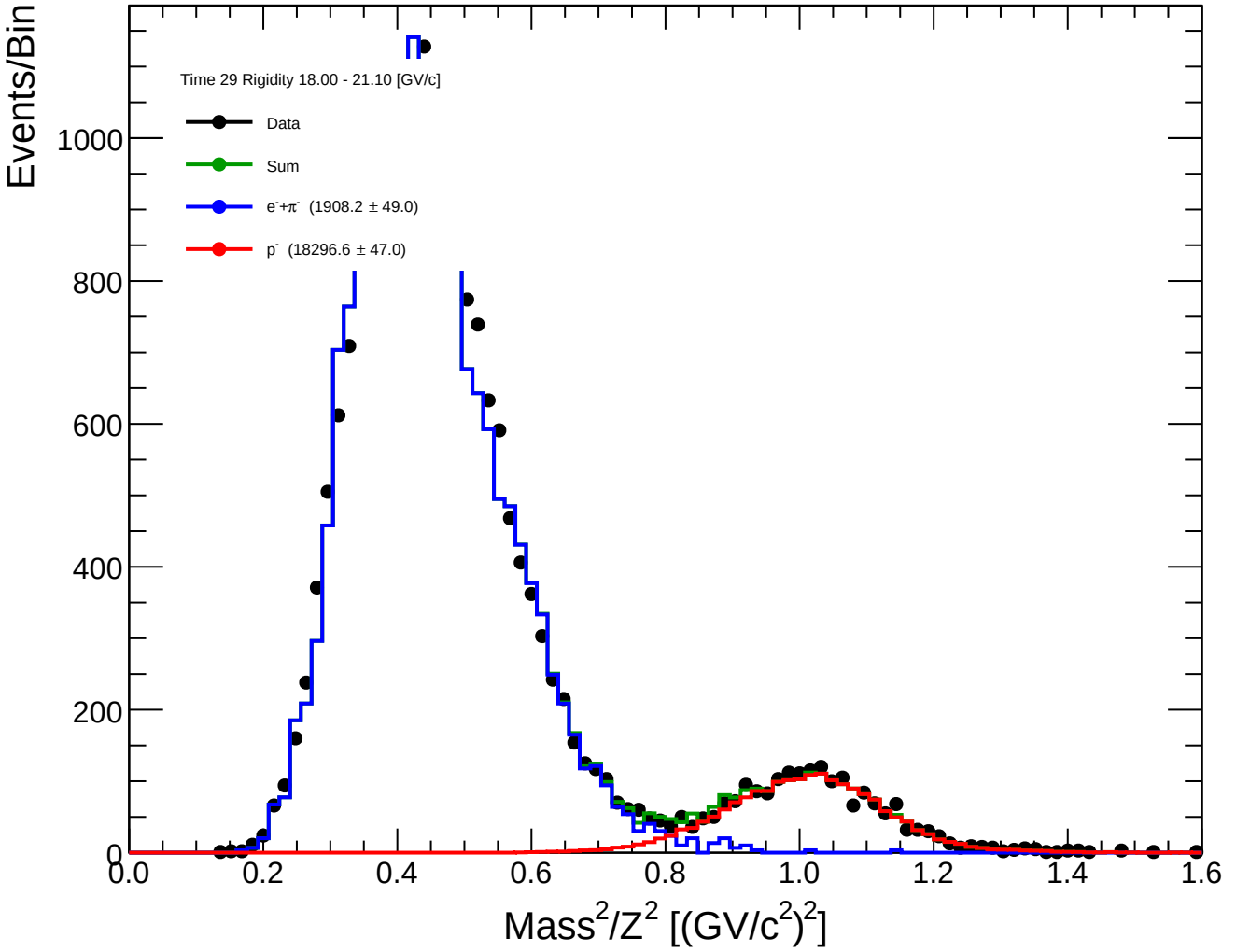

Time 29 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1534.0 ± 50.9)
p⁻ (31128.2 ± 48.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

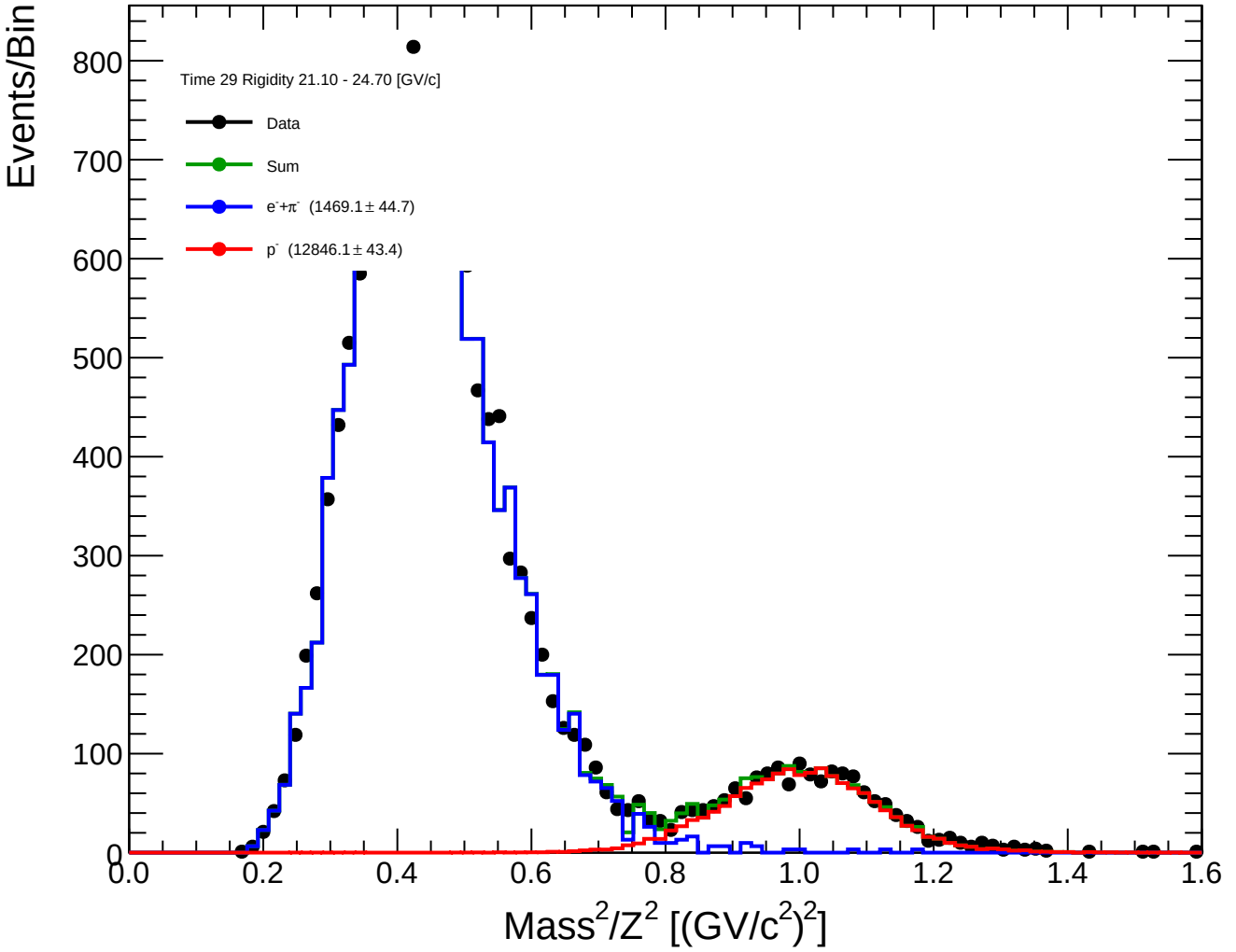

Time 29 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2745.7 ± 59.5)
p⁻ (51782.2 ± 56.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

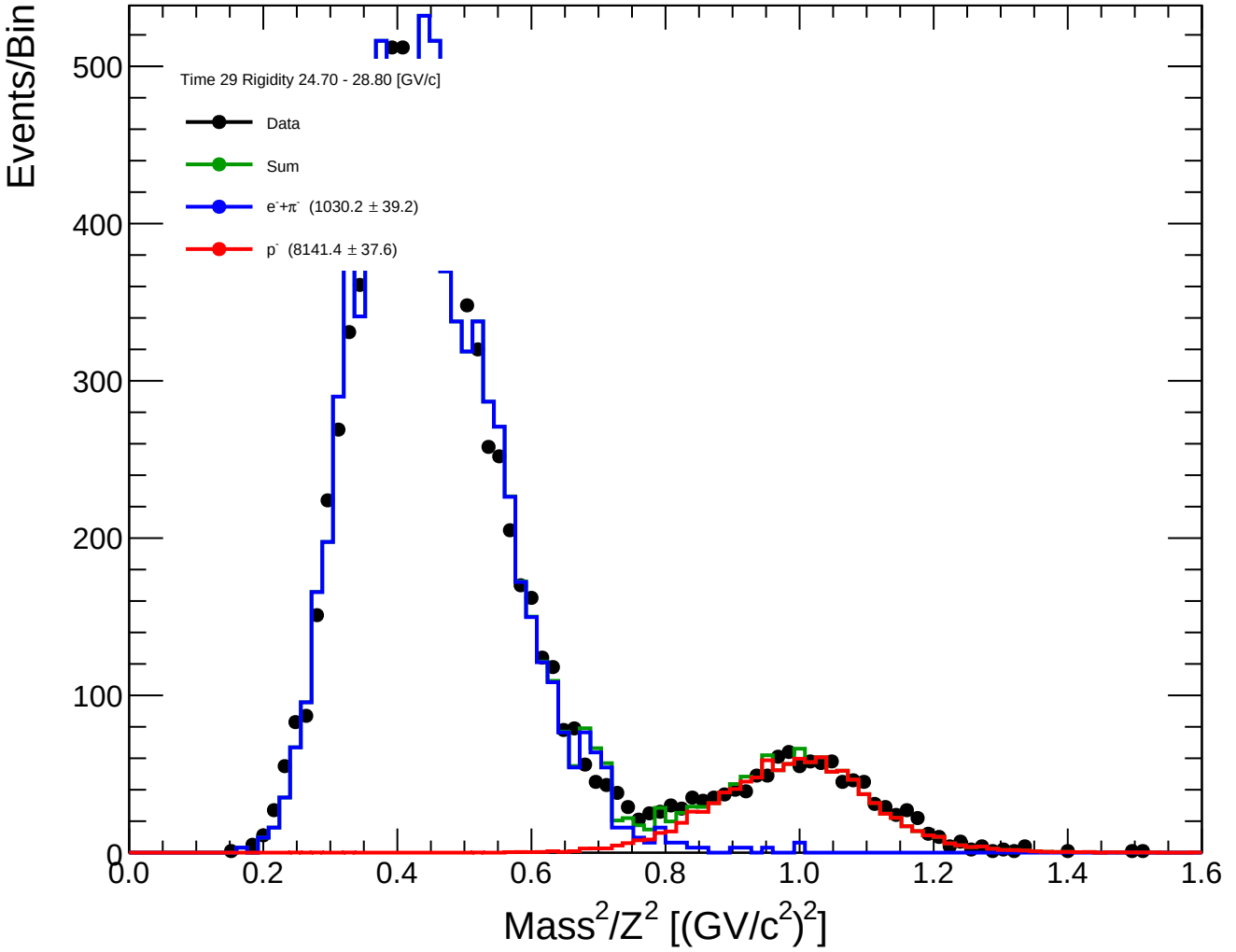

Time 29 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2329.8 ± 61.0)
p⁻ (38353.6 ± 58.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

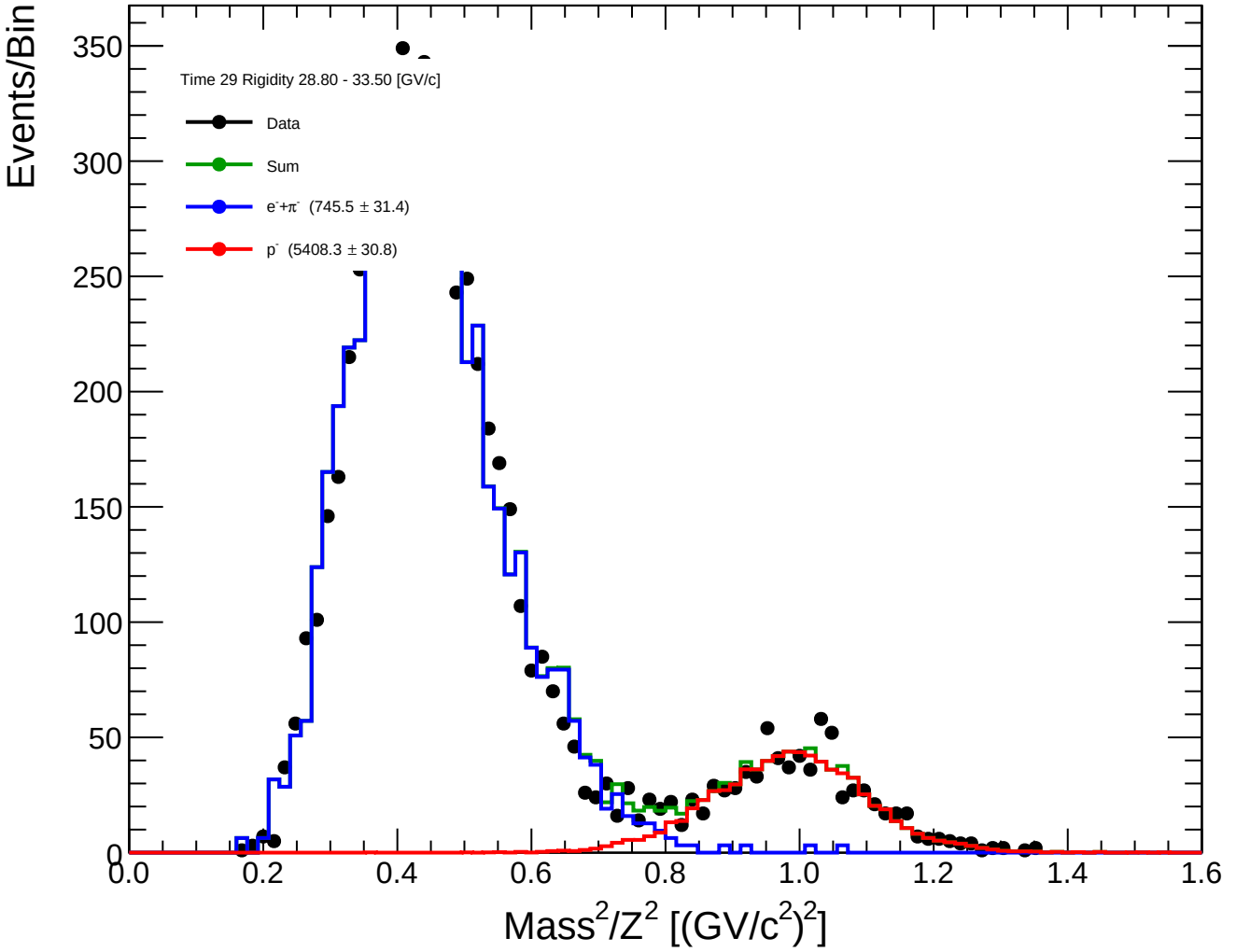

Time 29 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2025.2 ± 57.4)
p⁻ (29161.9 ± 55.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

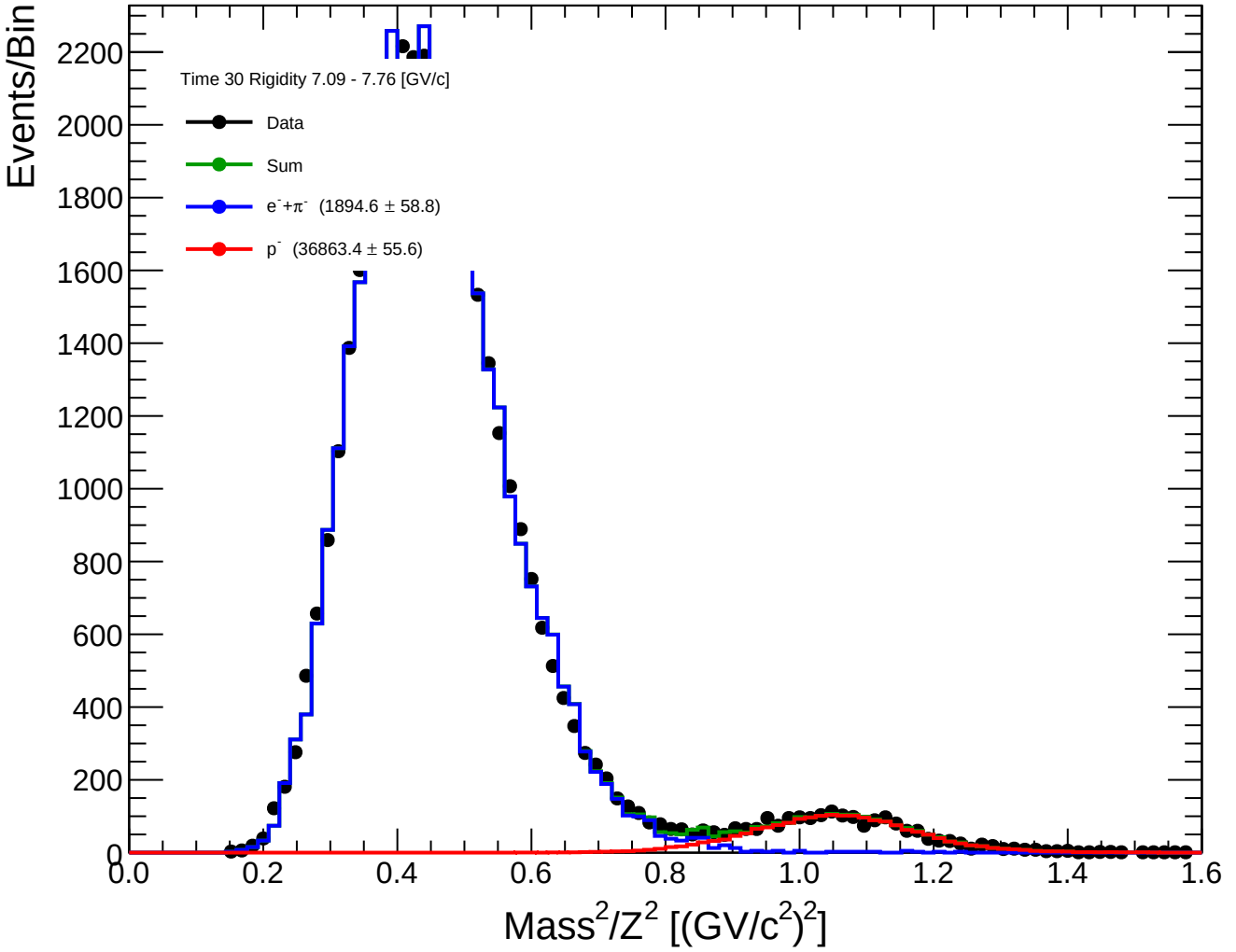

Time 29 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2041.5 ± 48.9)
p⁻ (23790.7 ± 47.5)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

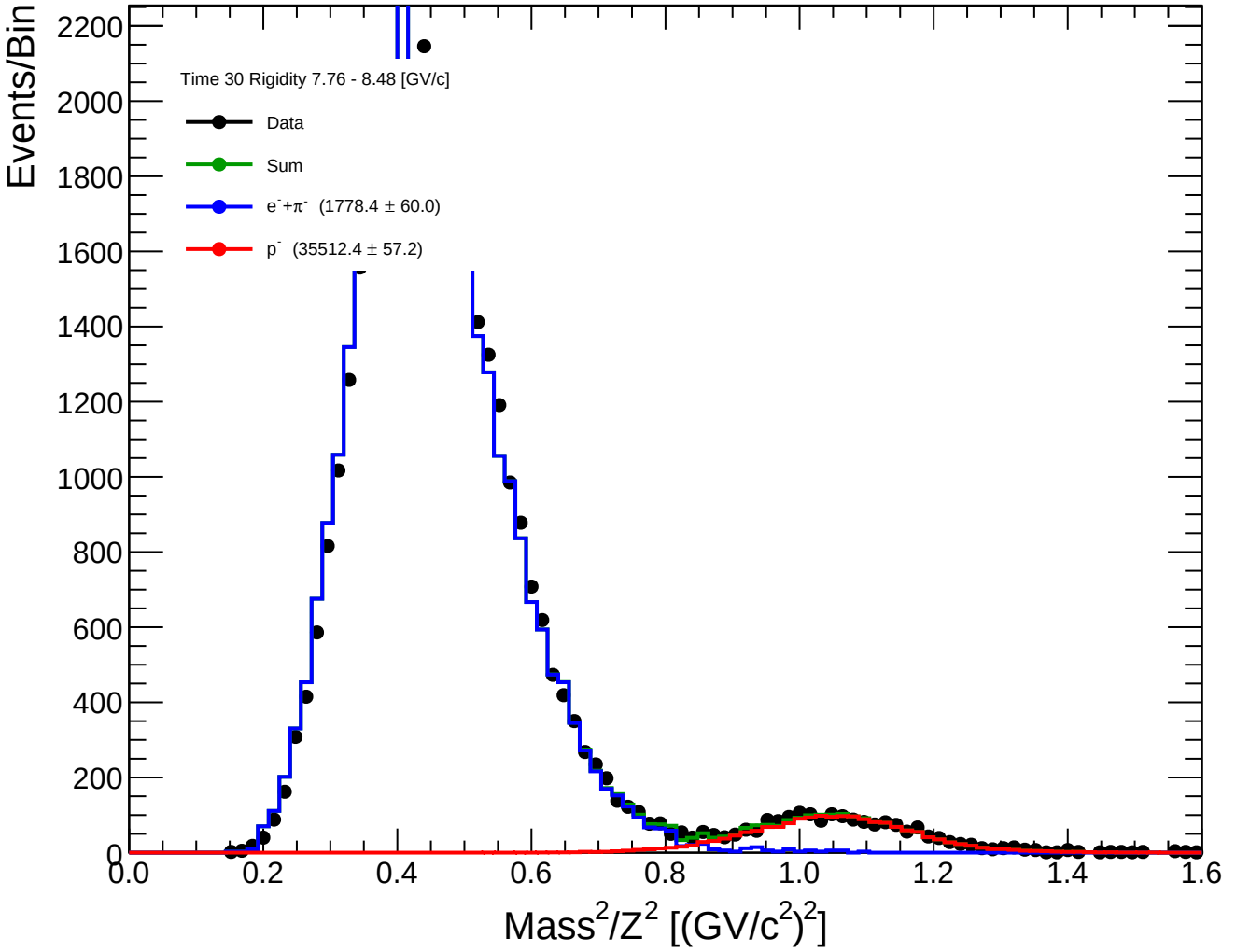

Time 29 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1908.2 ± 49.0)
p⁻ (18296.6 ± 47.0)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

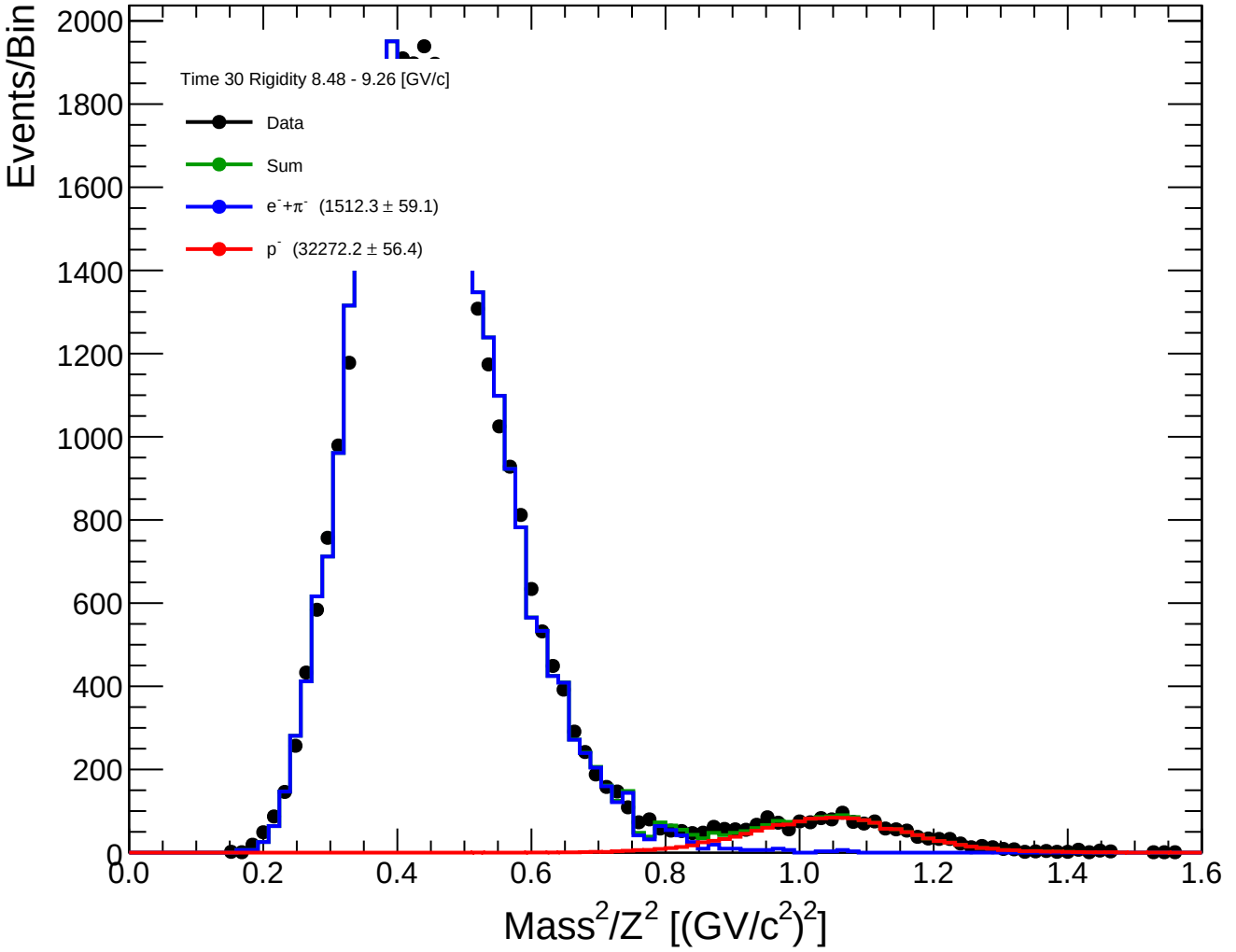

Time 29 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1469.1 ± 44.7)
p⁻ (12846.1 ± 43.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

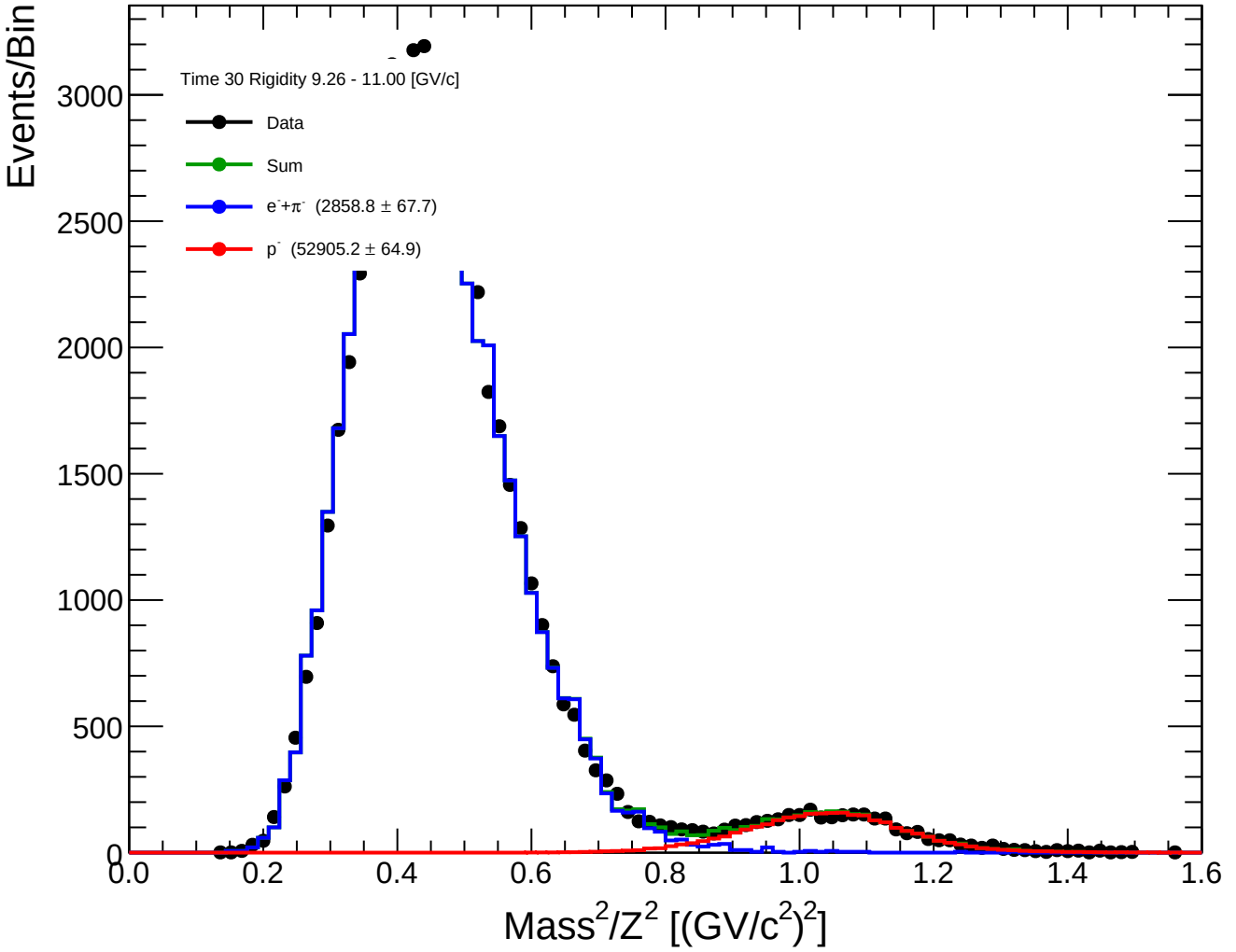

Time 29 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1030.2 ± 39.2)
p⁻ (8141.4 ± 37.6)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

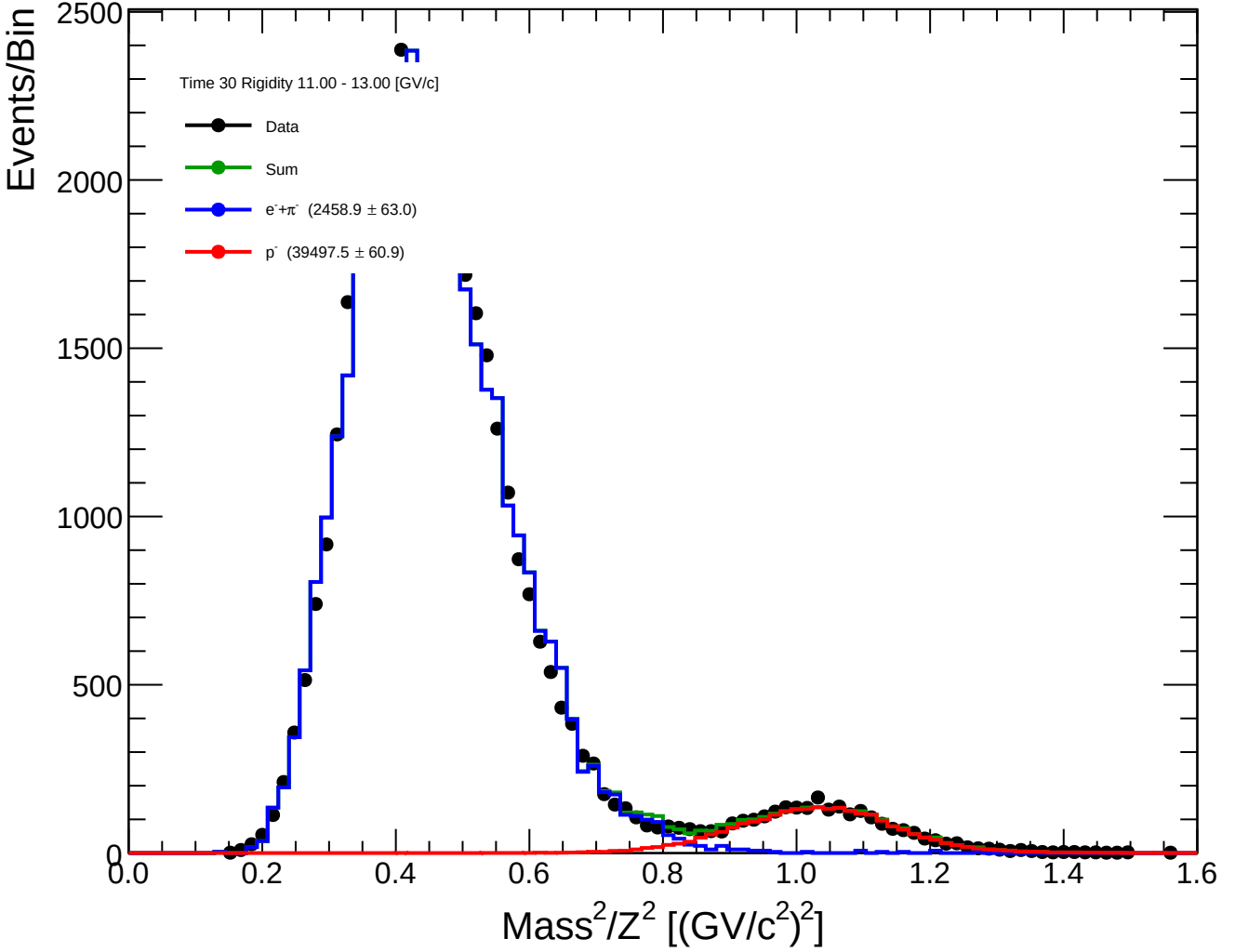

Time 29 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (745.5 ± 31.4)
p⁻ (5408.3 ± 30.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

