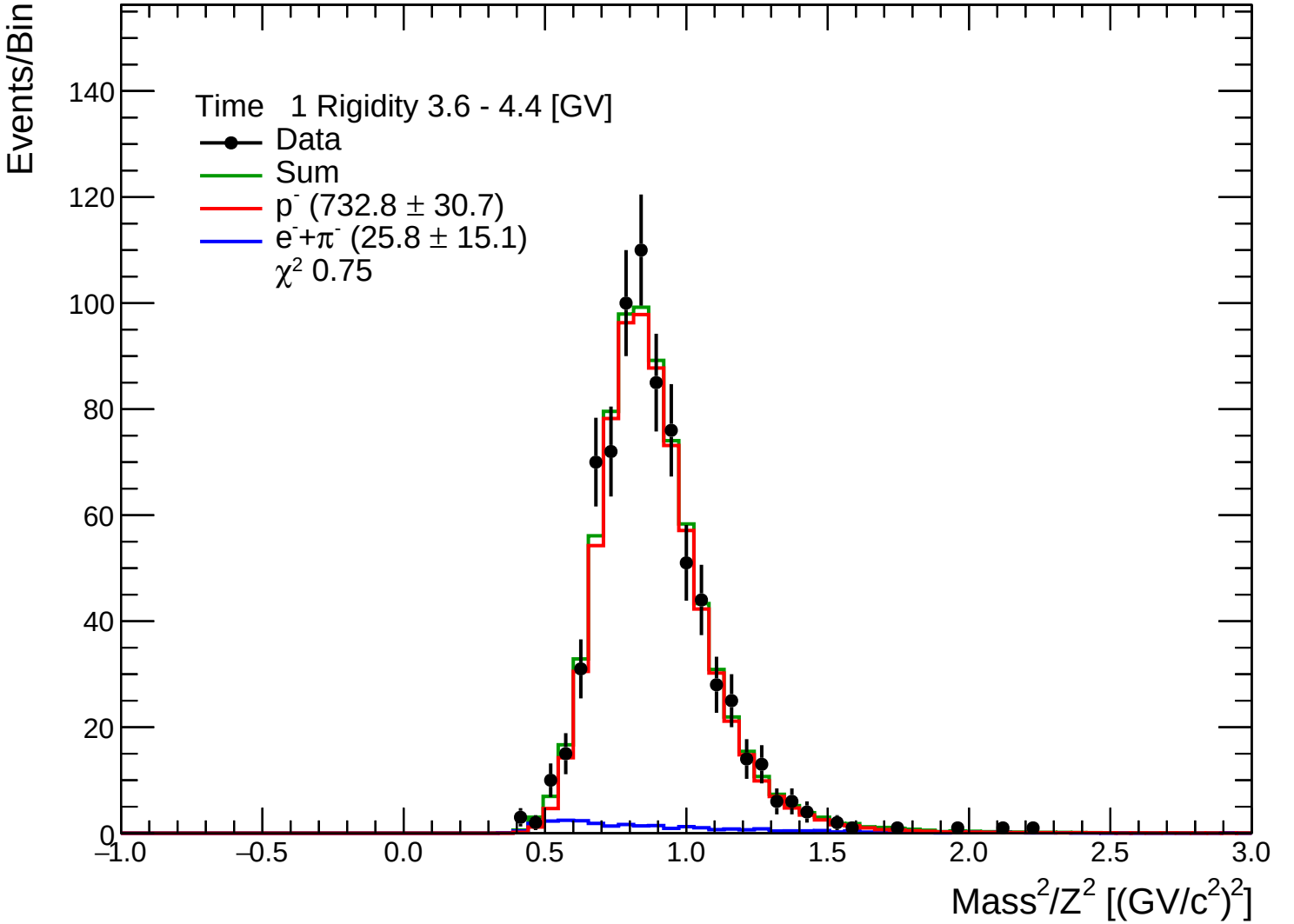
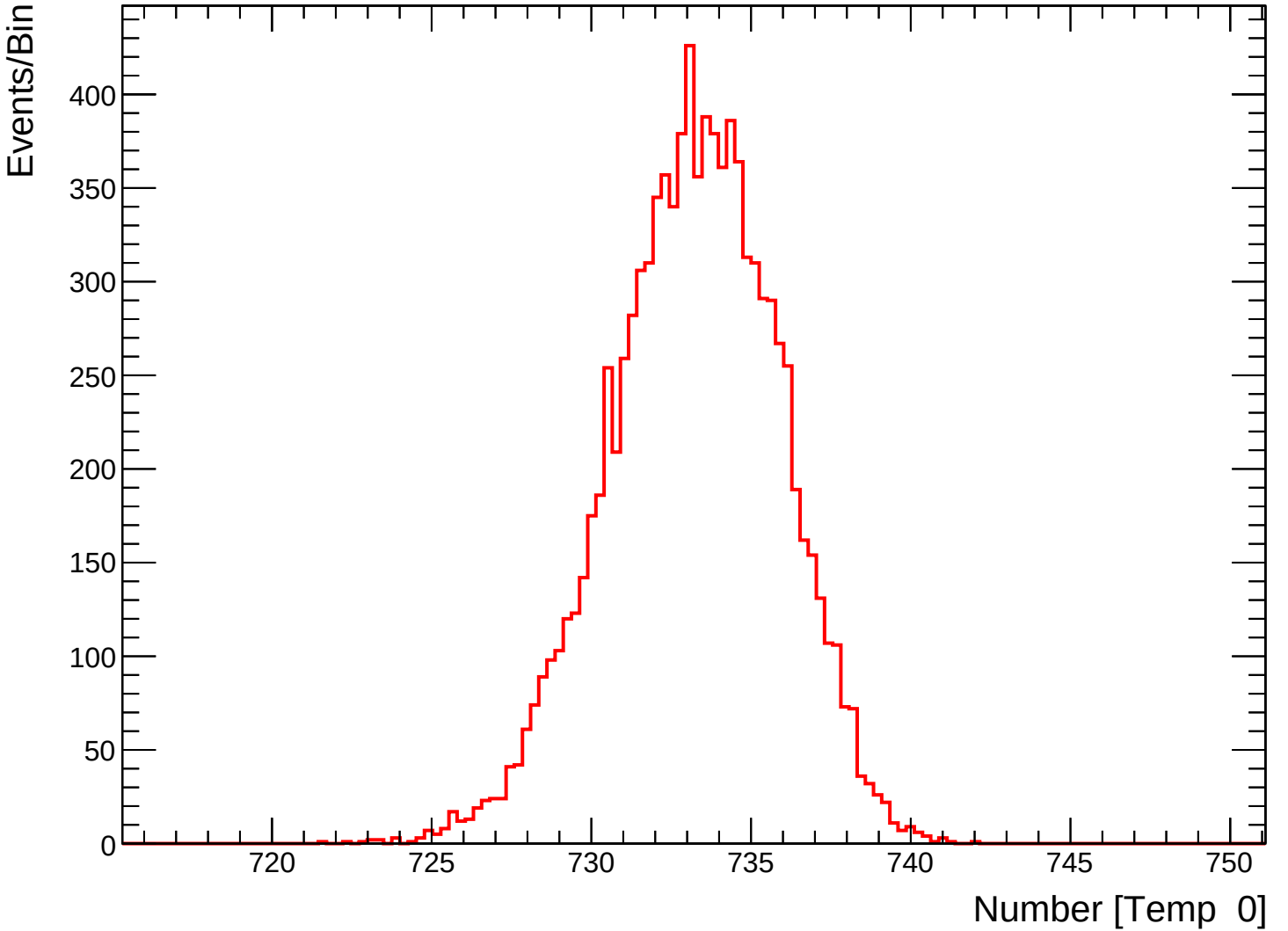
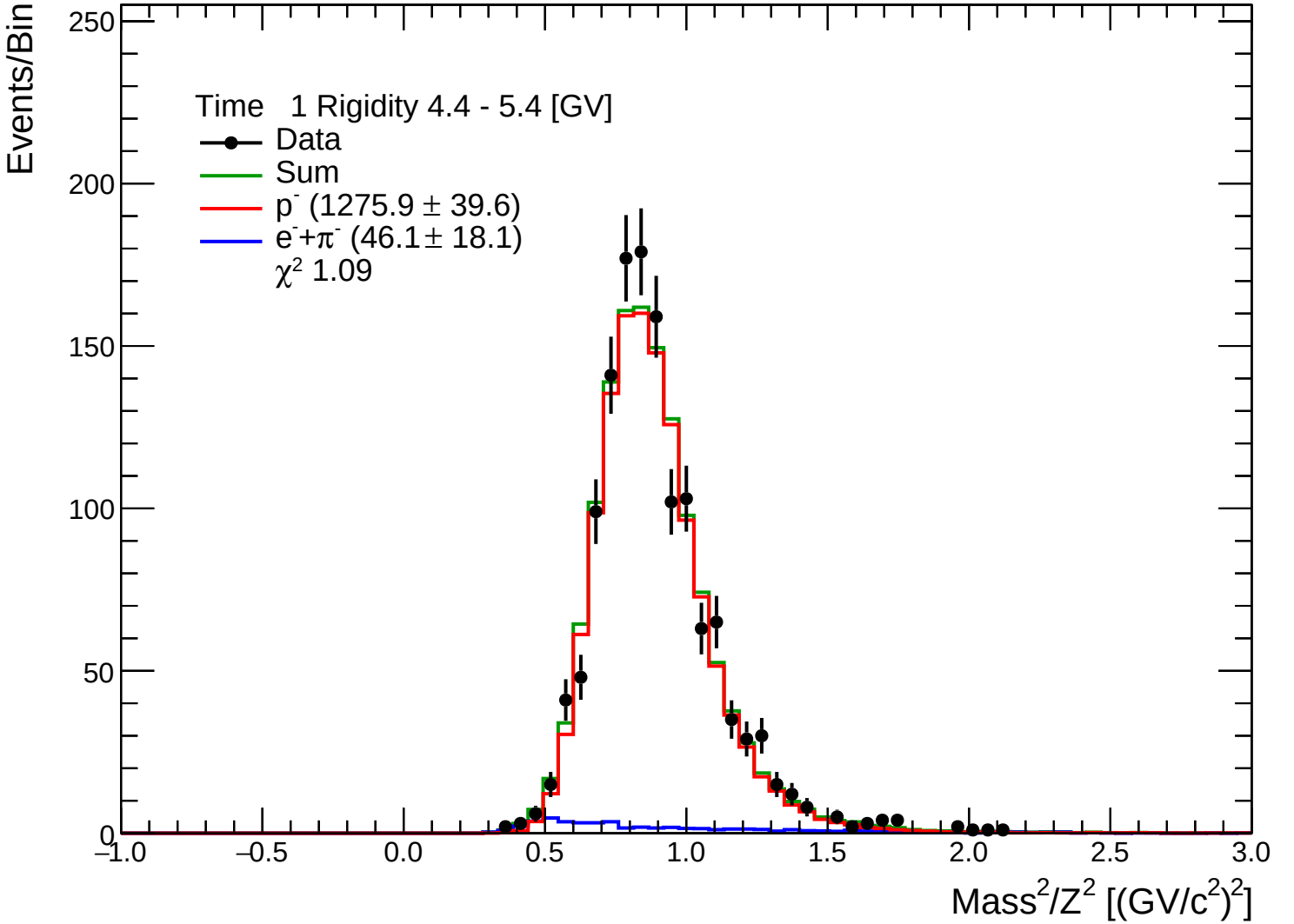
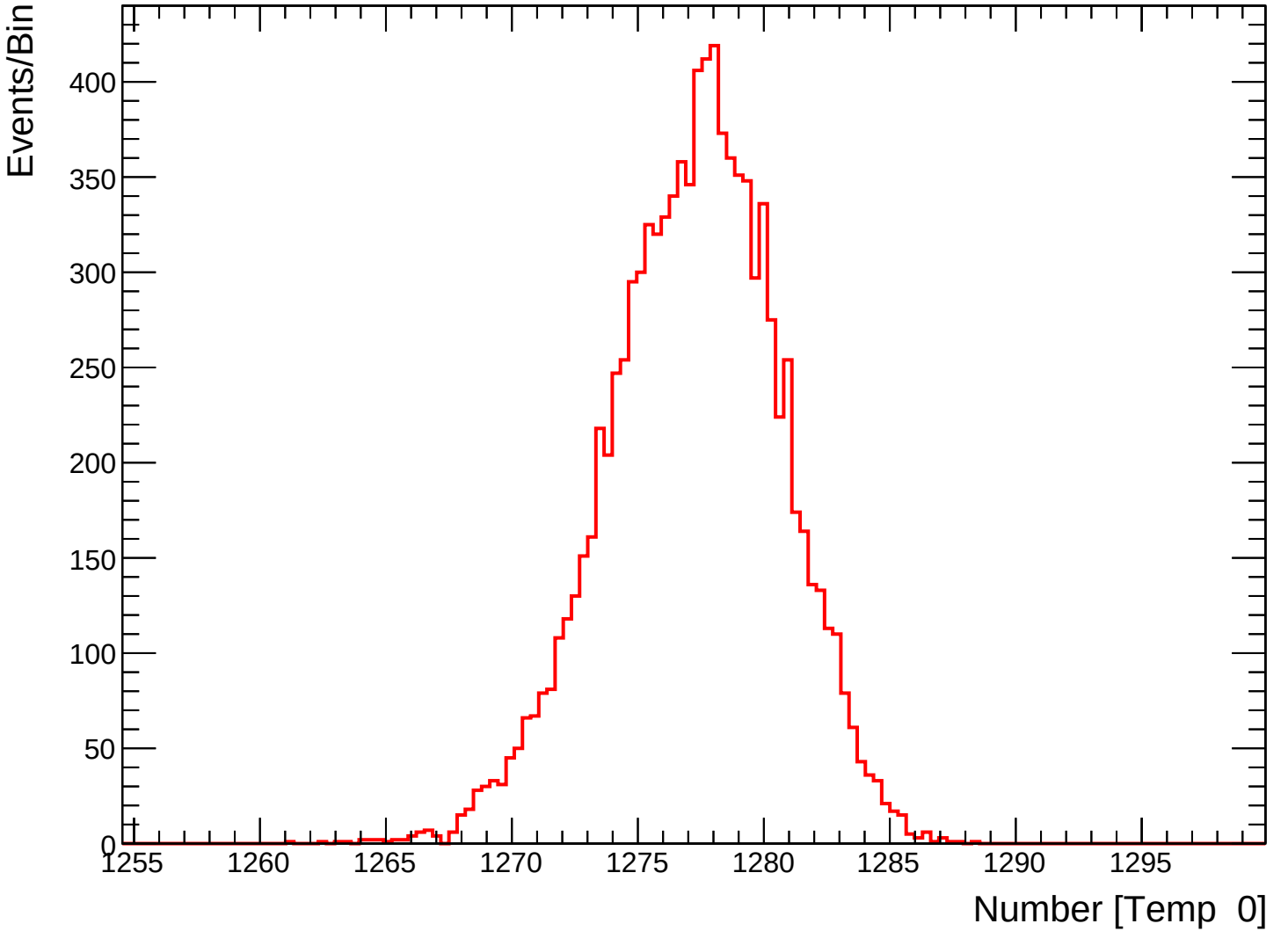
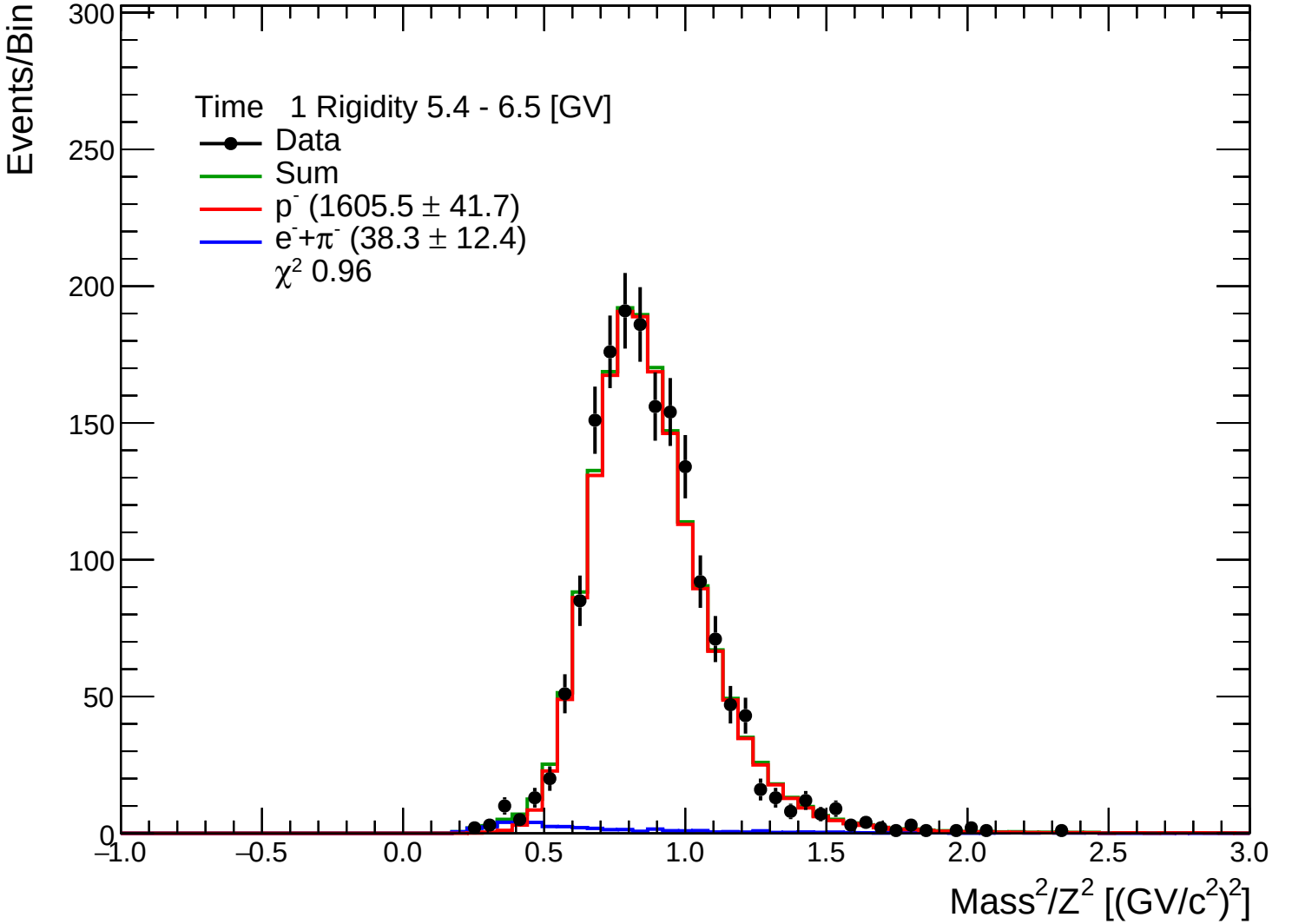
<< START >> apflux_tme3M_lrh

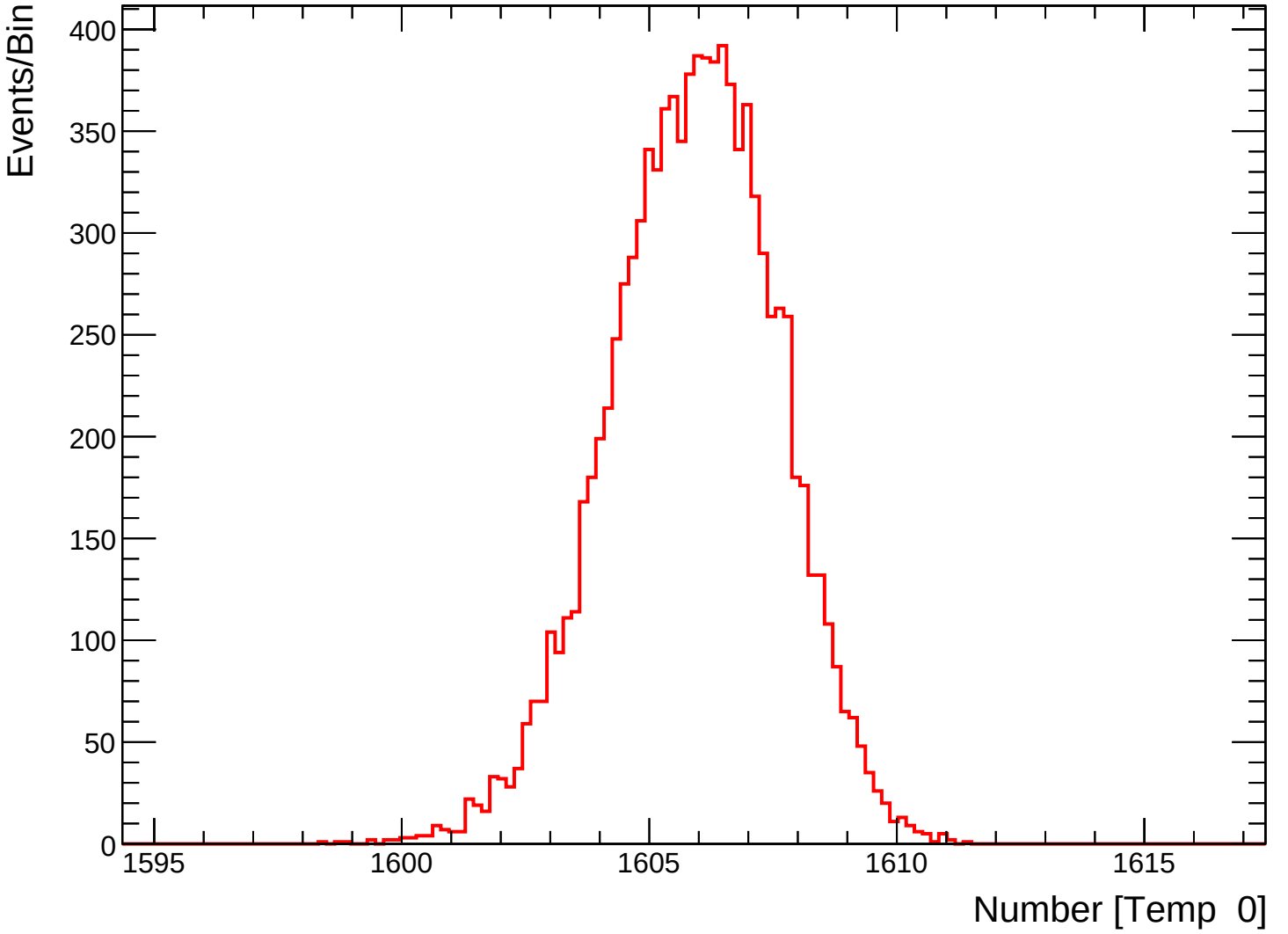

Time 1 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (732.8 ± 30.7)
e⁻+π⁻ (25.8 ± 15.1)
χ² 0.75
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Events/Bin
400
350
300
250
200
150
100
50
0
720
725
730
735
740
745
750
Number [Temp 0]