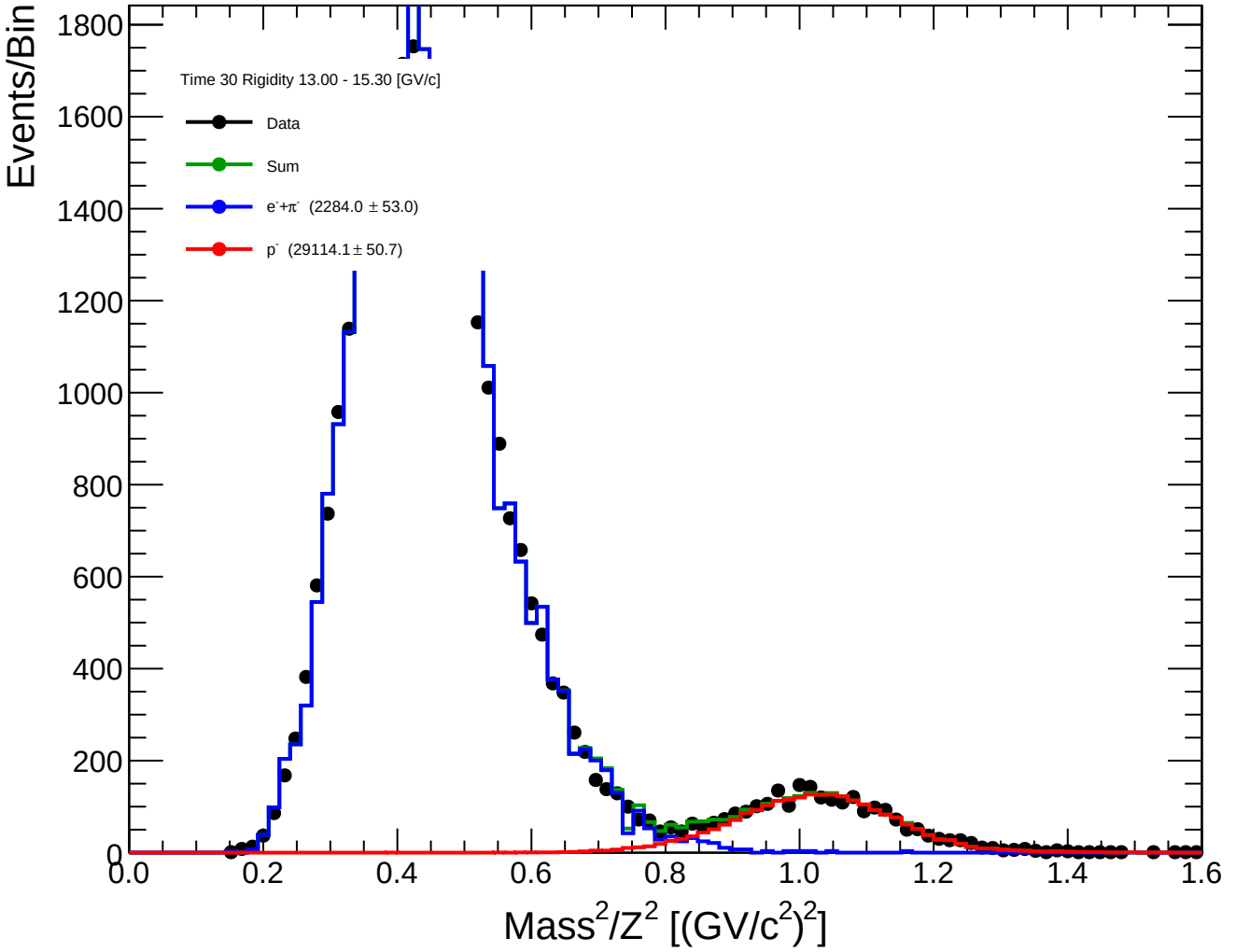

Time 30 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1894.6 ± 58.8)
p⁻ (36863.4 ± 55.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

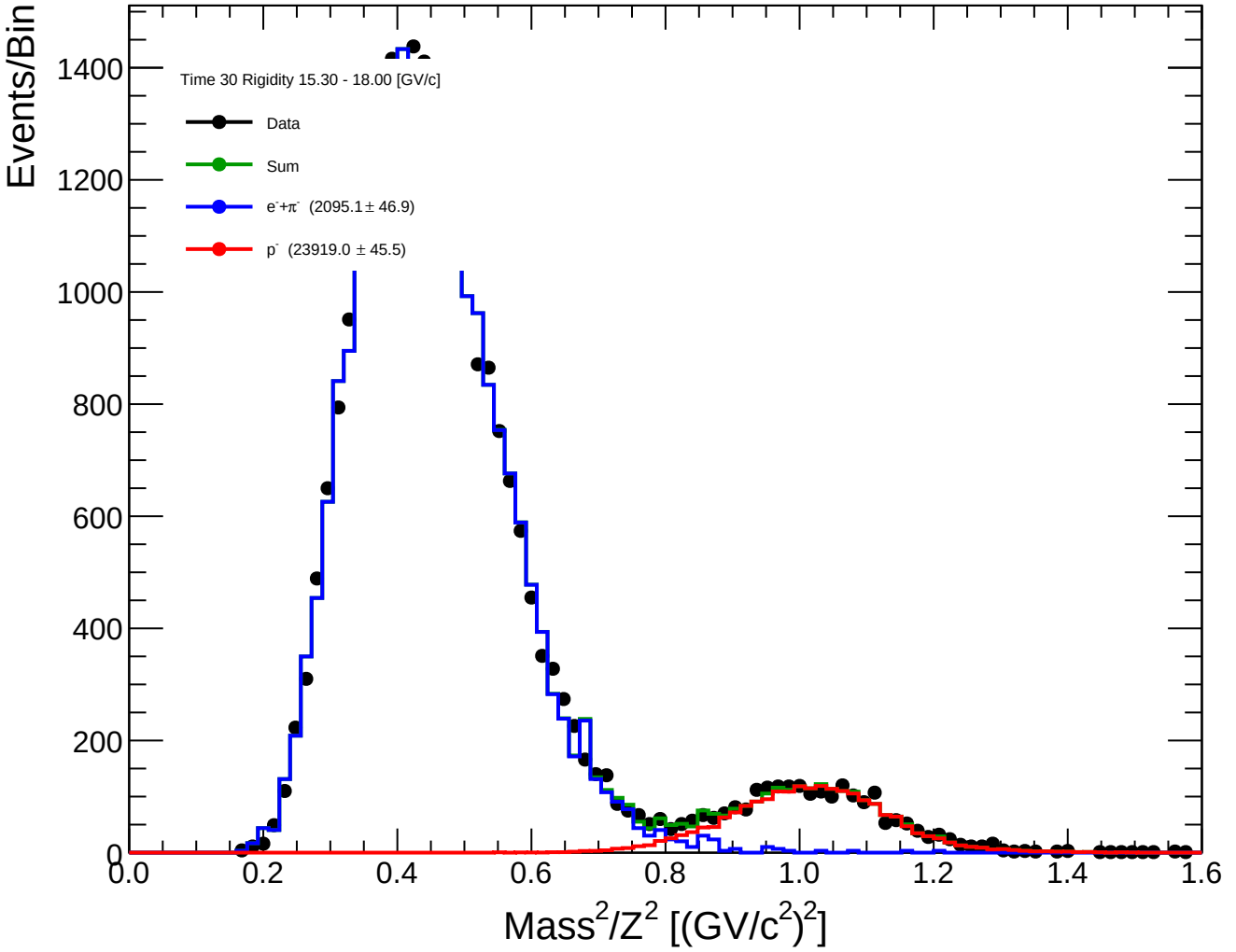

Time 30 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1778.4 ± 60.0)
p⁻ (35512.4 ± 57.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

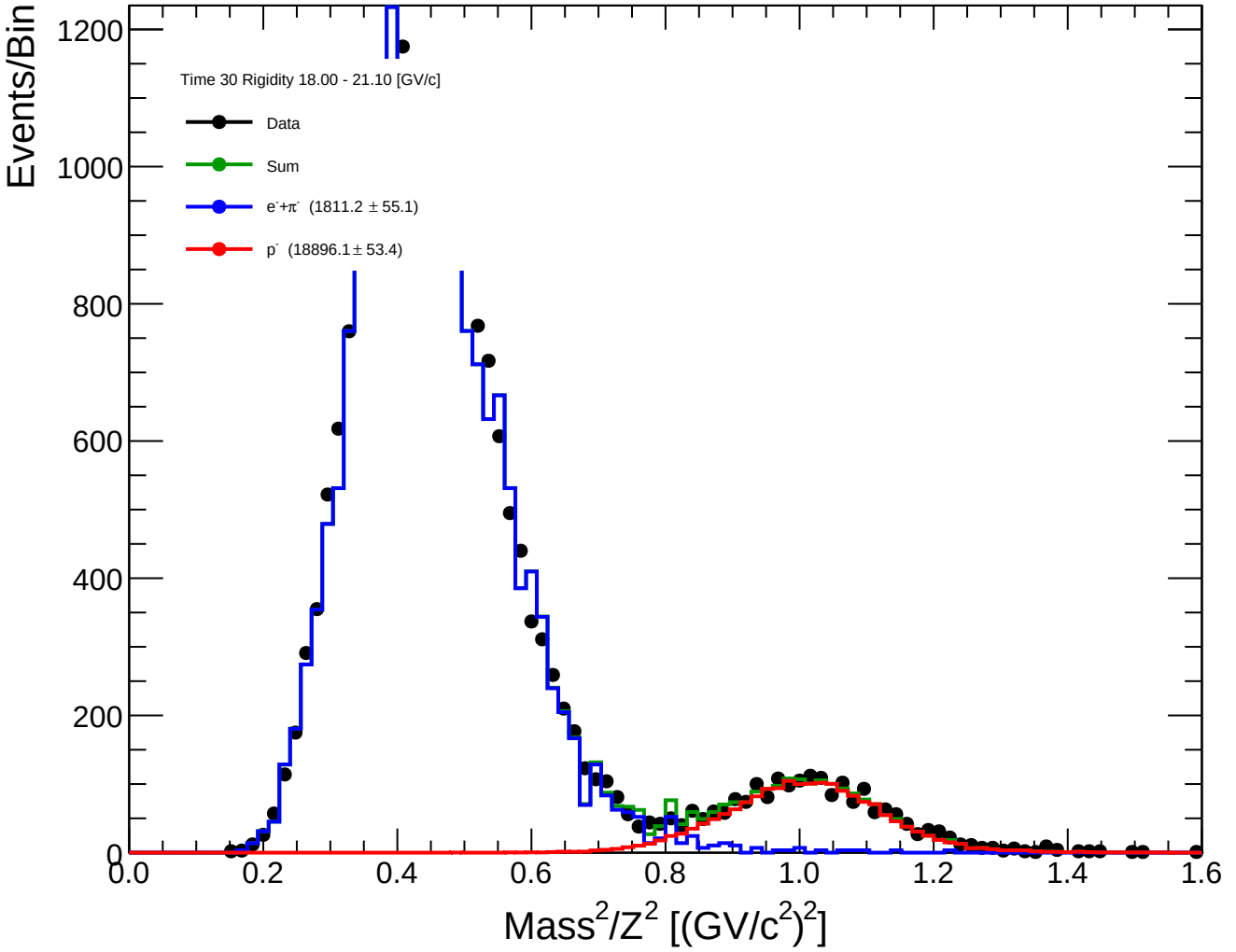

Time 30 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1512.3 ± 59.1)
p⁻ (32272.2 ± 56.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

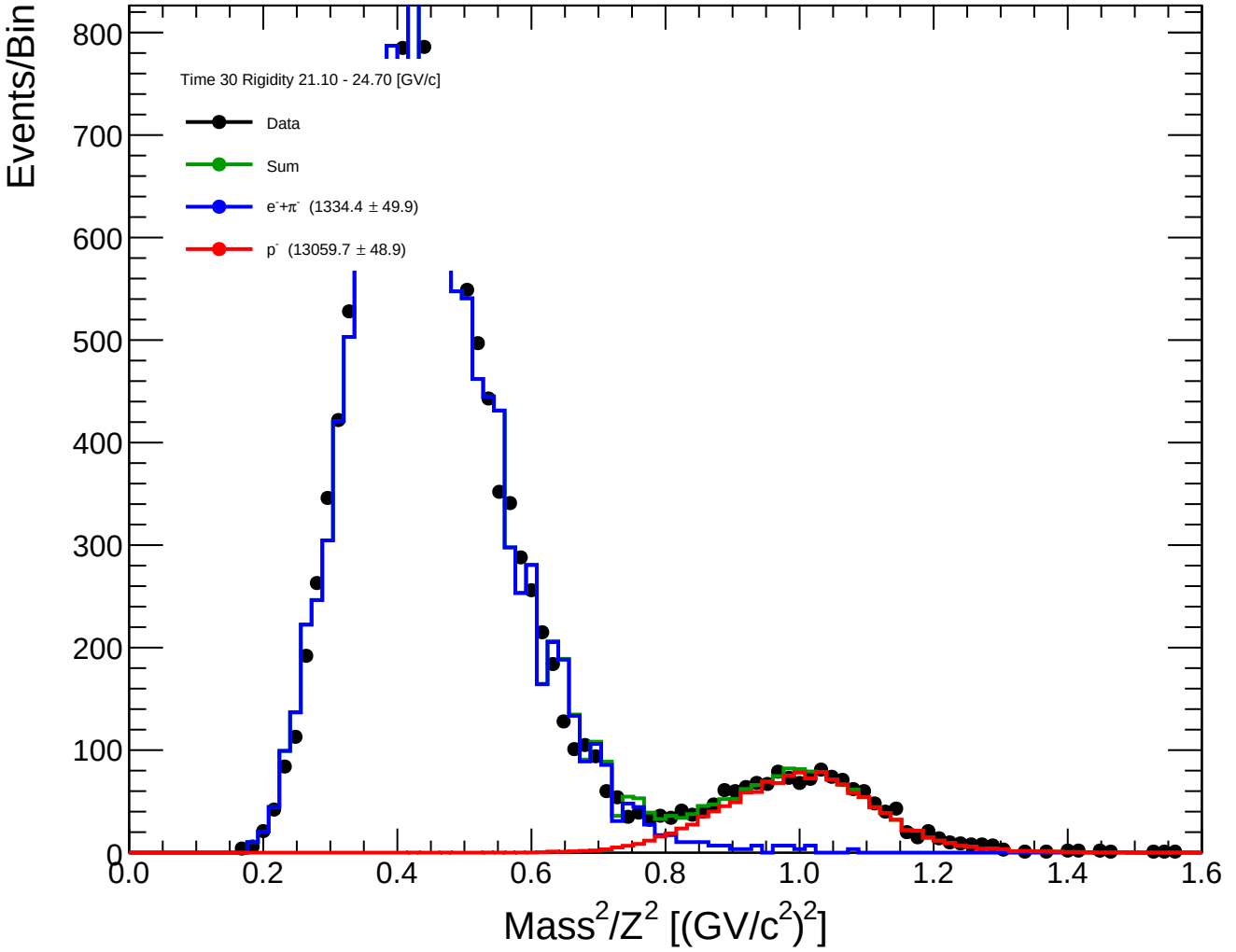

Time 30 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2858.8 ± 67.7)
p⁻ (52905.2 ± 64.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

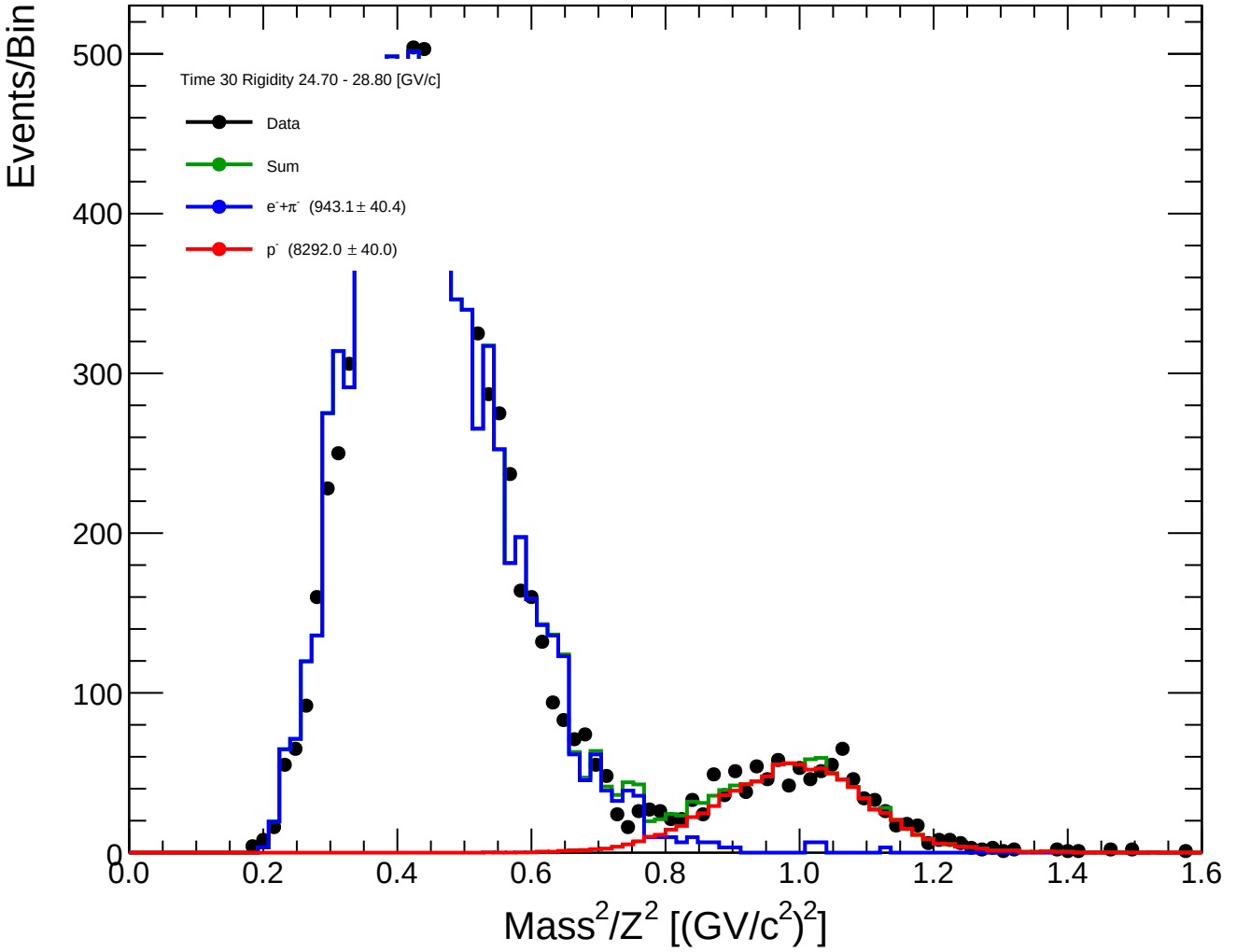

Time 30 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2458.9 ± 63.0)
p⁻ (39497.5 ± 60.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

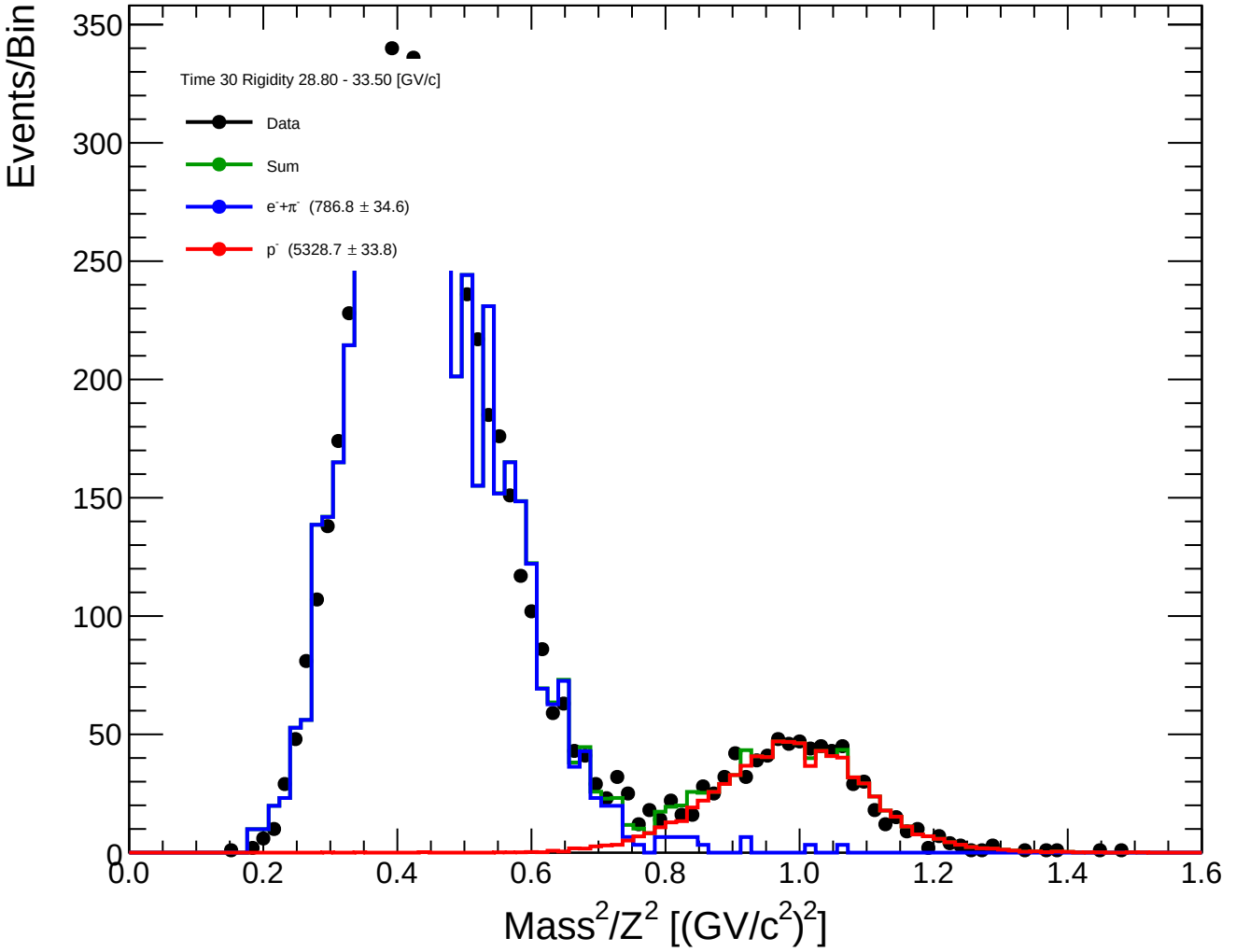

Time 30 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2284.0 ± 53.0)
p⁻ (29114.1 ± 50.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

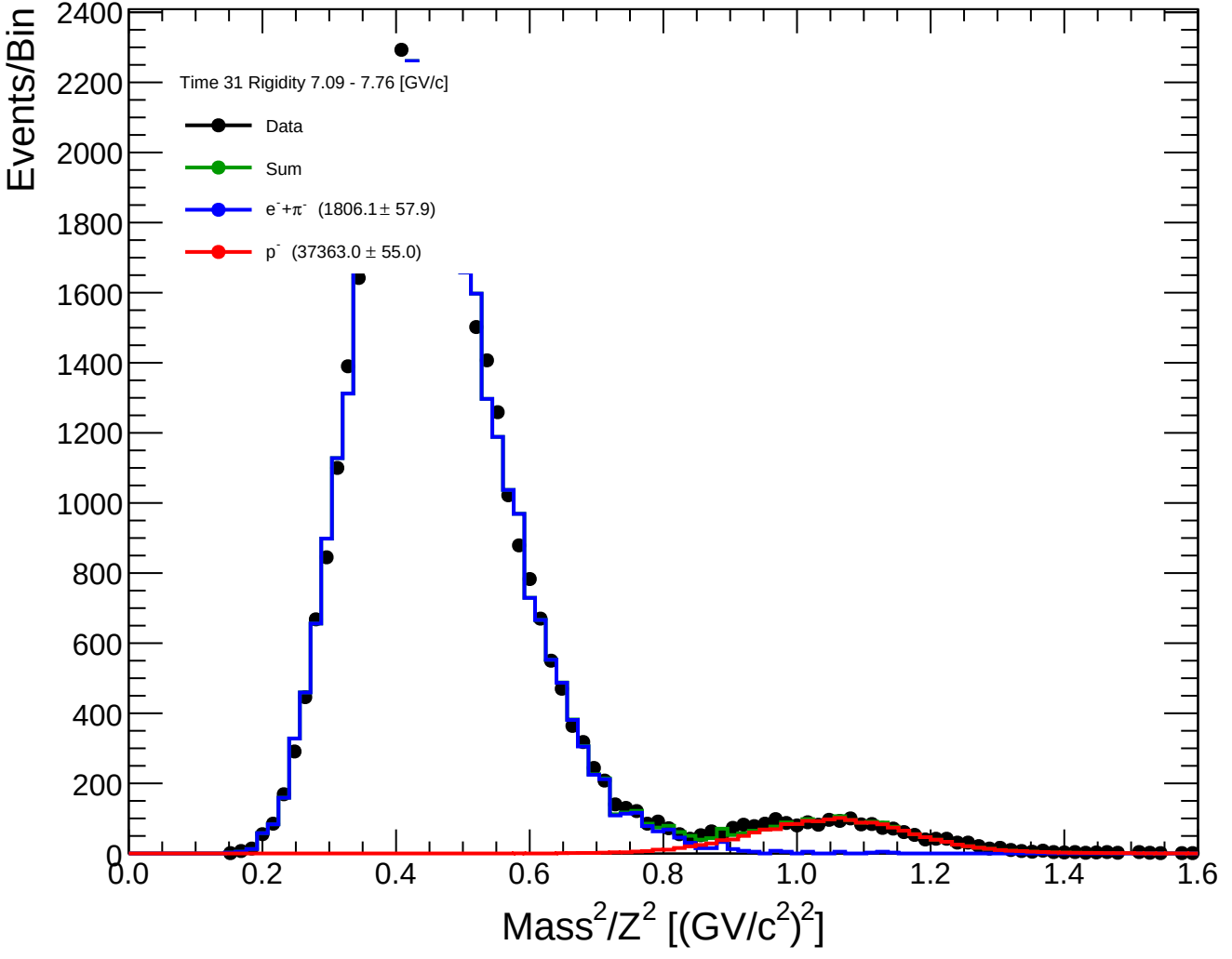

Time 30 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2095.1 ± 46.9)
p⁻ (23919.0 ± 45.5)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

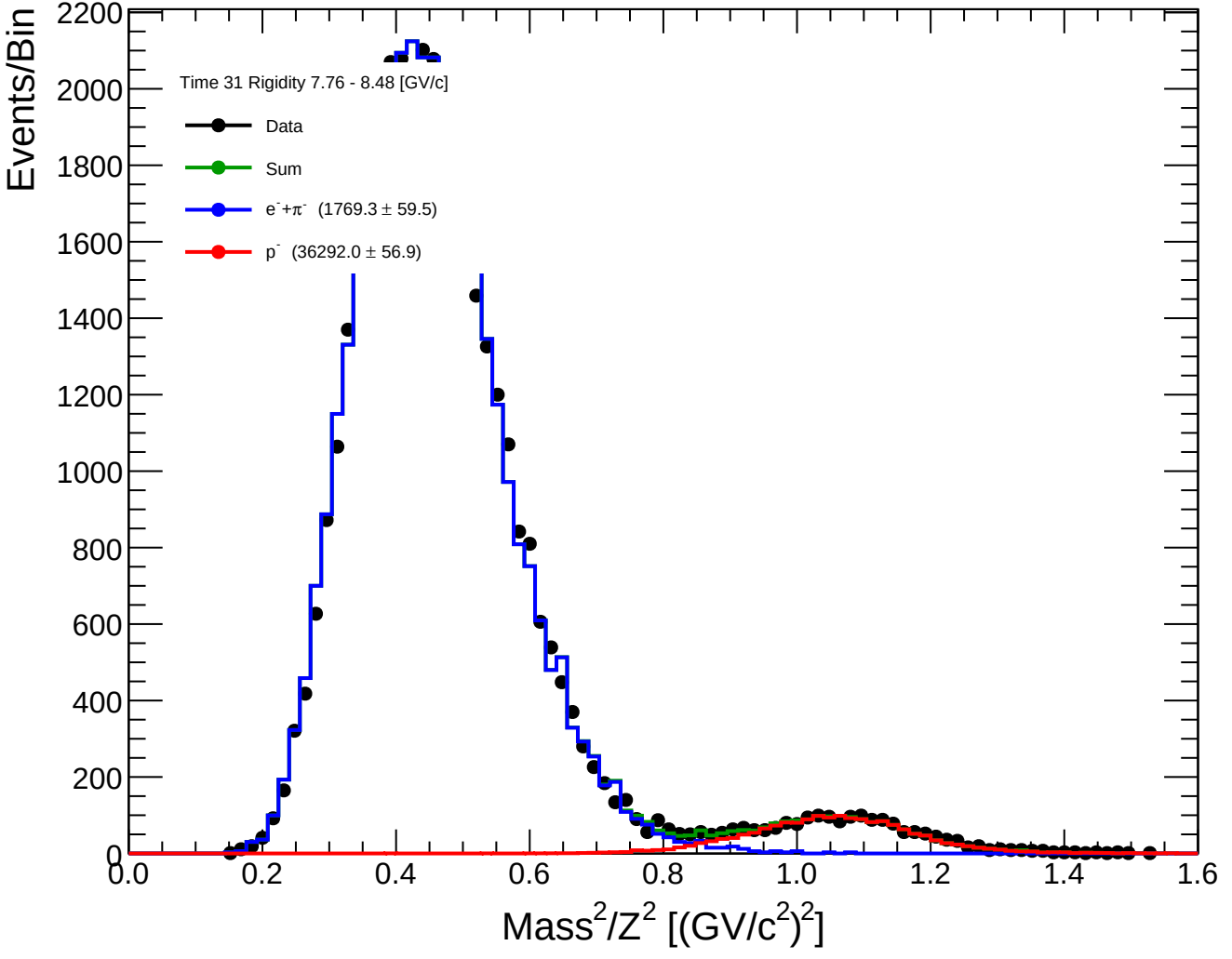

Time 30 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1811.2 ± 55.1)
p⁻ (18896.1 ± 53.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

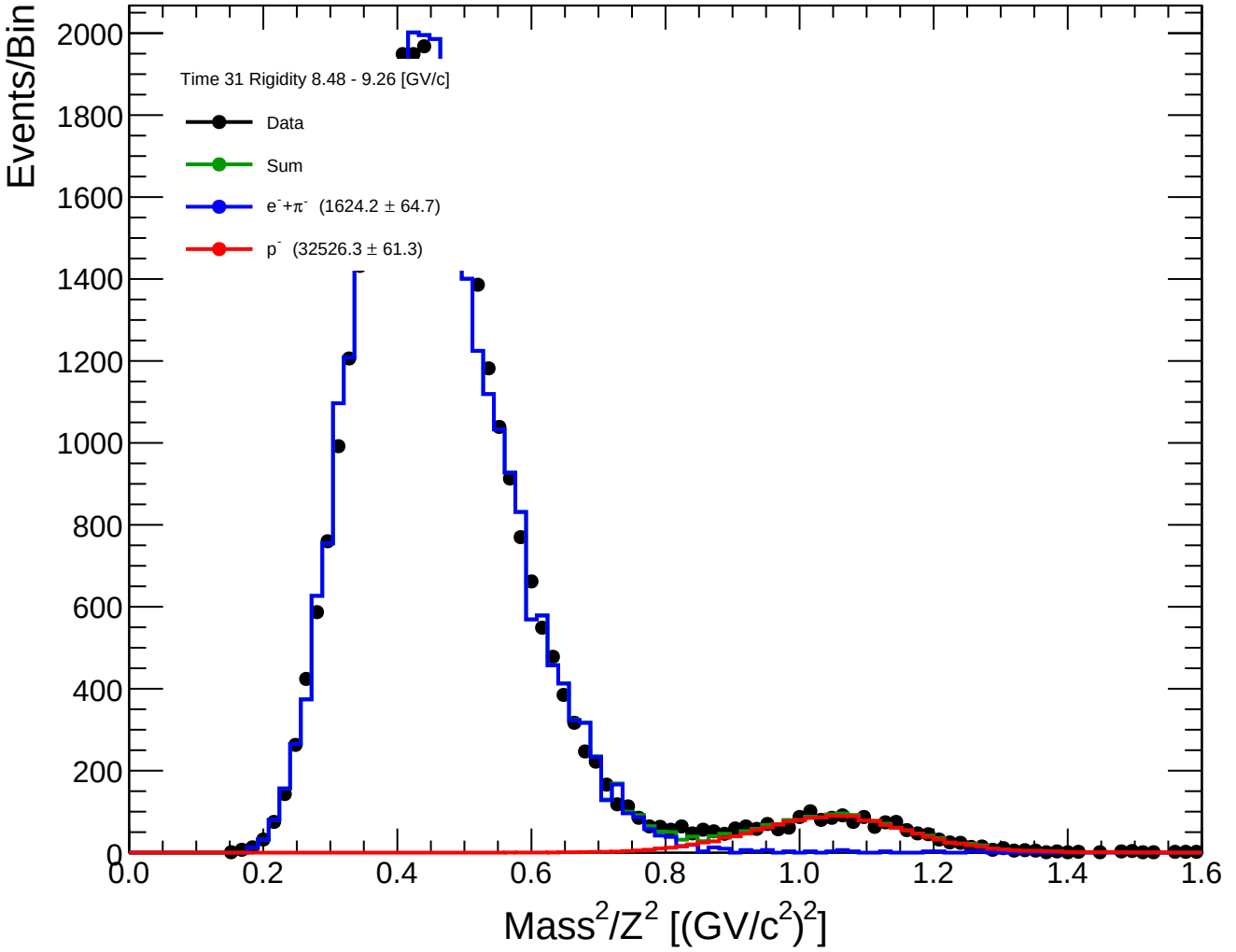

Time 30 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1334.4 ± 49.9)
p⁻ (13059.7 ± 48.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

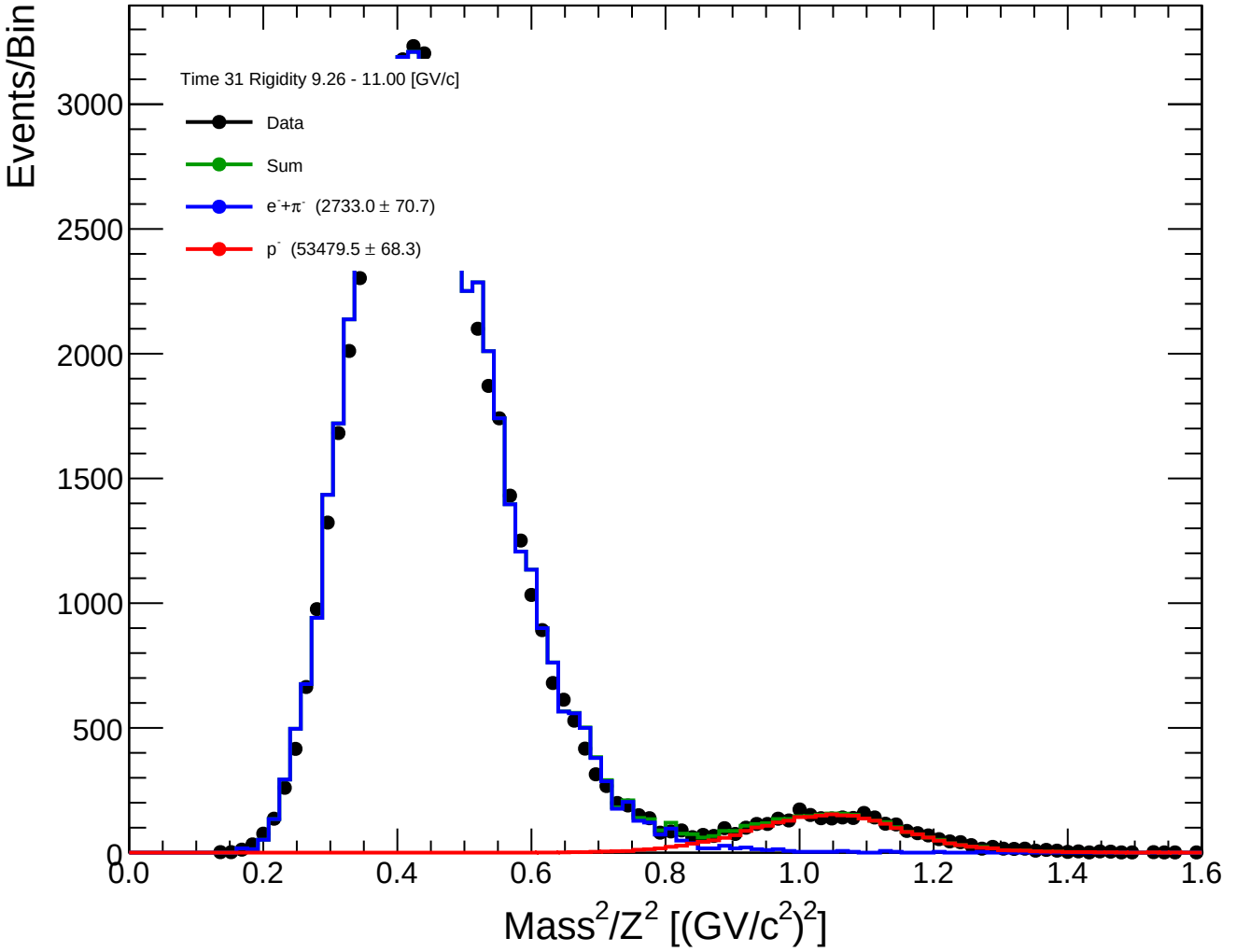

Time 30 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (943.1 ± 40.4)
p⁻ (8292.0 ± 40.0)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

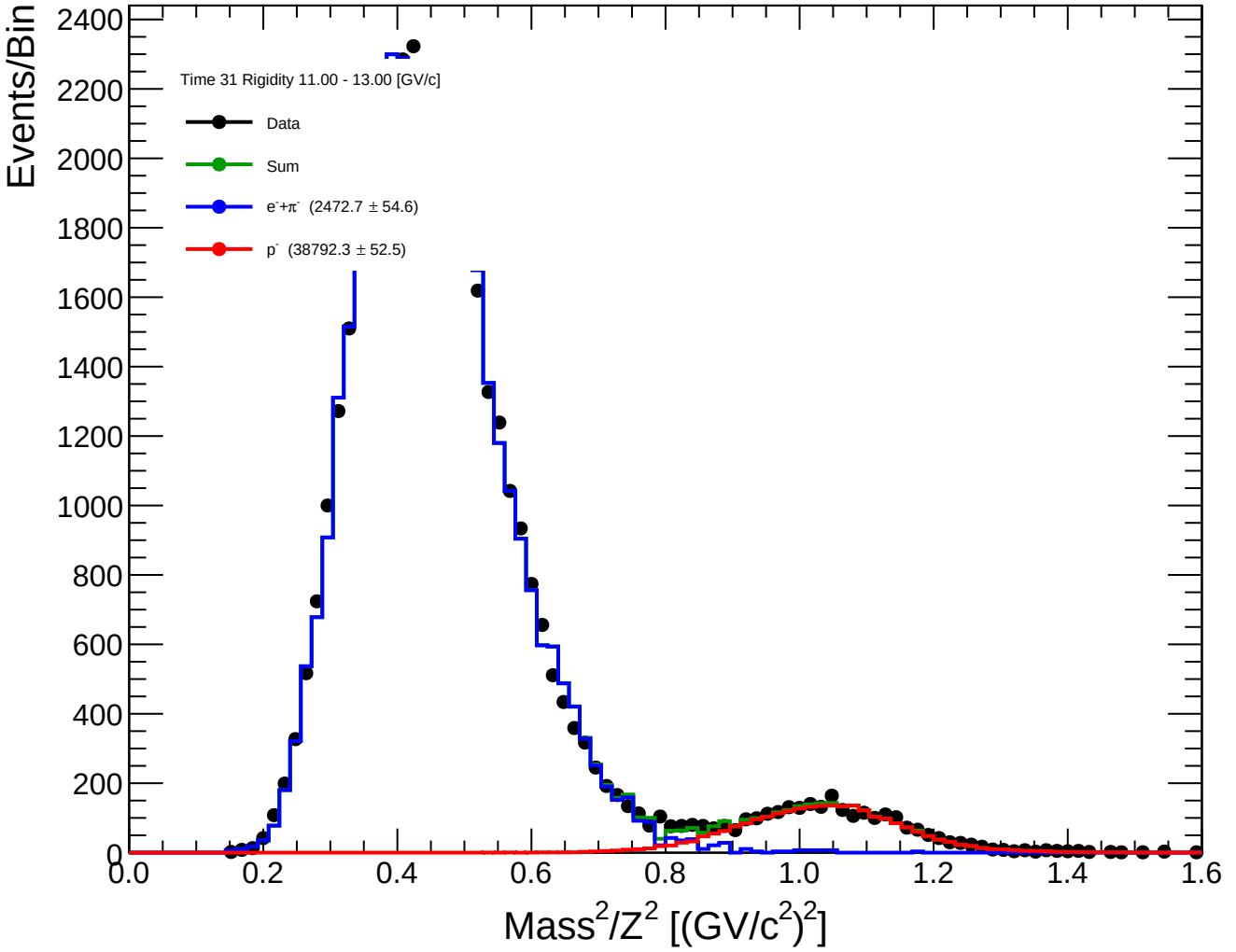

Time 30 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (786.8 ± 34.6)
p⁻ (5328.7 ± 33.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

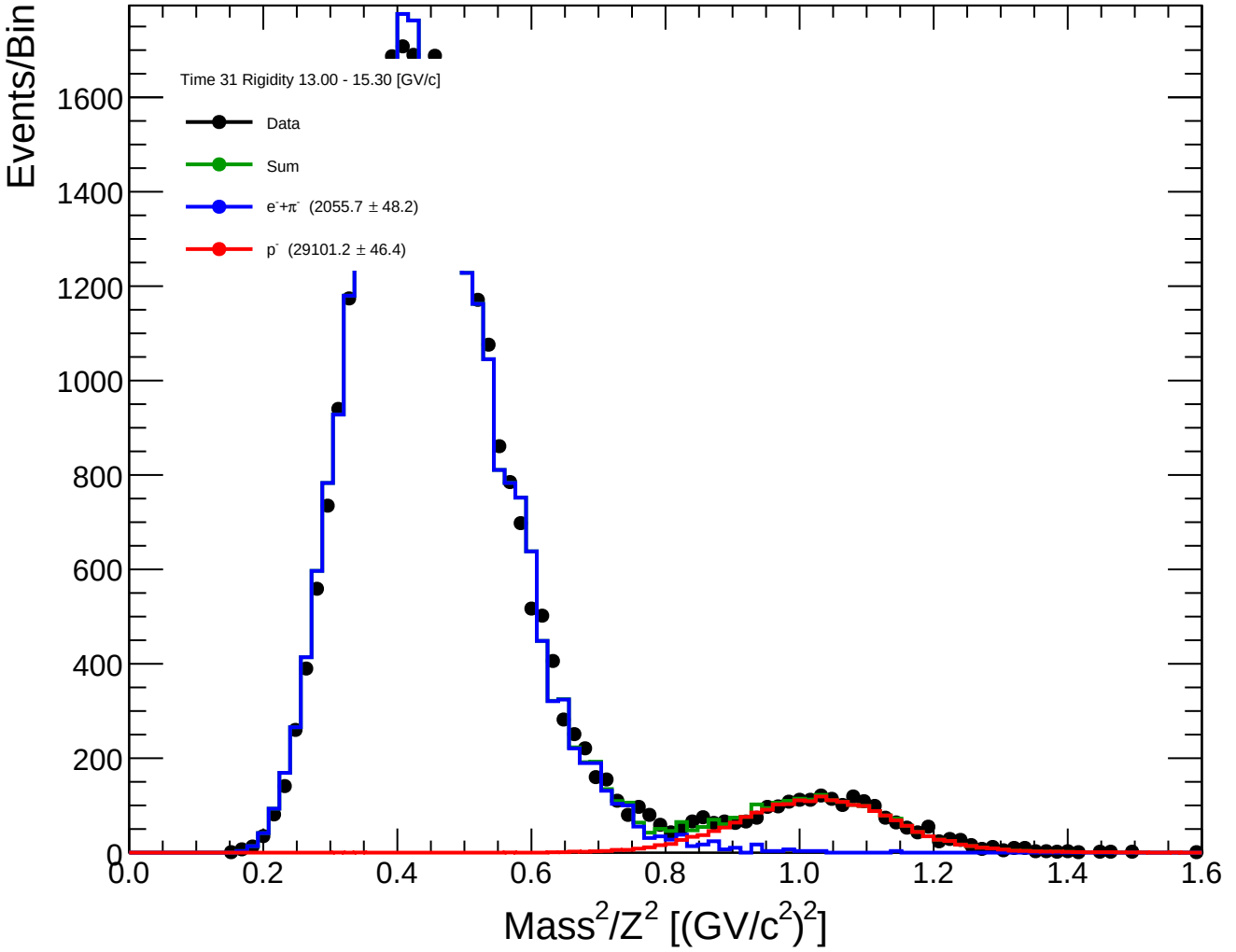

Time 31 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1806.1± 57.9)
p⁻ (37363.0 ± 55.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

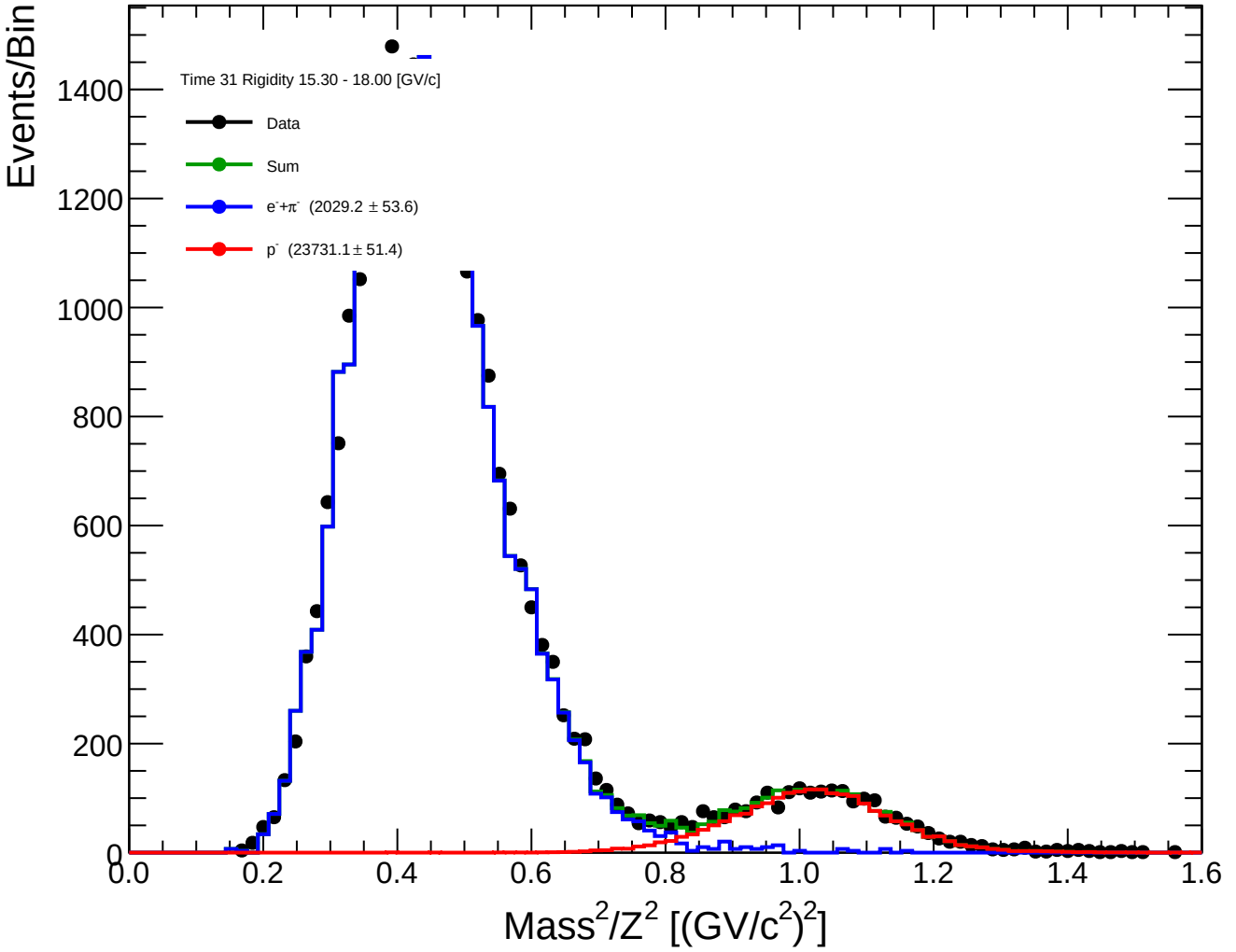

Time 31 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1769.3 ± 59.5)
p⁻ (36292.0 ± 56.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

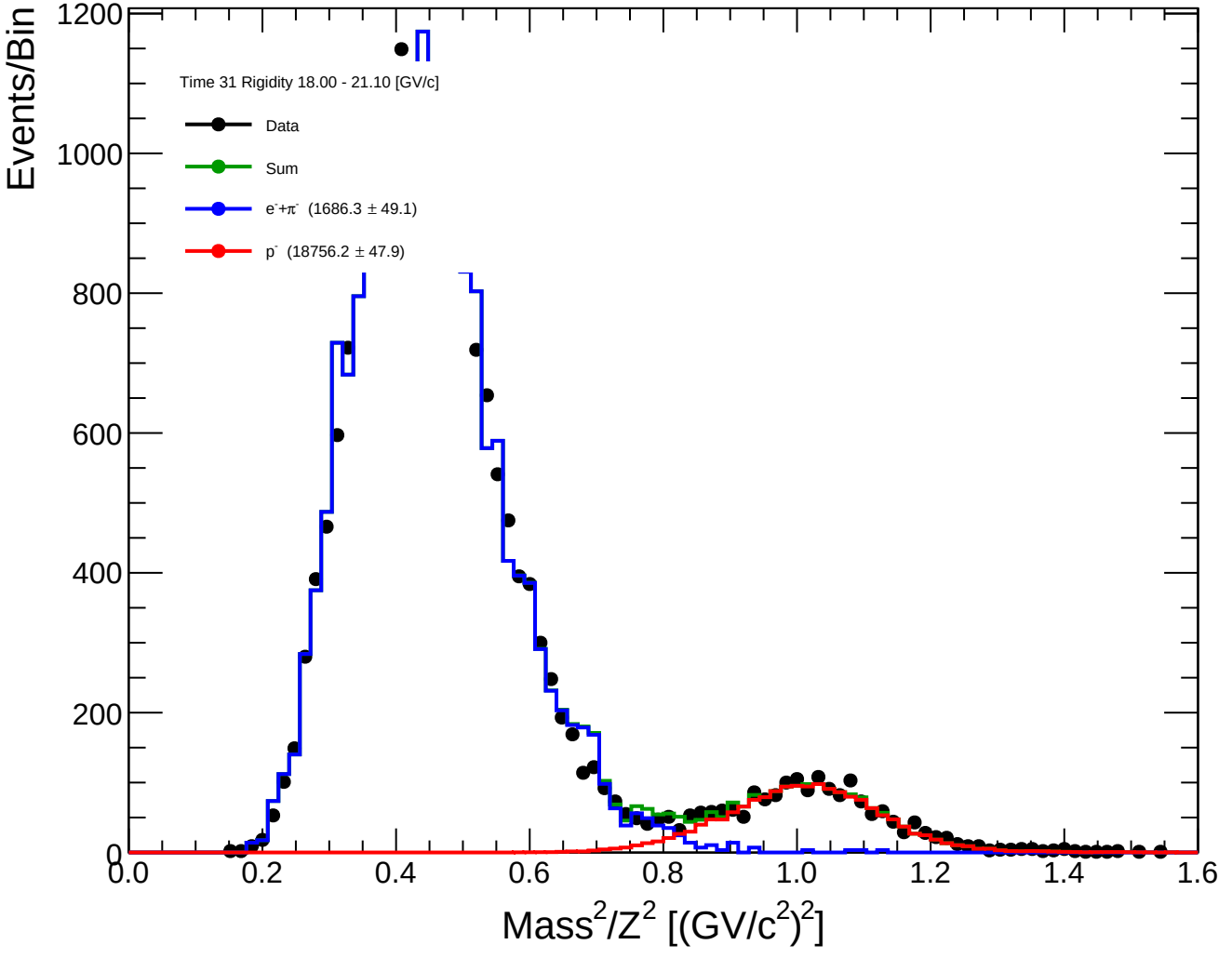

Time 31 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1624.2 ± 64.7)
p⁻ (32526.3 ± 61.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

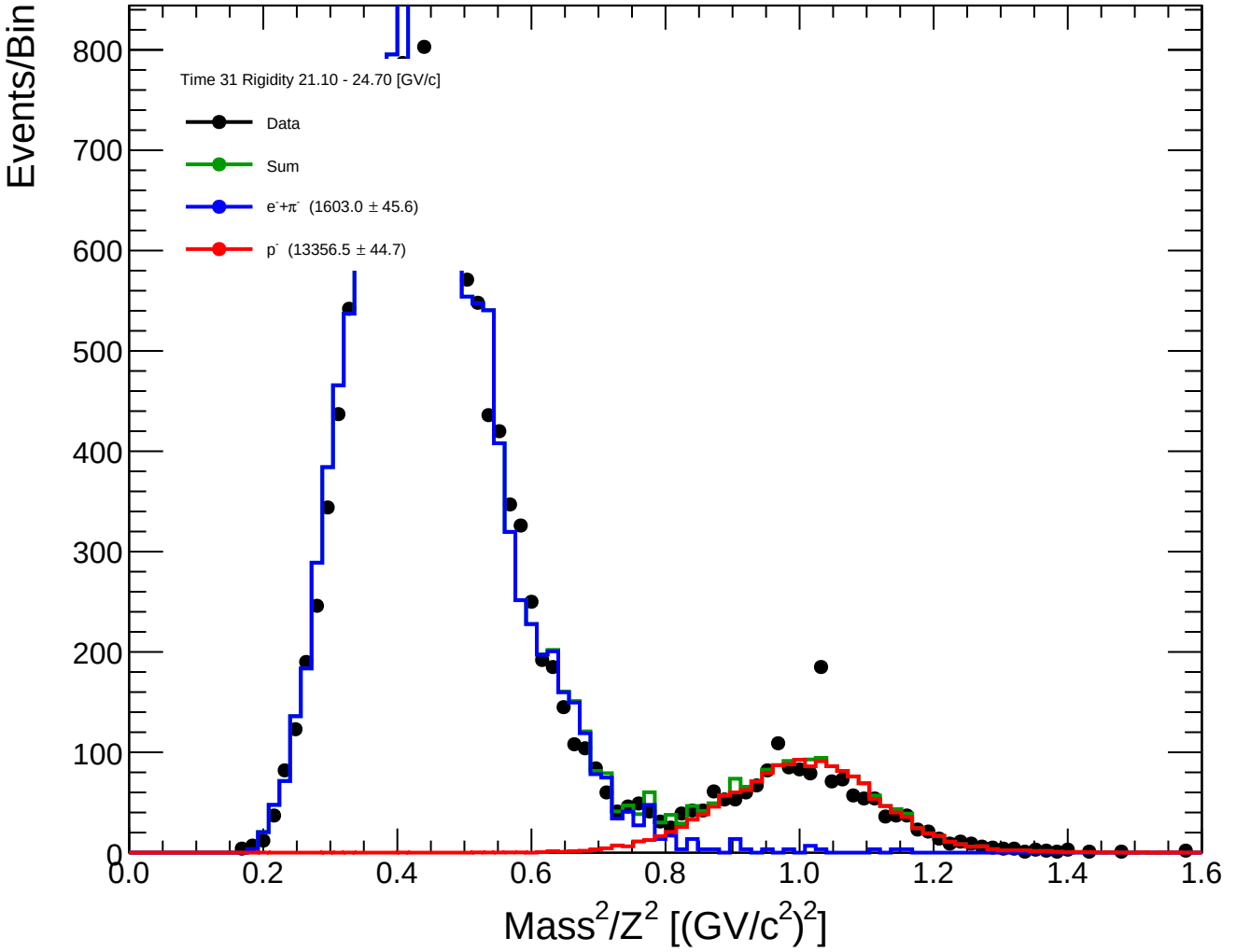

Time 31 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2733.0 ± 70.7)
p⁻ (53479.5 ± 68.3)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

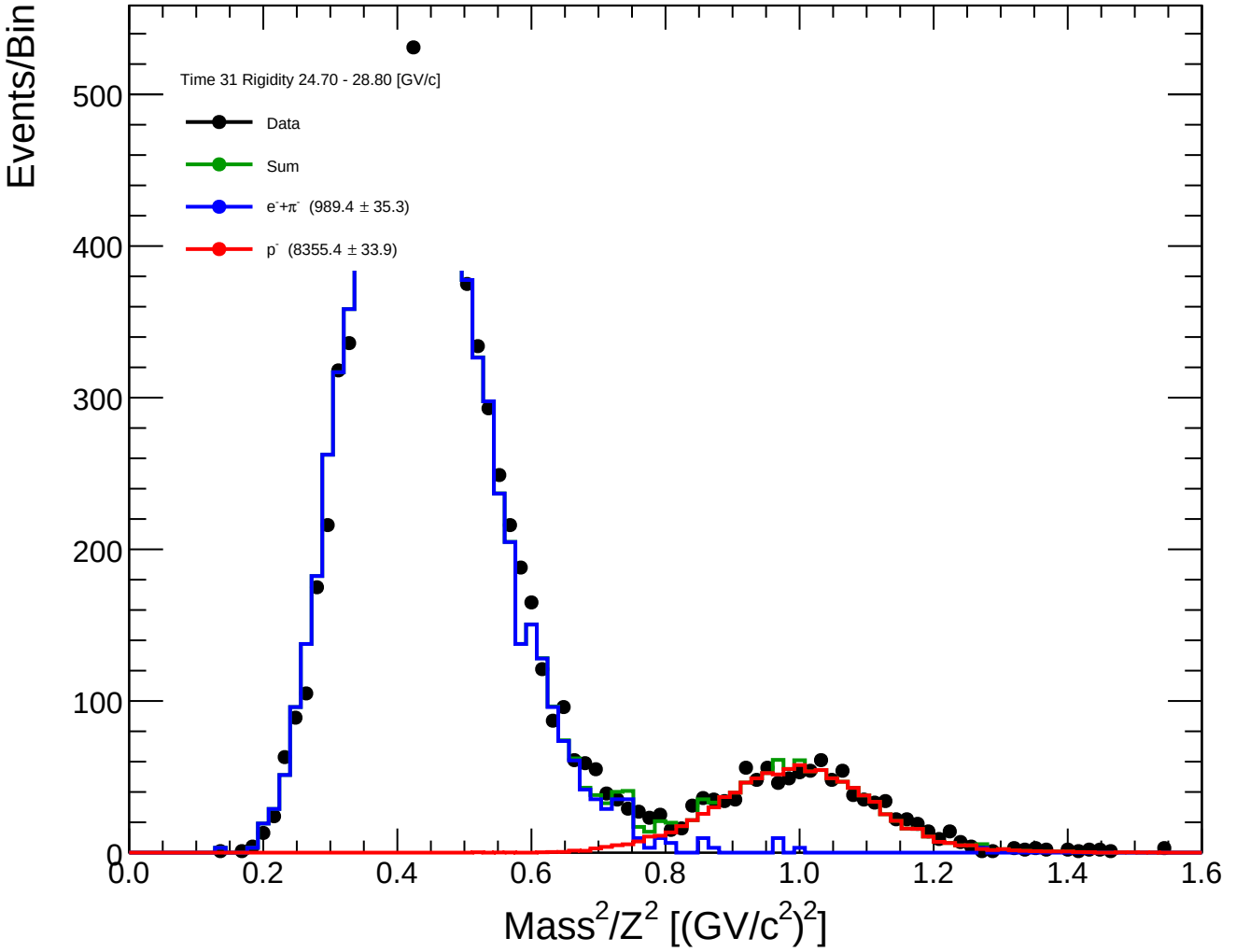

Time 31 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2472.7 ± 54.6)
p⁻ (38792.3 ± 52.5)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

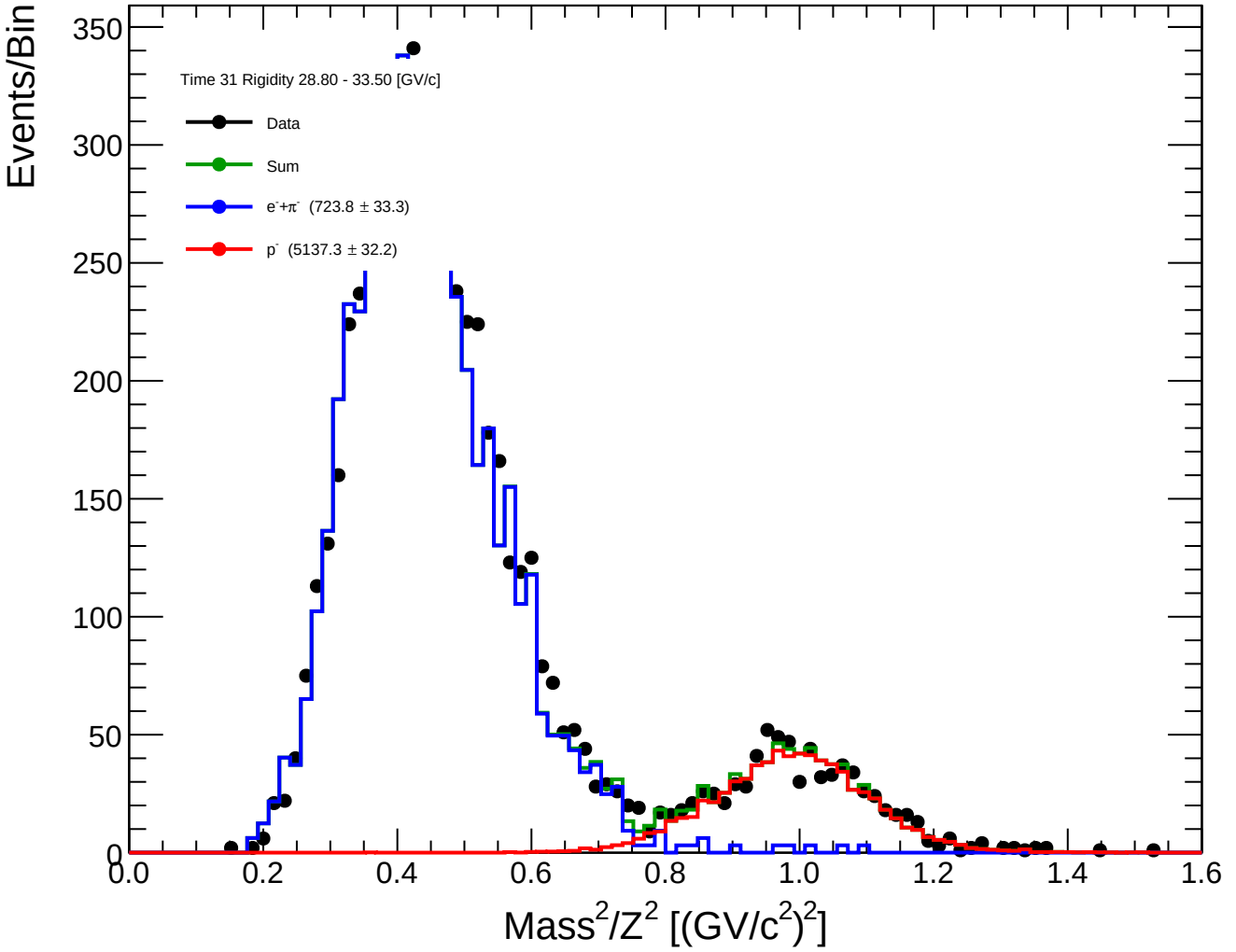

Time 31 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2055.7 ± 48.2)
p⁻ (29101.2 ± 46.4)
Events/Bin
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