Time 1 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1275.9 ± 39.6)
e⁻+π⁻ (46.1± 18.1)
χ² 1.09
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Events/Bin
400
350
300
250
200
150
100
50
0
1255
1260
1265
1270
1275
1280
1285
1290
1295
Number [Temp 0]


Time 1 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1605.5 ± 41.7)
e⁻+π⁻ (38.3 ± 12.4)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
300
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Events/Bin
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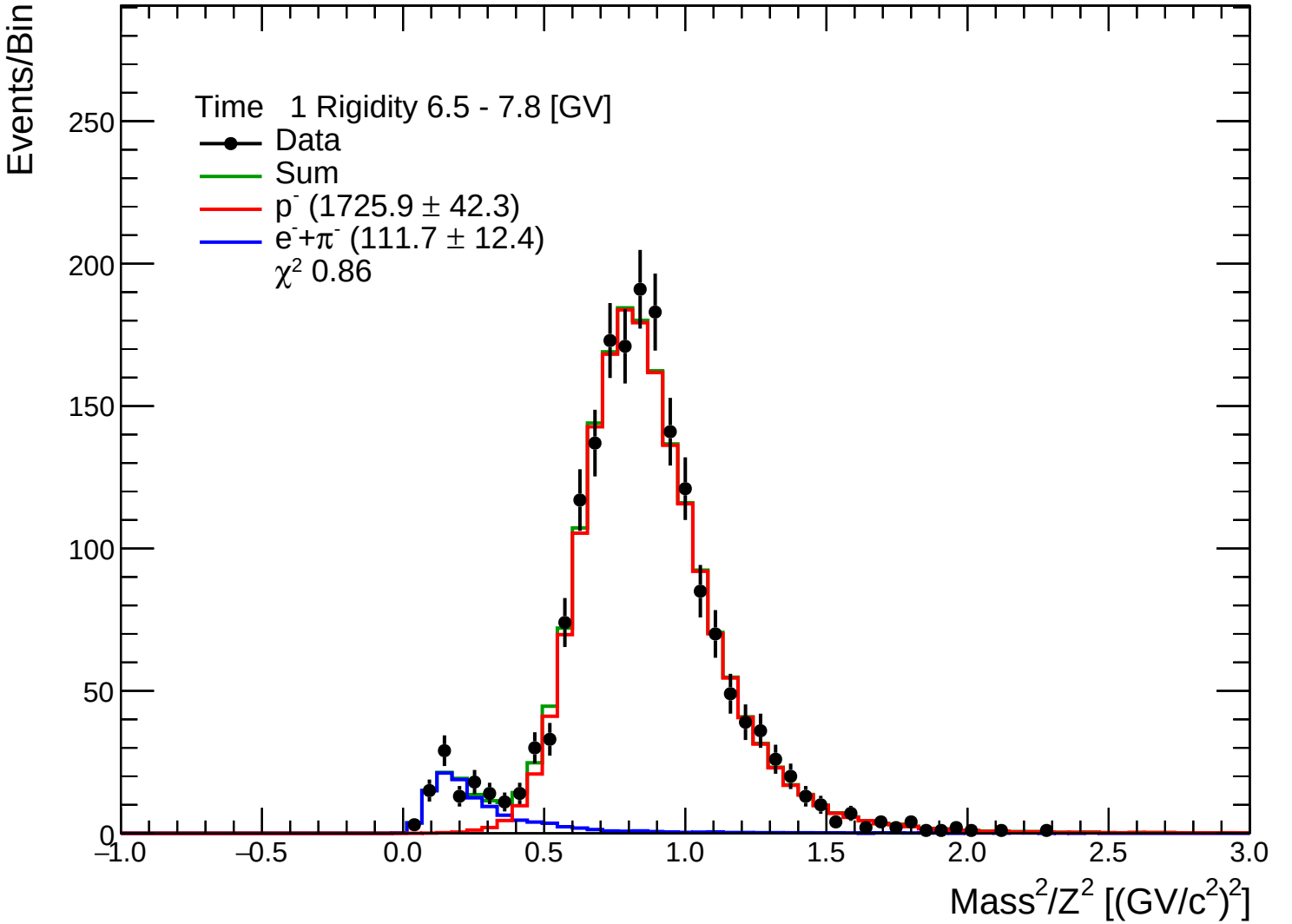
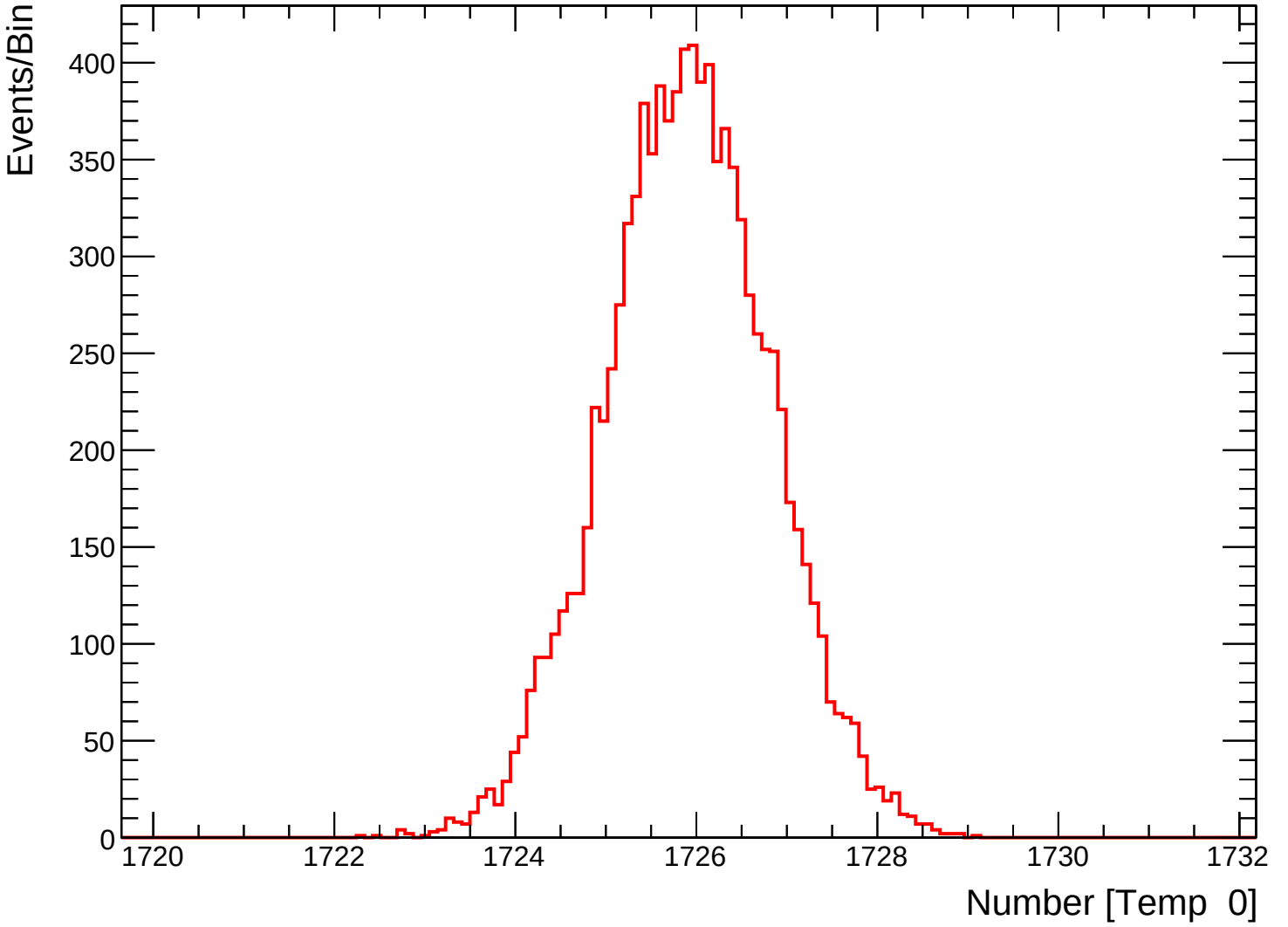
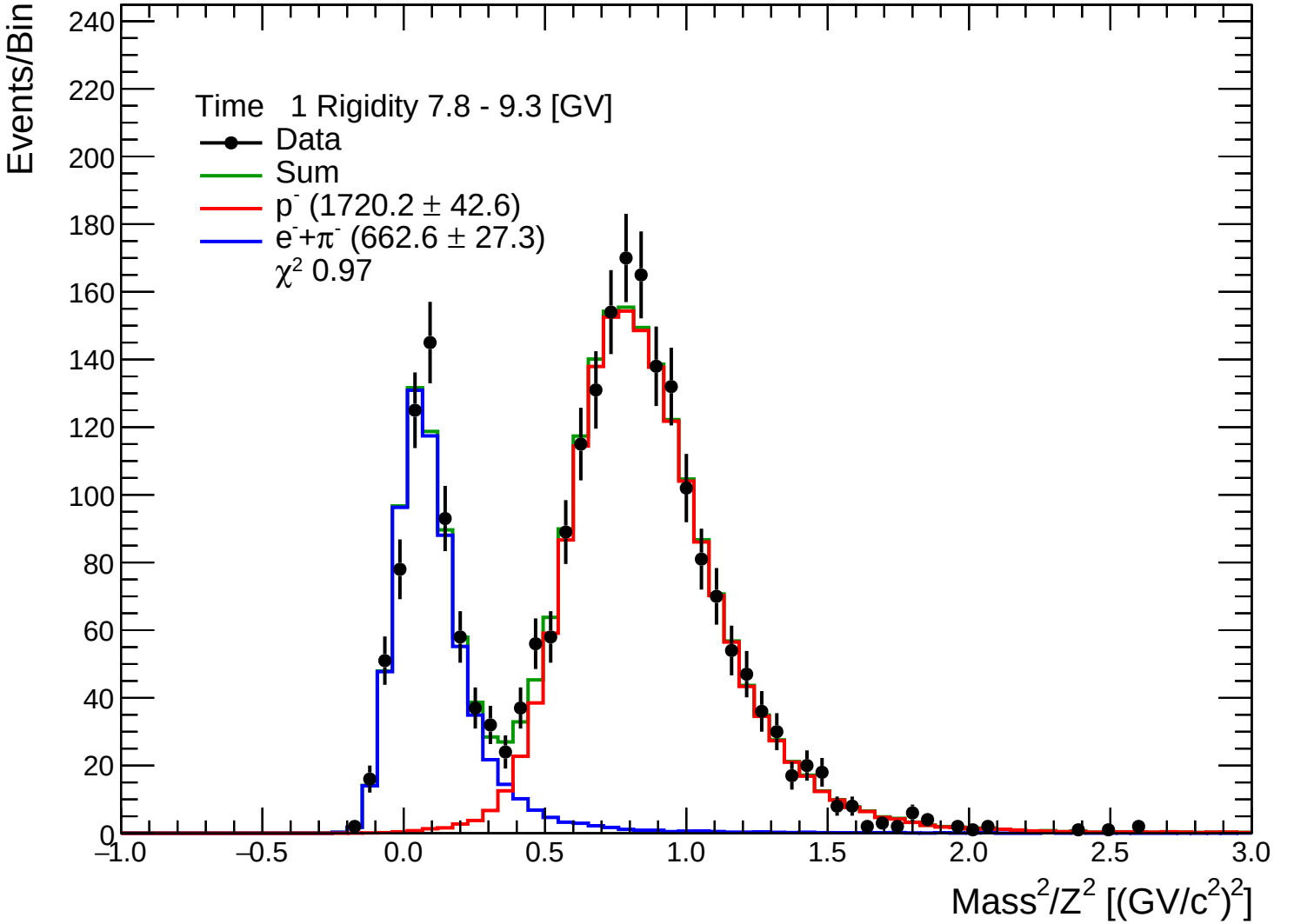
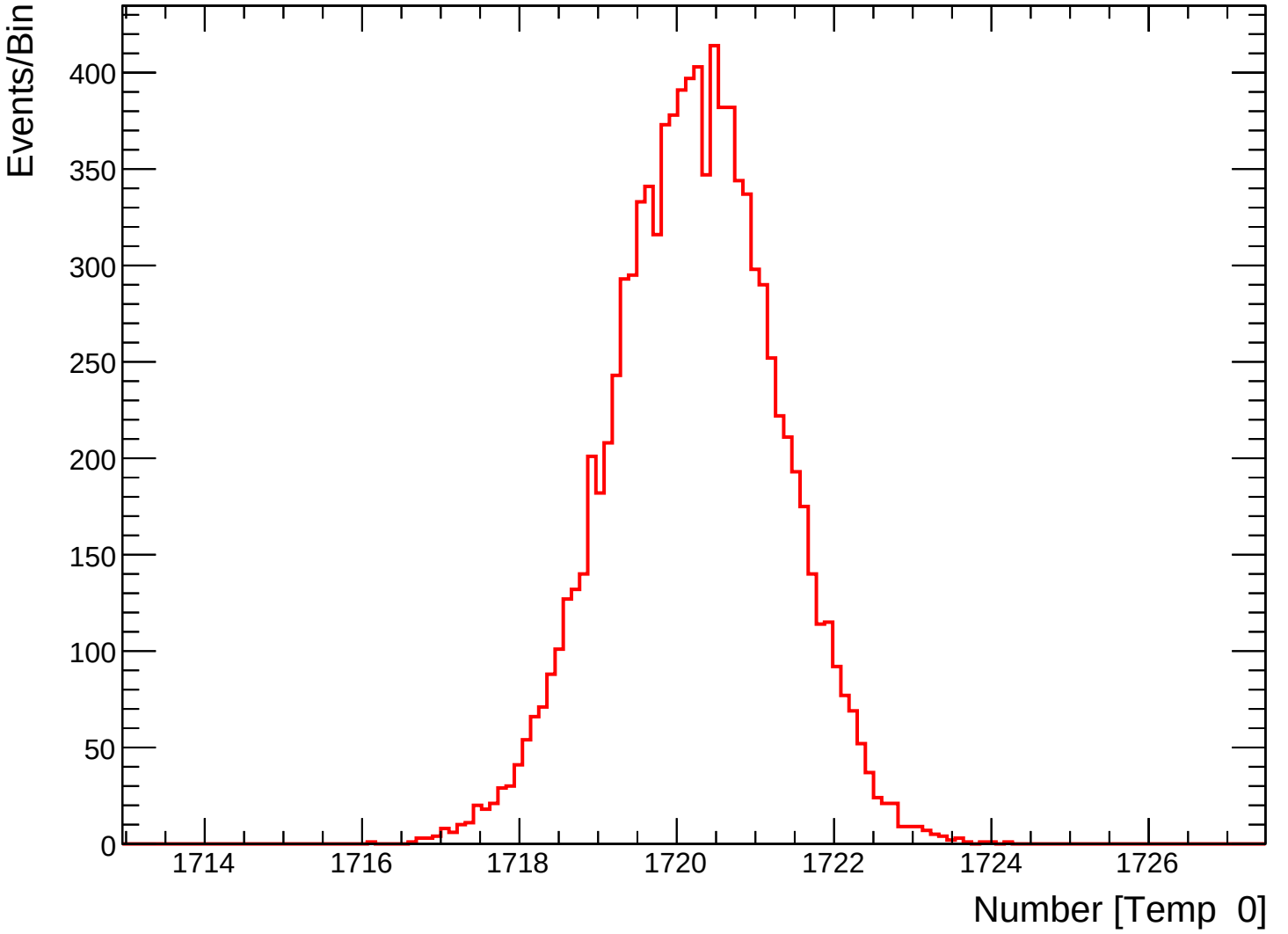
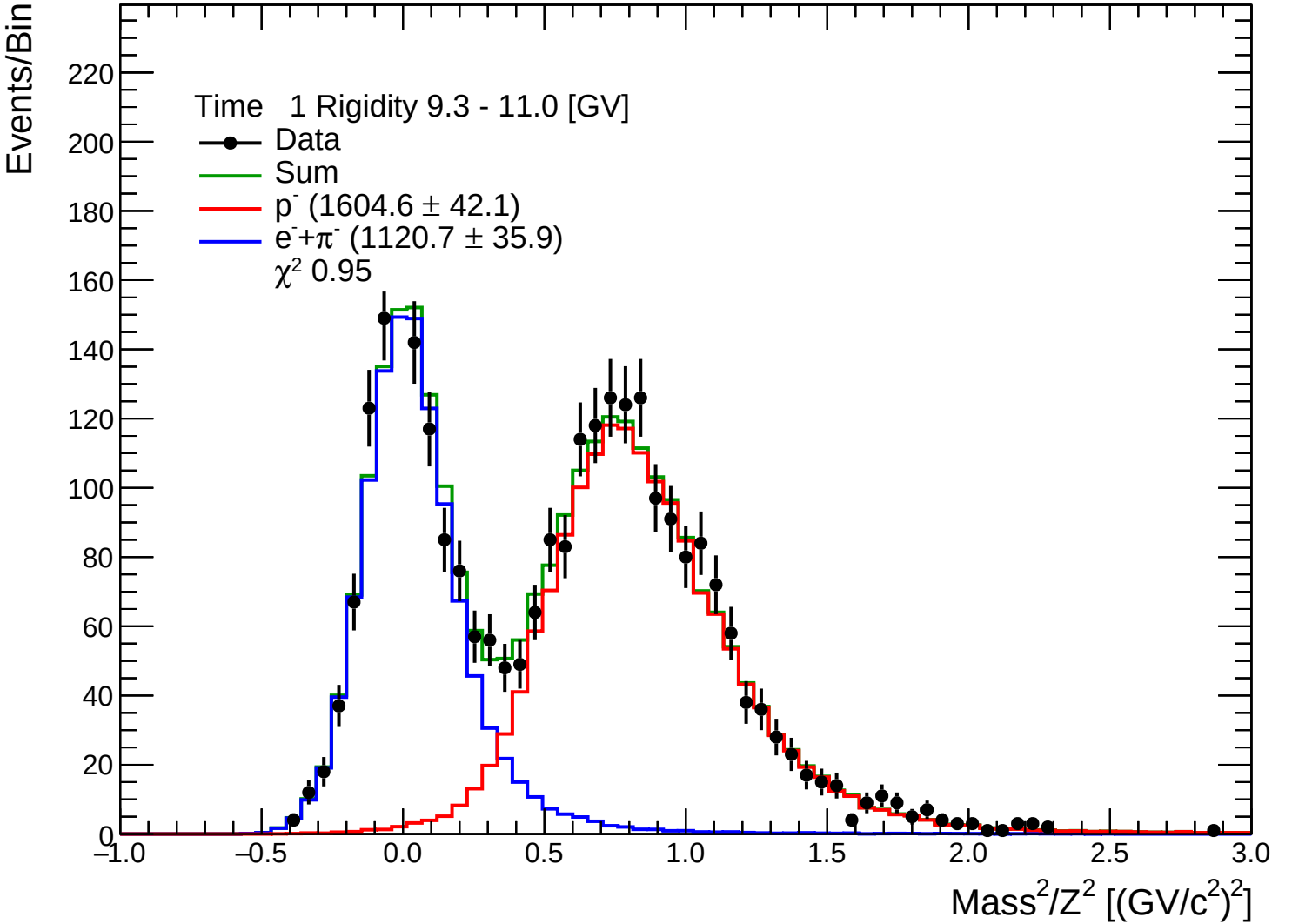
350
300
250
200
150
100
50
0
1595
1600
1605
1610
1615
Number [Temp 0]

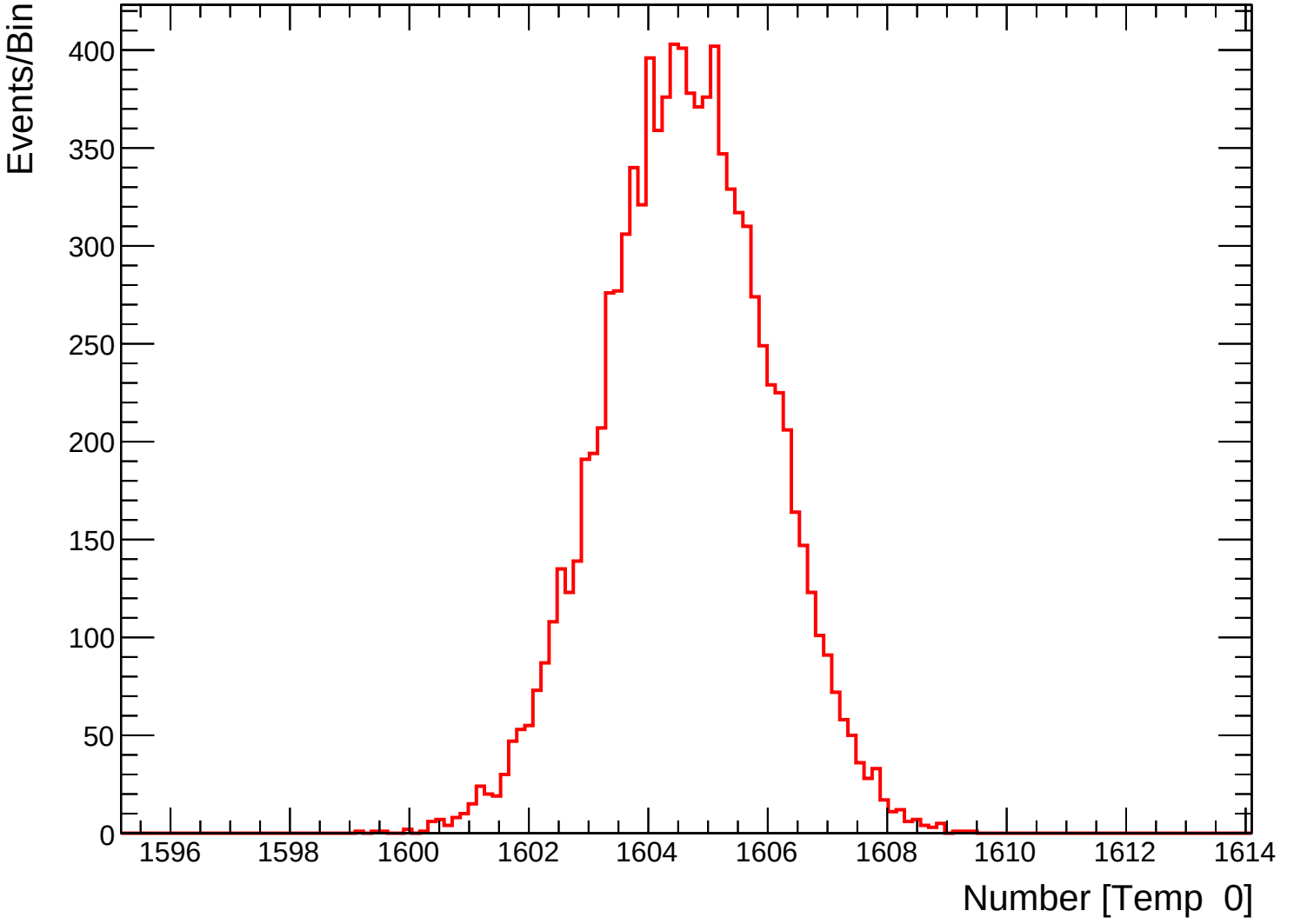

Time 1 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1725.9 ± 42.3)
e⁻+π⁻ (111.7 ± 12.4)
χ² 0.86
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