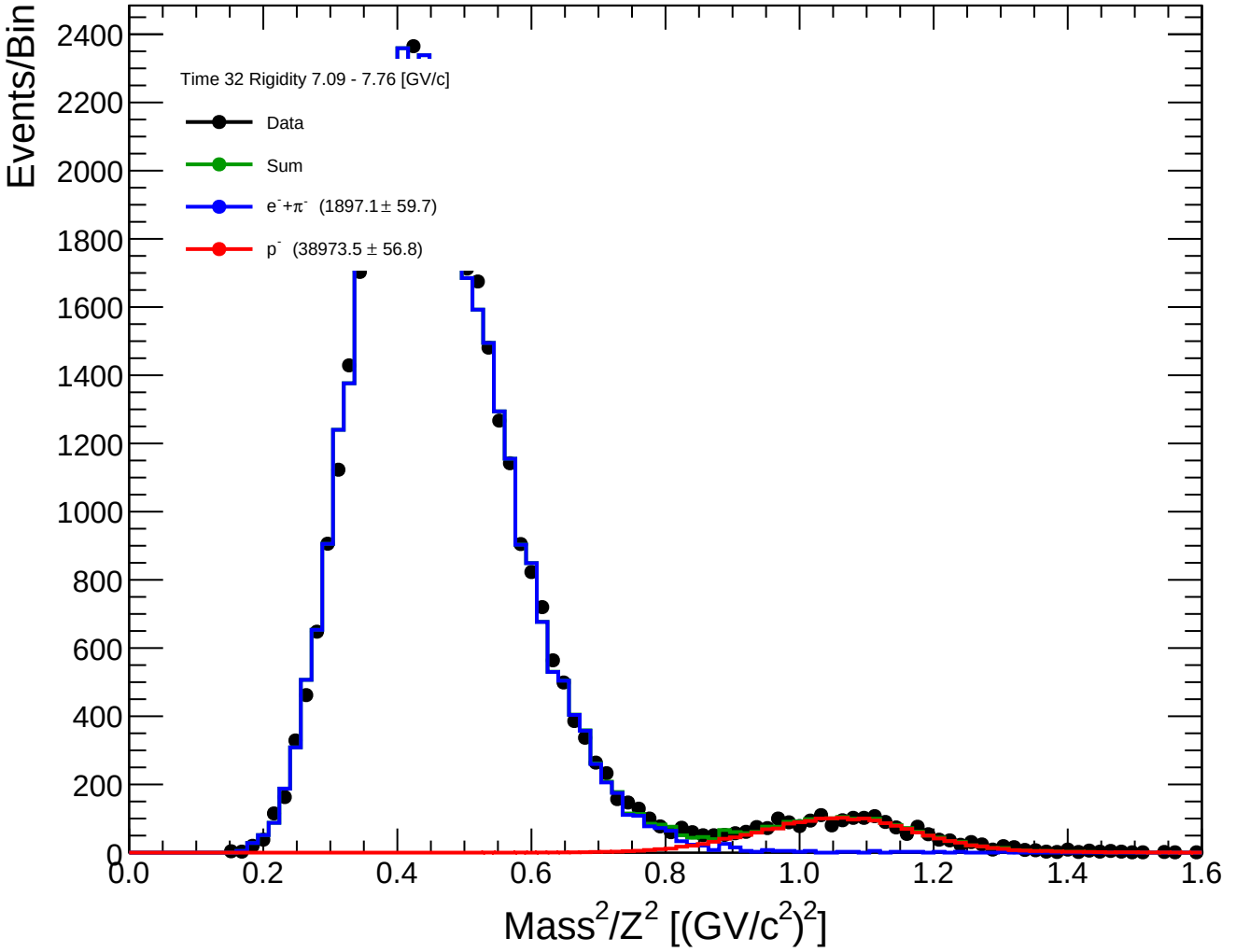

Time 31 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2029.2 ± 53.6)
p⁻ (23731.1 ± 51.4)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

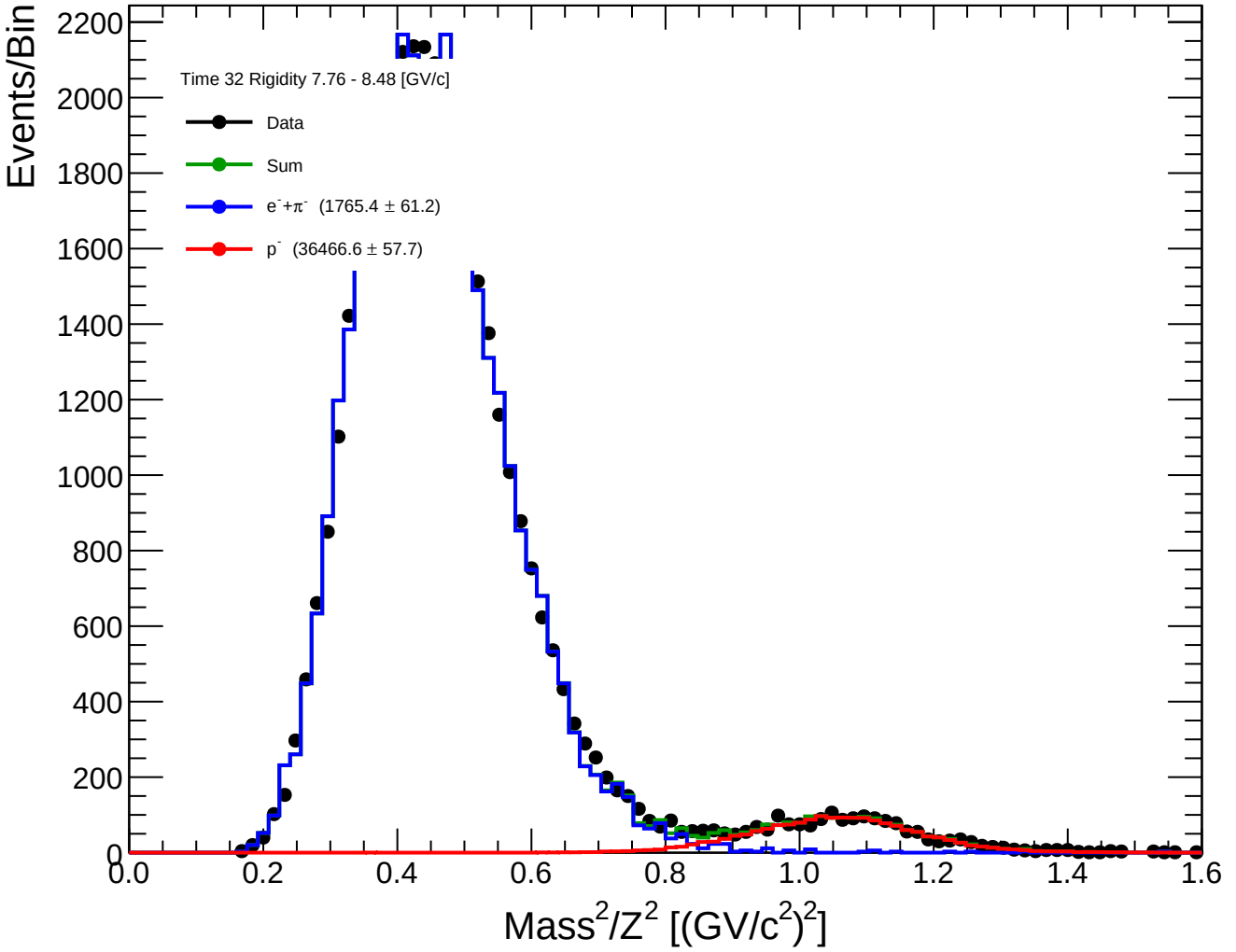

Time 31 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1686.3 ± 49.1)
p⁻ (18756.2 ± 47.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

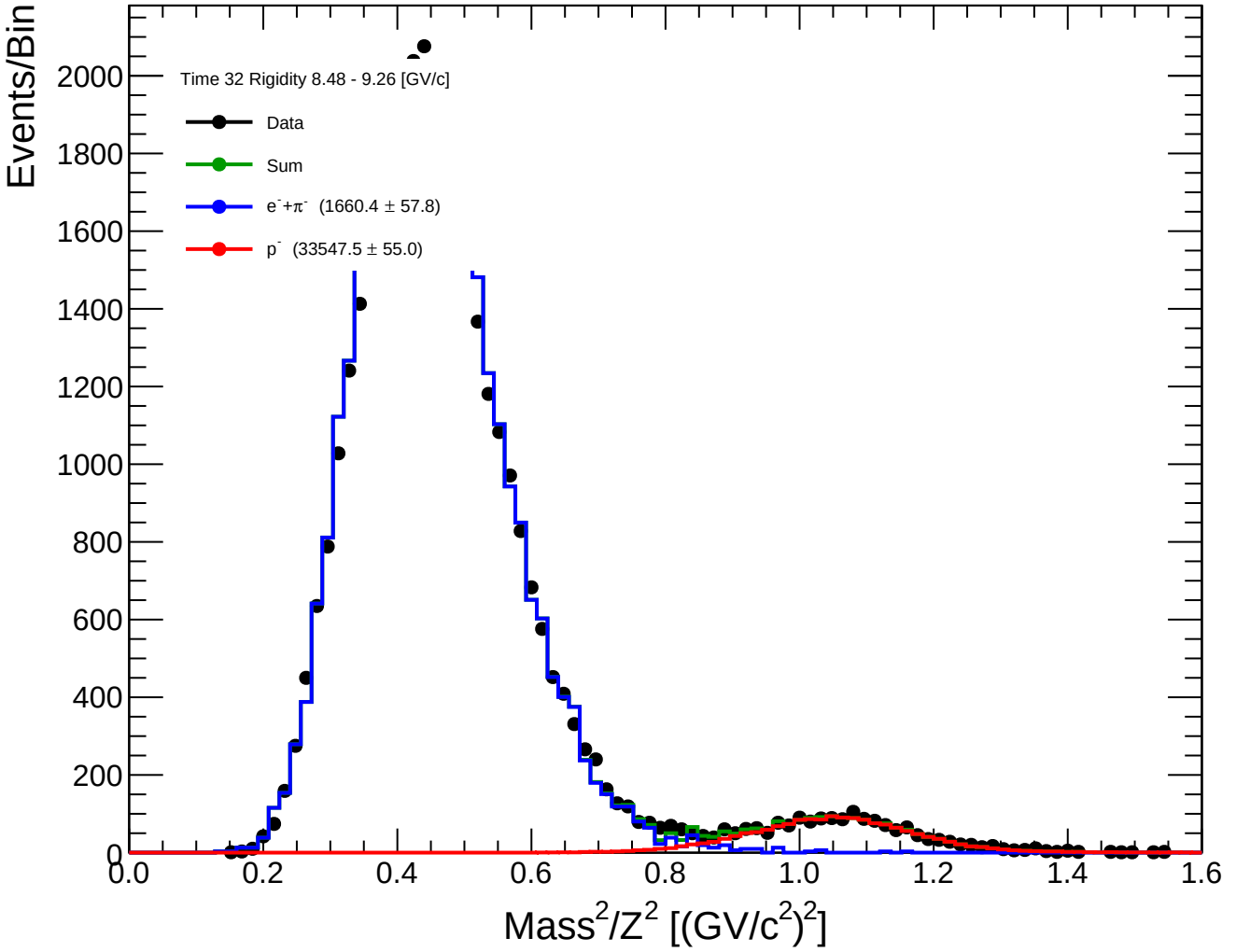

Time 31 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1603.0 ± 45.6)
p⁻ (13356.5 ± 44.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

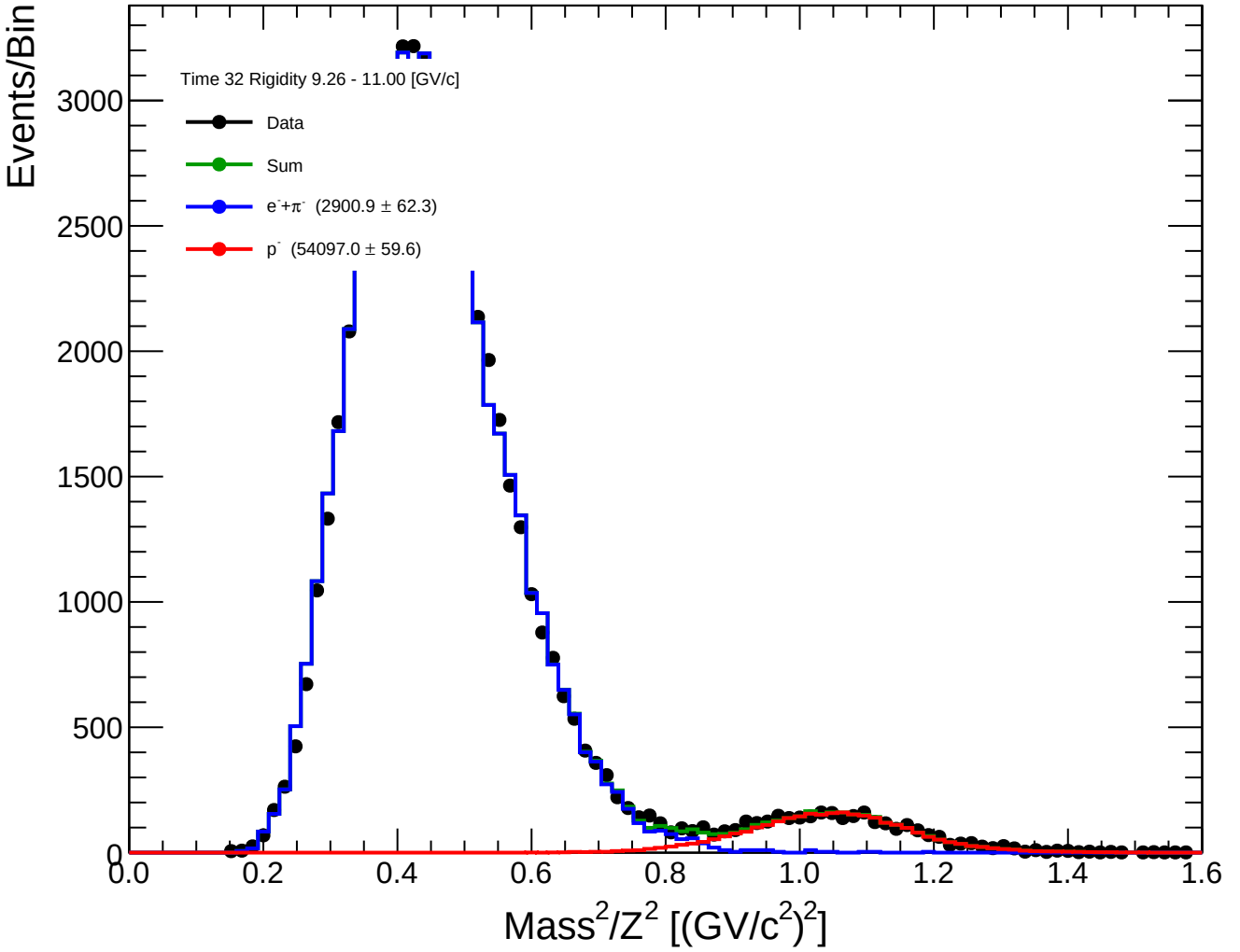

Time 31 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (989.4 ± 35.3)
p⁻ (8355.4 ± 33.9)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

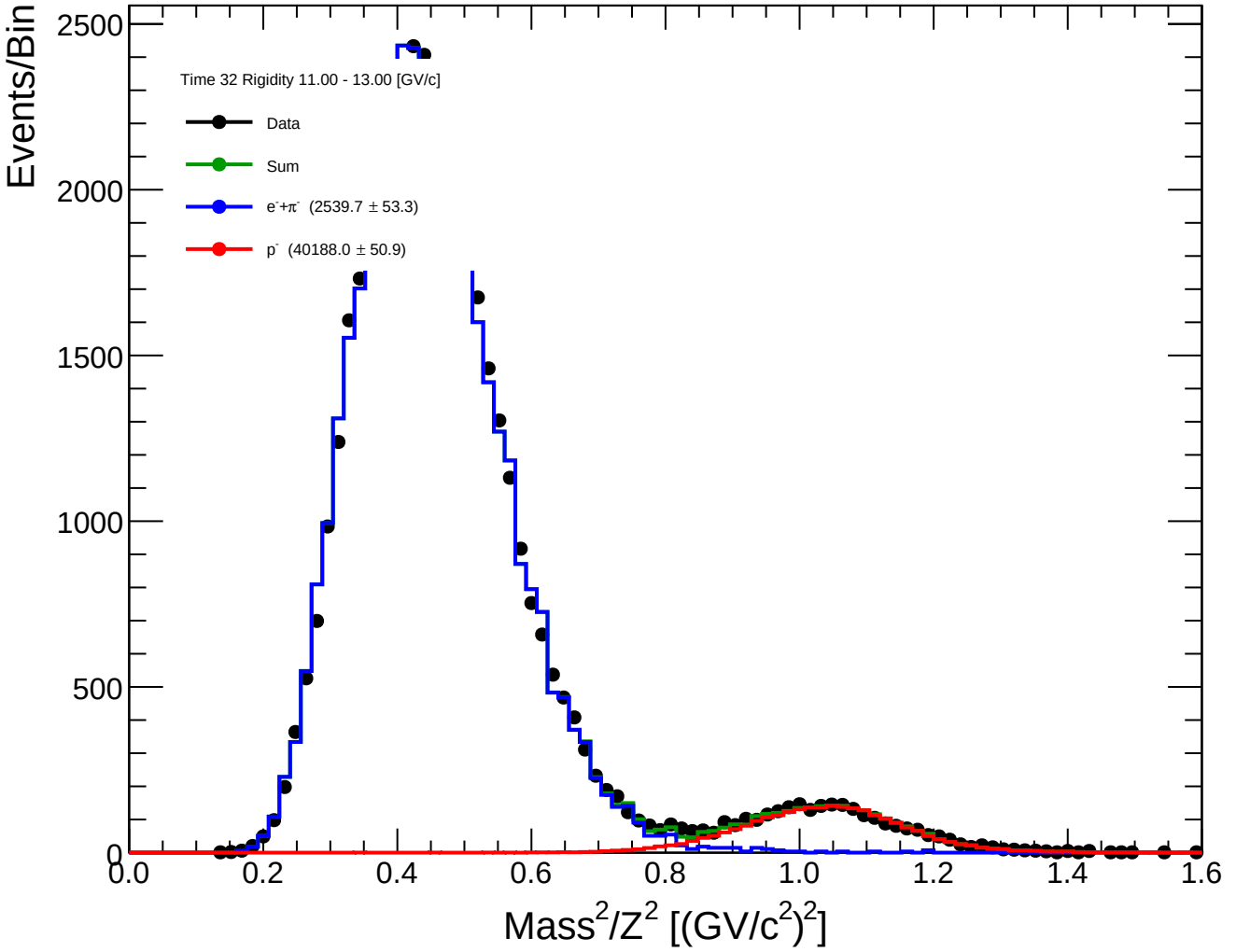

Time 31 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (723.8 ± 33.3)
p⁻ (5137.3 ± 32.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

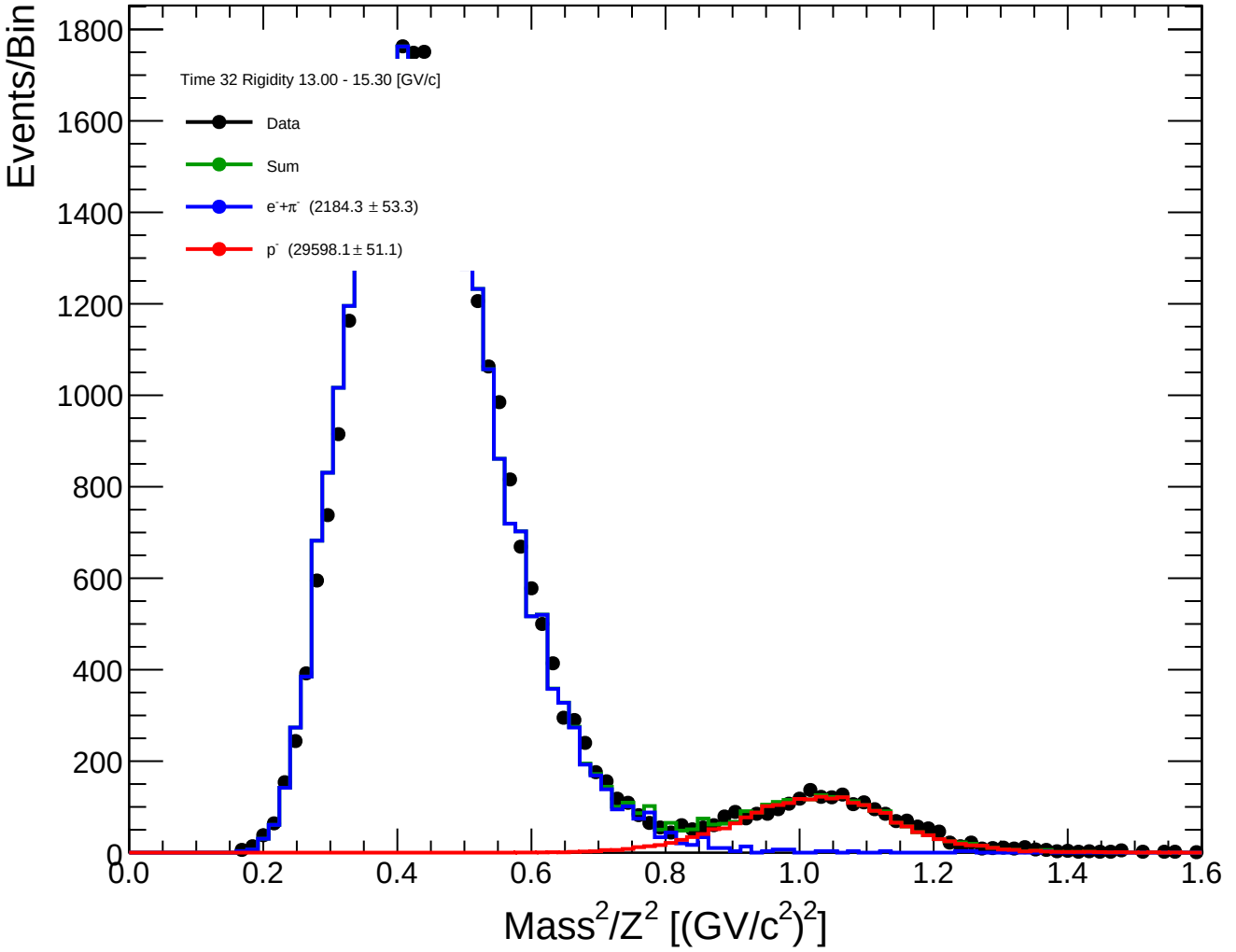

Time 32 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1897.1± 59.7)
p⁻ (38973.5 ± 56.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

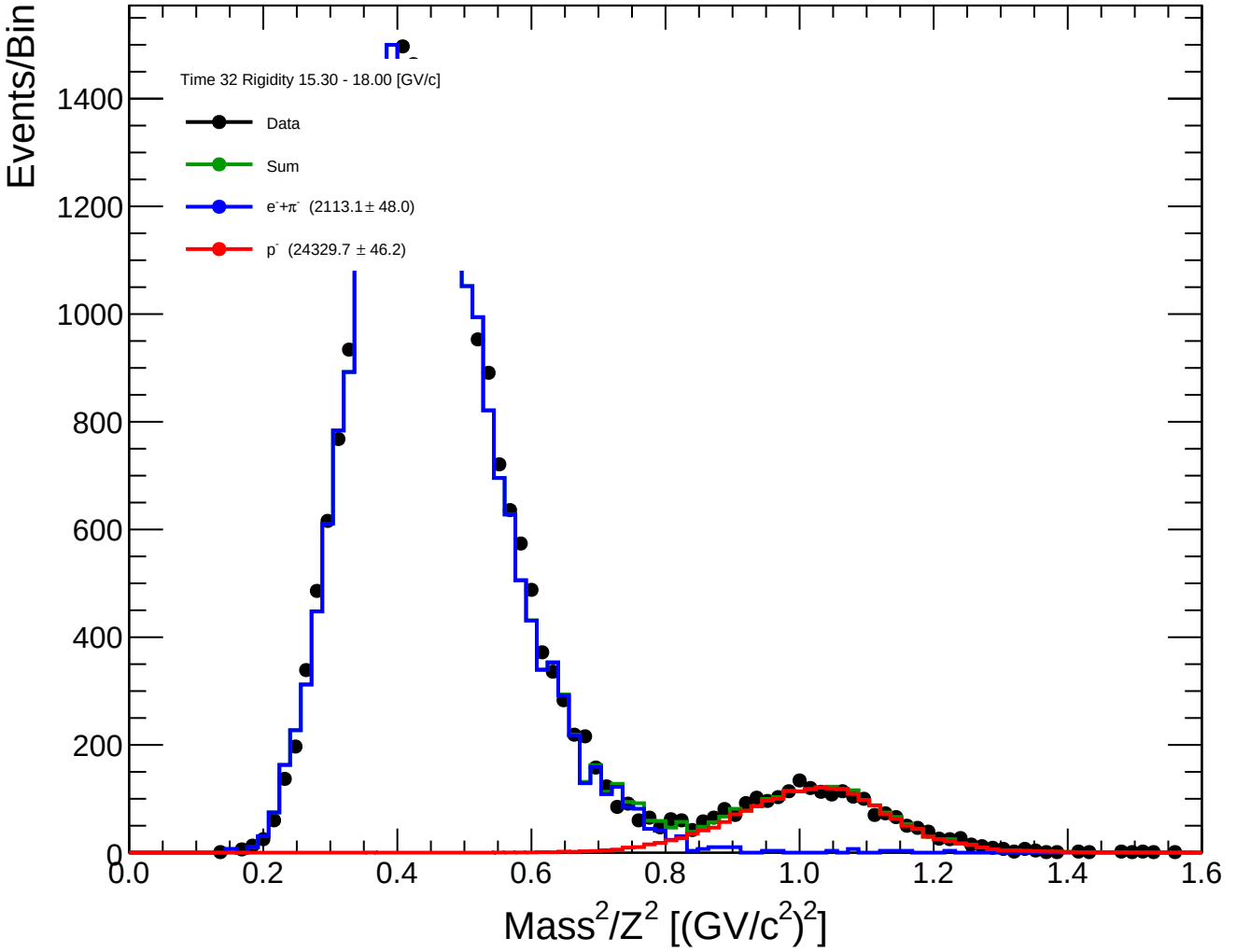

Events/Bin
Time 32 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1765.4 ± 61.2)
p⁻ (36466.6 ± 57.7)
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

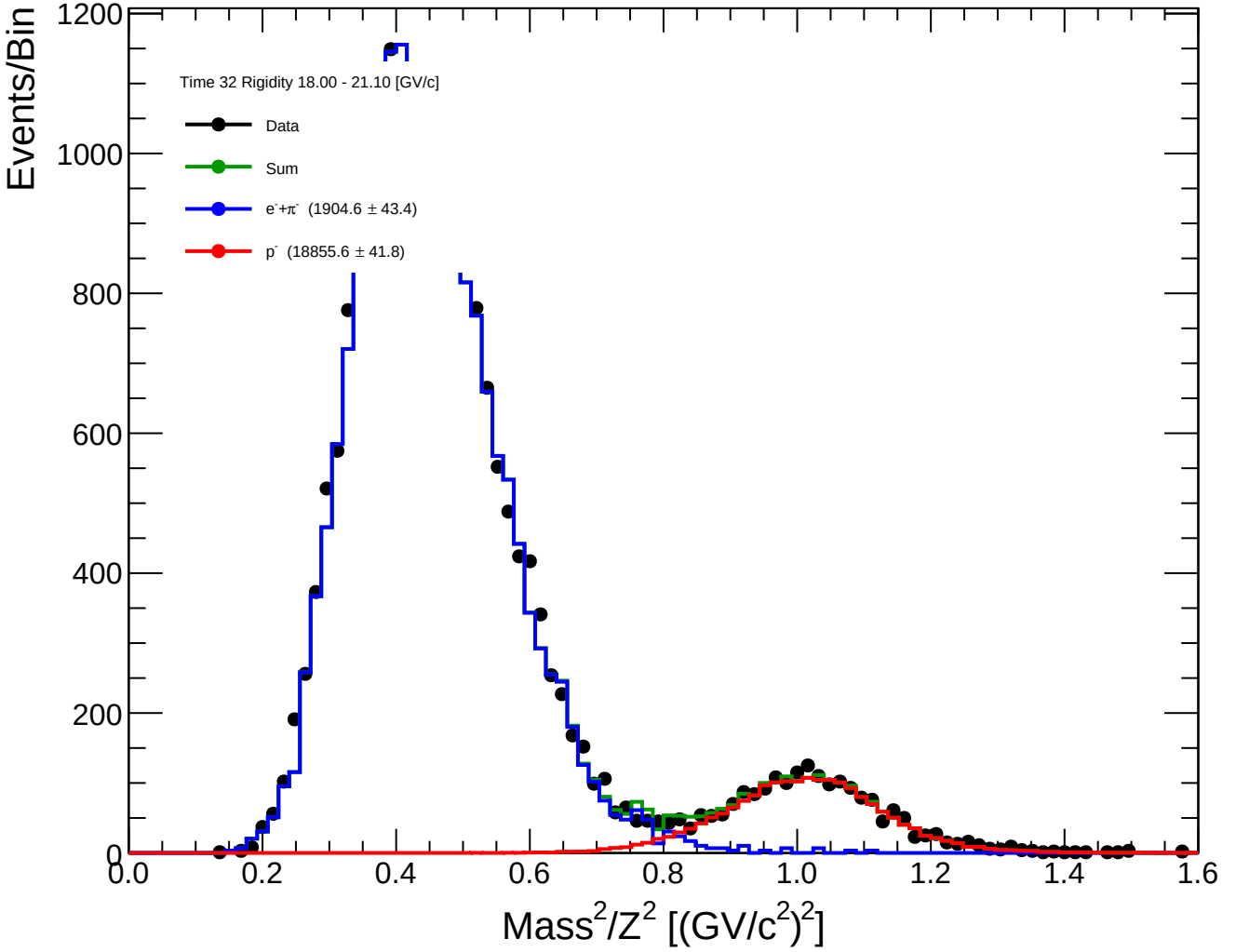

Time 32 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1660.4 ± 57.8)
p⁻ (33547.5 ± 55.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

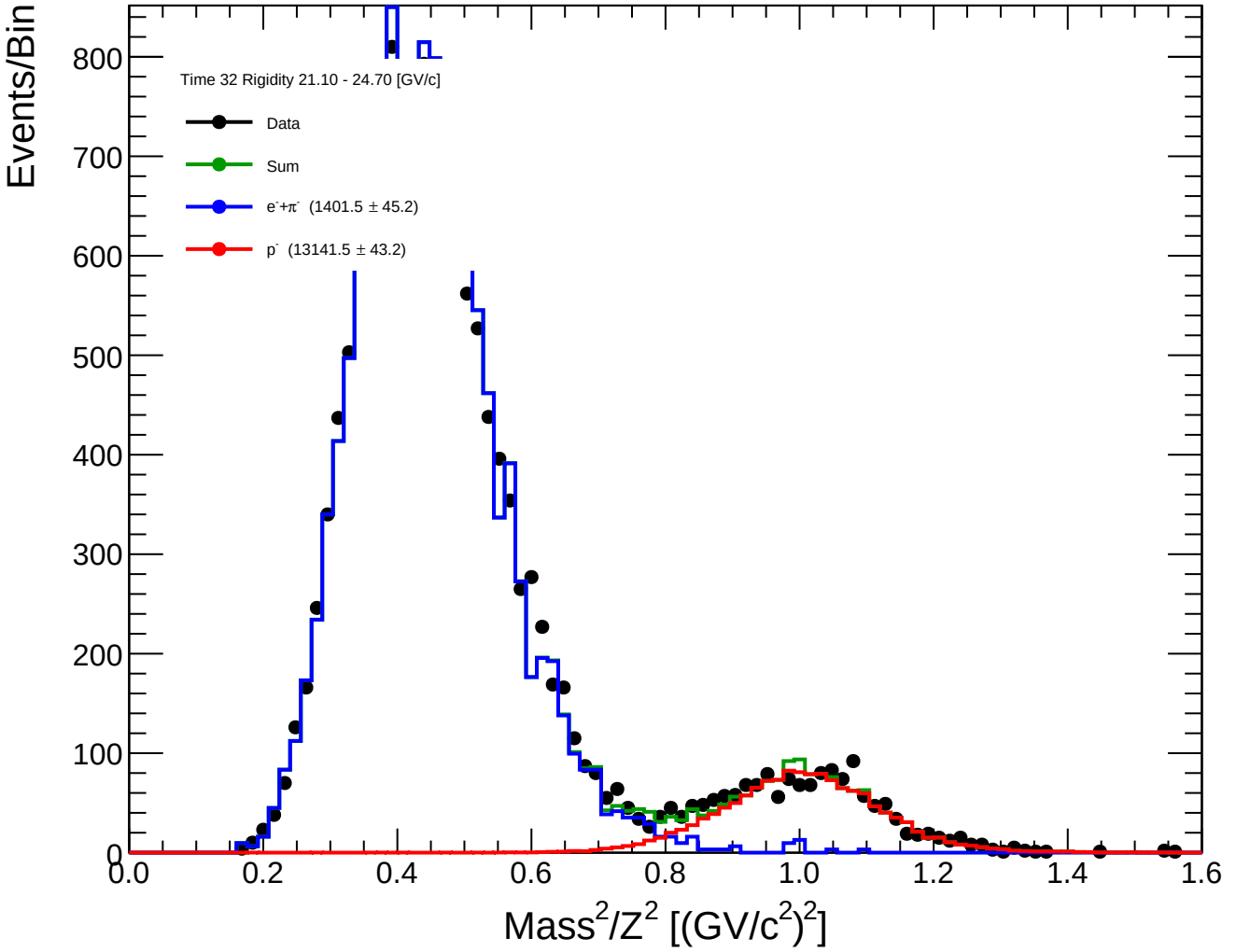

Time 32 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (2900.9 ± 62.3)
p⁻ (54097.0 ± 59.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
3000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

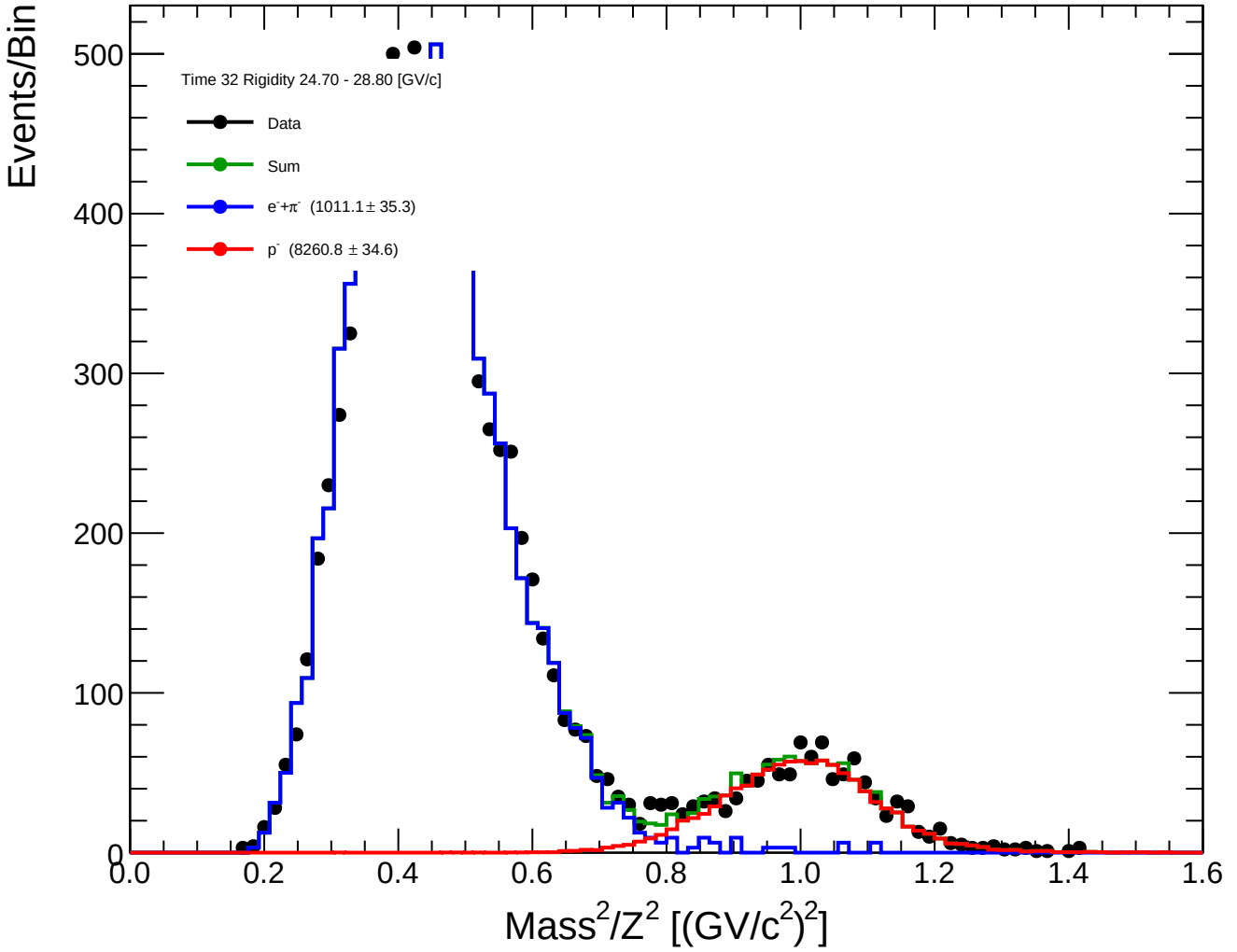

Time 32 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (2539.7 ± 53.3)
p⁻ (40188.0 ± 50.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
500
1000
1500
2000
2500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

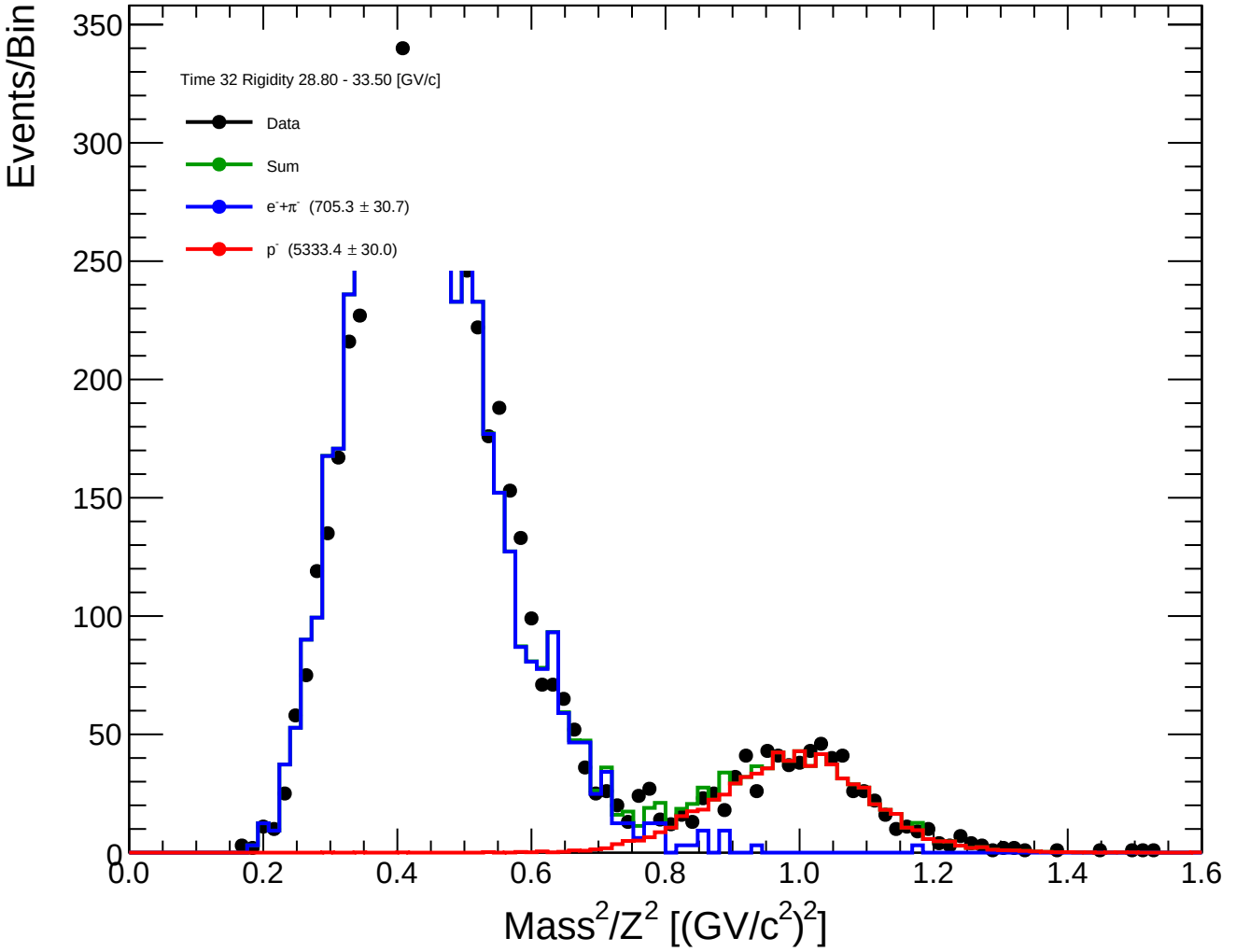

Time 32 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (2184.3 ± 53.3)
p⁻ (29598.1 ± 51.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

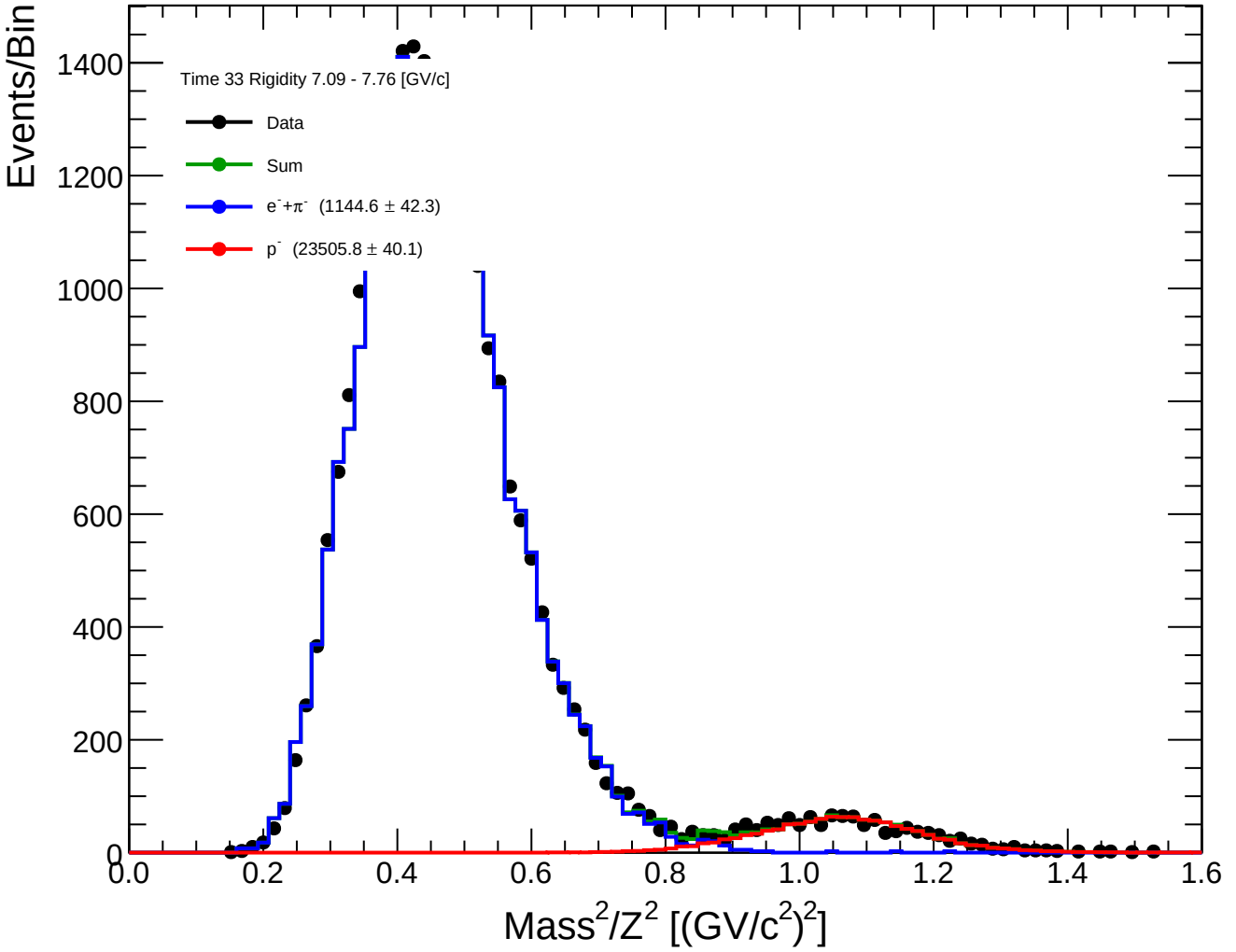

Time 32 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (2113.1 ± 48.0)
p⁻ (24329.7 ± 46.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

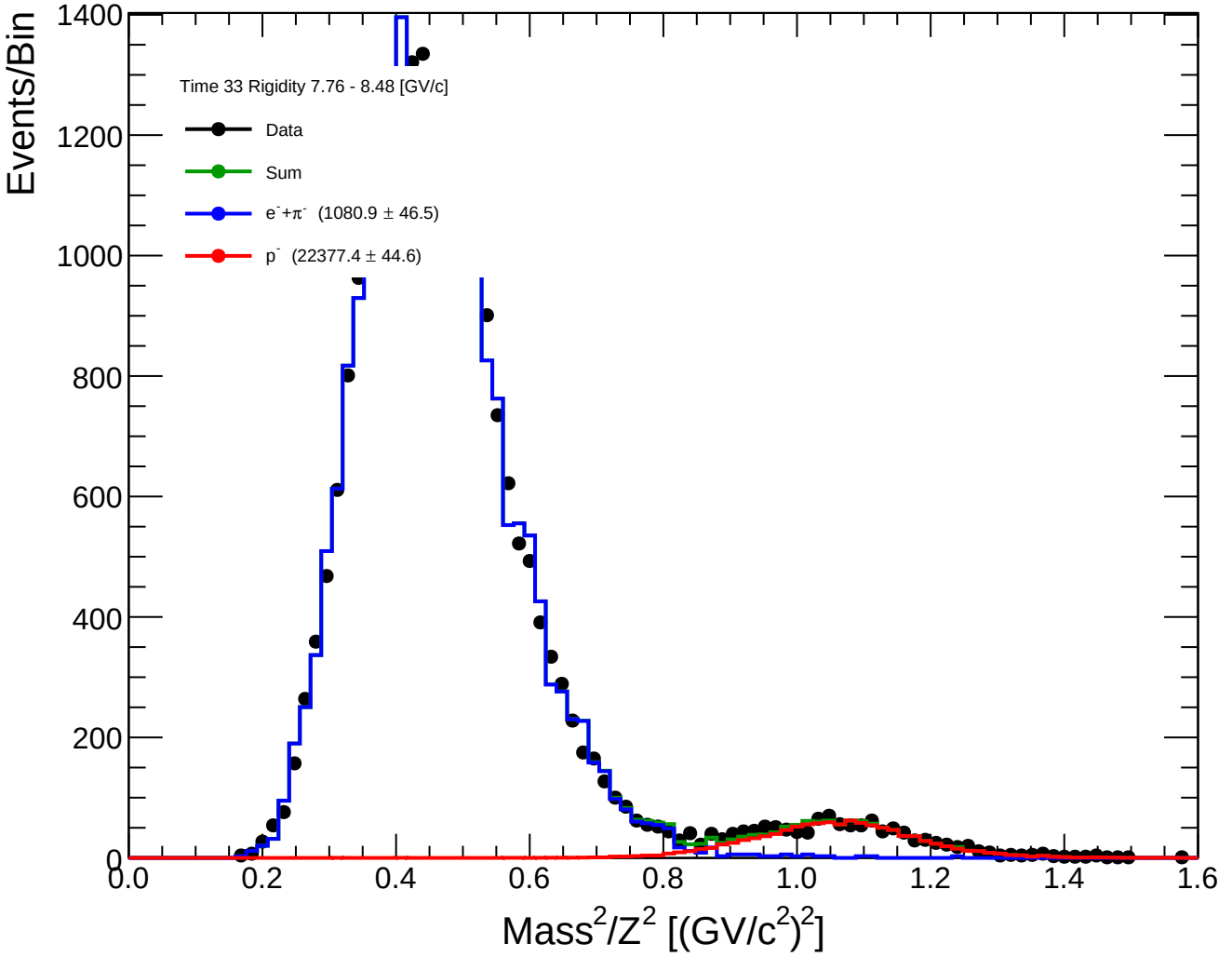

Time 32 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1904.6 ± 43.4)
p⁻ (18855.6 ± 41.8)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

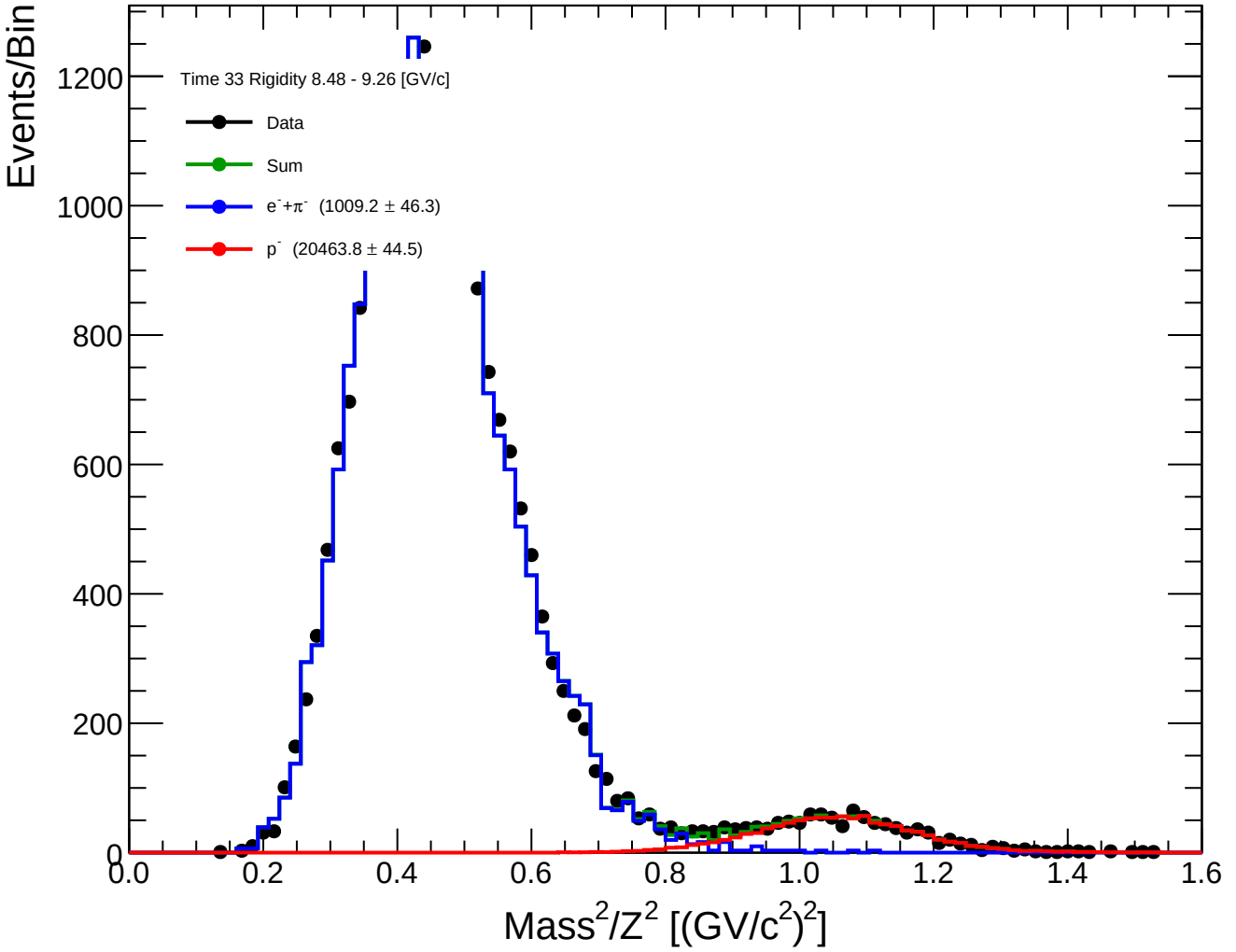

Time 32 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (1401.5 ± 45.2)
p⁻ (13141.5 ± 43.2)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

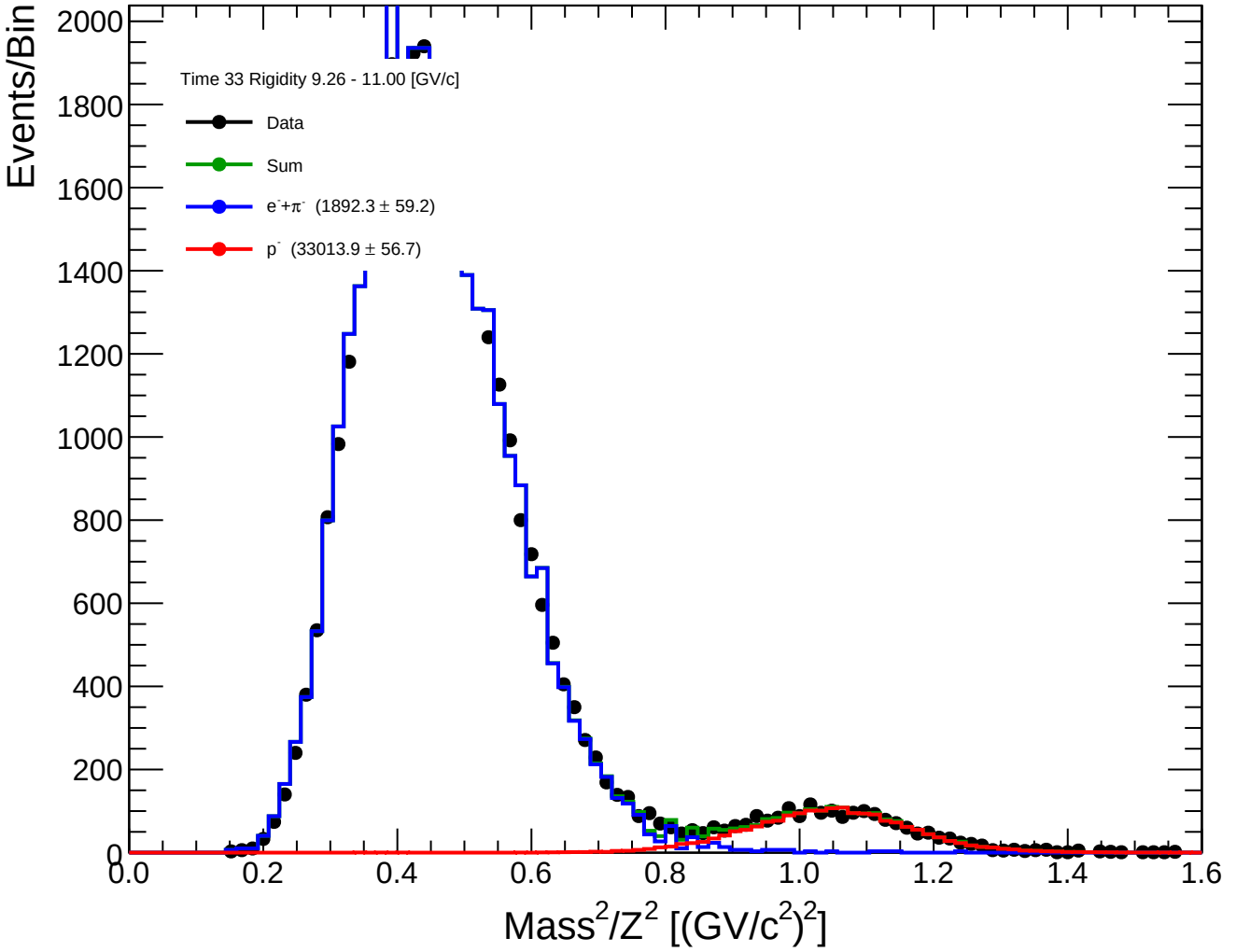

Time 32 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (1011.1 ± 35.3)
p⁻ (8260.8 ± 34.6)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

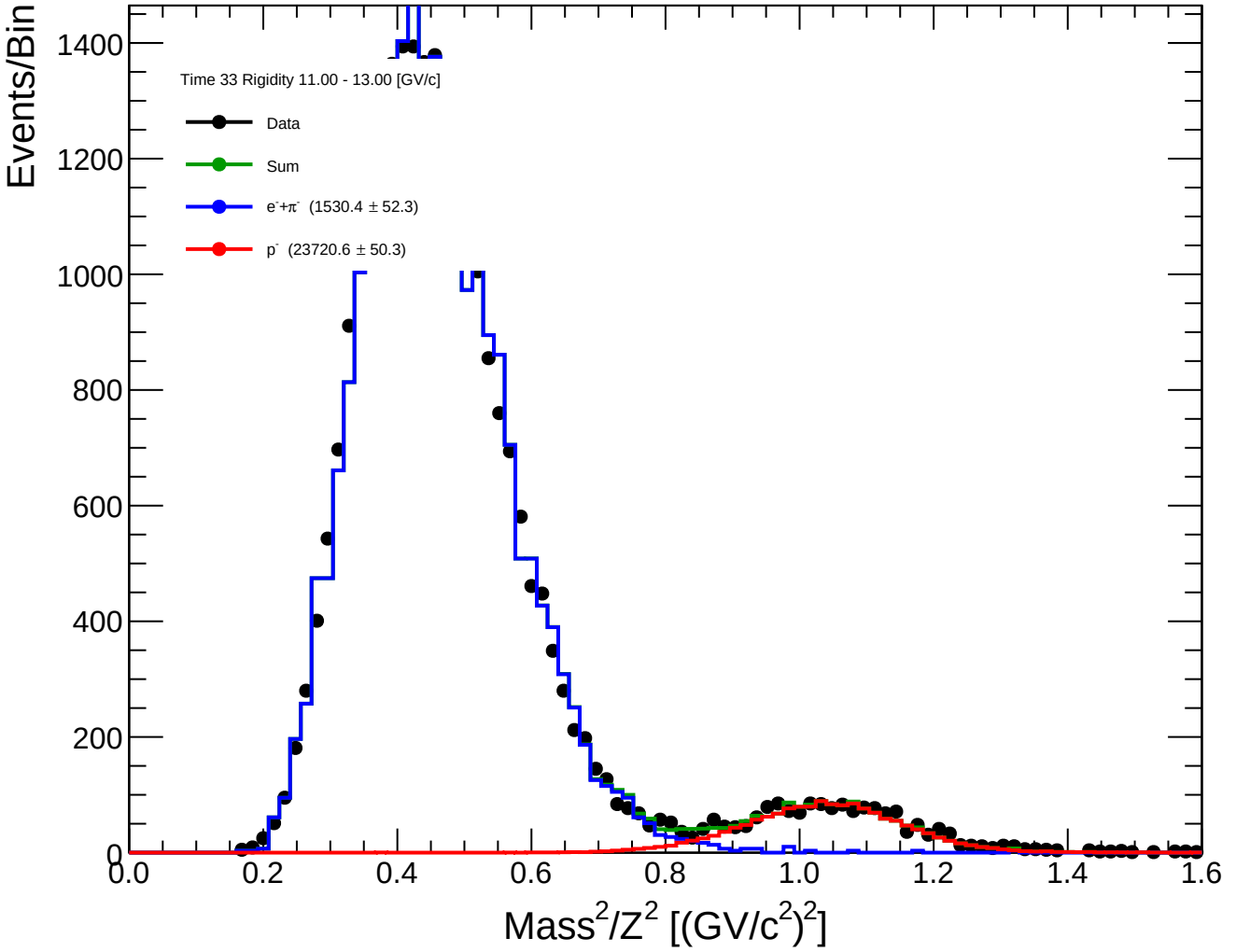

Time 32 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (705.3 ± 30.7)
p⁻ (5333.4 ± 30.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

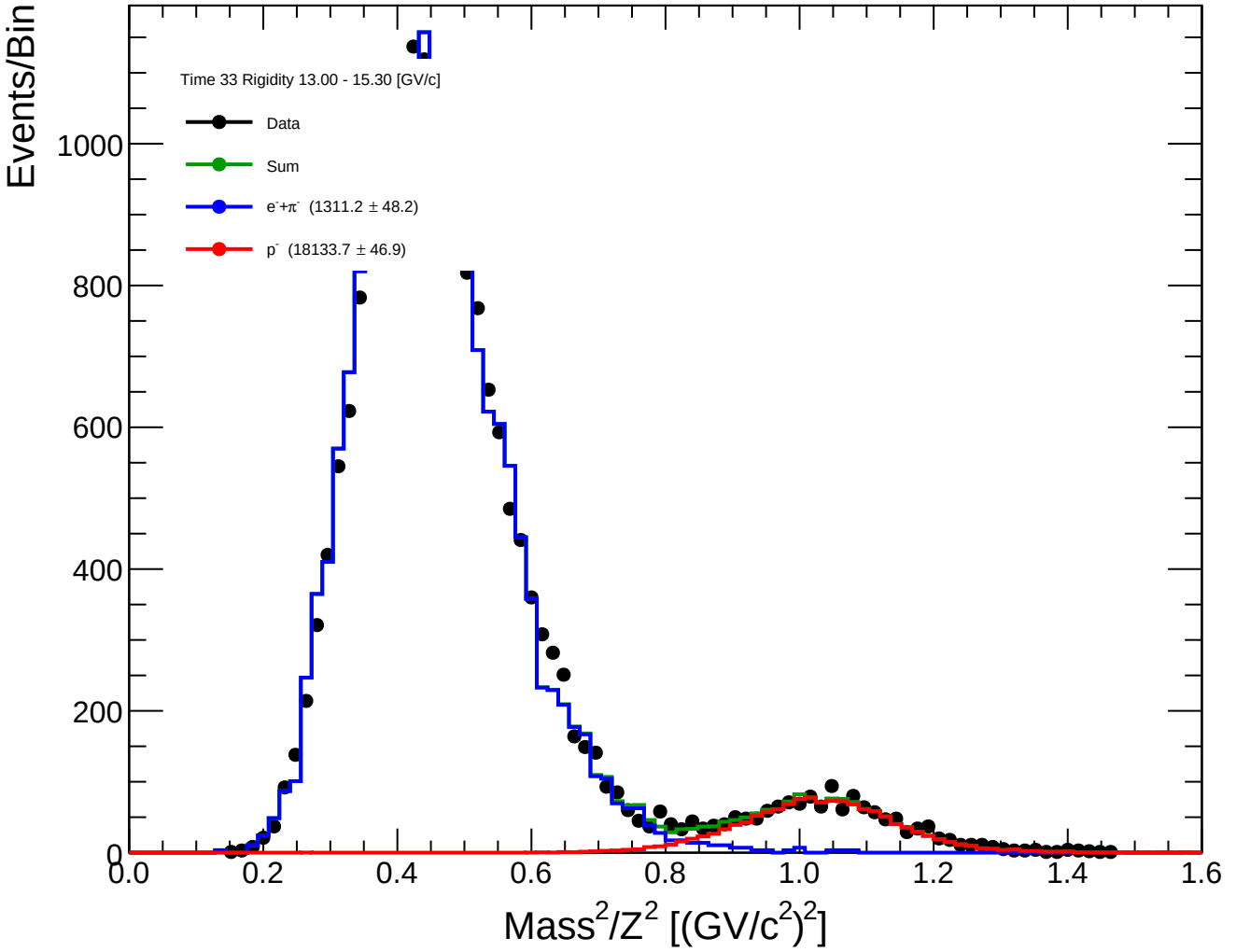

Time 33 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1144.6 ± 42.3)
p⁻ (23505.8 ± 40.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

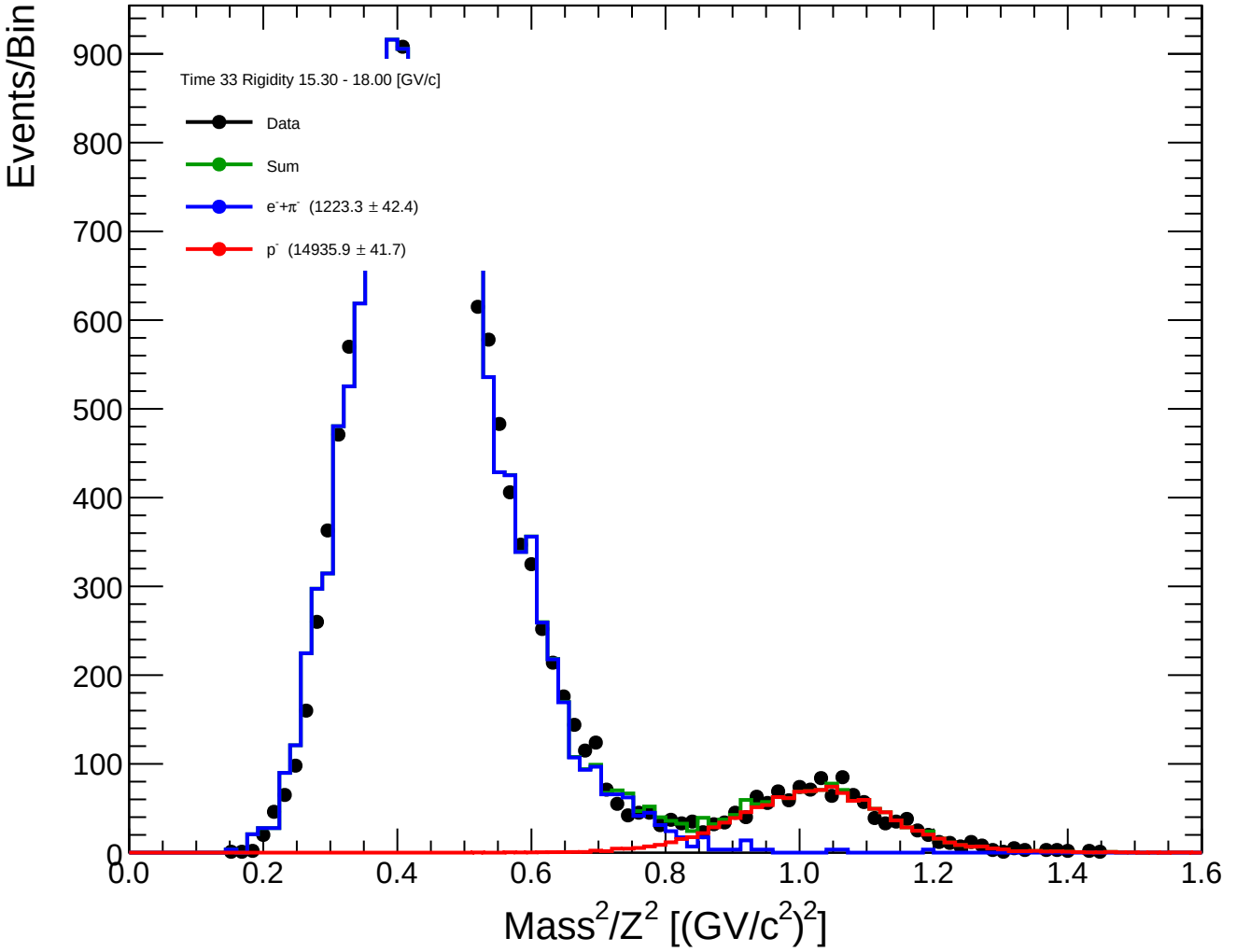

Time 33 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1080.9 ± 46.5)
p⁻ (22377.4 ± 44.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