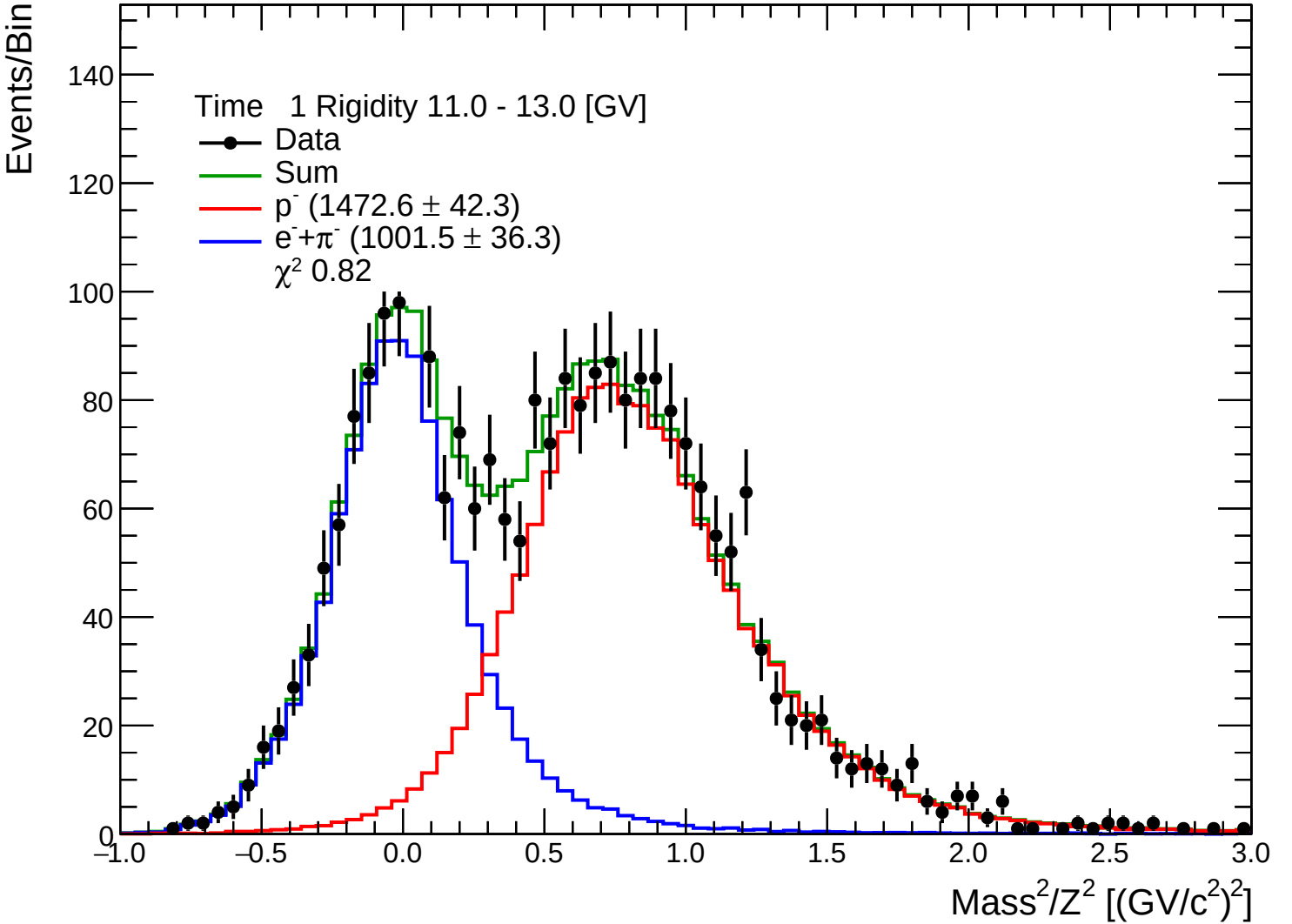

Events/Bin
400
350
300
250
200
150
100
50
0
1720
1722
1724
1726
1728
1730
1732
Number [Temp 0]

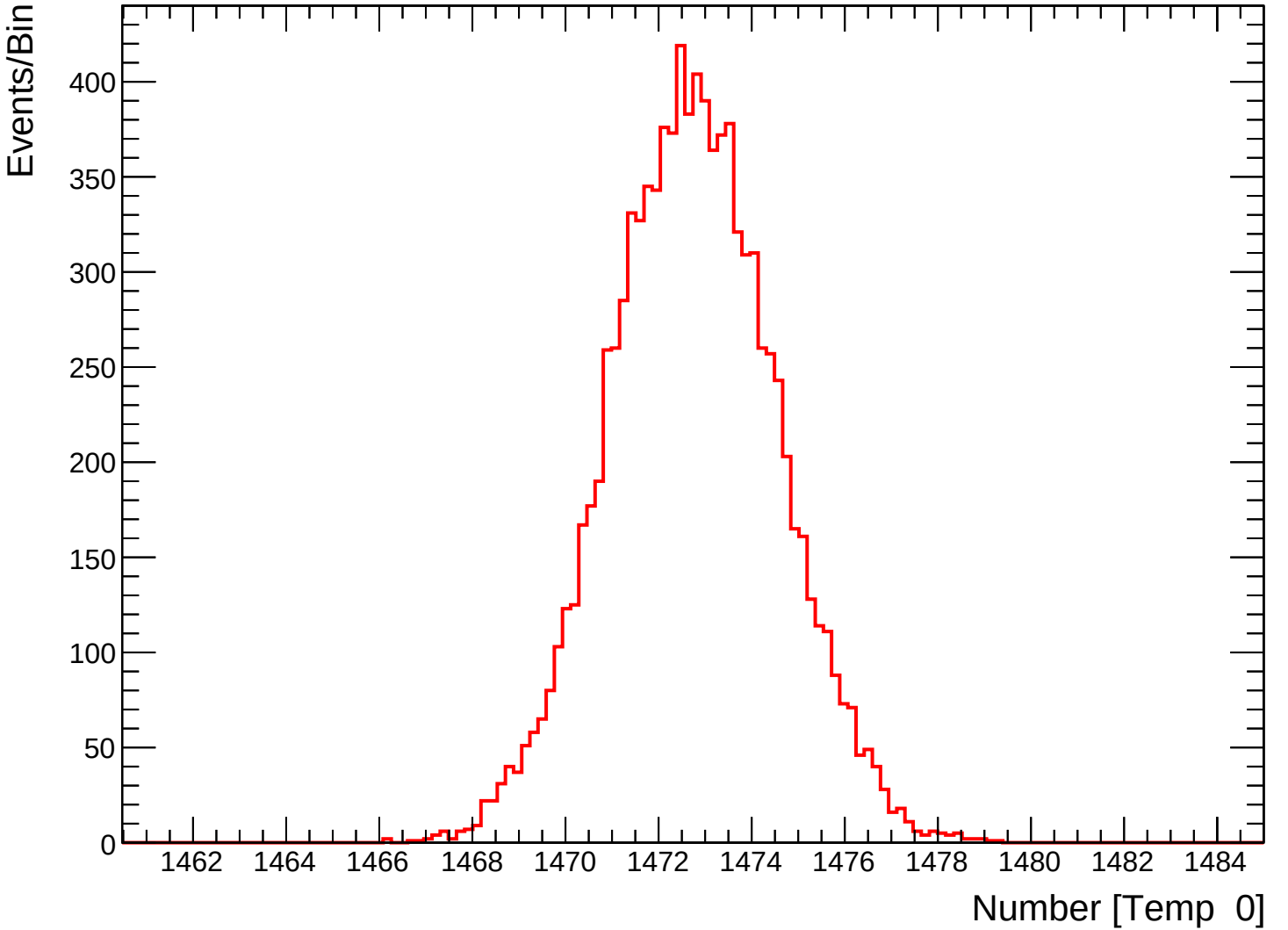

Time 1 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1720.2 ± 42.6)
e⁻+π⁻ (662.6 ± 27.3)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

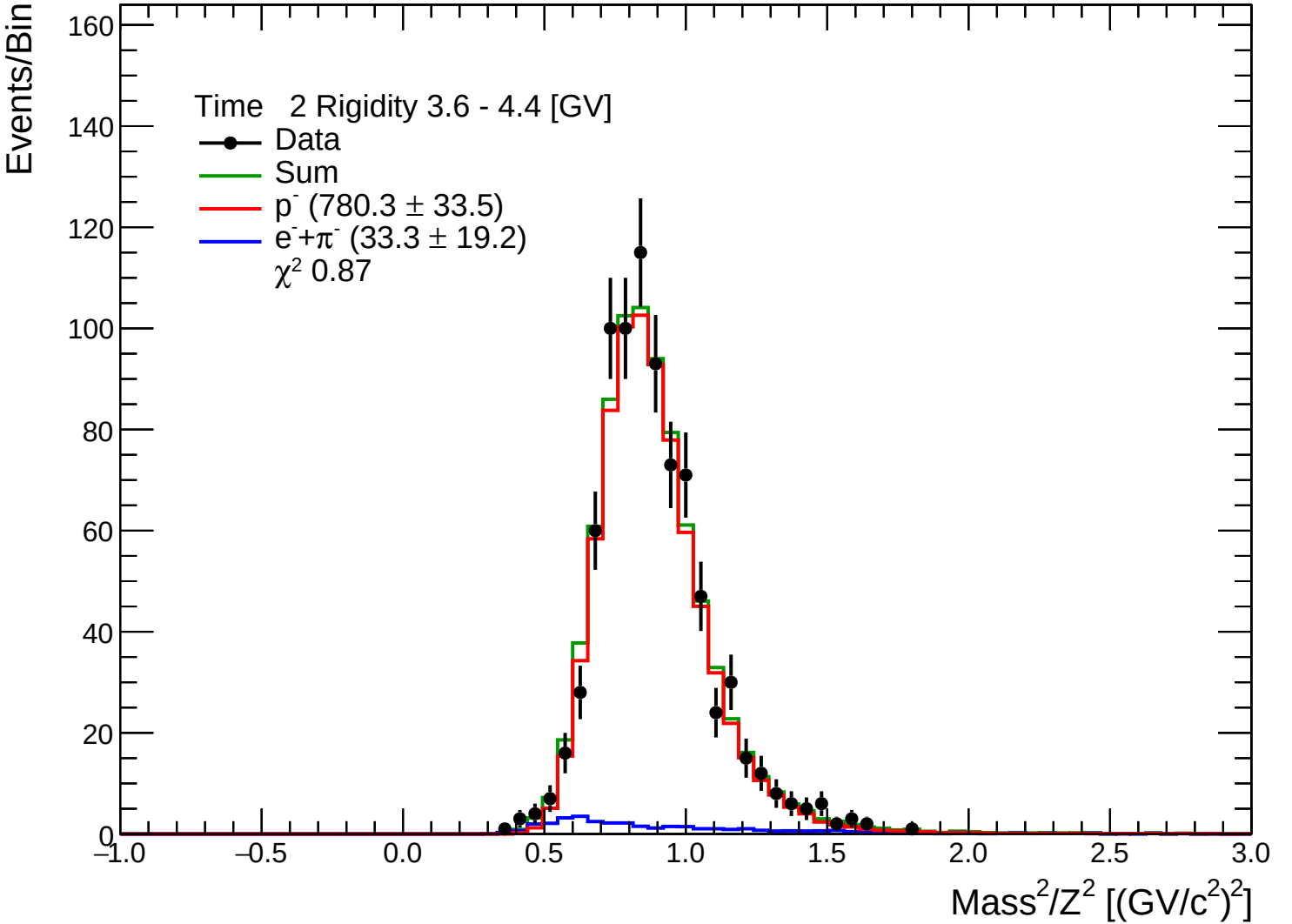

Events/Bin
400
350
300
250
200
150
100
50
0
1714
1716
1718
1720
1722
1724
1726
Number [Temp 0]

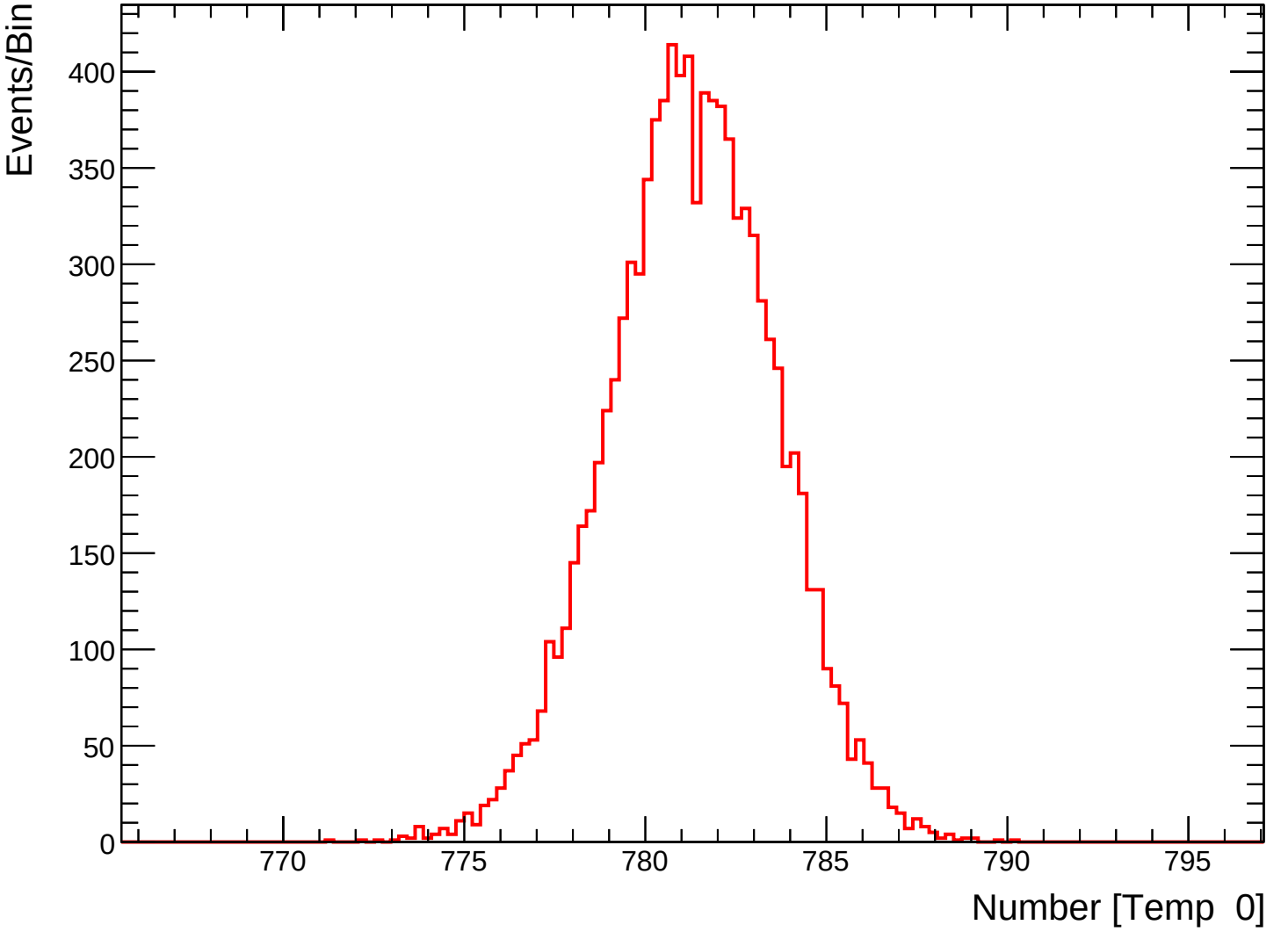

Time 1 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1604.6 ± 42.1)
e⁻+π⁻ (1120.7 ± 35.9)
χ² 0.95
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

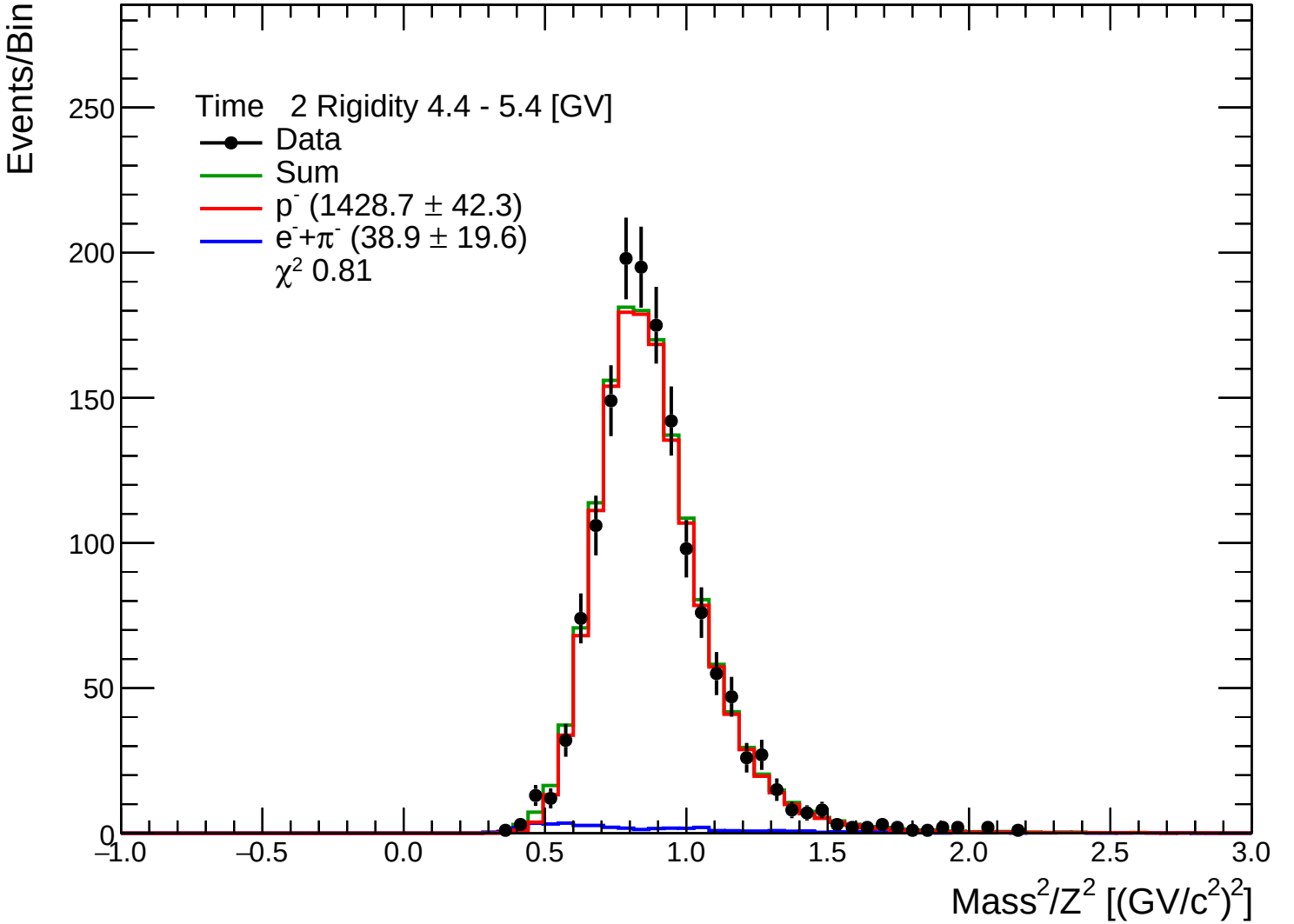

Events/Bin
400
350
300
250
200
150
100
50
0
1596
1598
1600
1602
1604
1606
1608
1610
1612
1614
Number [Temp 0]