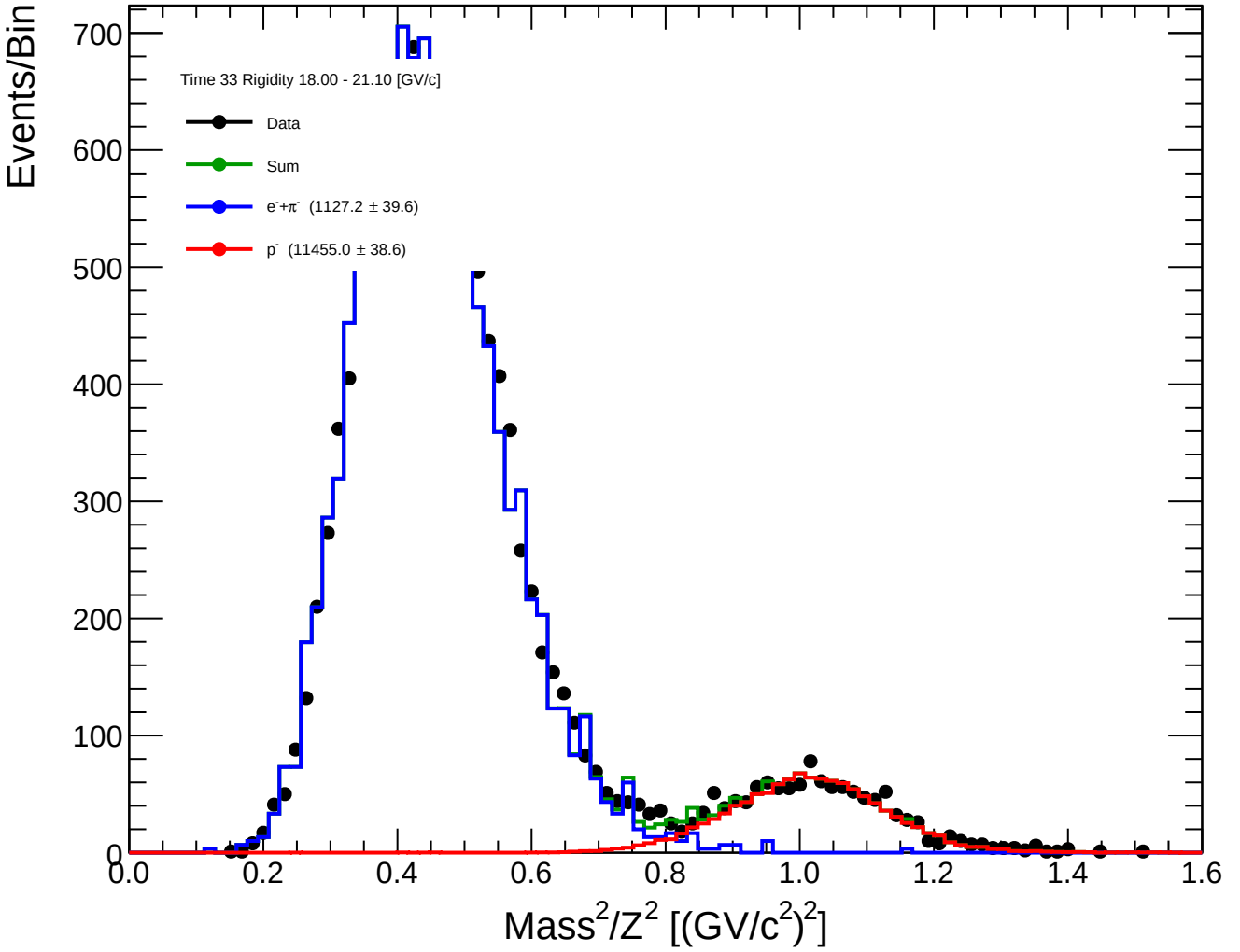

Time 33 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (1009.2 ± 46.3)
p⁻ (20463.8 ± 44.5)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

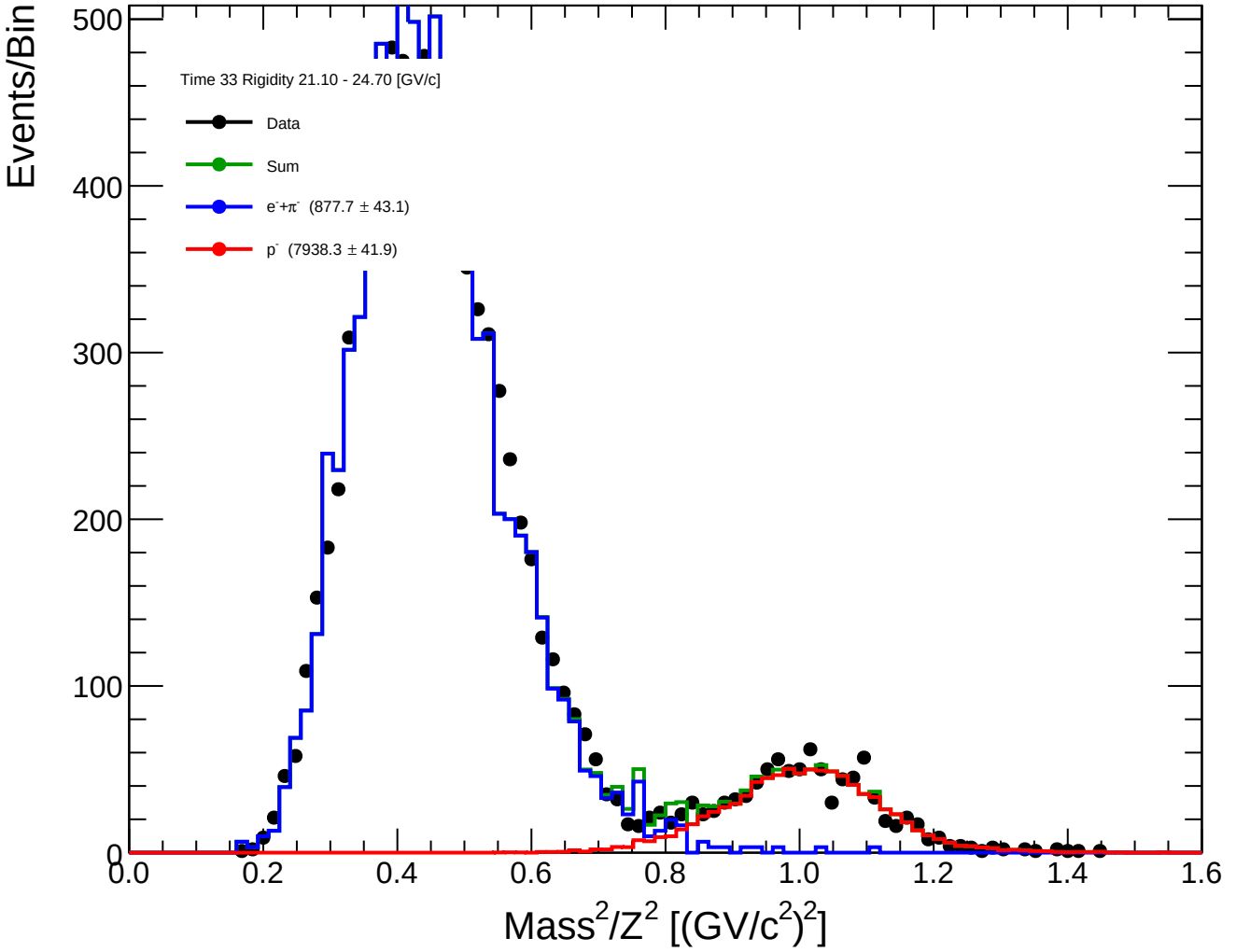

Time 33 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (1892.3 ± 59.2)
p⁻ (33013.9 ± 56.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

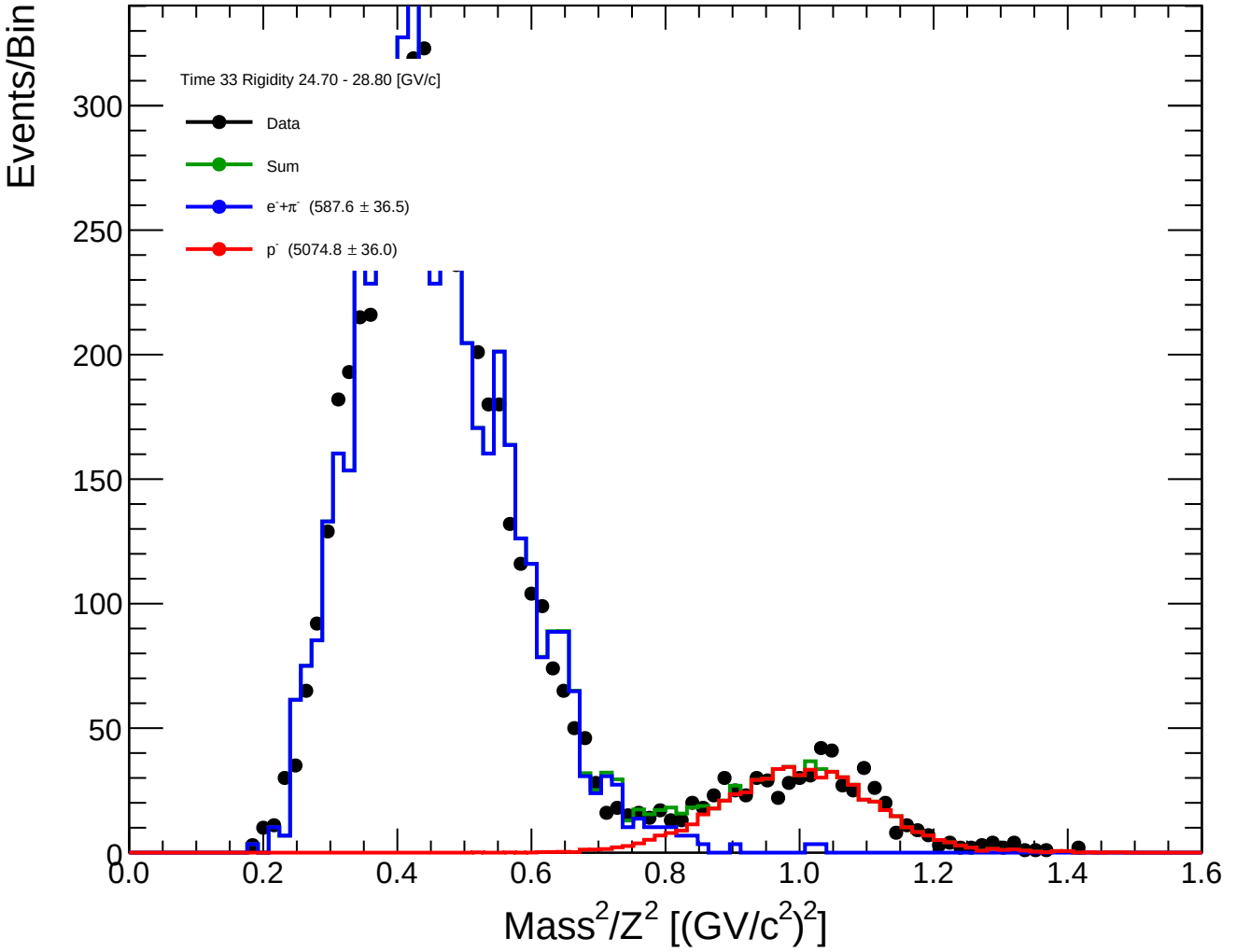

Time 33 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (1530.4 ± 52.3)
p⁻ (23720.6 ± 50.3)
Events/Bin
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

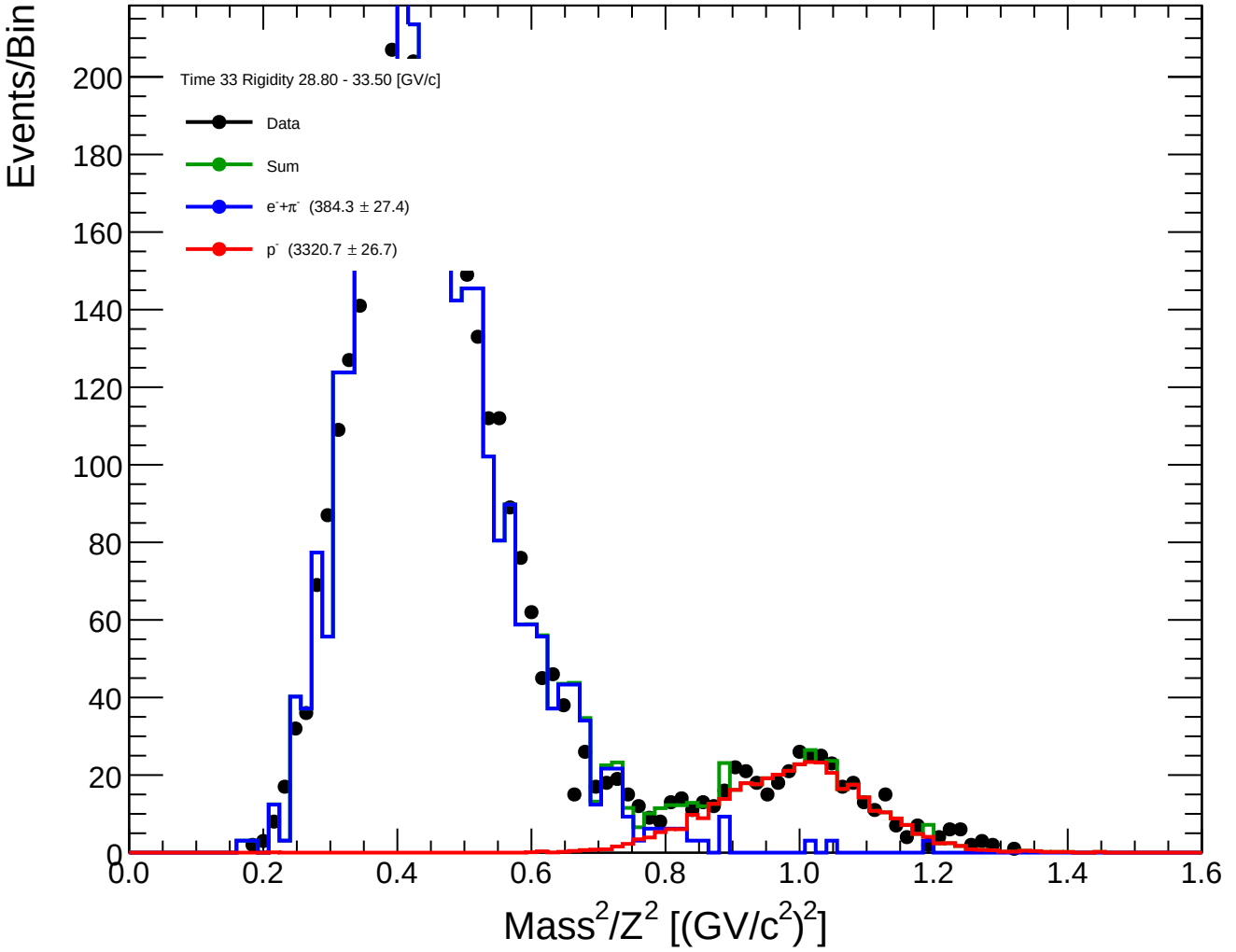

Time 33 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (1311.2 ± 48.2)
p⁻ (18133.7 ± 46.9)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

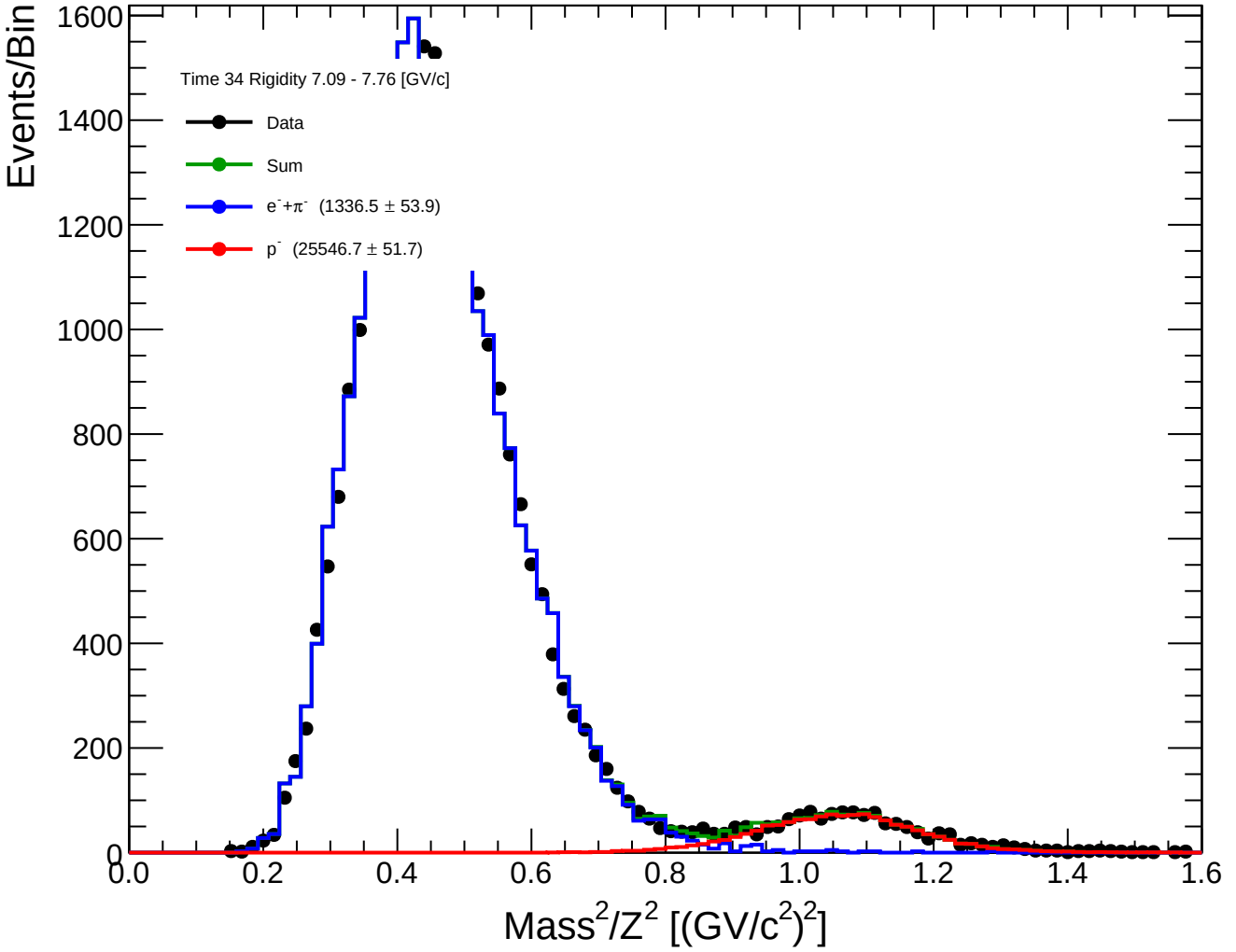

Time 33 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1223.3 ± 42.4)
p⁻ (14935.9 ± 41.7)
Events/Bin
0
100
200
300
400
500
600
700
800
900
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

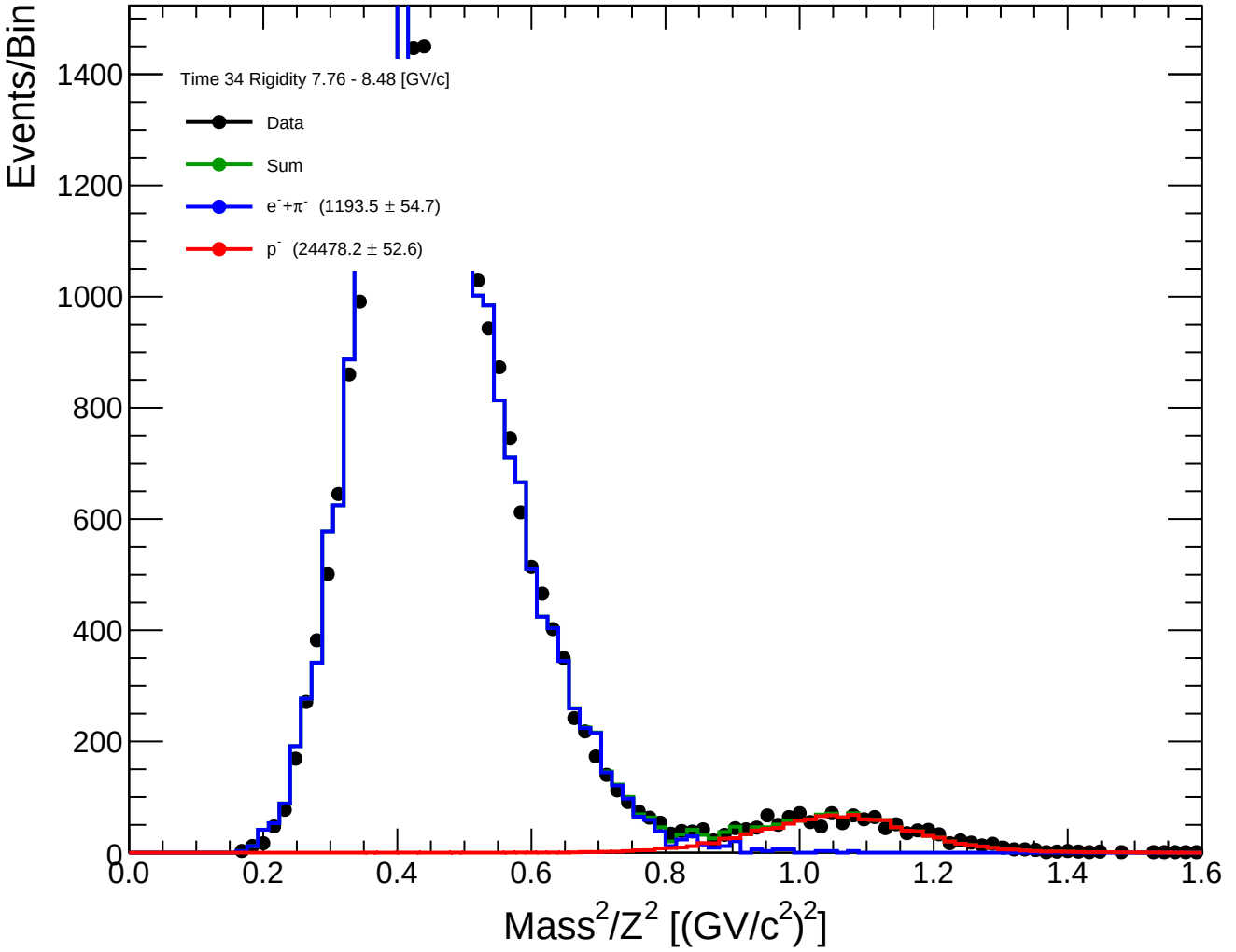

Time 33 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1127.2 ± 39.6)
p⁻ (11455.0 ± 38.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

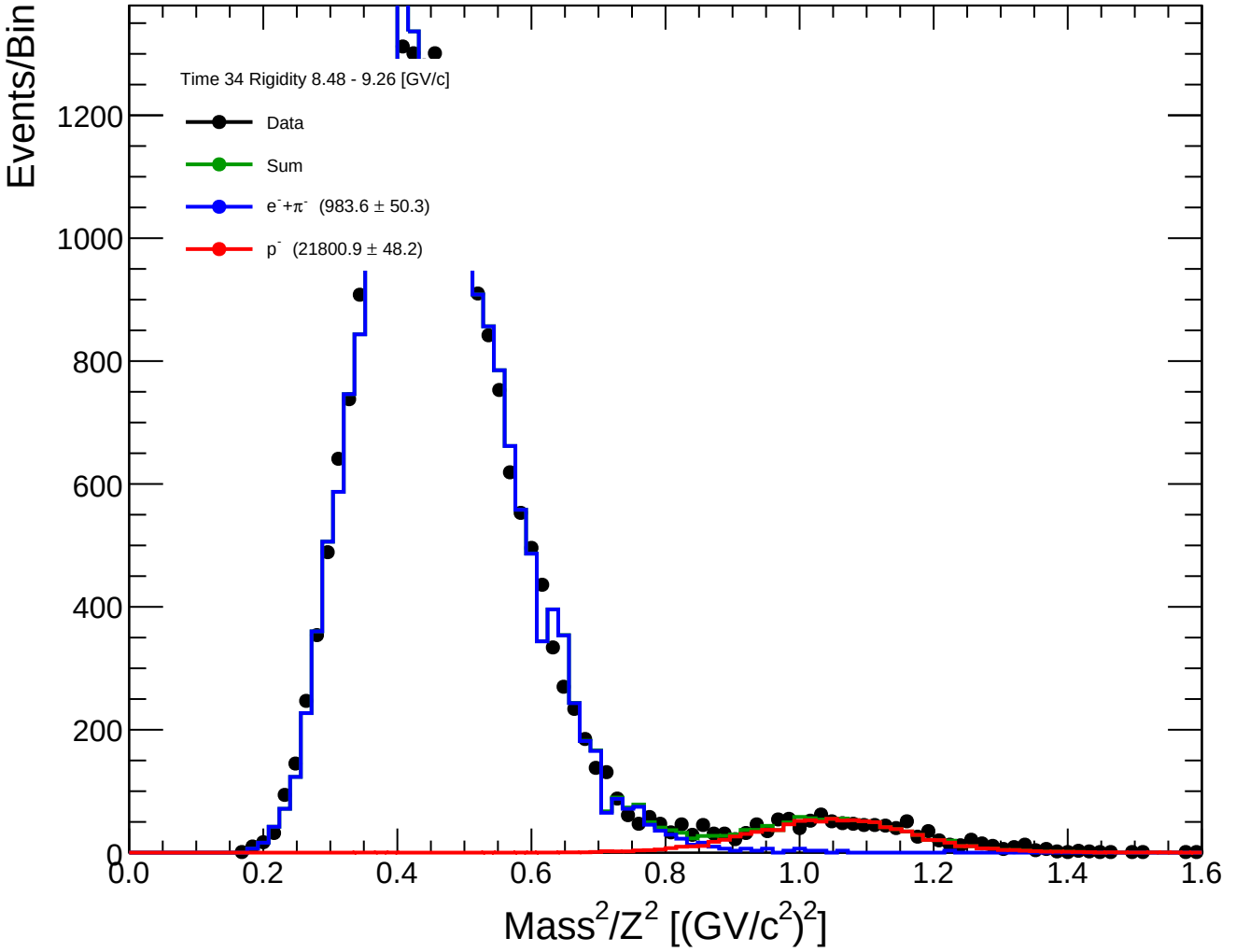

Time 33 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (877.7 ± 43.1)
p⁻ (7938.3 ± 41.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

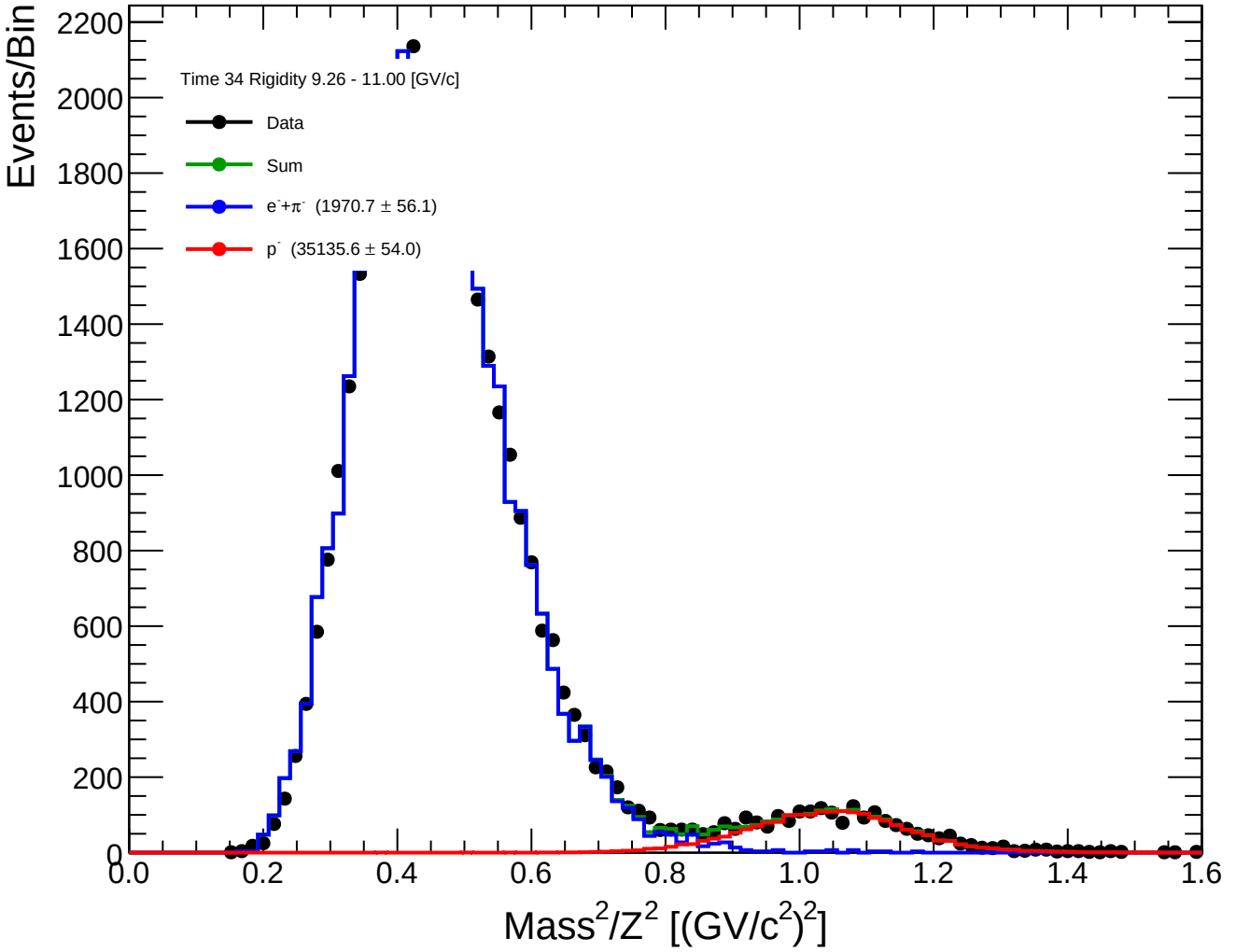

Time 33 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (587.6 ± 36.5)
p⁻ (5074.8 ± 36.0)
Events/Bin
0
50
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

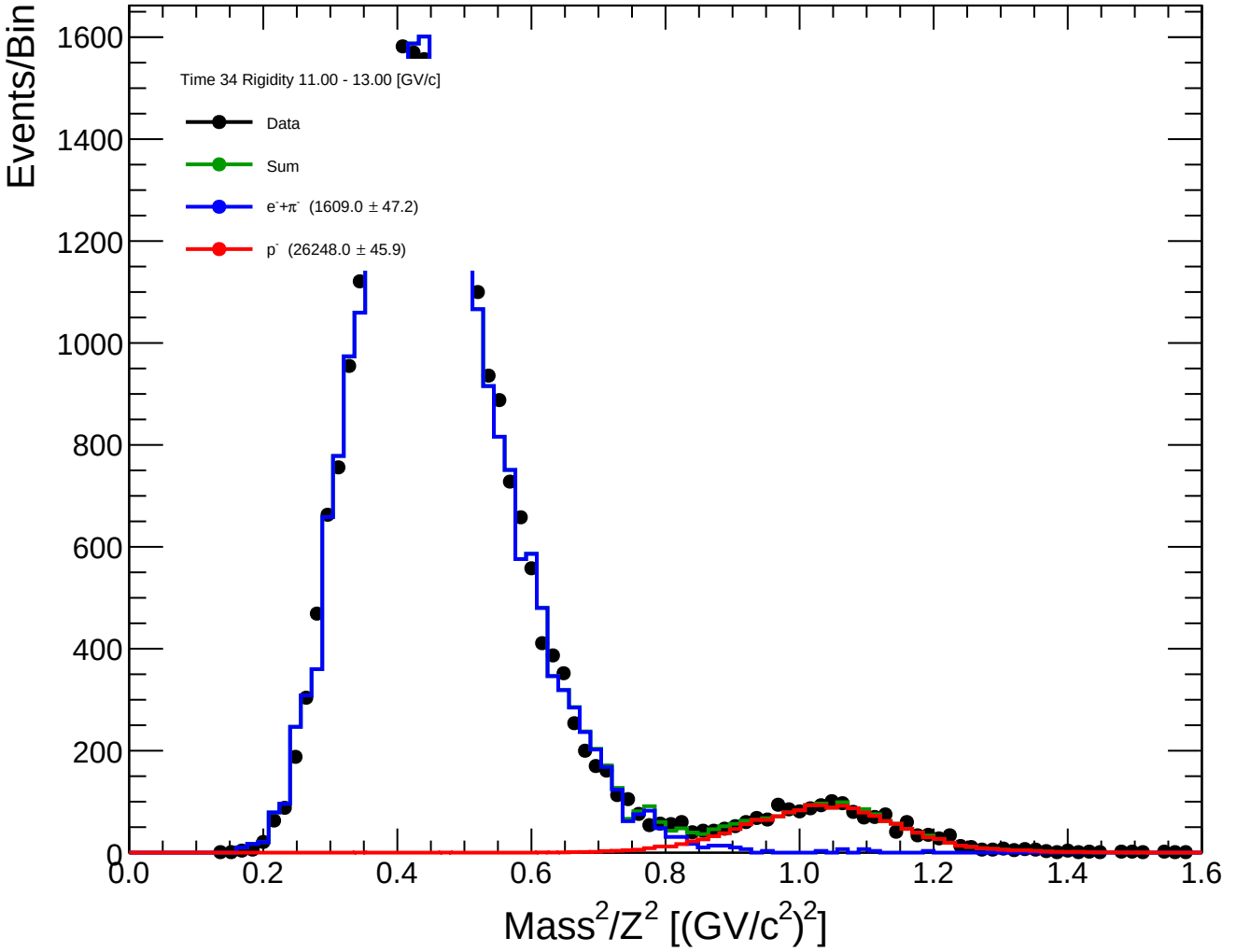

Time 33 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (384.3 ± 27.4)
p⁻ (3320.7 ± 26.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

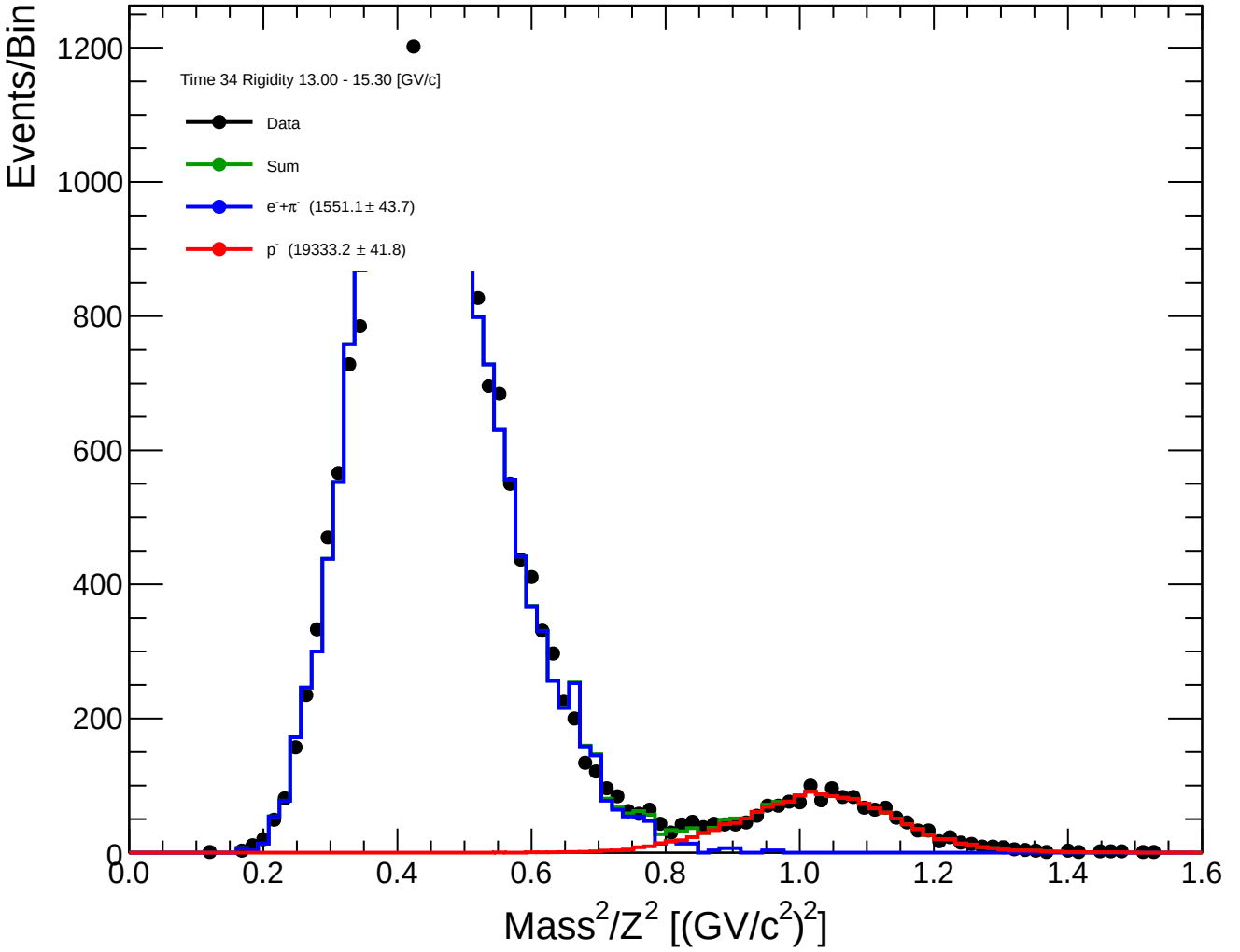

Time 34 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (1336.5 ± 53.9)
p⁻ (25546.7 ± 51.7)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

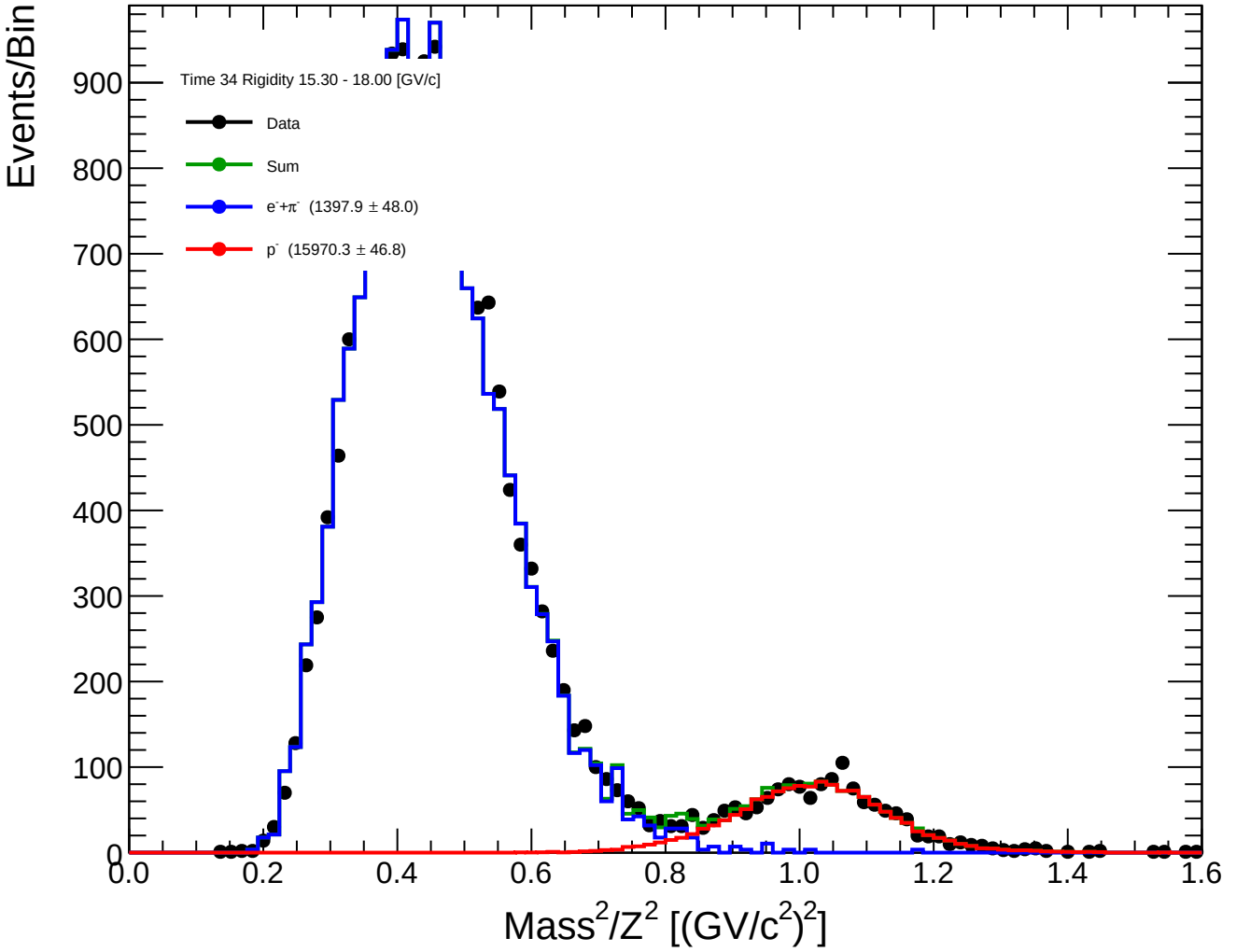

Time 34 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (1193.5 ± 54.7)
p⁻ (24478.2 ± 52.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

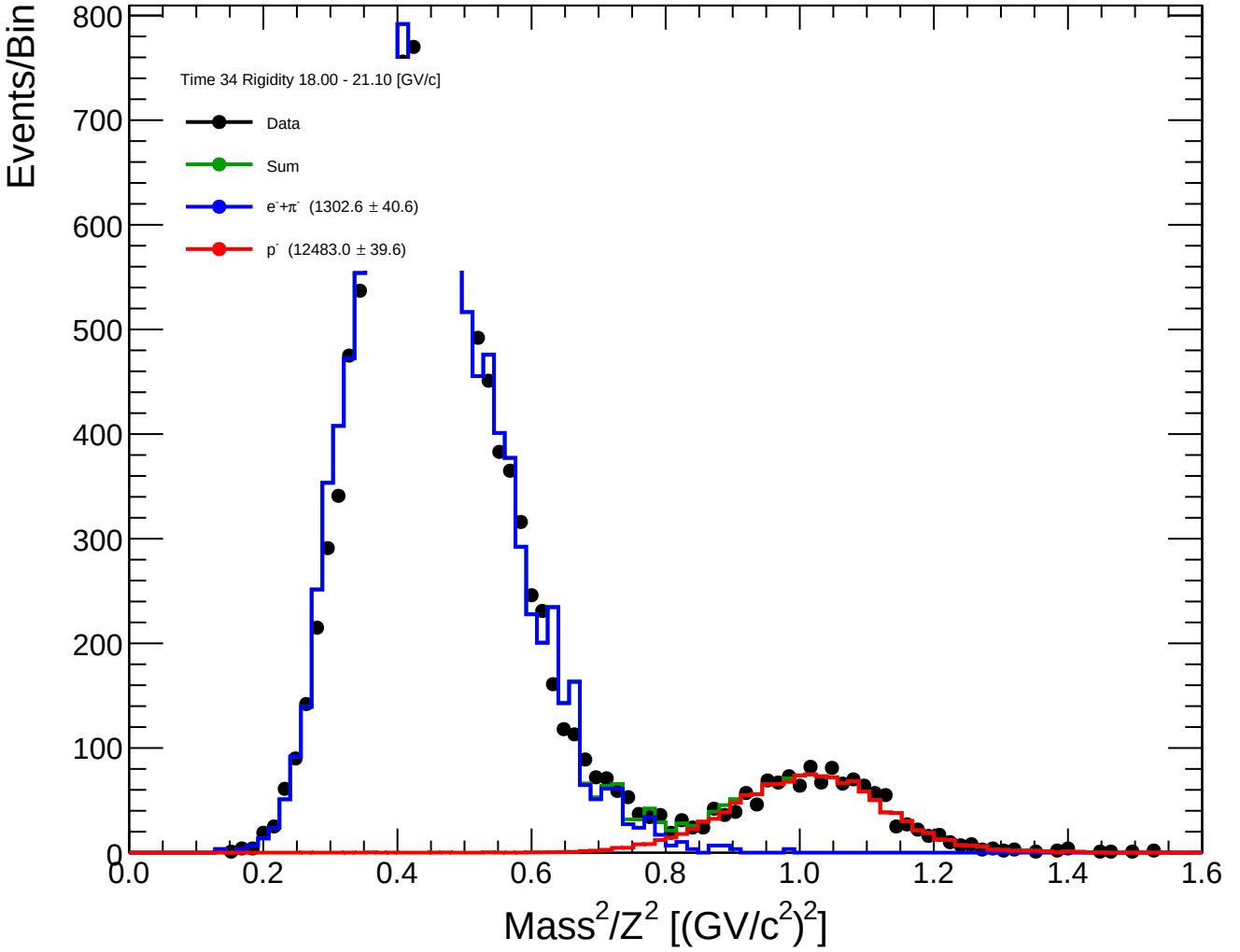

Time 34 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e⁻+π⁻ (983.6 ± 50.3)
p⁻ (21800.9 ± 48.2)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

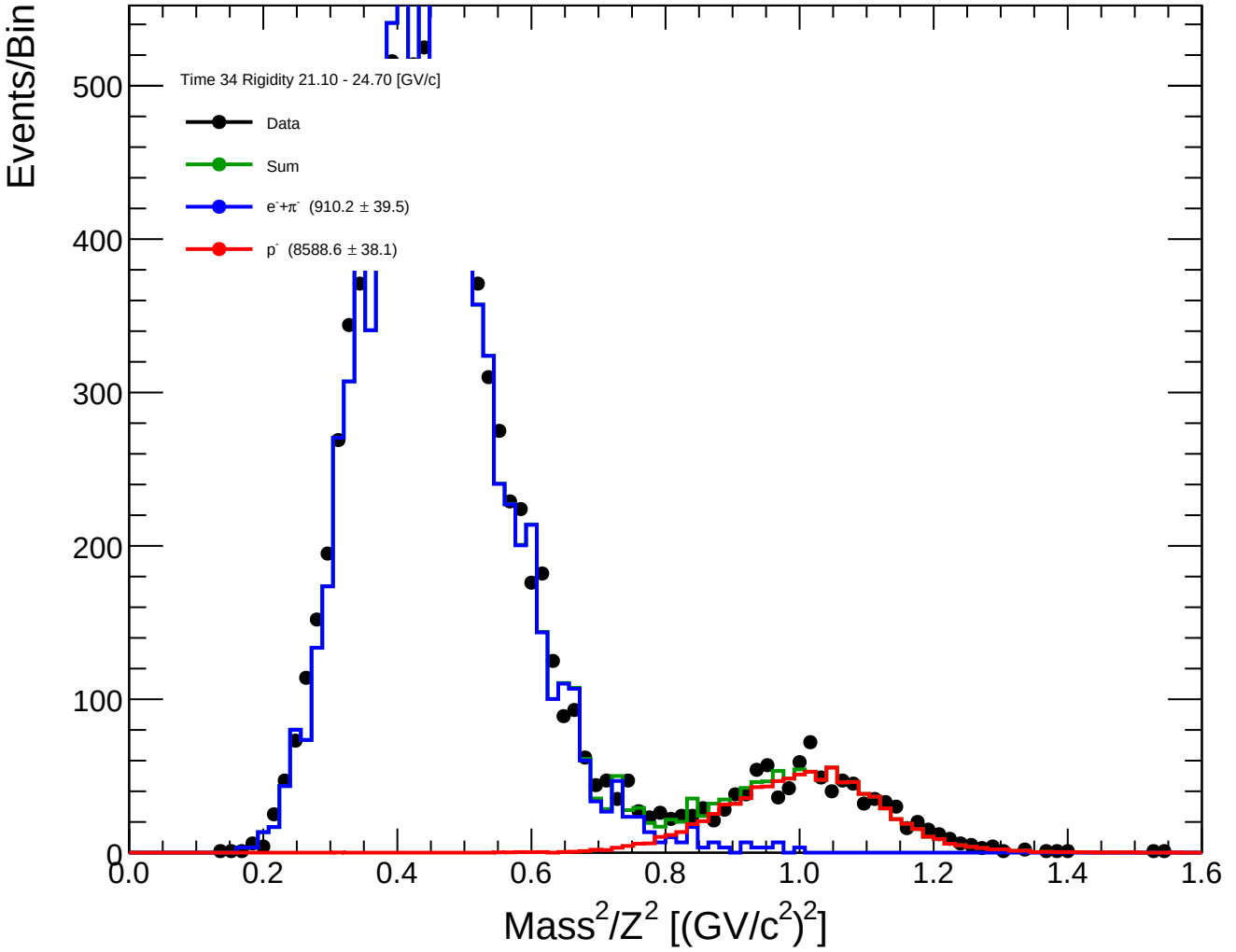

Time 34 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (1970.7 ± 56.1)
p⁻ (35135.6 ± 54.0)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

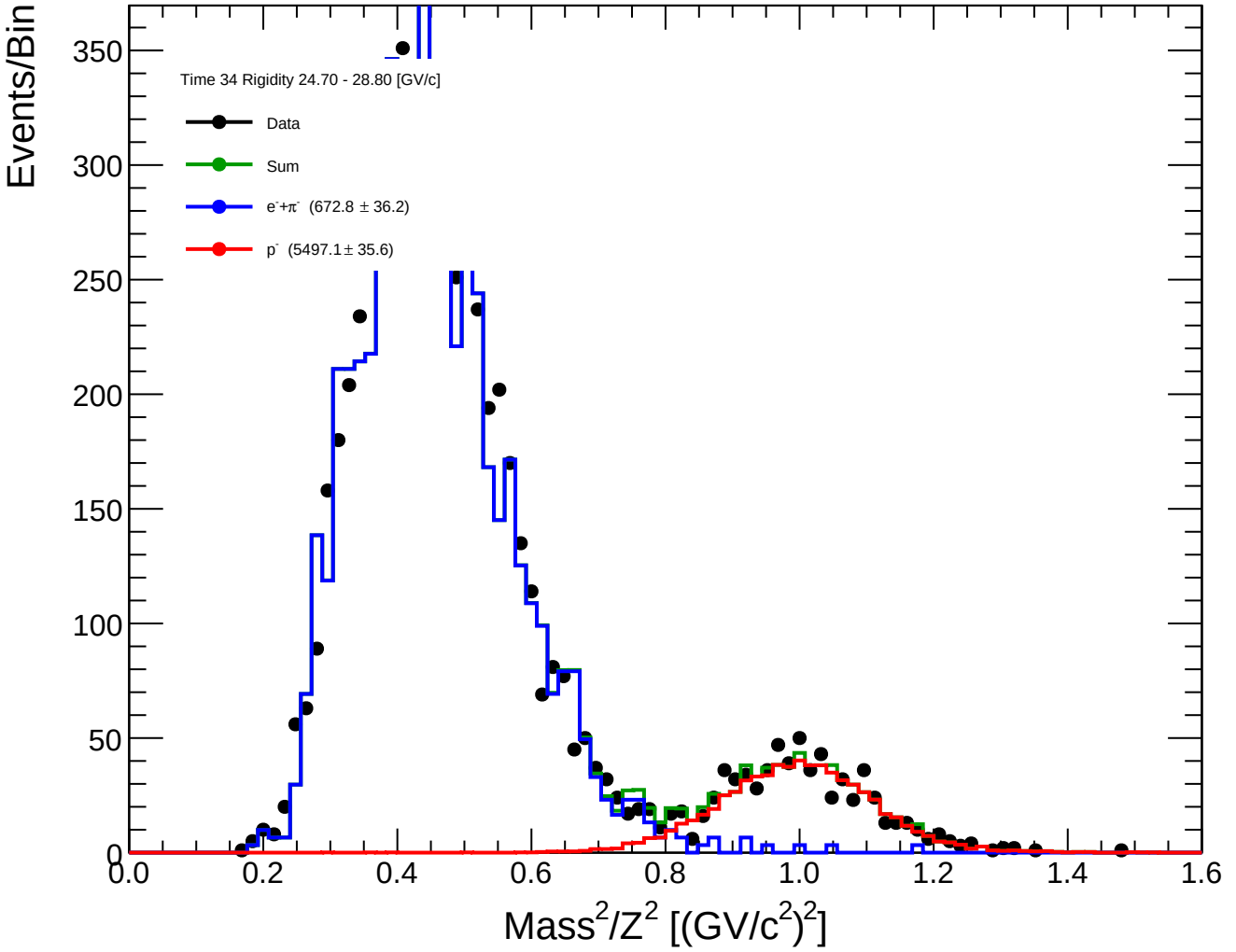

Time 34 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (1609.0 ± 47.2)
p⁻ (26248.0 ± 45.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

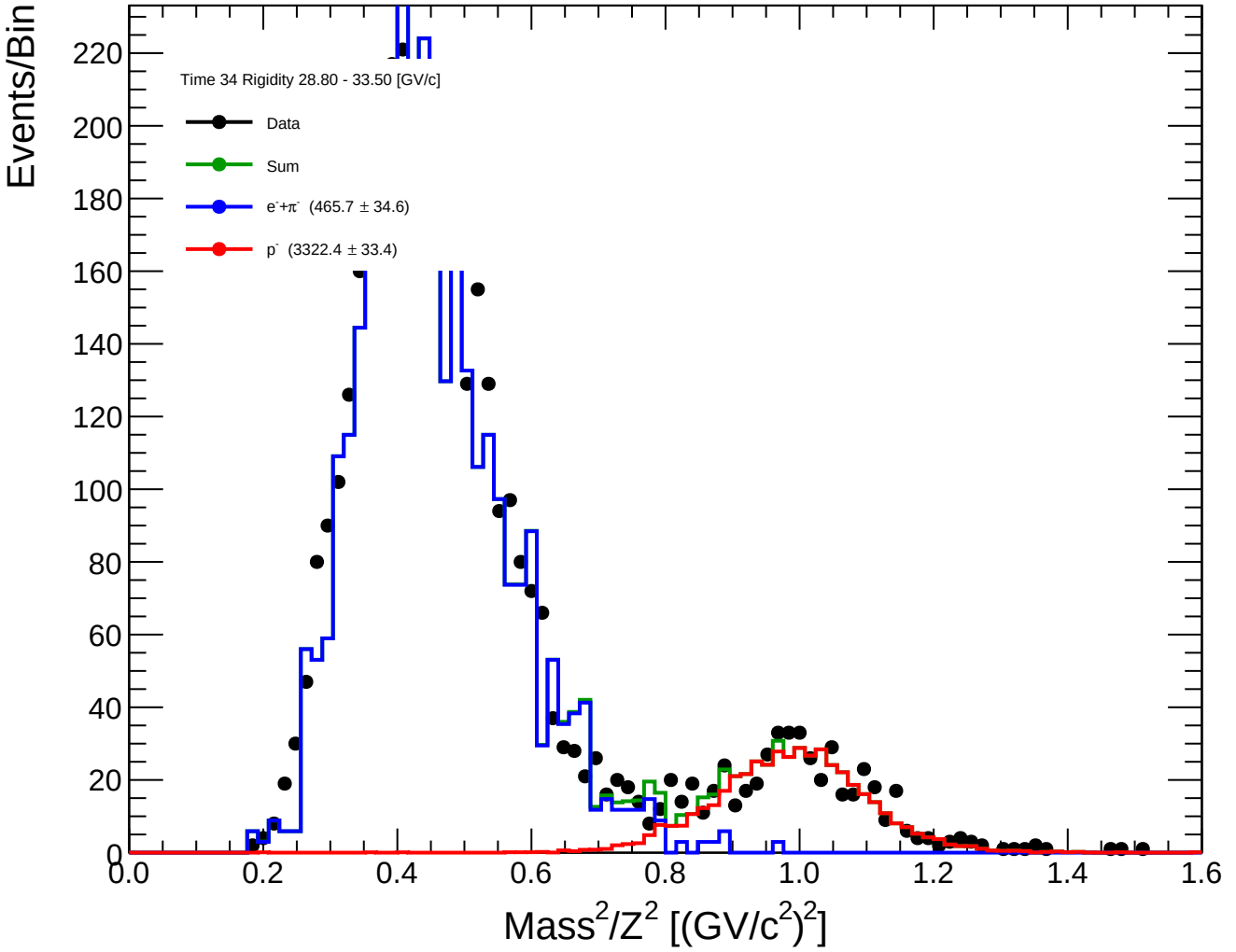

Time 34 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (1551.1 ± 43.7)
p⁻ (19333.2 ± 41.8)
Events/Bin
0
200
400
600
800
1000
1200
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

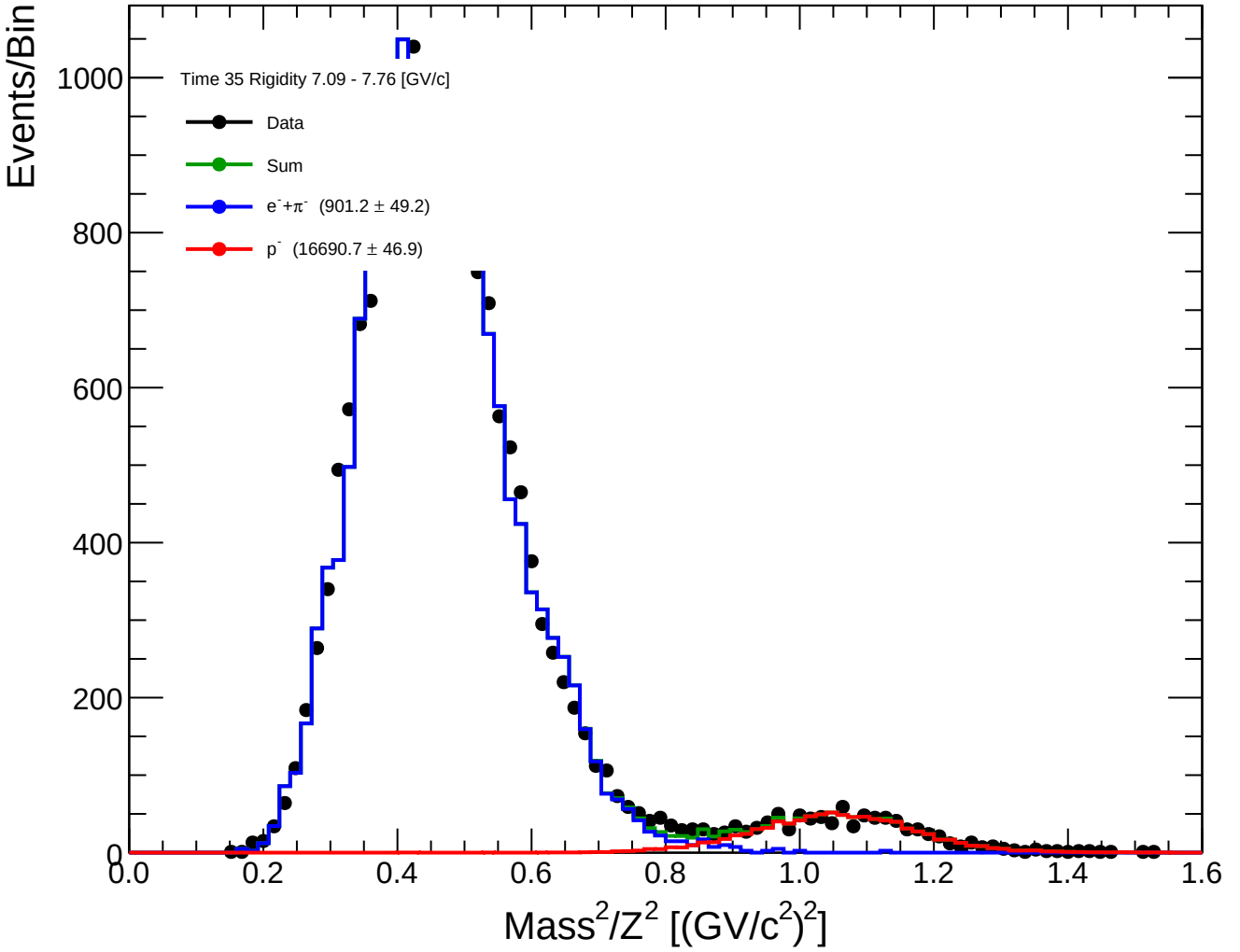

Time 34 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (1397.9 ± 48.0)
p⁻ (15970.3 ± 46.8)
Events/Bin
0
100
200
300
400
500
600
700
800
900
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

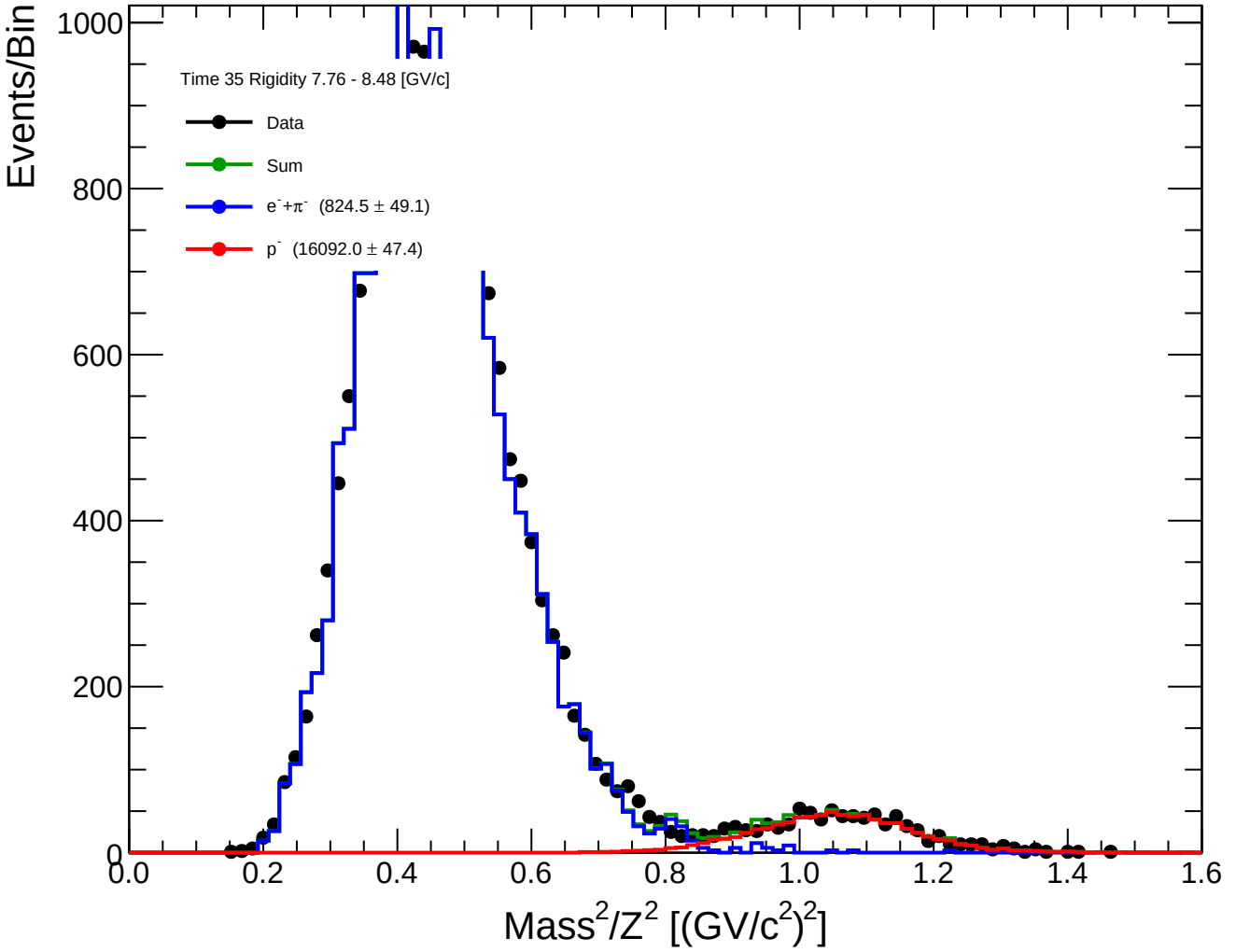

Time 34 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (1302.6 ± 40.6)
p⁻ (12483.0 ± 39.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
100
200
300
400
500
600
700
800
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

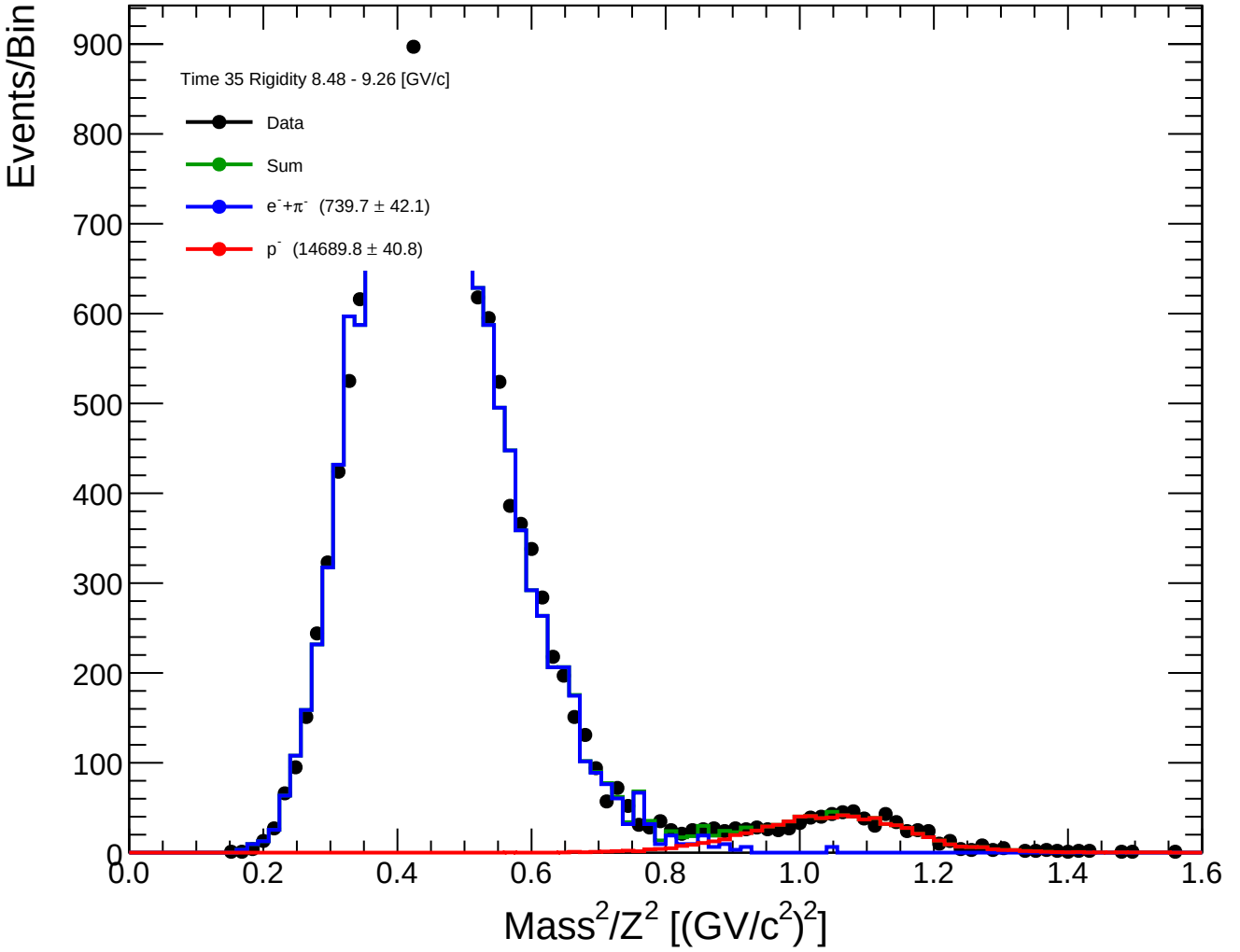

Time 34 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (910.2 ± 39.5)
p⁻ (8588.6 ± 38.1)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