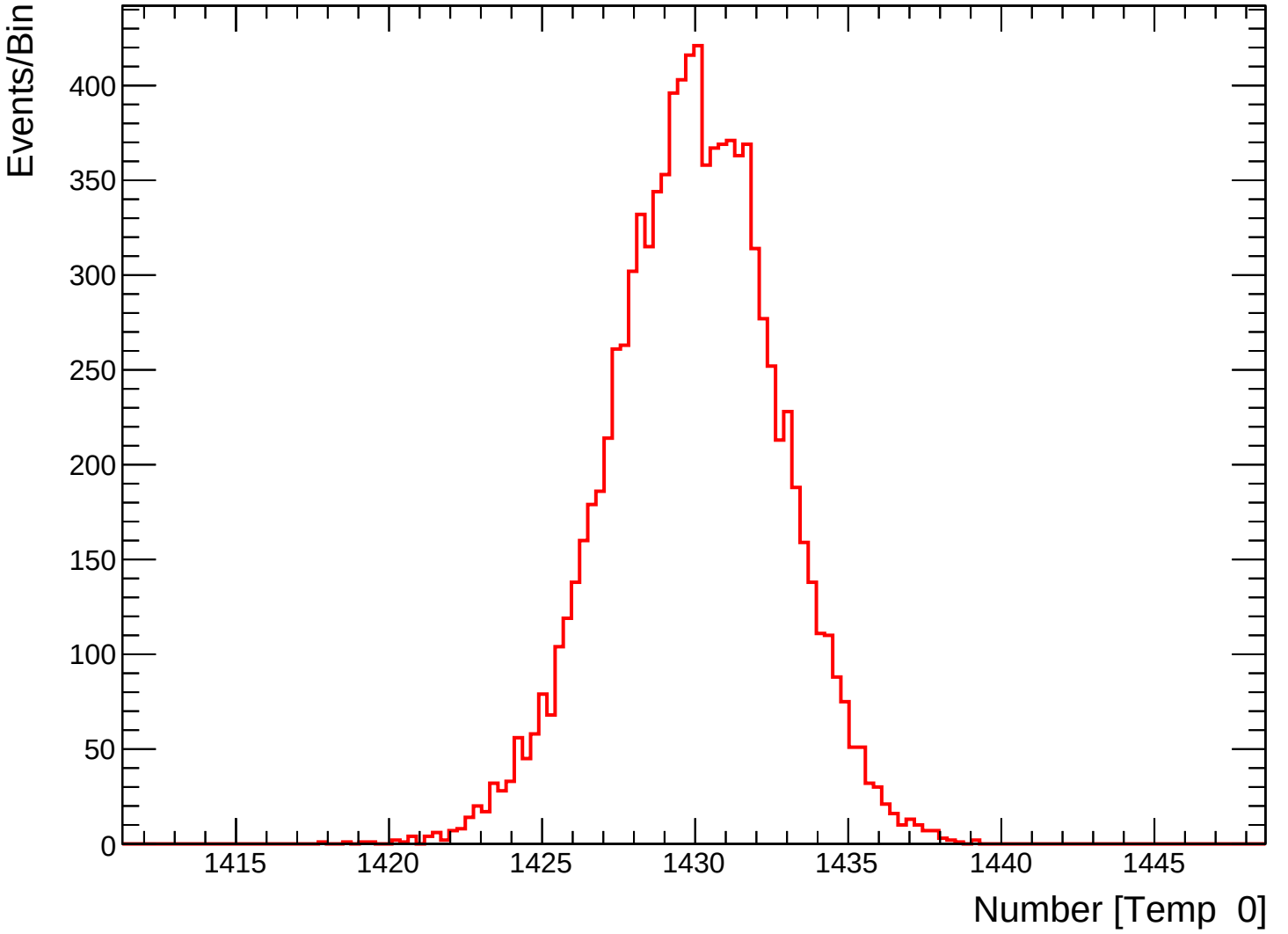

Time 1 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1472.6 ± 42.3)
e⁻+π⁻ (1001.5 ± 36.3)
χ² 0.82
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

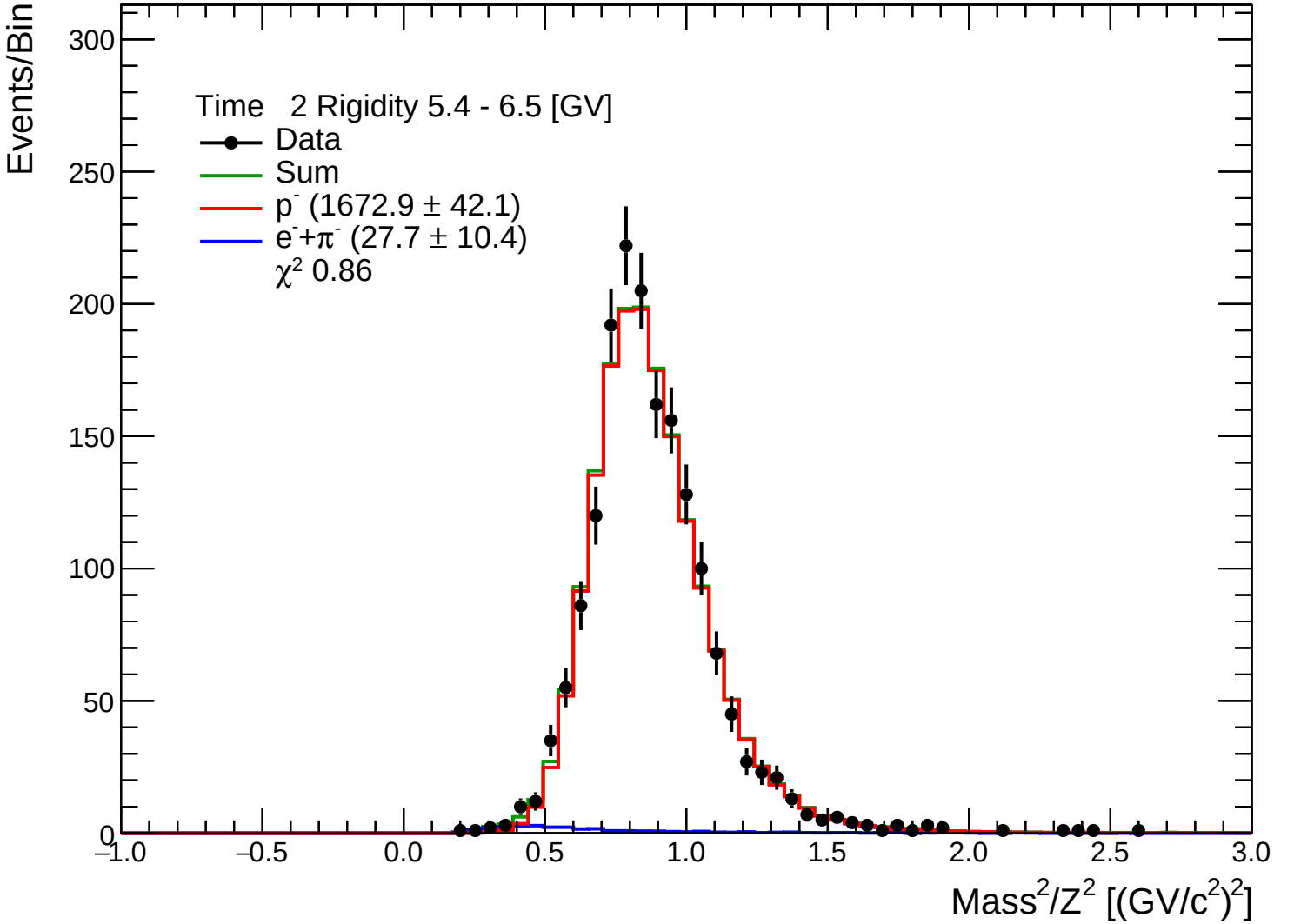

Events/Bin
400
350
300
250
200
150
100
50
0
1462
1464
1466
1468
1470
1472
1474
1476
1478
1480
1482
1484
Number [Temp 0]

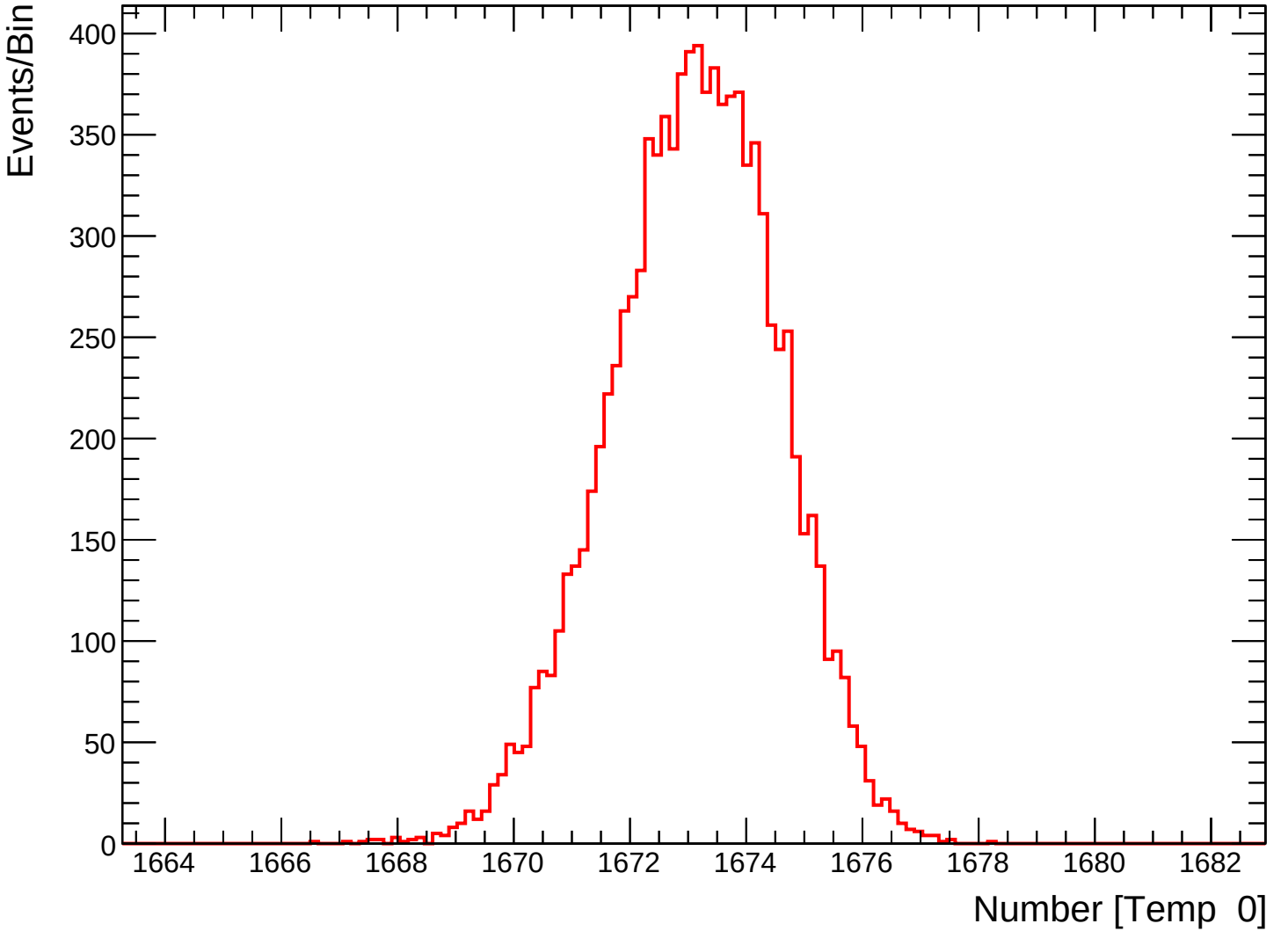

Time 2 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (780.3 ± 33.5)
e⁻+π⁻ (33.3 ± 19.2)
χ² 0.87
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

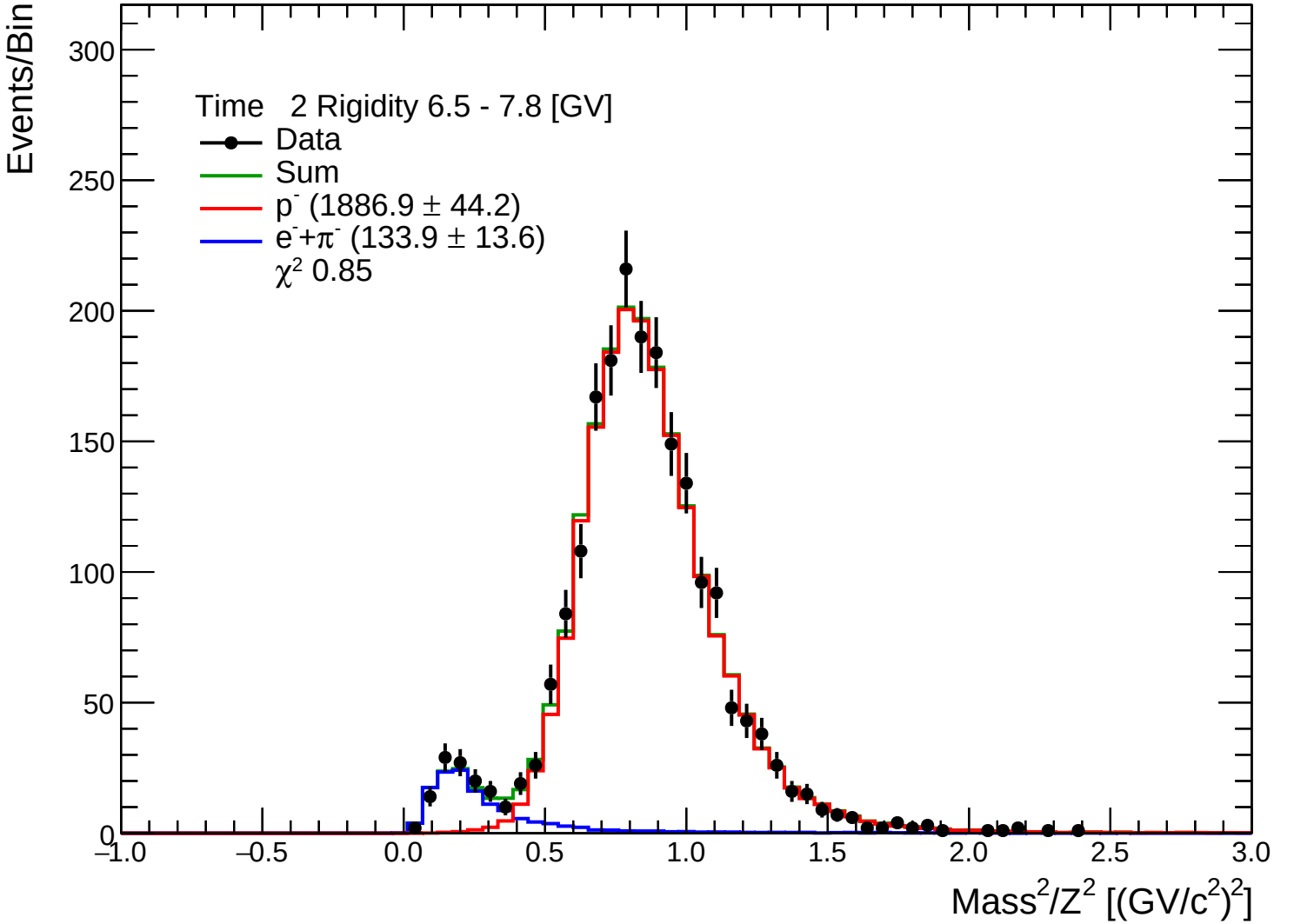

Events/Bin
400
350
300
250
200
150
100
50
0
770
775
780
785
790
795
Number [Temp 0]

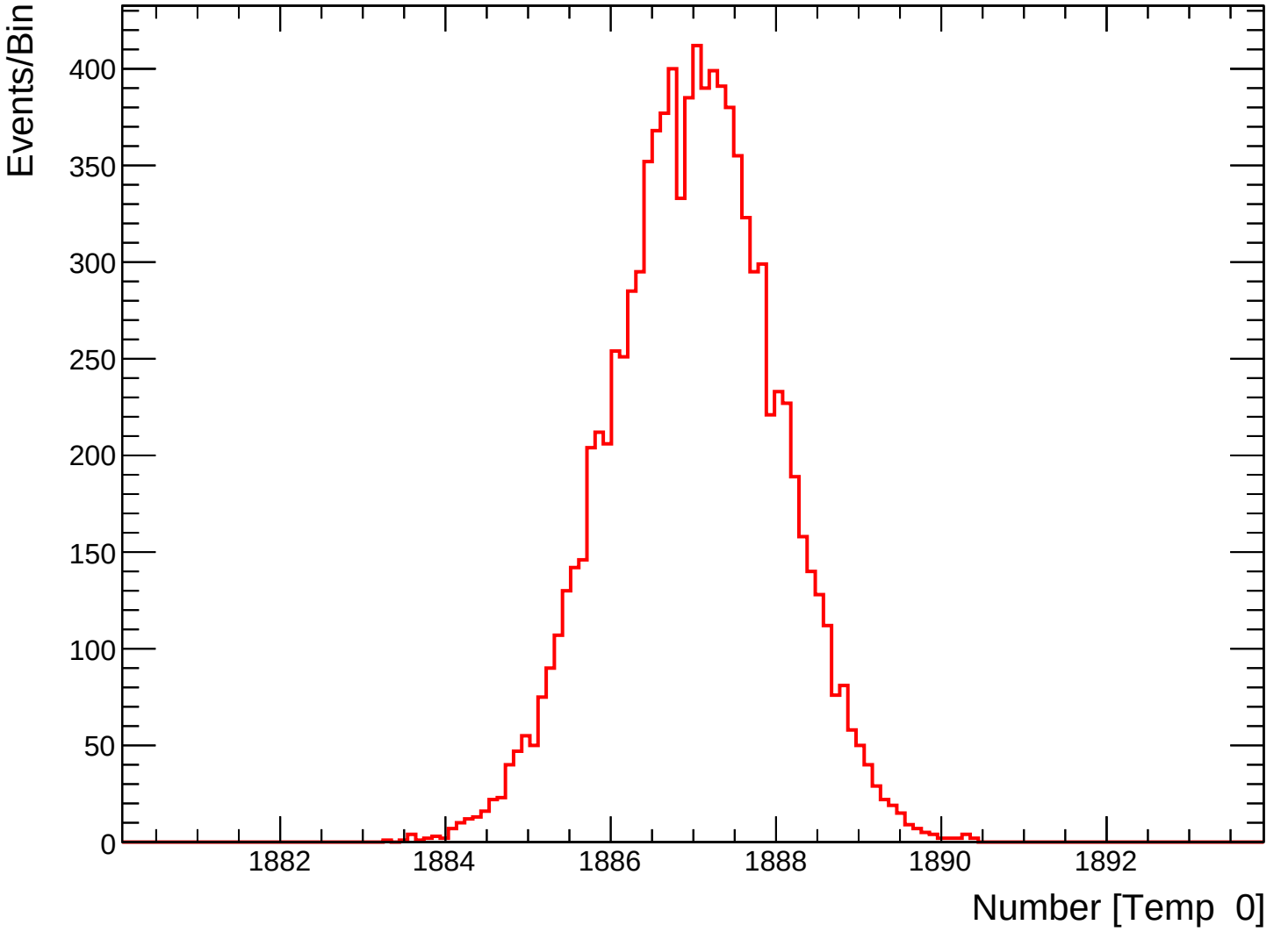

Time 2 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1428.7 ± 42.3)
e⁻+π⁻ (38.9 ± 19.6)
χ² 0.81
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

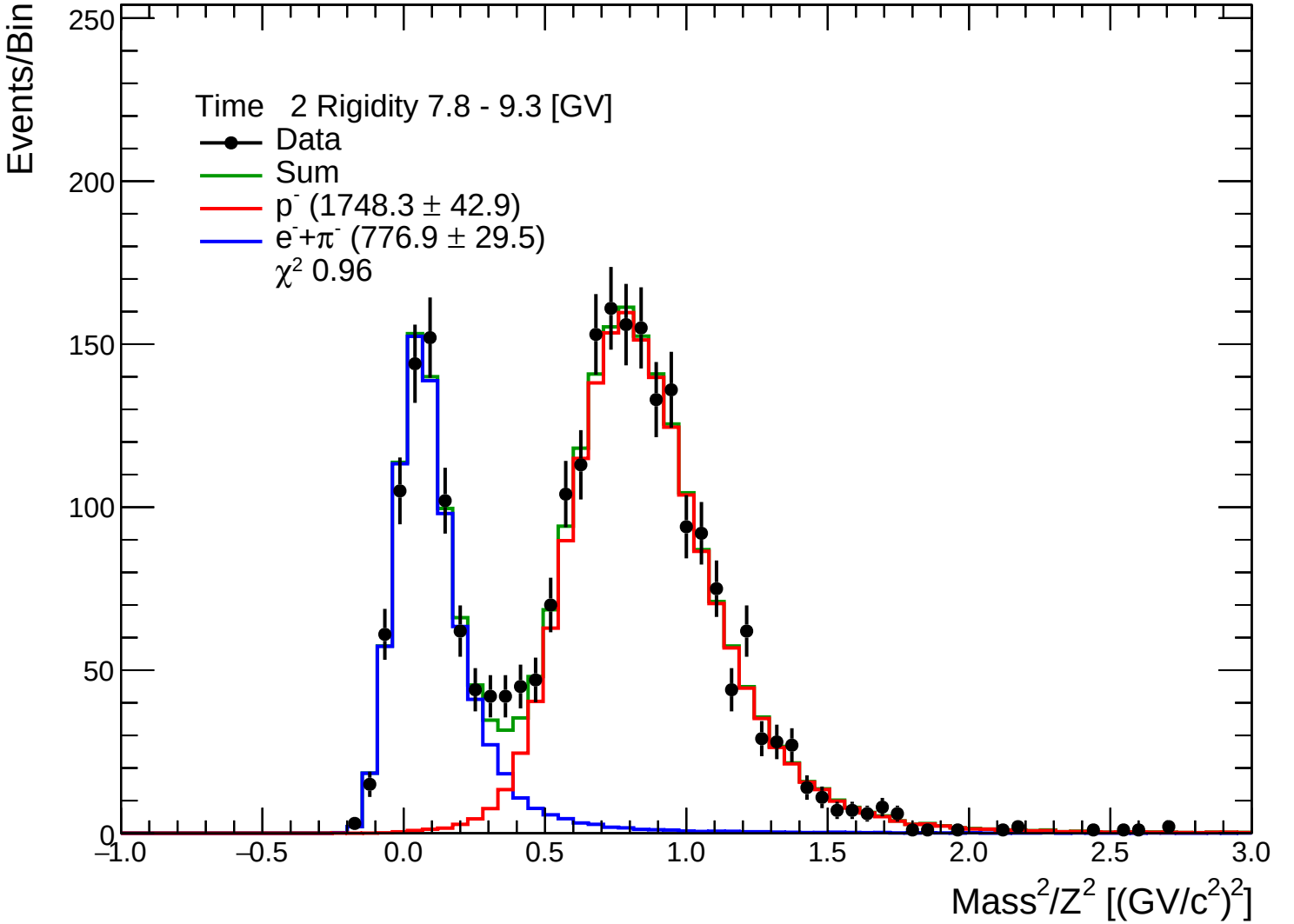

Events/Bin
400
350
300
250
200
150
100
50
0
1415
1420
1425
1430
1435
1440
1445
Number [Temp 0]