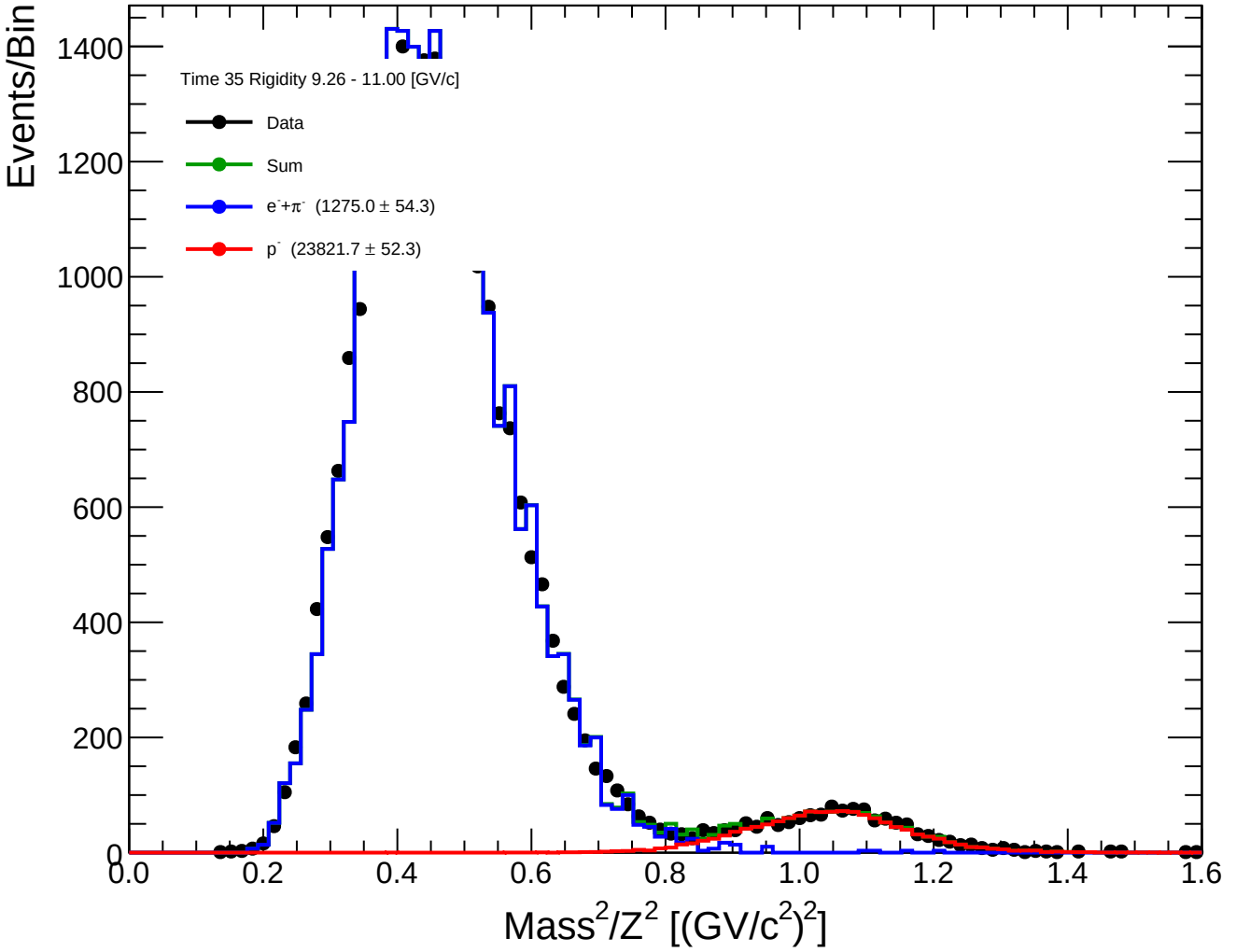

Time 34 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (672.8 ± 36.2)
p⁻ (5497.1± 35.6)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

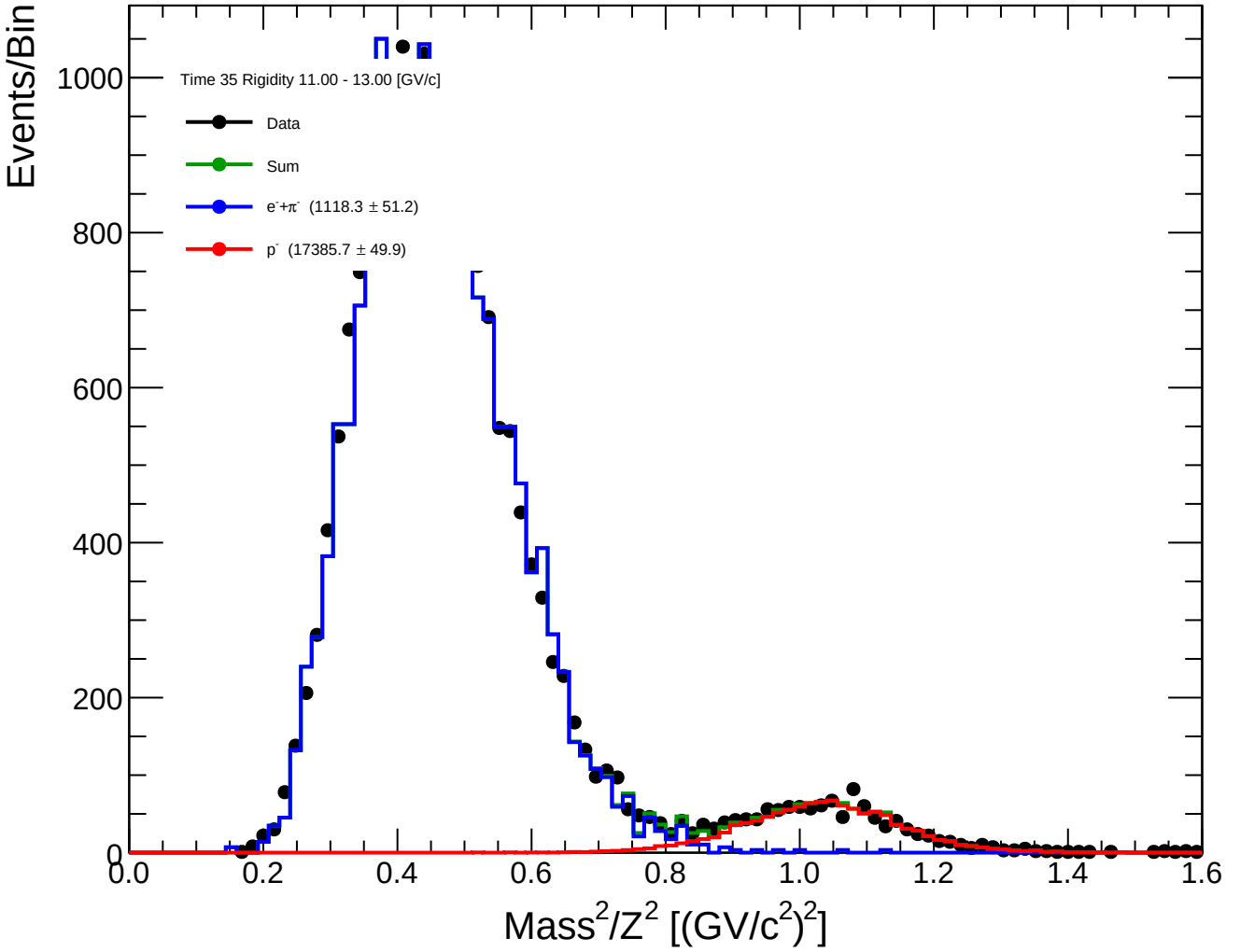

Time 34 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (465.7 ± 34.6)
p⁻ (3322.4 ± 33.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

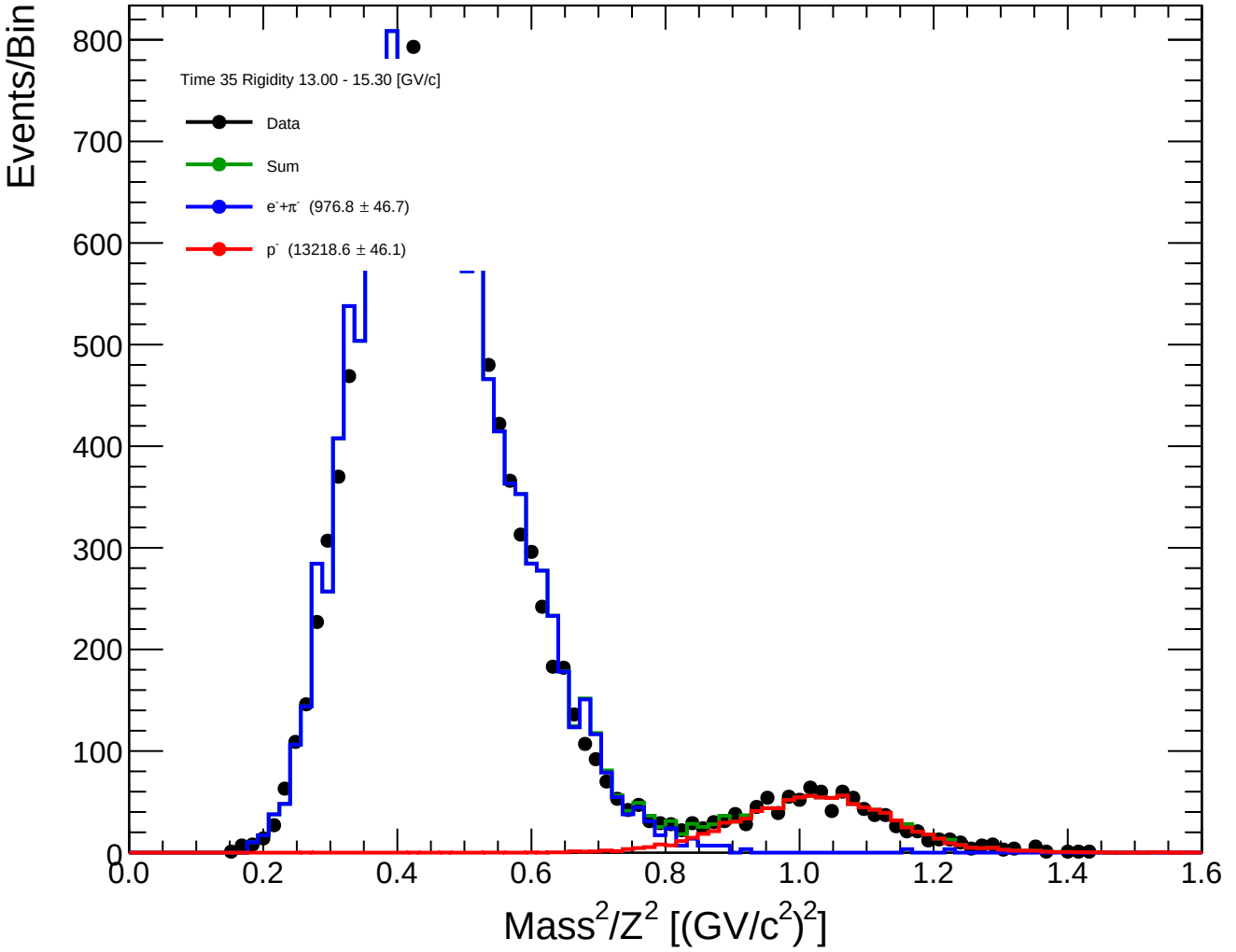

Events/Bin
Time 35 Rigidity 7.09 - 7.76 [GV/c]
Data
Sum
e⁻+π⁻ (901.2 ± 49.2)
p⁻ (16690.7 ± 46.9)
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

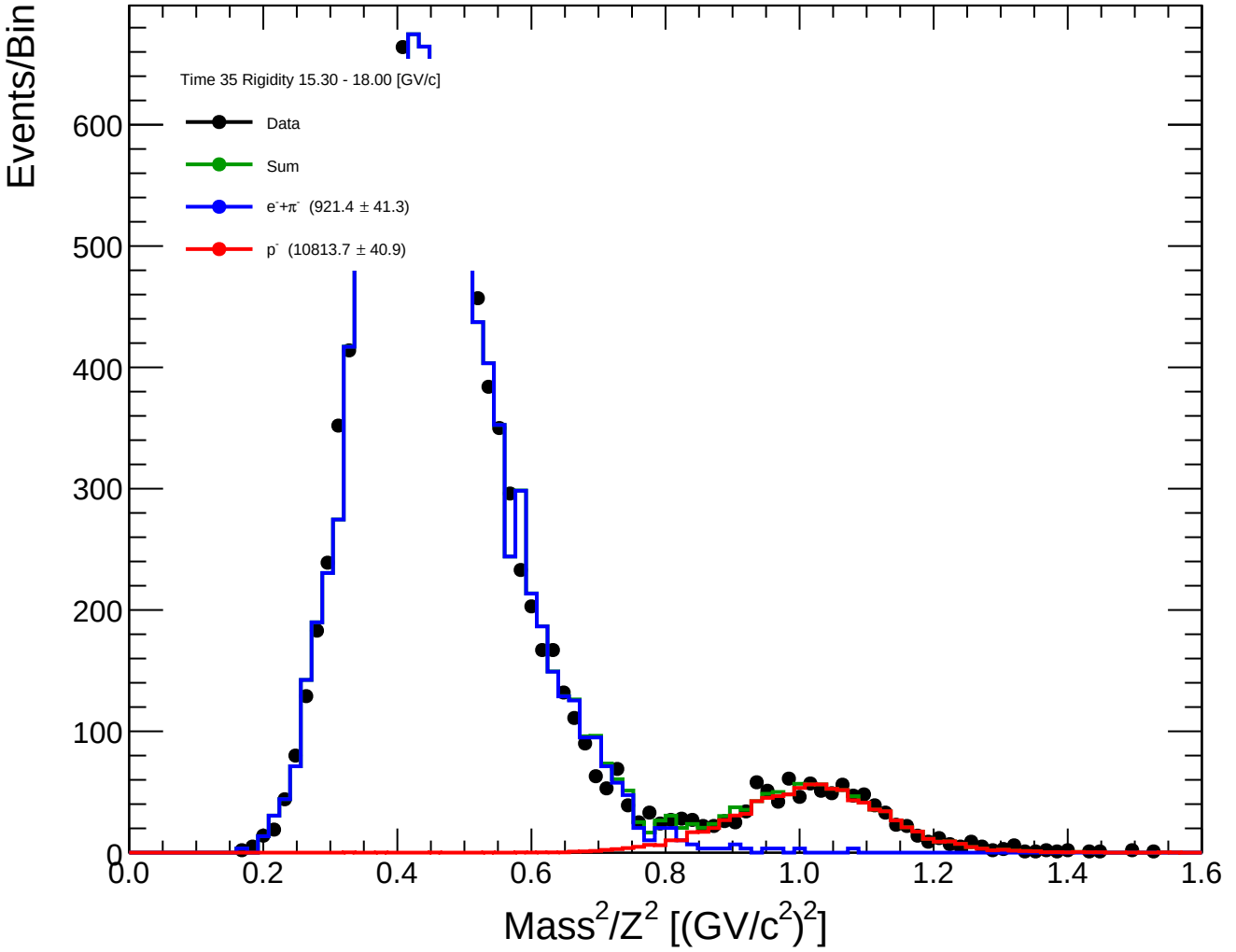

Time 35 Rigidity 7.76 - 8.48 [GV/c]
Data
Sum
e⁻+π⁻ (824.5 ± 49.1)
p⁻ (16092.0 ± 47.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

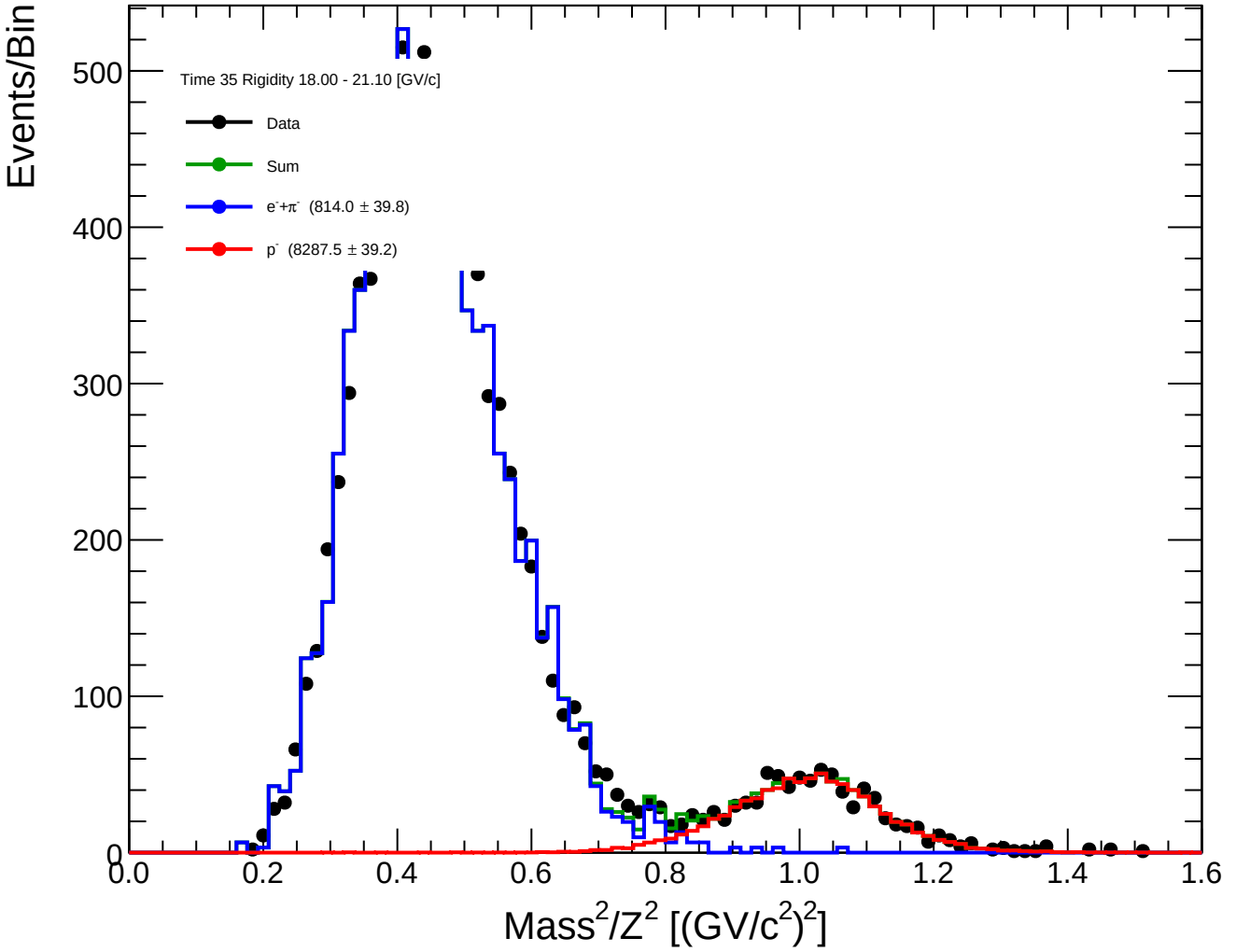

Events/Bin
900
800
700
600
500
400
300
200
100
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass^2/Z^2 [(GV/c^2)^2]
Time 35 Rigidity 8.48 - 9.26 [GV/c]
Data
Sum
e$^-$+π$^-$ (739.7 ± 42.1)
p$^-$ (14689.8 ± 40.8)

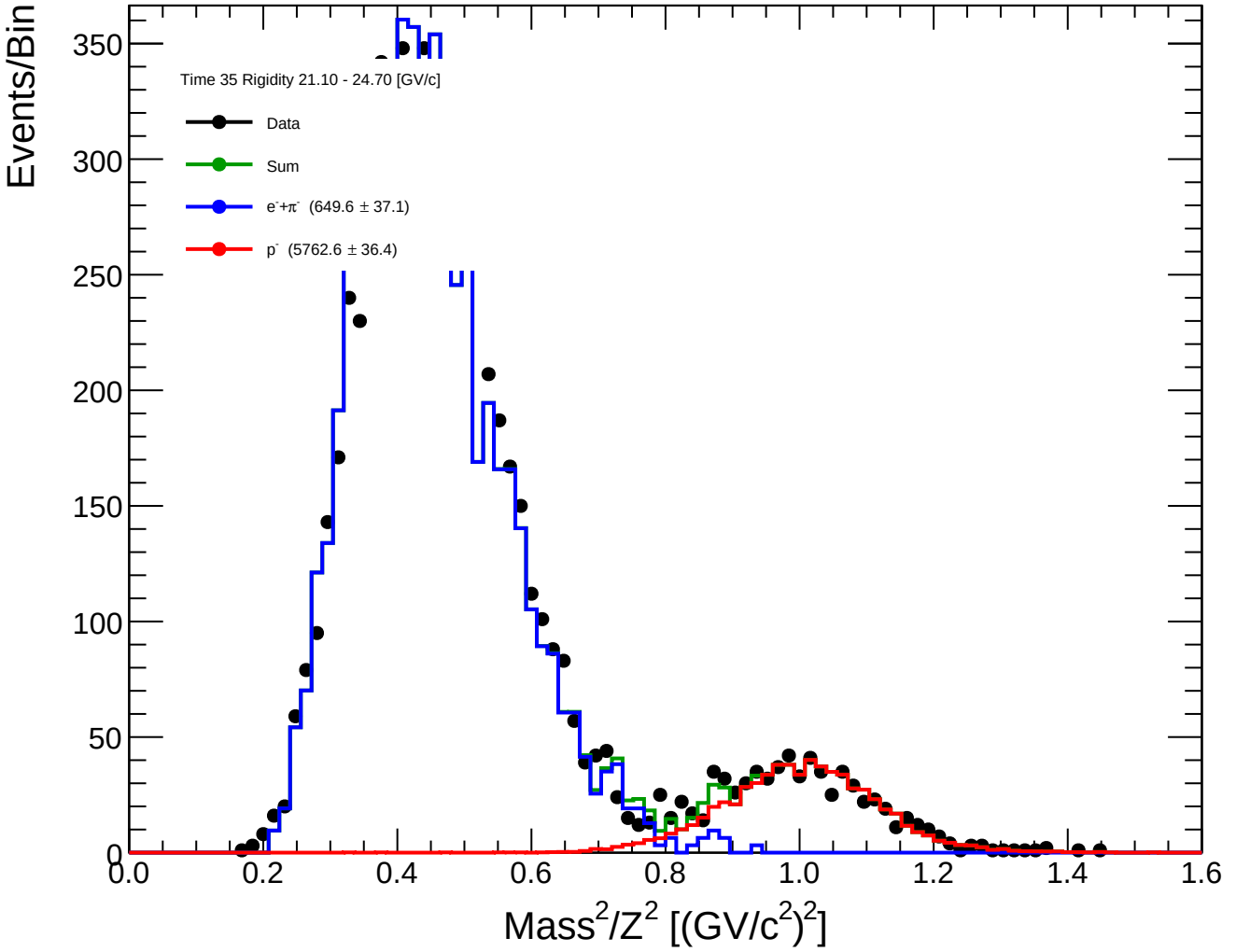

Events/Bin
1400
1200
1000
800
600
400
200
0
Time 35 Rigidity 9.26 - 11.00 [GV/c]
Data
Sum
e⁻+π⁻ (1275.0 ± 54.3)
p⁻ (23821.7 ± 52.3)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

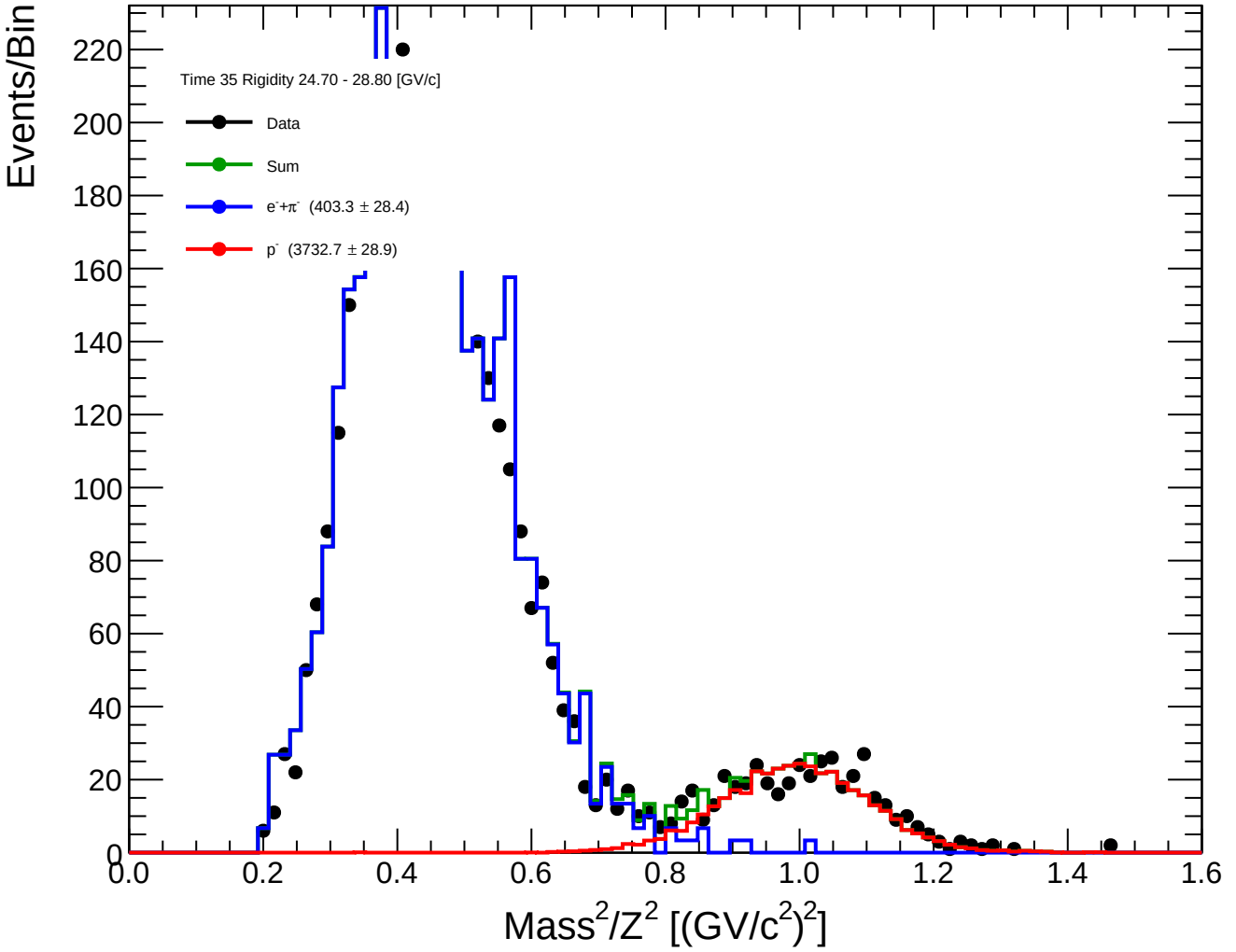

Time 35 Rigidity 11.00 - 13.00 [GV/c]
Data
Sum
e⁻+π⁻ (1118.3 ± 51.2)
p⁻ (17385.7 ± 49.9)
Events/Bin
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]

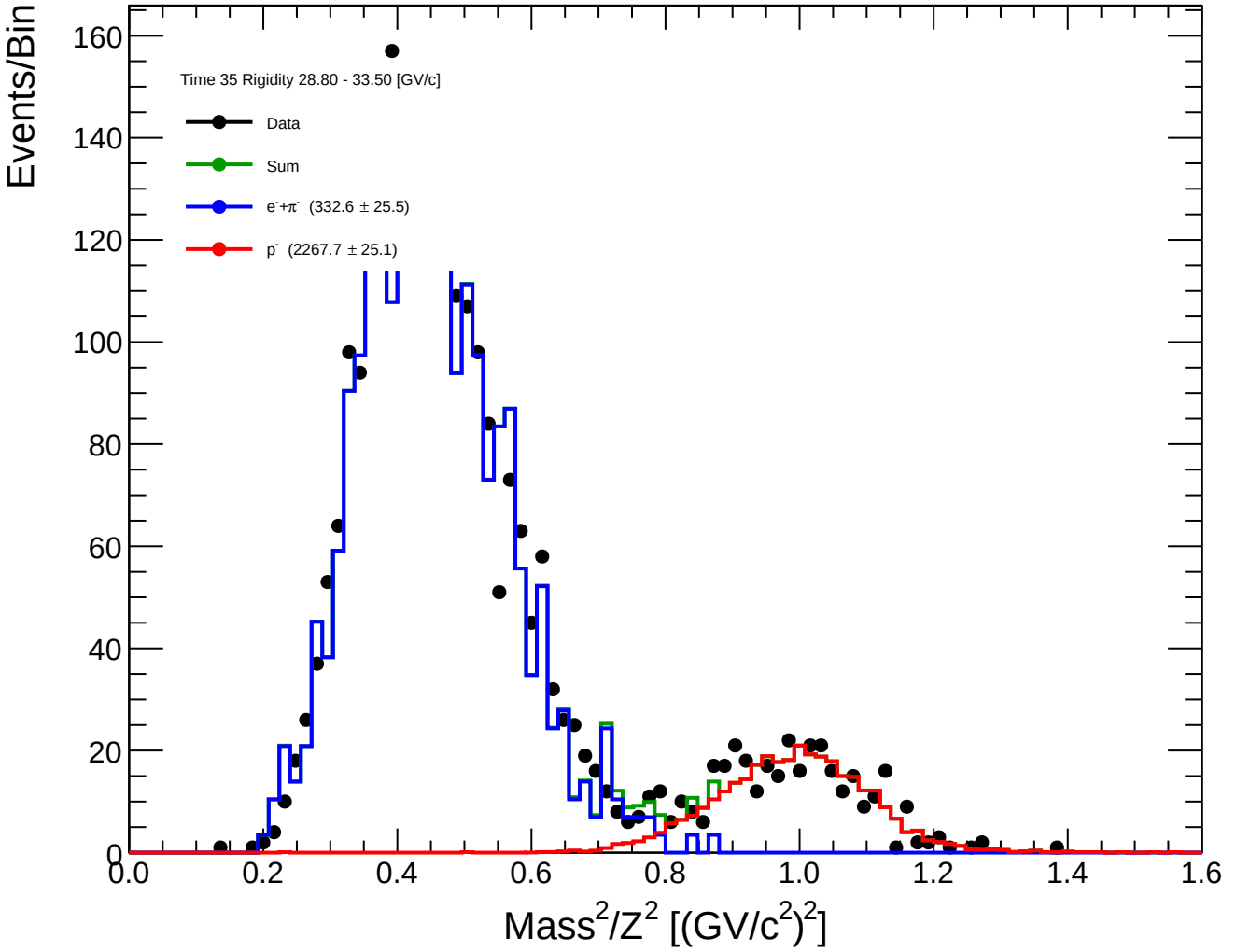

Events/Bin
800
700
600
500
400
300
200
100
0
Time 35 Rigidity 13.00 - 15.30 [GV/c]
Data
Sum
e⁻+π⁻ (976.8 ± 46.7)
p⁻ (13218.6 ± 46.1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]


Time 35 Rigidity 15.30 - 18.00 [GV/c]
Data
Sum
e⁻+π⁻ (921.4 ± 41.3)
p⁻ (10813.7 ± 40.9)
Events/Bin
0
100
200
300
400
500
600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]


Time 35 Rigidity 18.00 - 21.10 [GV/c]
Data
Sum
e⁻+π⁻ (814.0 ± 39.8)
p⁻ (8287.5 ± 39.2)
Events/Bin
0
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Mass²/Z² [(GV/c²)²]


Time 35 Rigidity 21.10 - 24.70 [GV/c]
Data
Sum
e⁻+π⁻ (649.6 ± 37.1)
p⁻ (5762.6 ± 36.4)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6


Time 35 Rigidity 24.70 - 28.80 [GV/c]
Data
Sum
e⁻+π⁻ (403.3 ± 28.4)
p⁻ (3732.7 ± 28.9)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6


Time 35 Rigidity 28.80 - 33.50 [GV/c]
Data
Sum
e⁻+π⁻ (332.6 ± 25.5)
p⁻ (2267.7 ± 25.1)
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

<< END >> antip_i