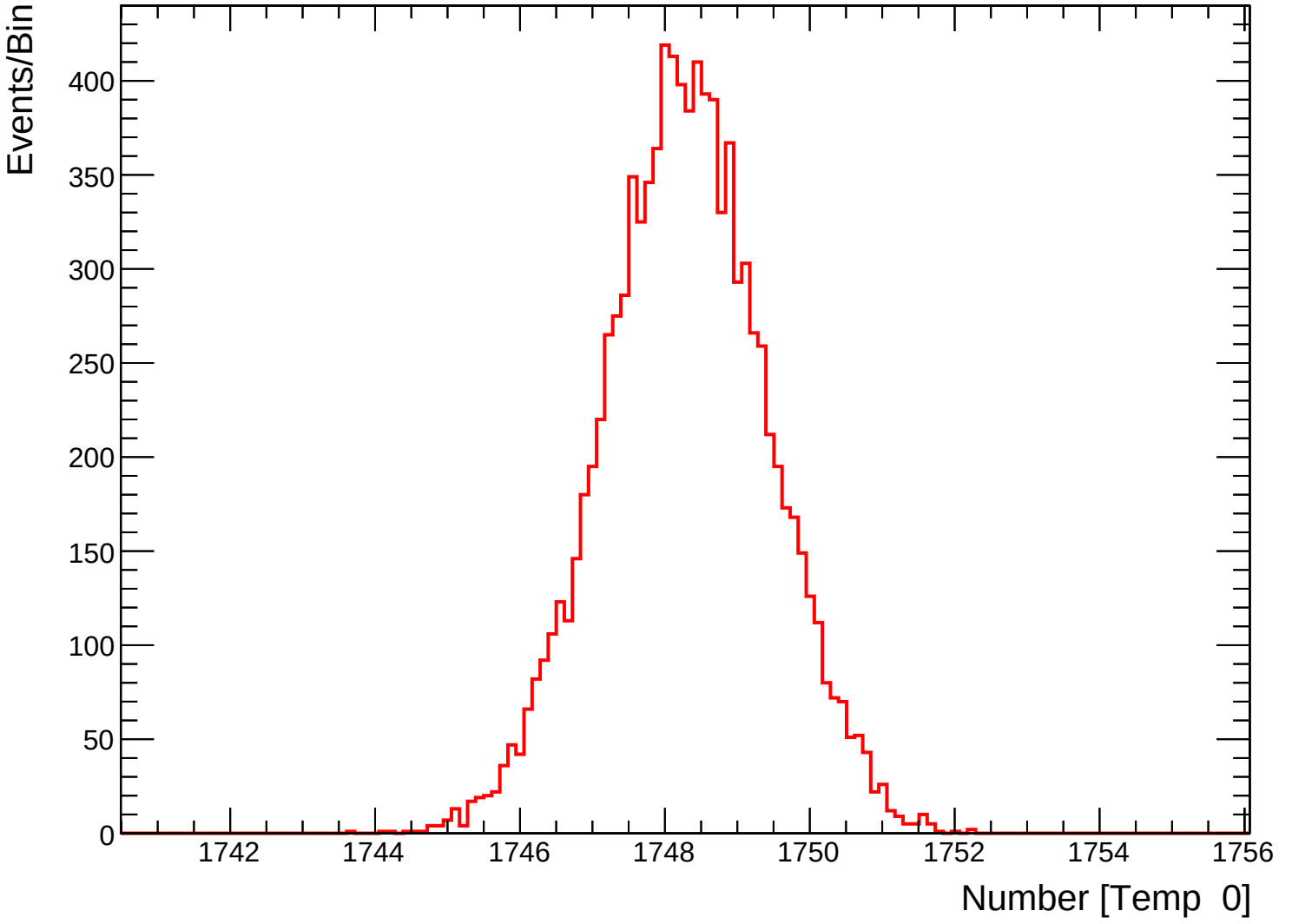

Time 2 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1672.9 ± 42.1)
e⁻+π⁻ (27.7 ± 10.4)
χ² 0.86
Events/Bin
Mass²/Z² [(GV/c²)²]
300
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

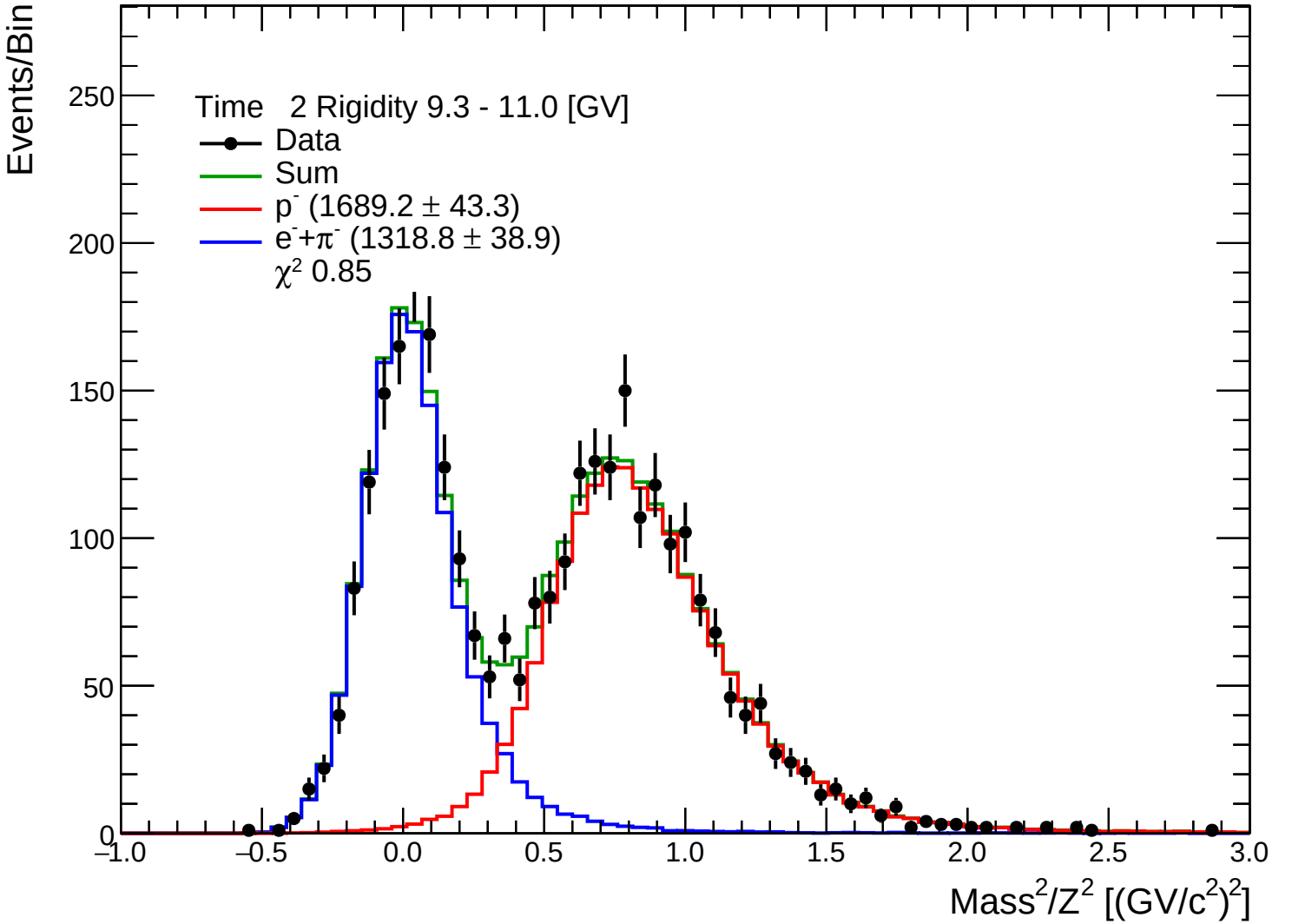

Events/Bin
400
350
300
250
200
150
100
50
0
1664
1666
1668
1670
1672
1674
1676
1678
1680
1682
Number [Temp 0]

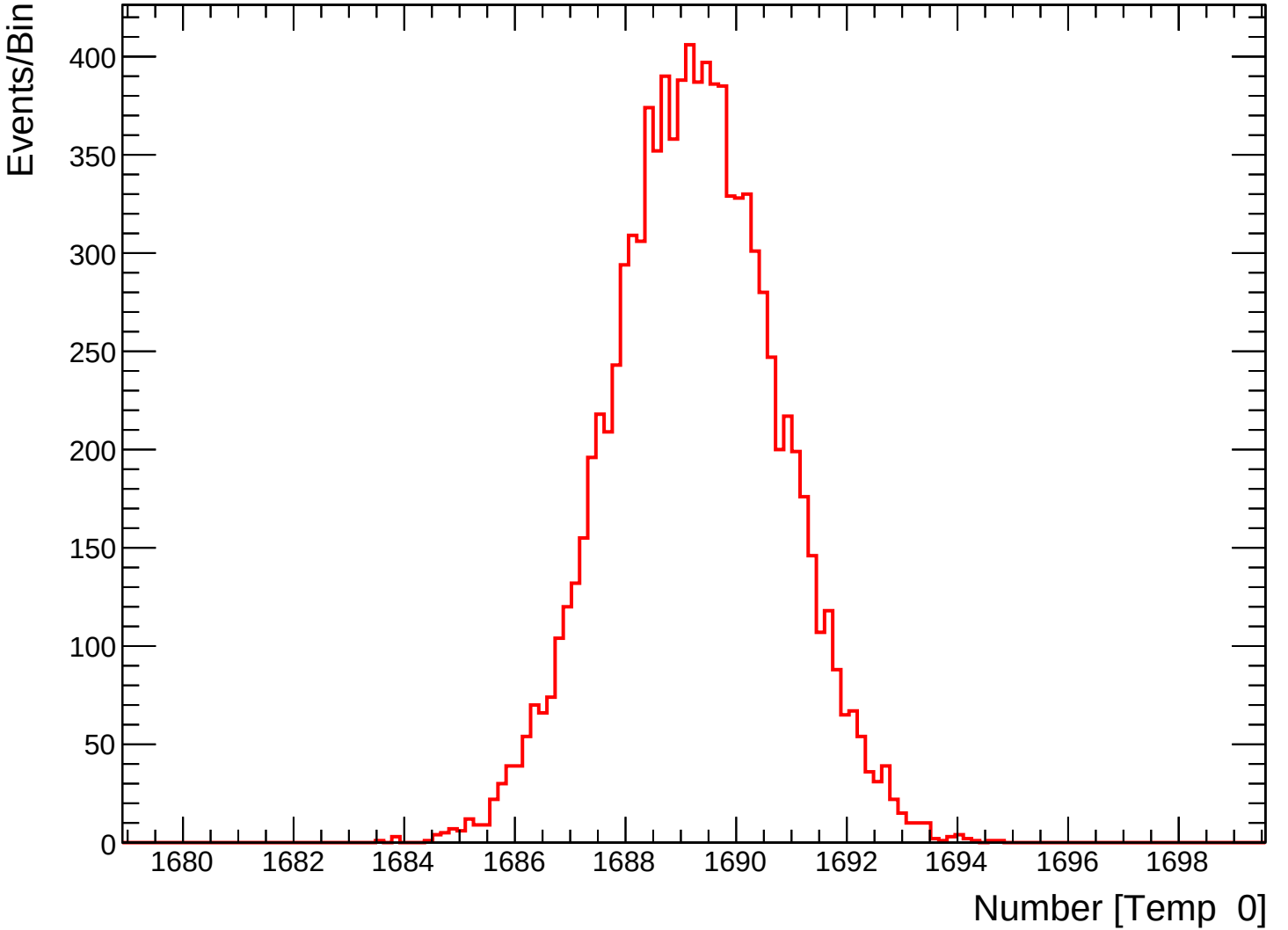

Time 2 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1886.9 ± 44.2)
e⁻+π⁻ (133.9 ± 13.6)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
300
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

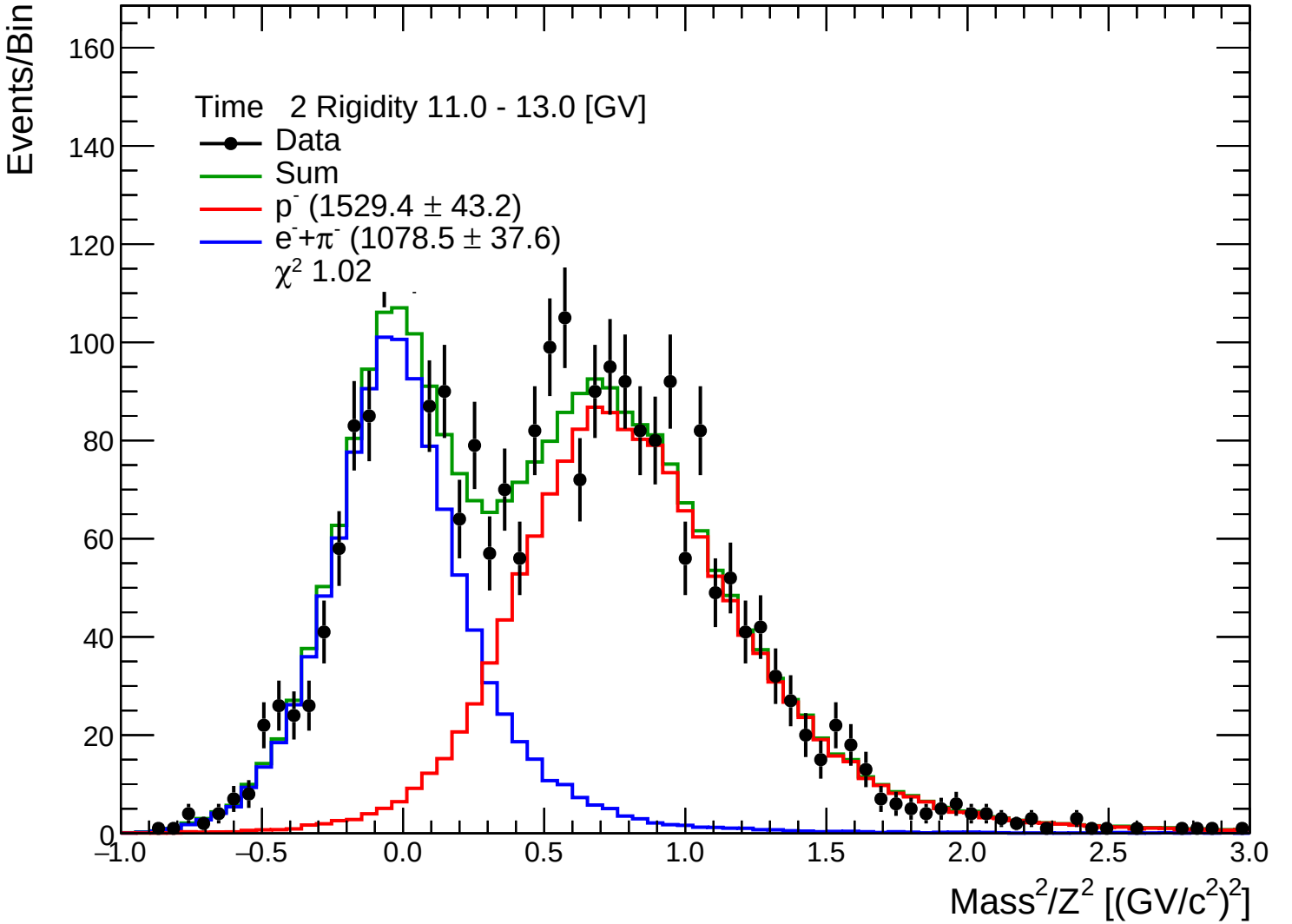

Events/Bin
400
350
300
250
200
150
100
50
0
1882
1884
1886
1888
1890
1892
Number [Temp 0]

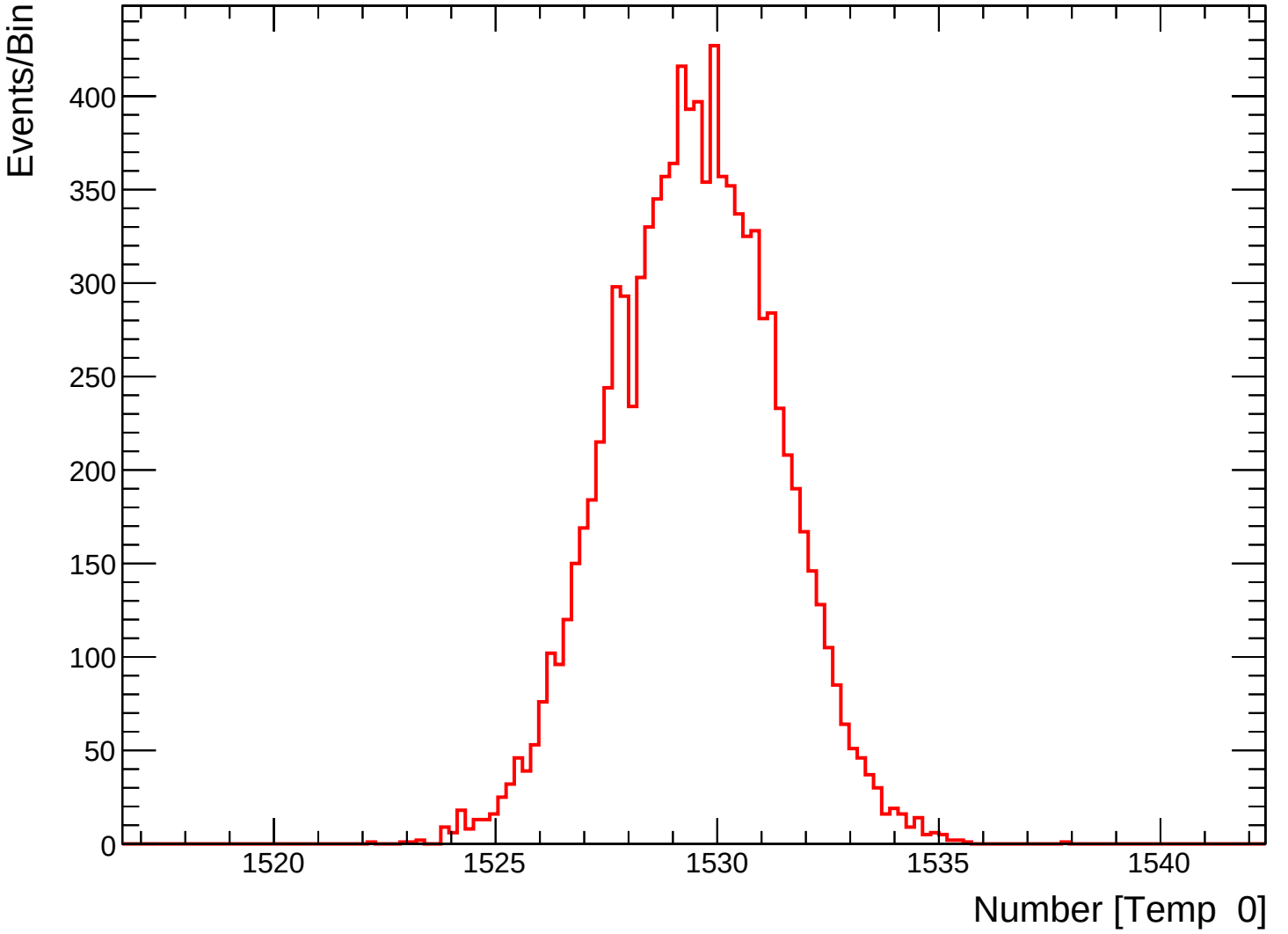

Time 2 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1748.3 ± 42.9)
e⁻+π⁻ (776.9 ± 29.5)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

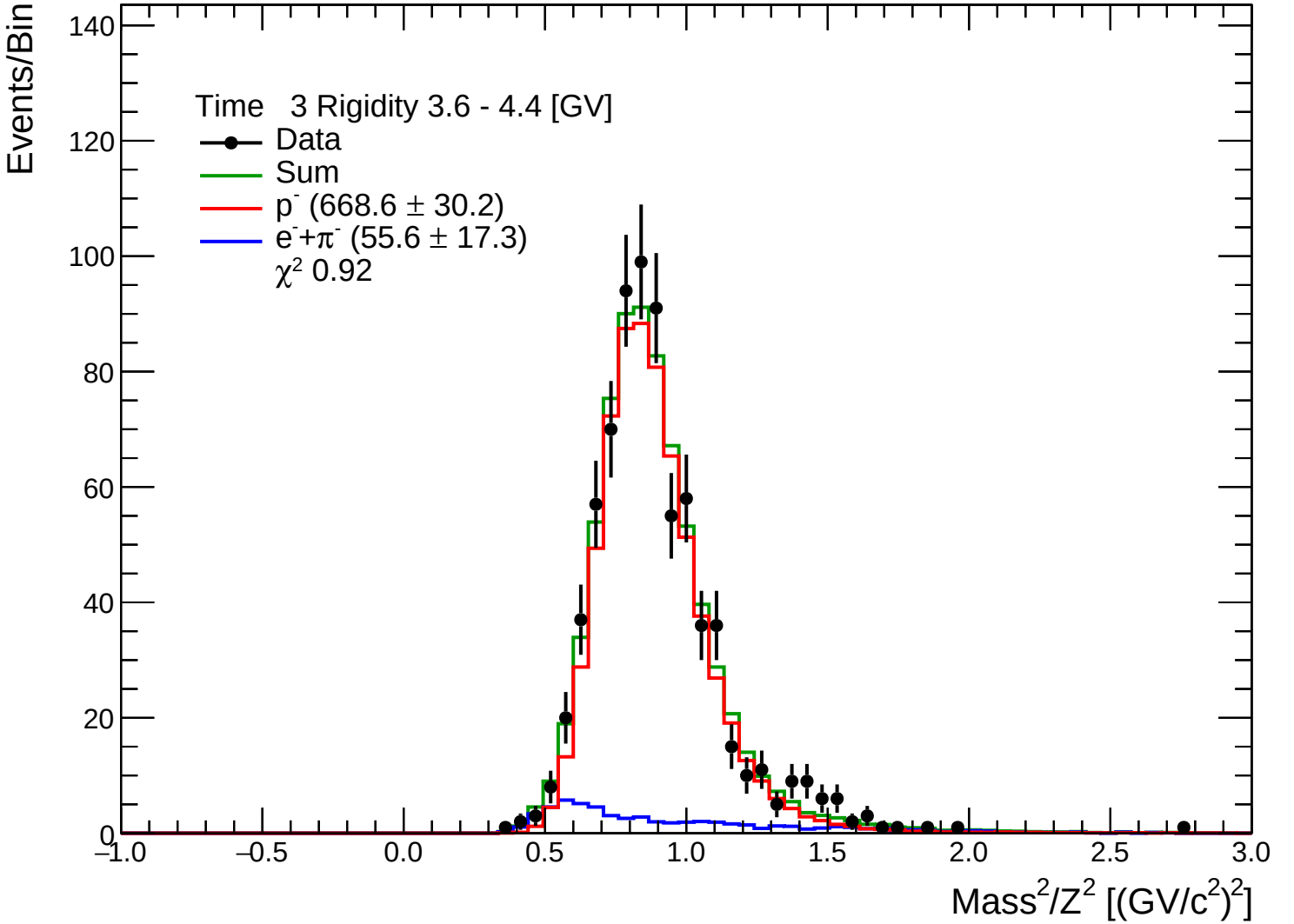

Events/Bin
400
350
300
250
200
150
100
50
0
1742
1744
1746
1748
1750
1752
1754
1756
Number [Temp 0]

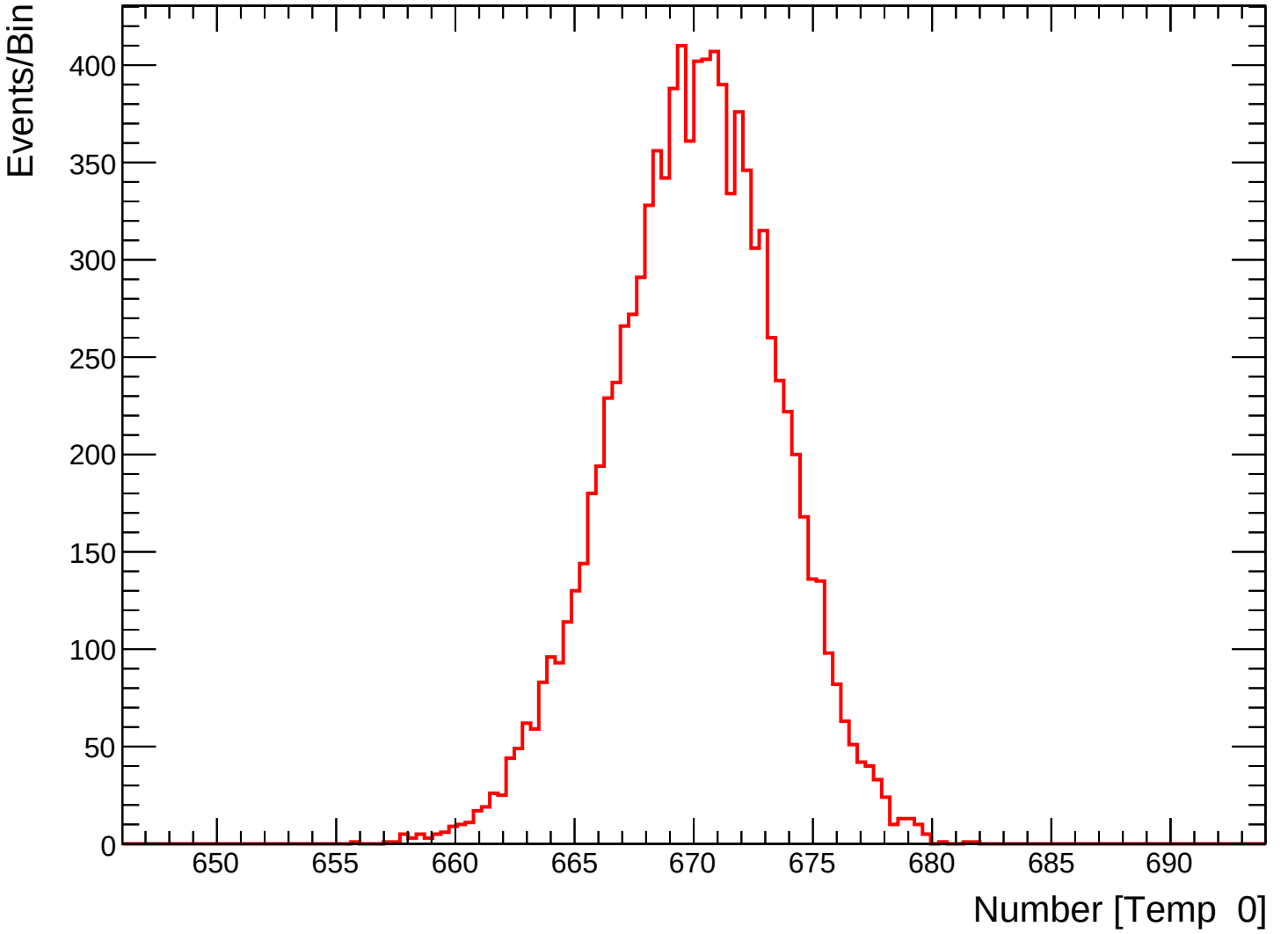

Time 2 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1689.2 ± 43.3)
e⁻+π⁻ (1318.8 ± 38.9)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

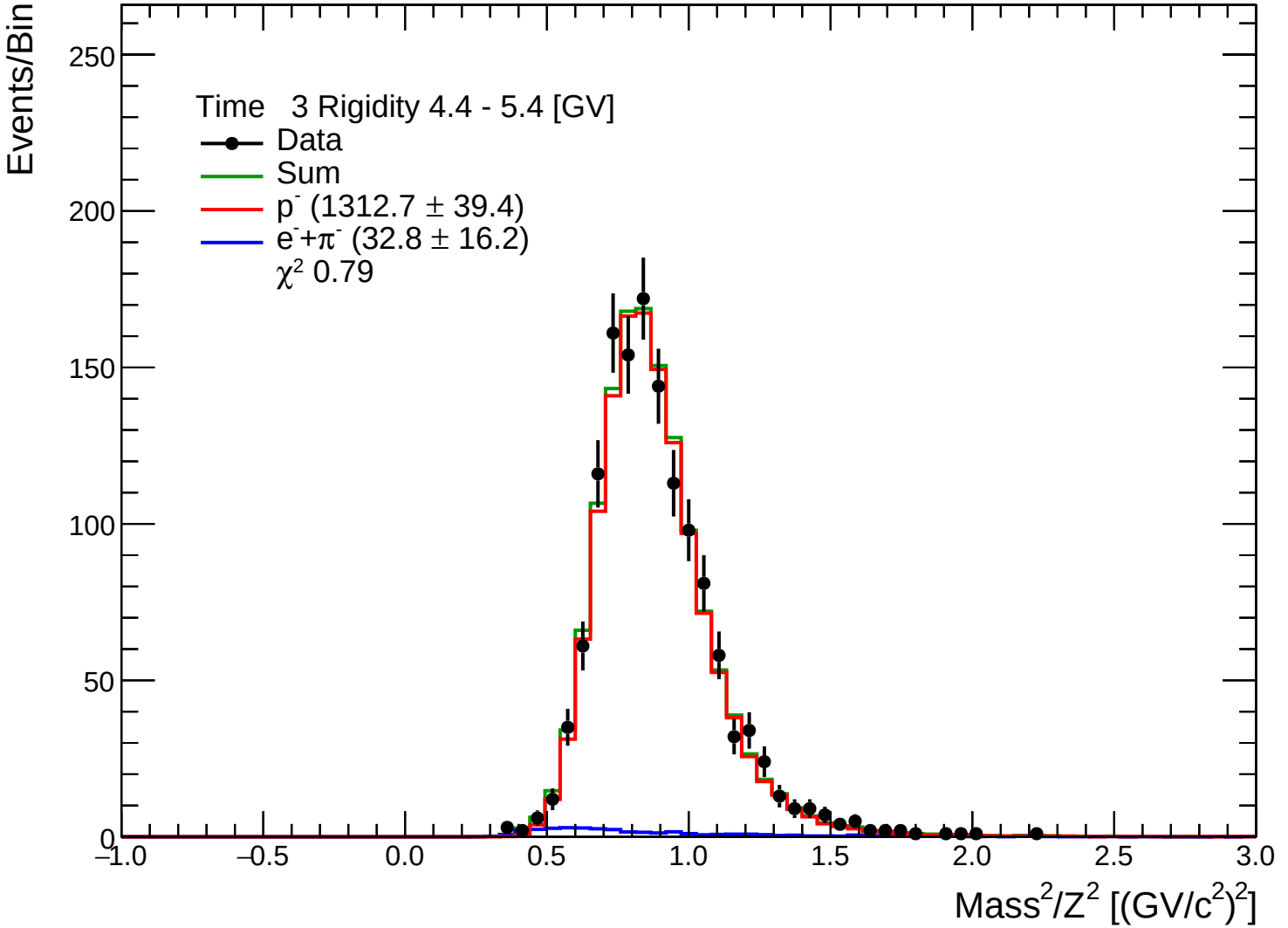

Events/Bin
400
350
300
250
200
150
100
50
0
1680
1682
1684
1686
1688
1690
1692
1694
1696
1698
Number [Temp 0]

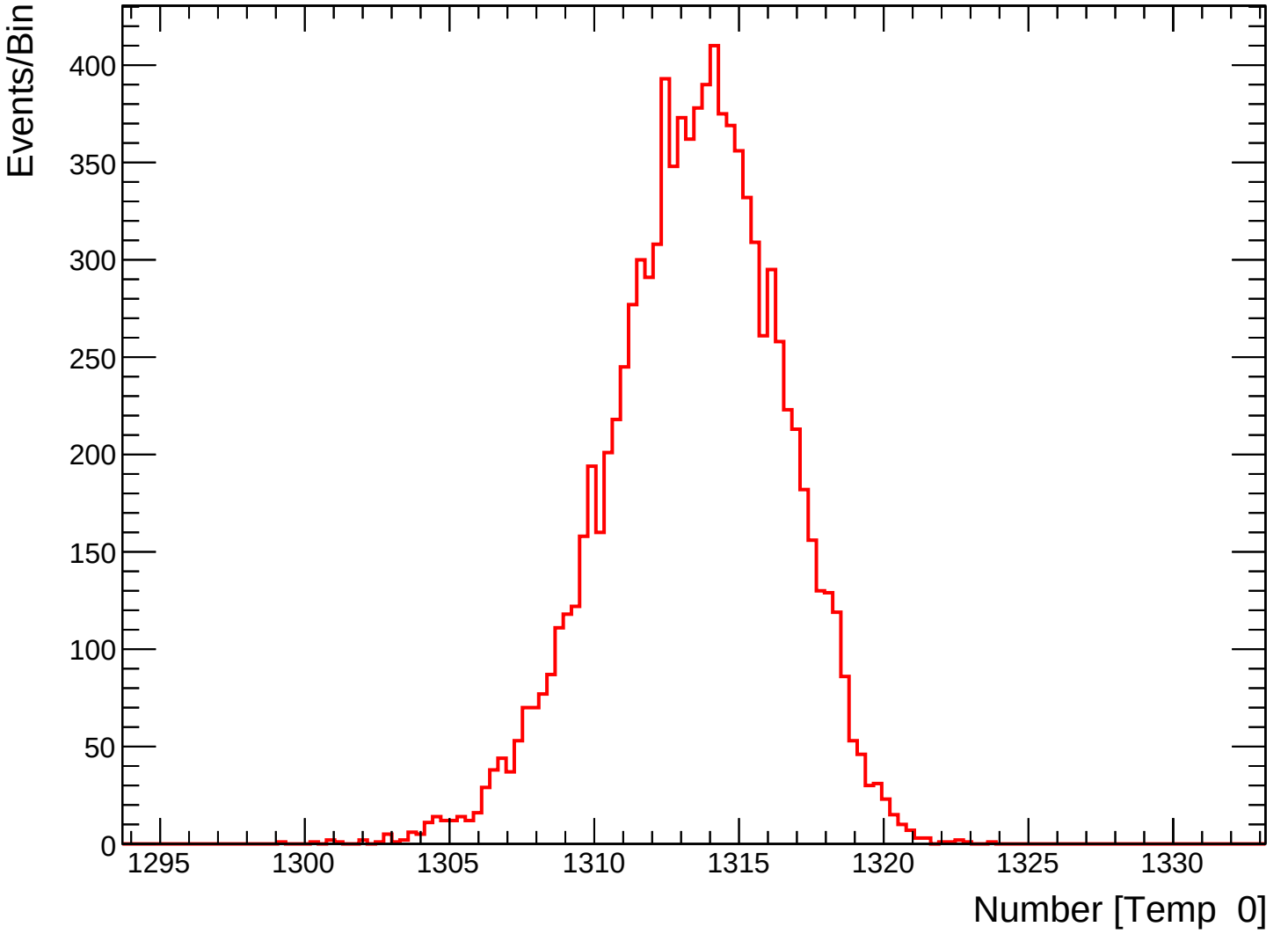

Time 2 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1529.4 ± 43.2)
e⁻+π⁻ (1078.5 ± 37.6)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

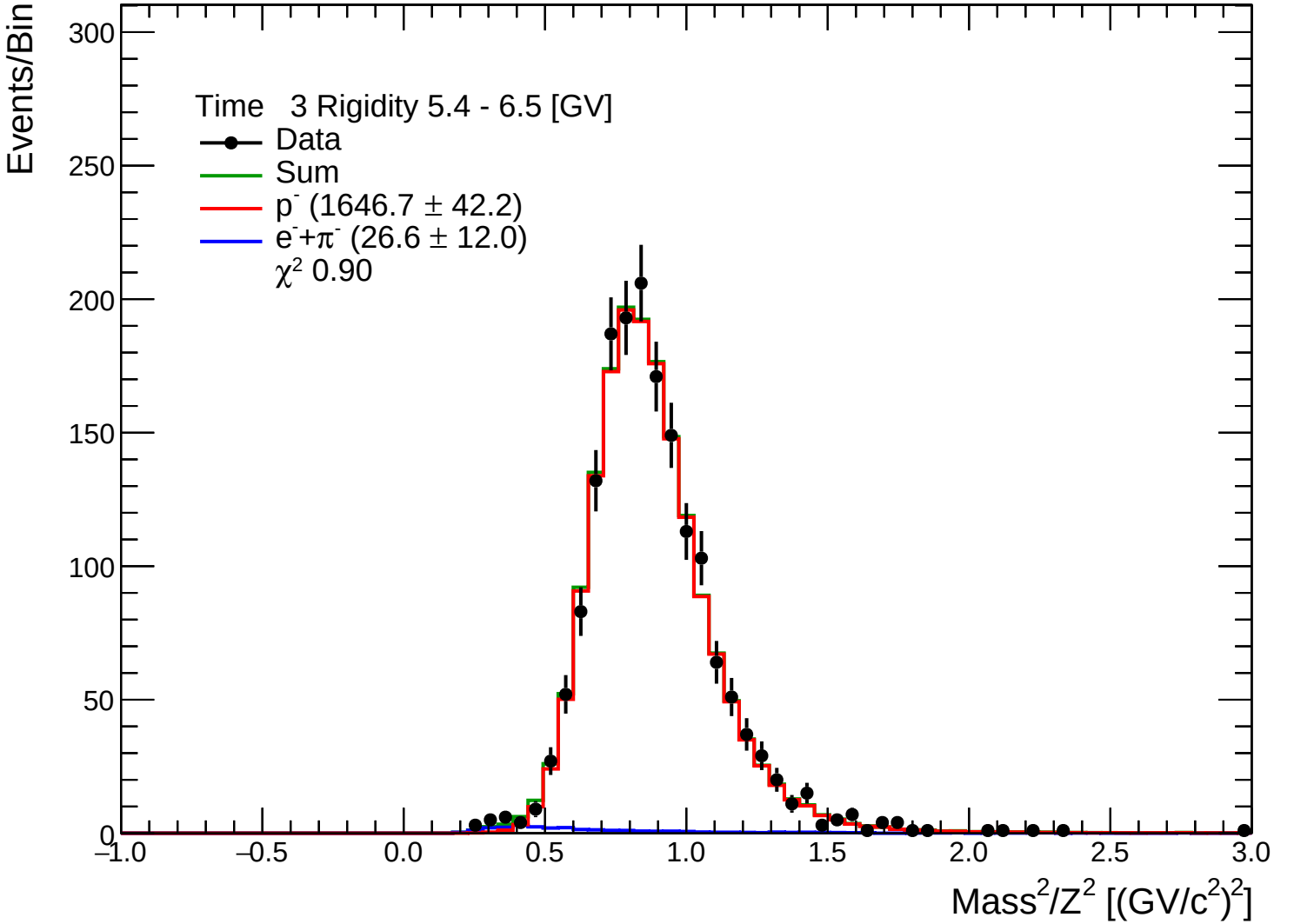

Events/Bin
400
350
300
250
200
150
100
50
0
1520
1525
1530
1535
1540
Number [Temp 0]

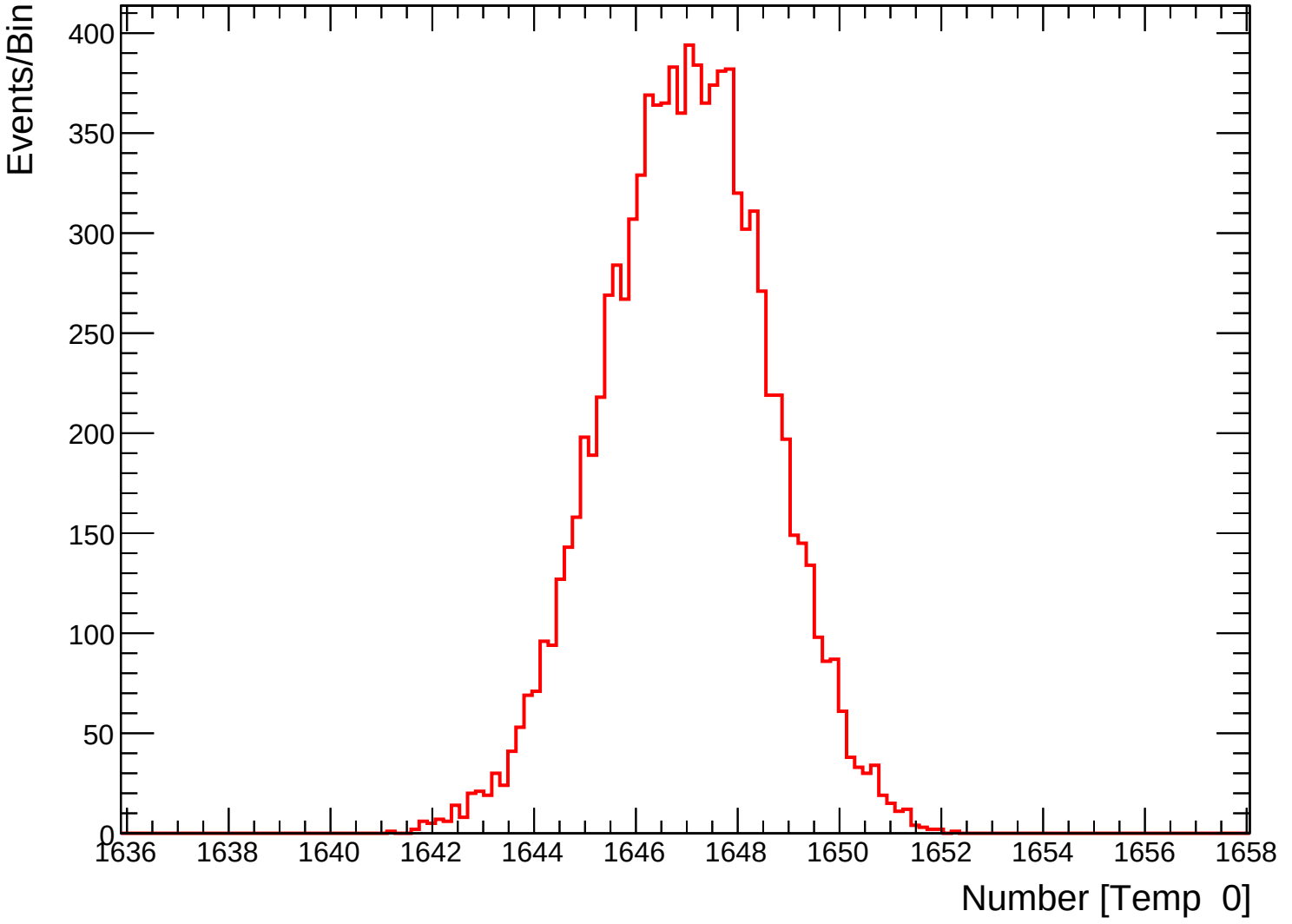

Time 3 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (668.6 ± 30.2)
e⁻+π⁻ (55.6 ± 17.3)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

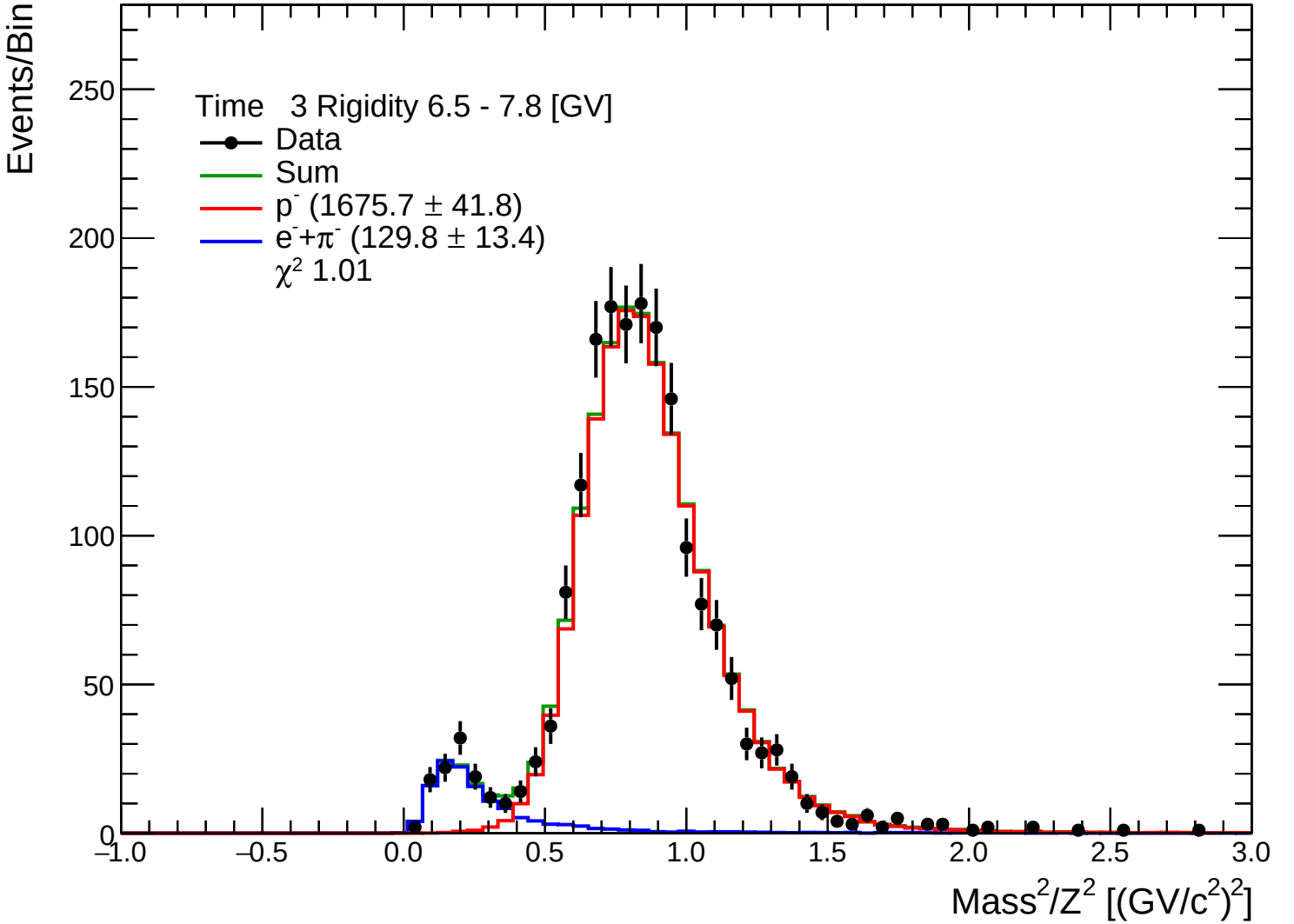

Events/Bin
400
350
300
250
200
150
100
50
0
650
655
660
665
670
675
680
685
690
Number [Temp 0]

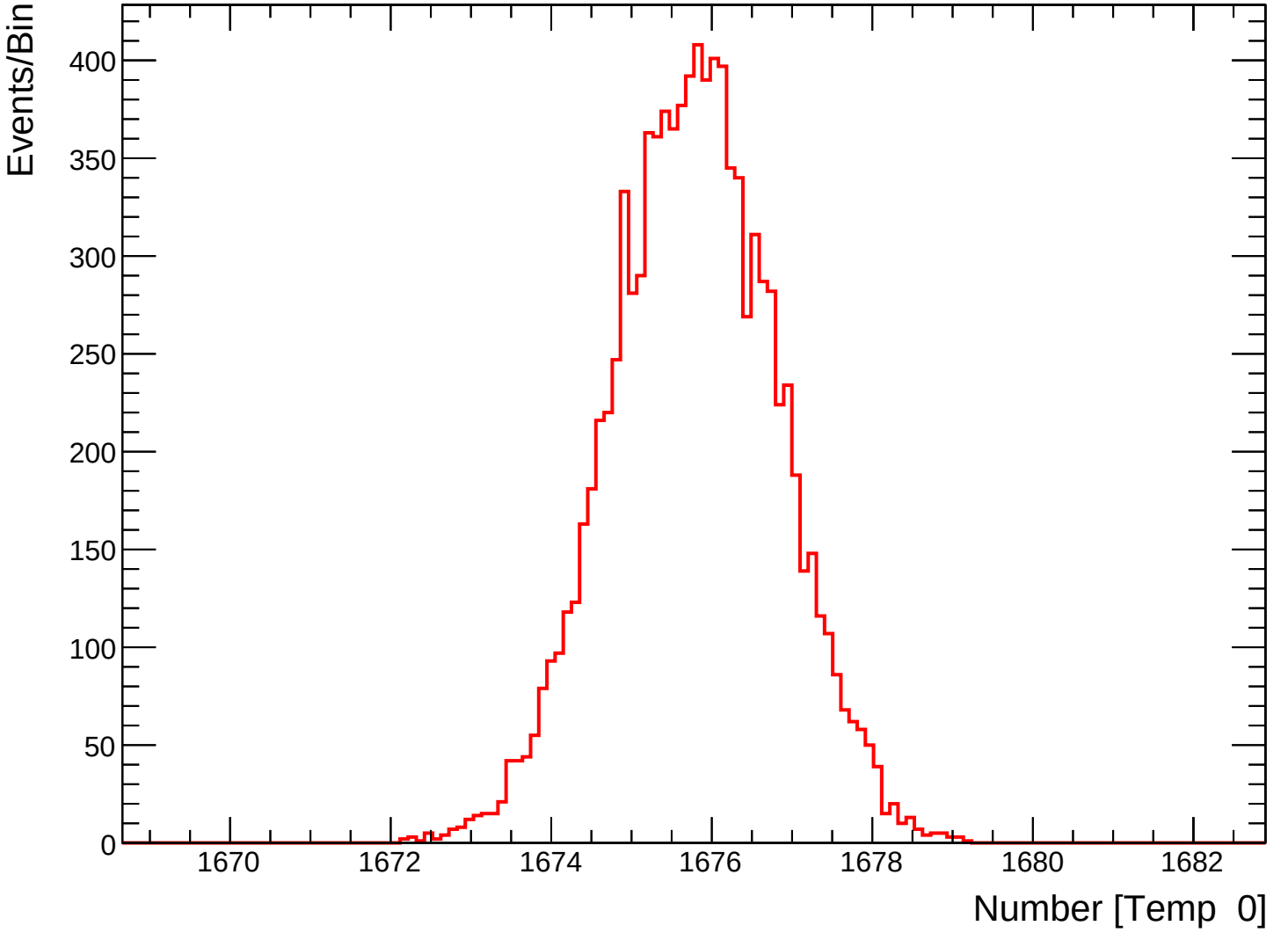

Time 3 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1312.7 ± 39.4)
e⁻+π⁻ (32.8 ± 16.2)
χ² 0.79
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

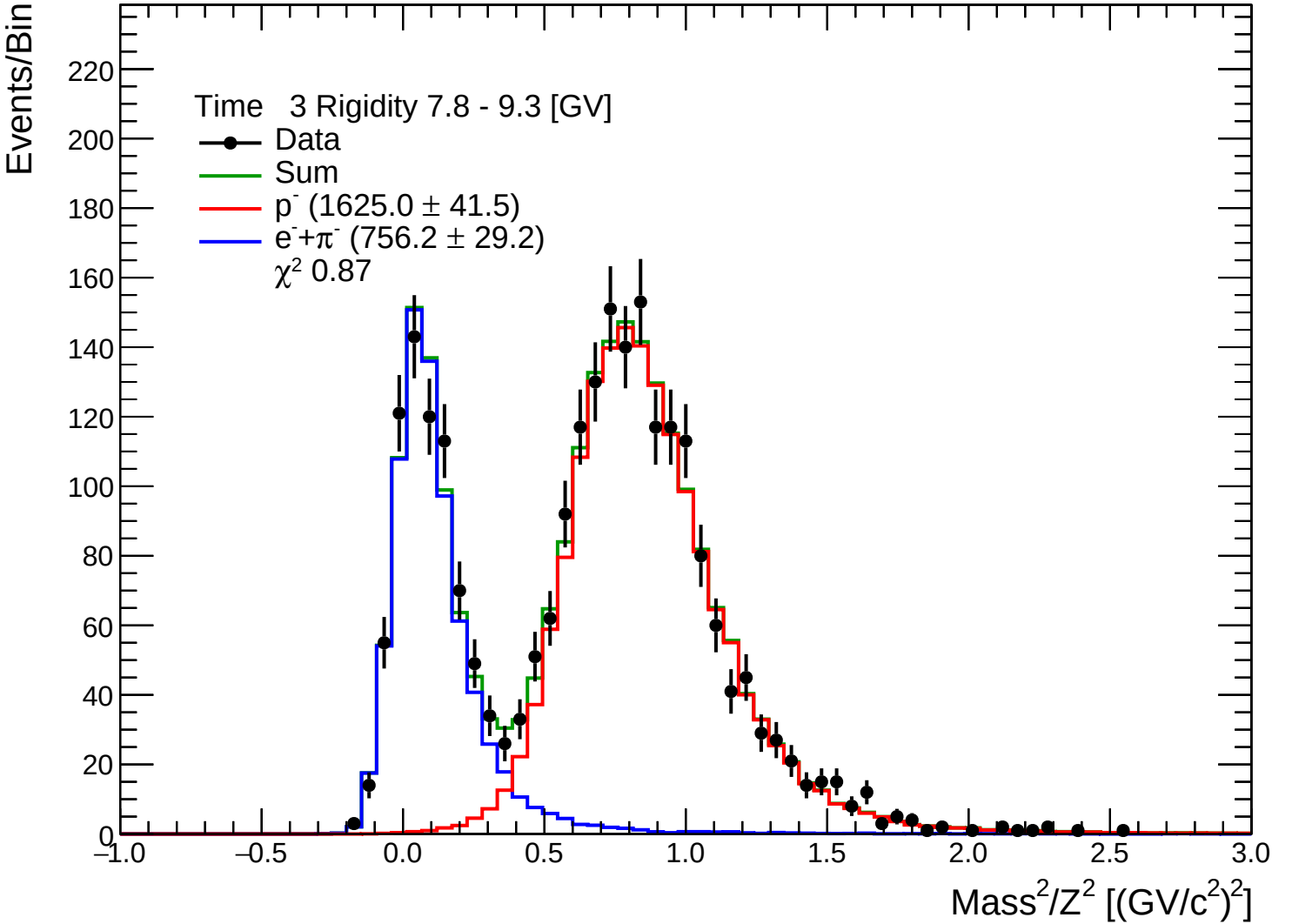

Events/Bin
400
350
300
250
200
150
100
50
0
1295
1300
1305
1310
1315
1320
1325
1330
Number [Temp 0]

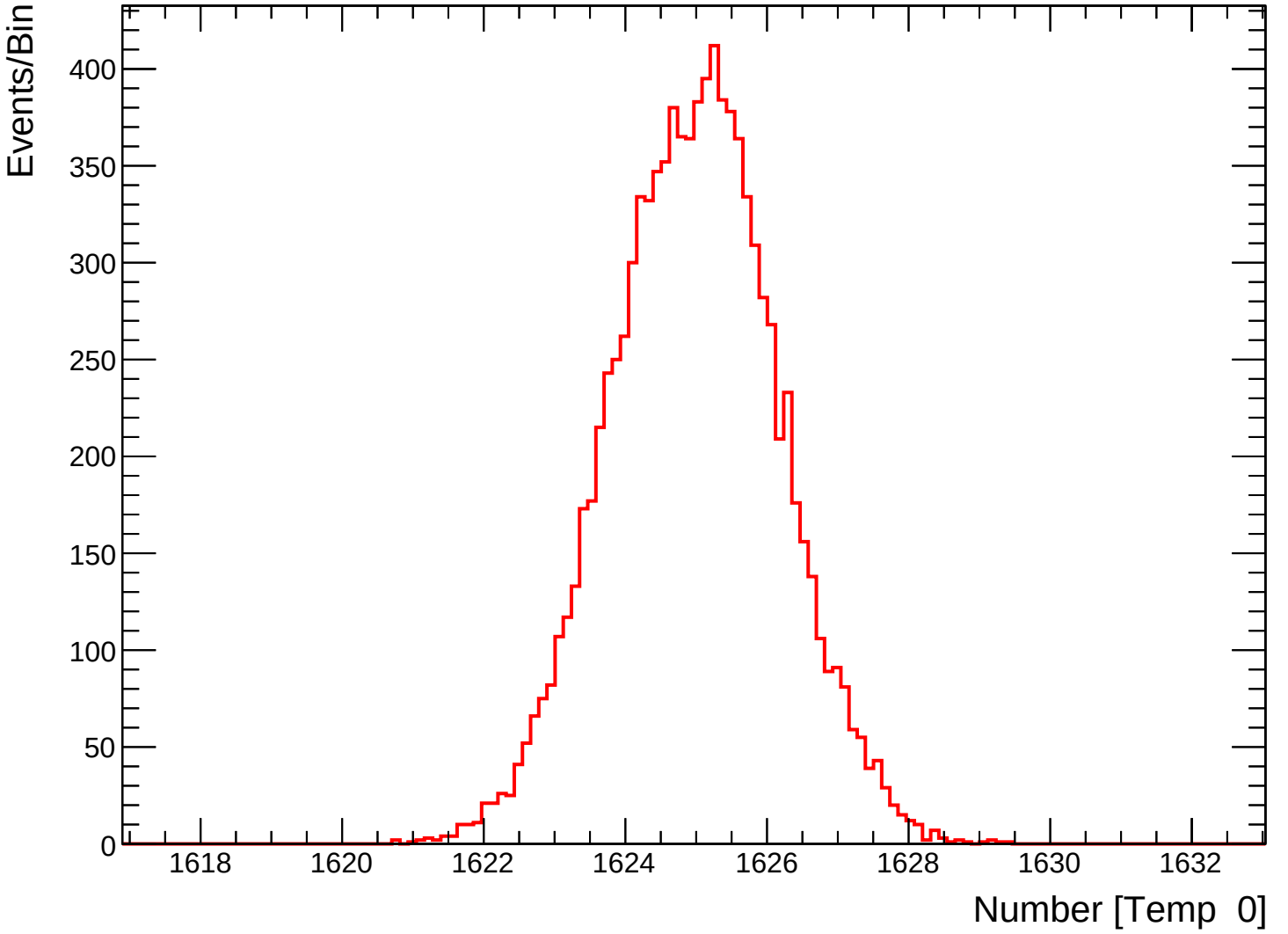

Time 3 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1646.7 ± 42.2)
e⁻+π⁻ (26.6 ± 12.0)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
300
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

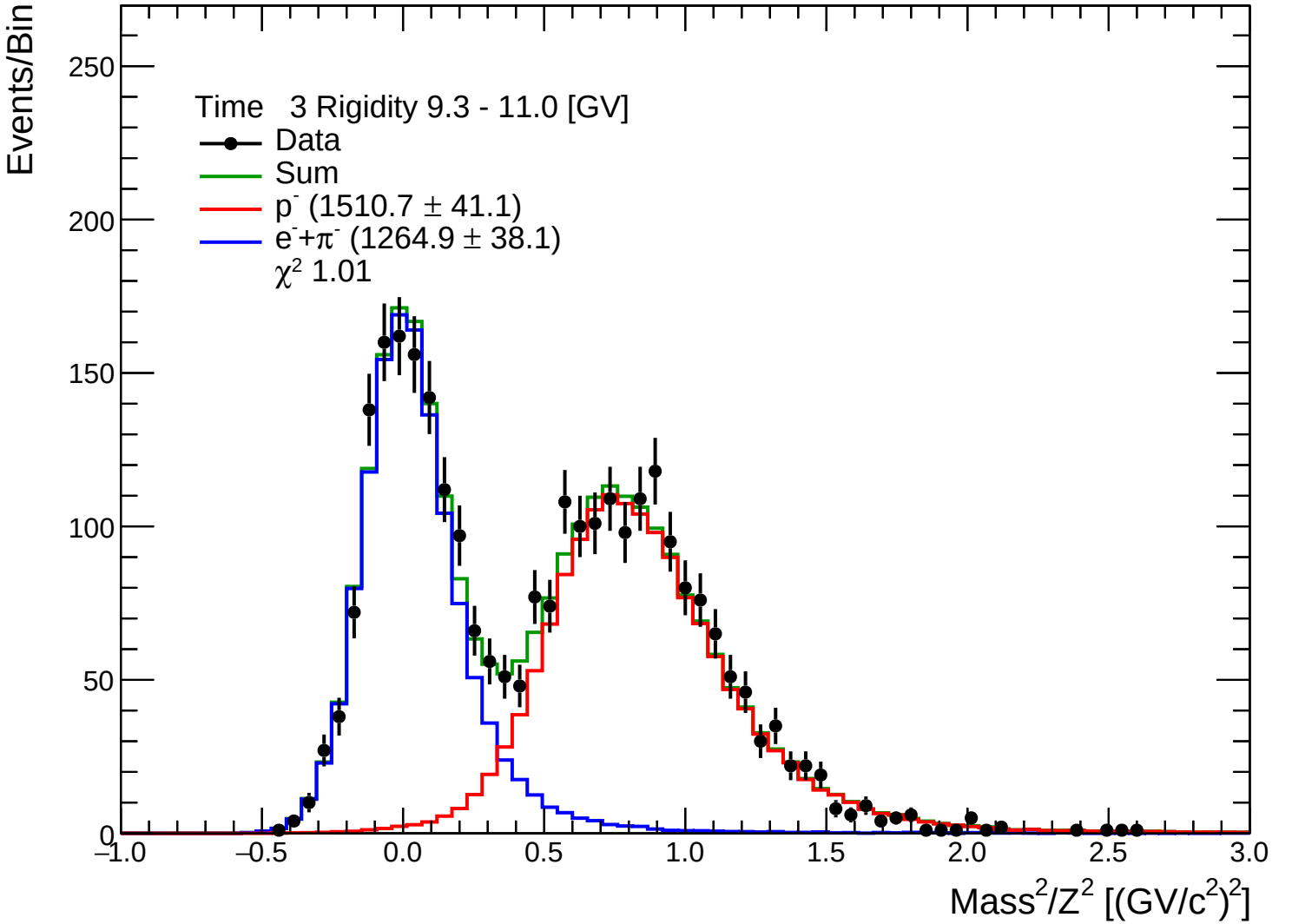

Events/Bin
400
350
300
250
200
150
100
50
0
1636
1638
1640
1642
1644
1646
1648
1650
1652
1654
1656
1658
Number [Temp 0]

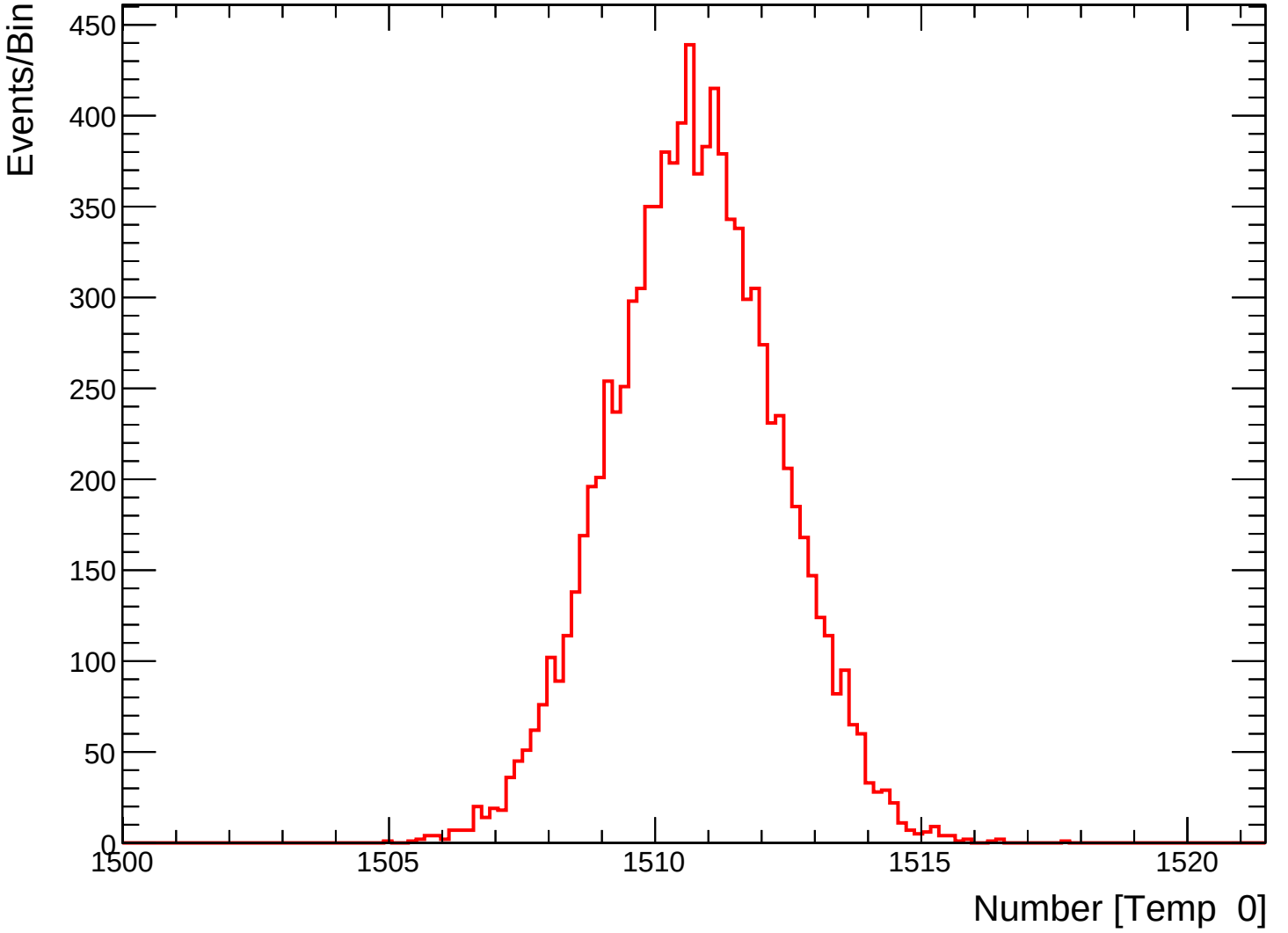

Time 3 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1675.7 ± 41.8)
e⁻+π⁻ (129.8 ± 13.4)
χ² 1.01
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

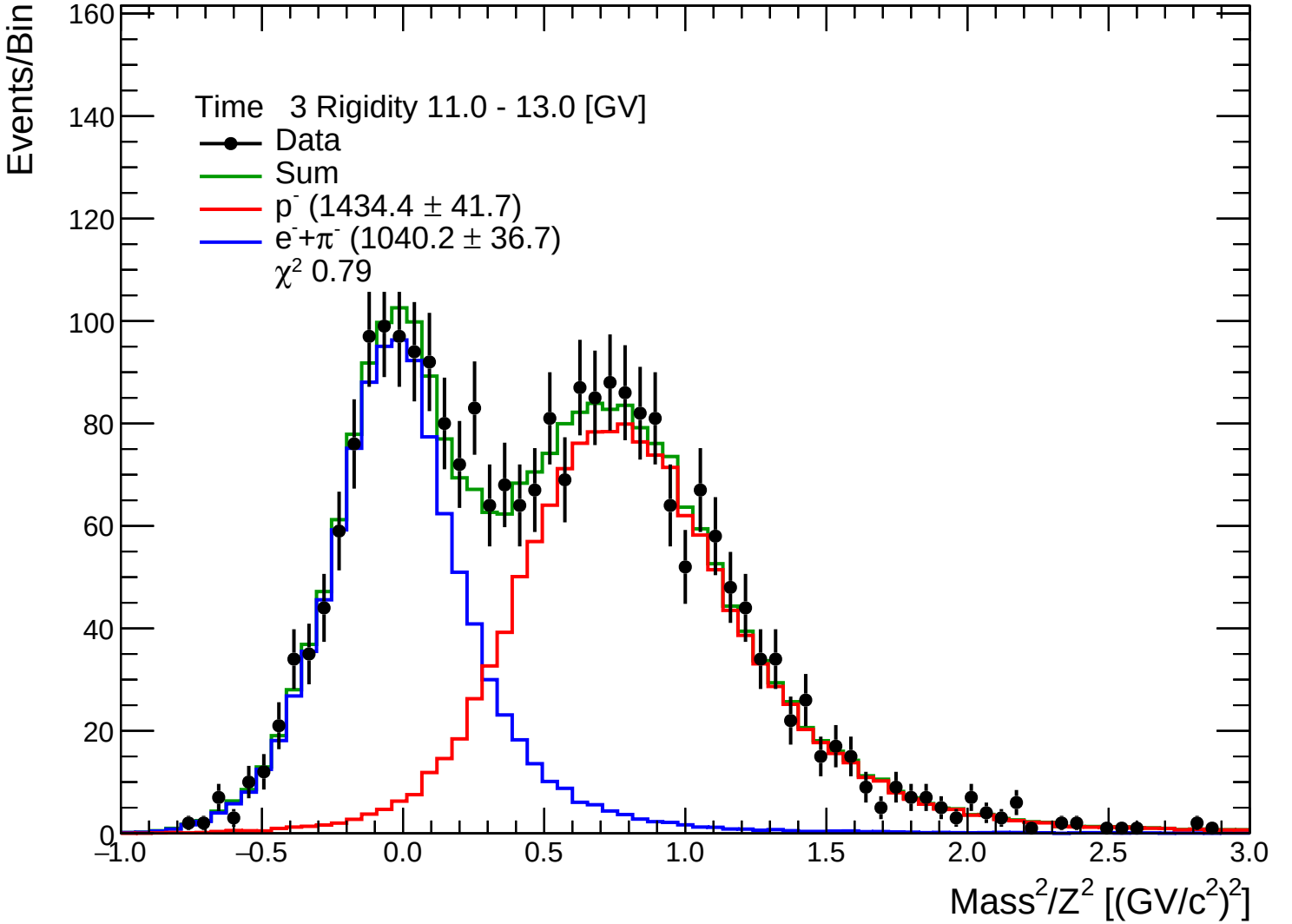

Events/Bin
400
350
300
250
200
150
100
50
0
1670
1672
1674
1676
1678
1680
1682
Number [Temp 0]

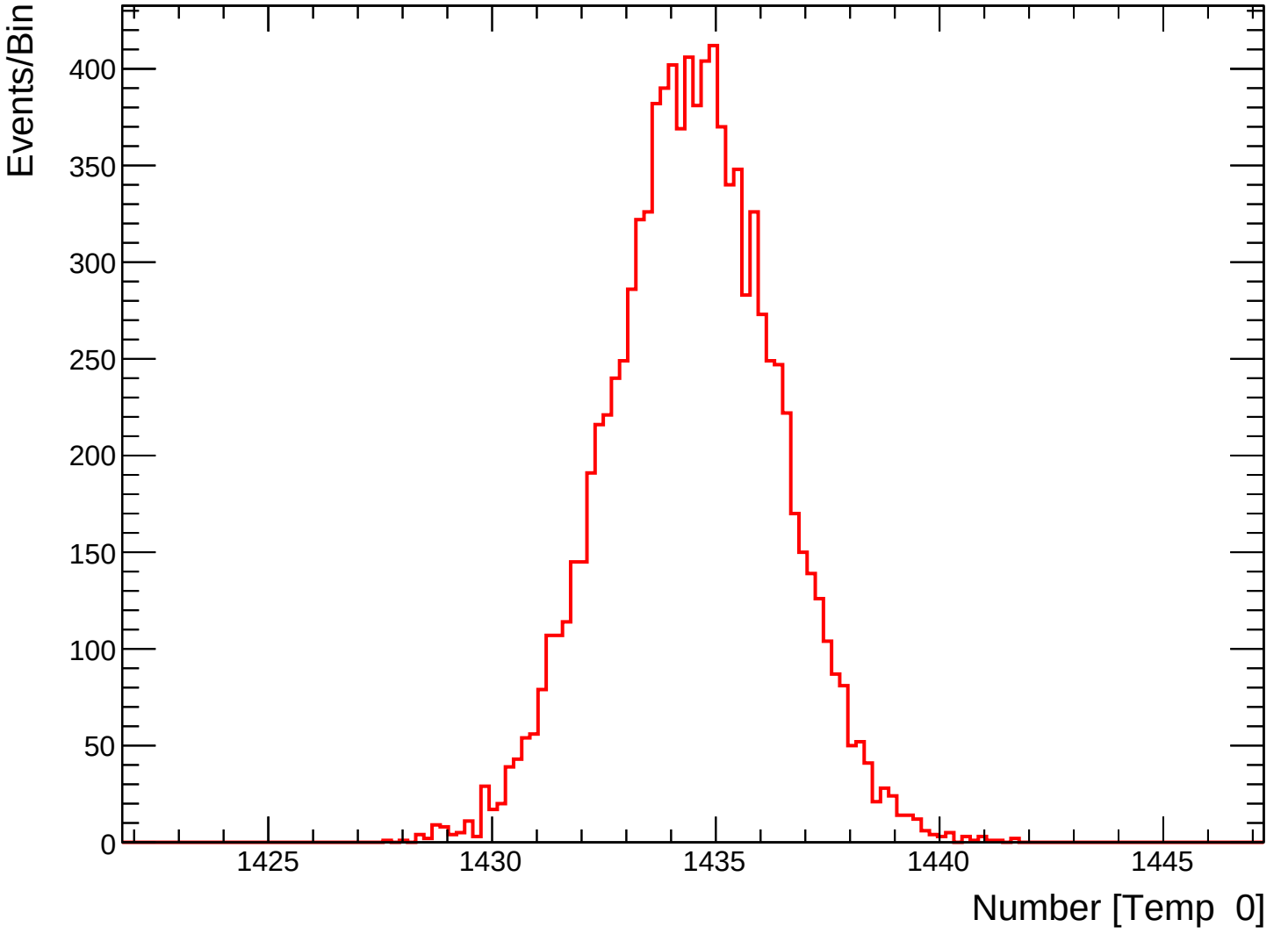

Time 3 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1625.0 ± 41.5)
e⁻+π⁻ (756.2 ± 29.2)
χ² 0.87
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

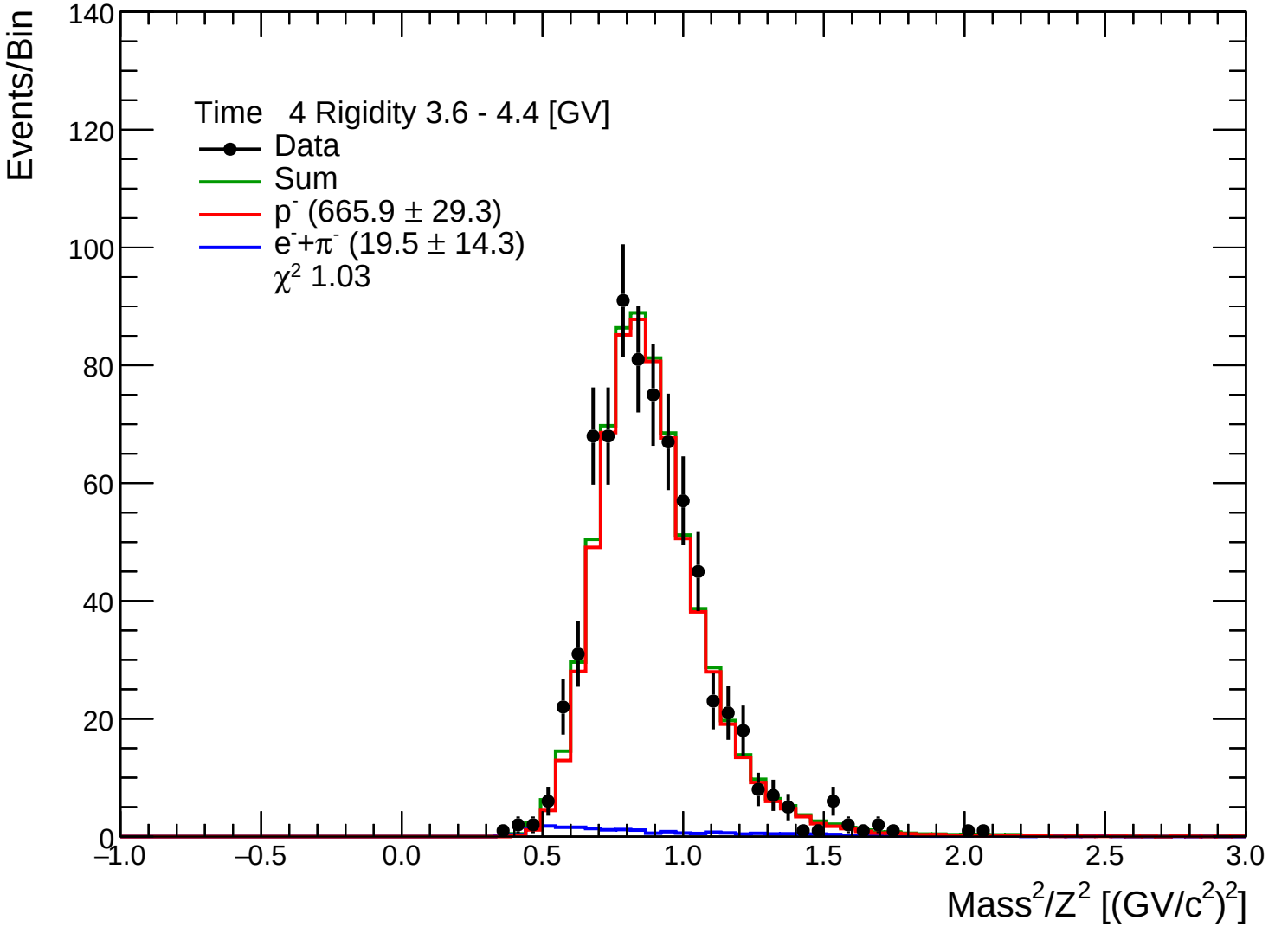

Events/Bin
400
350
300
250
200
150
100
50
0
1618
1620
1622
1624
1626
1628
1630
1632
Number [Temp 0]

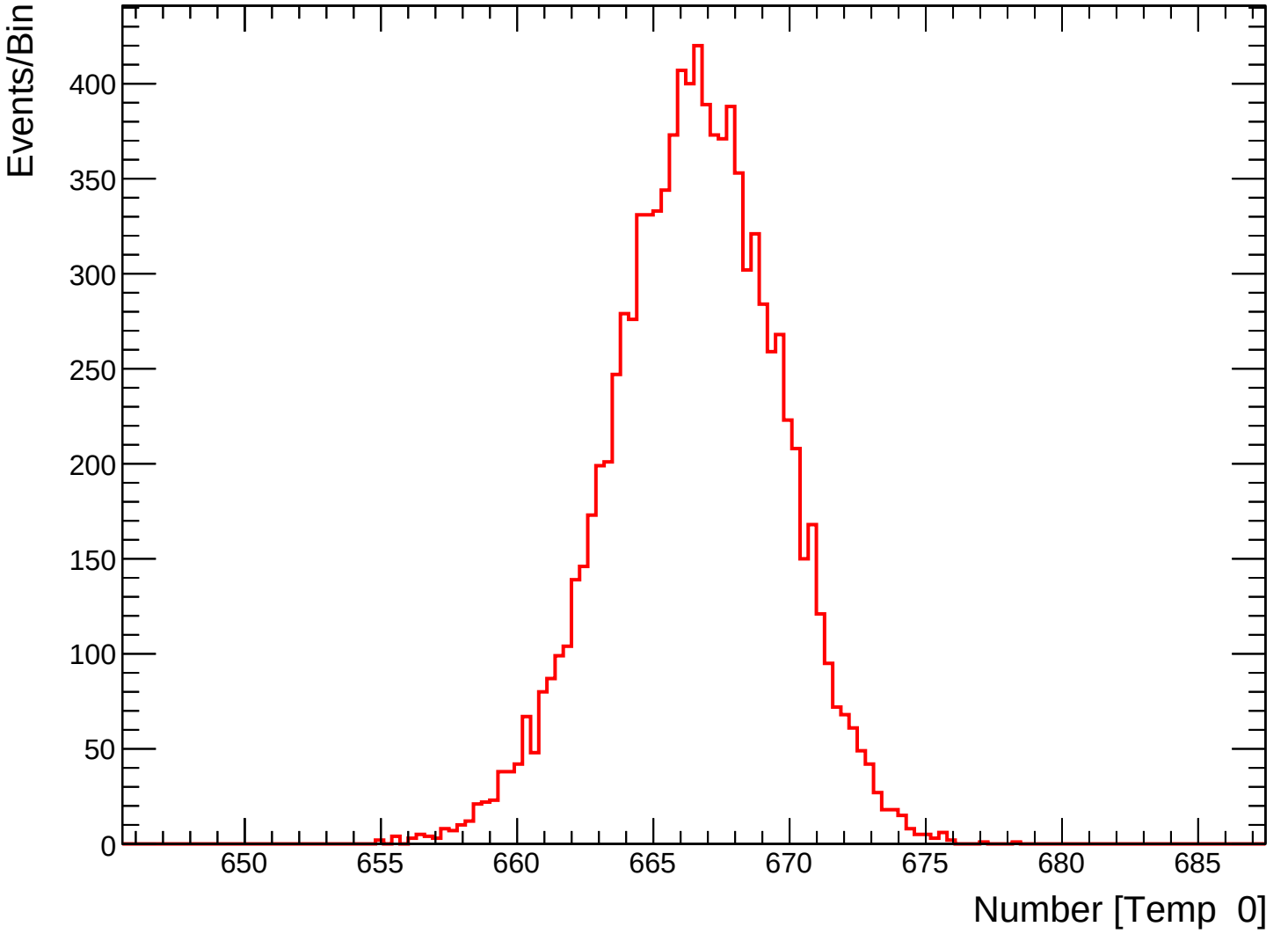

Time 3 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1510.7 ± 41.1)
e⁻+π⁻ (1264.9 ± 38.1)
χ² 1.01
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

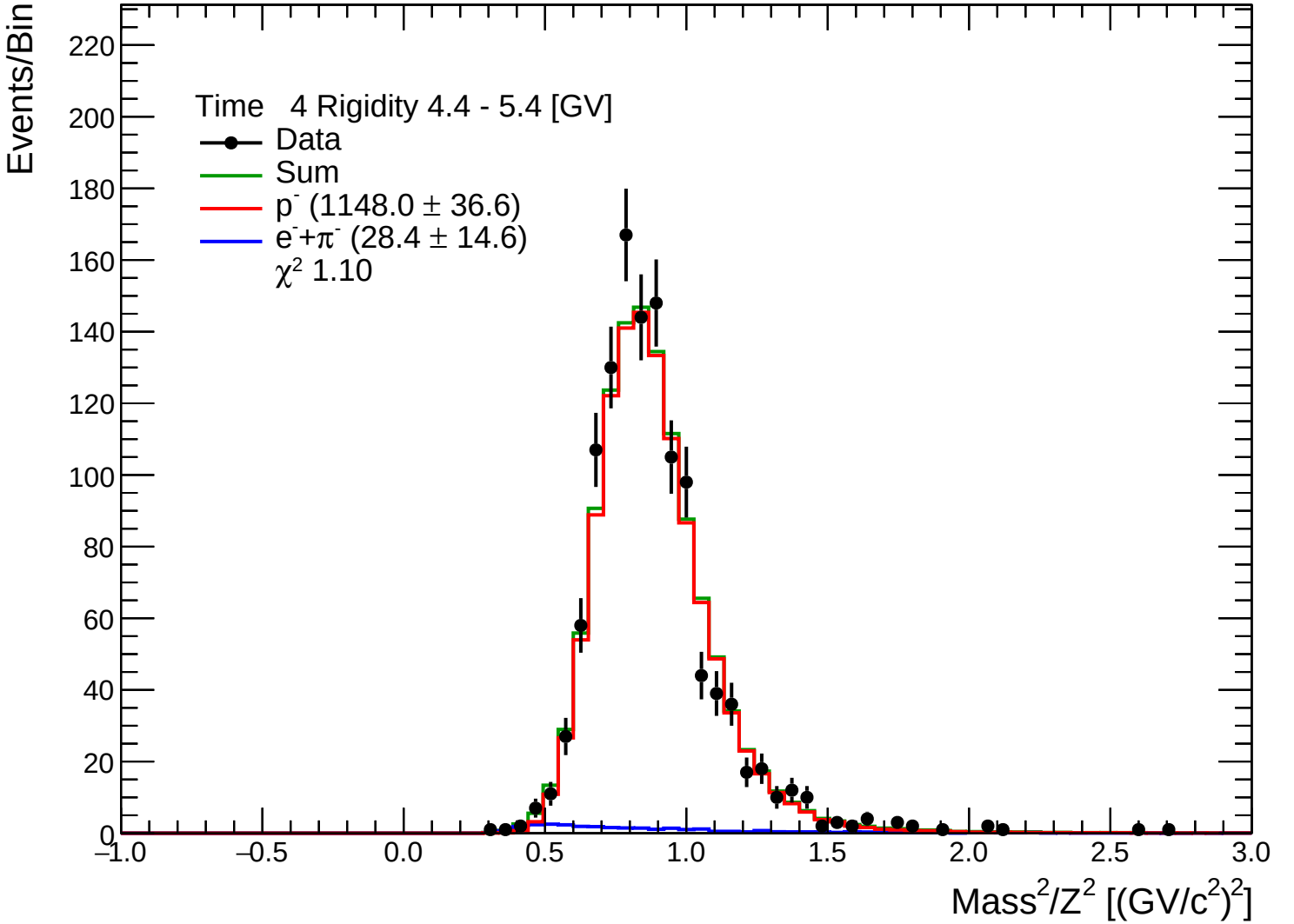

Events/Bin
450
400
350
300
250
200
150
100
50
0
1500
1505
1510
1515
1520
Number [Temp 0]

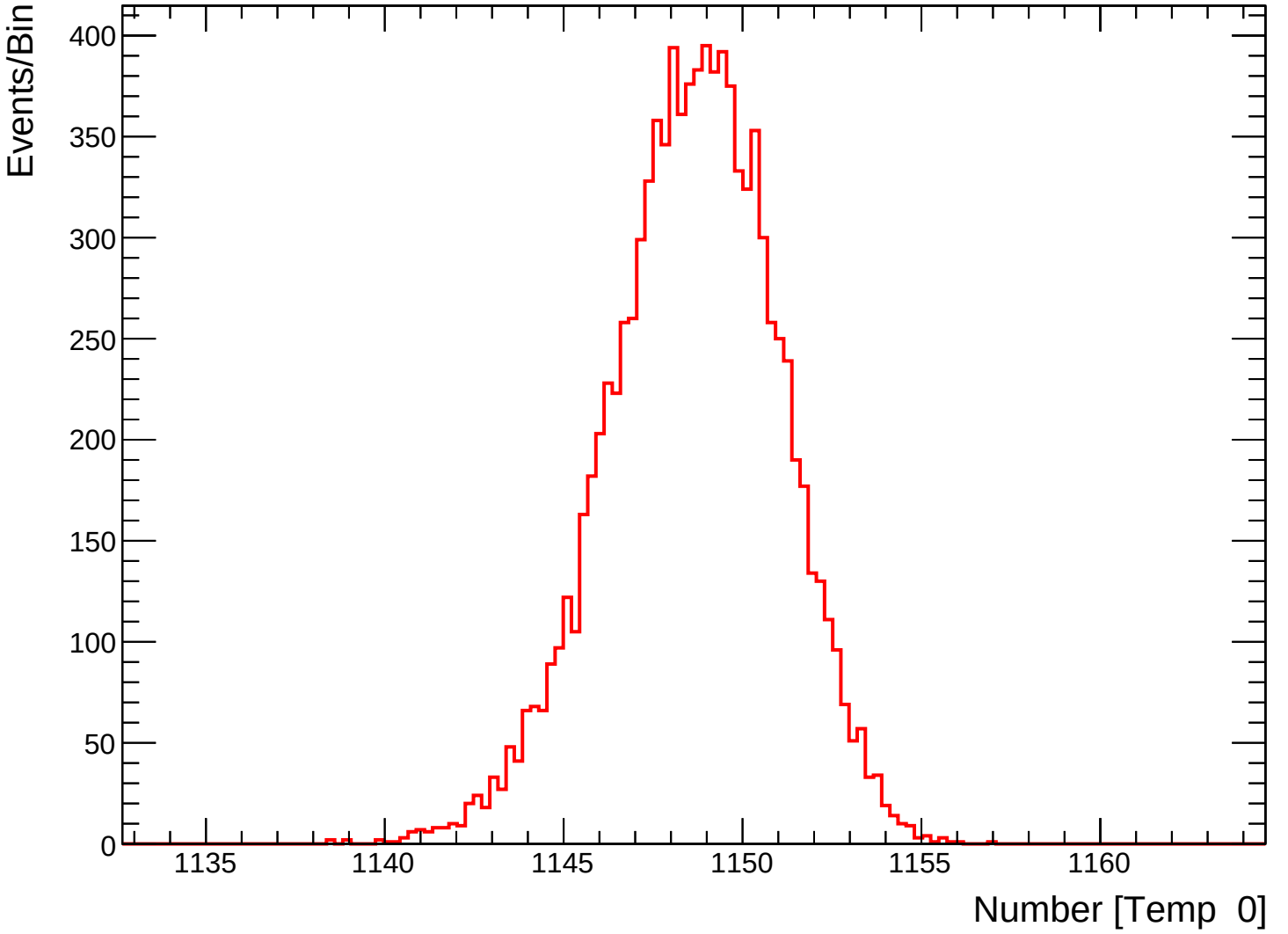

Time 3 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1434.4 ± 41.7)
e⁻+π⁻ (1040.2 ± 36.7)
χ² 0.79
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

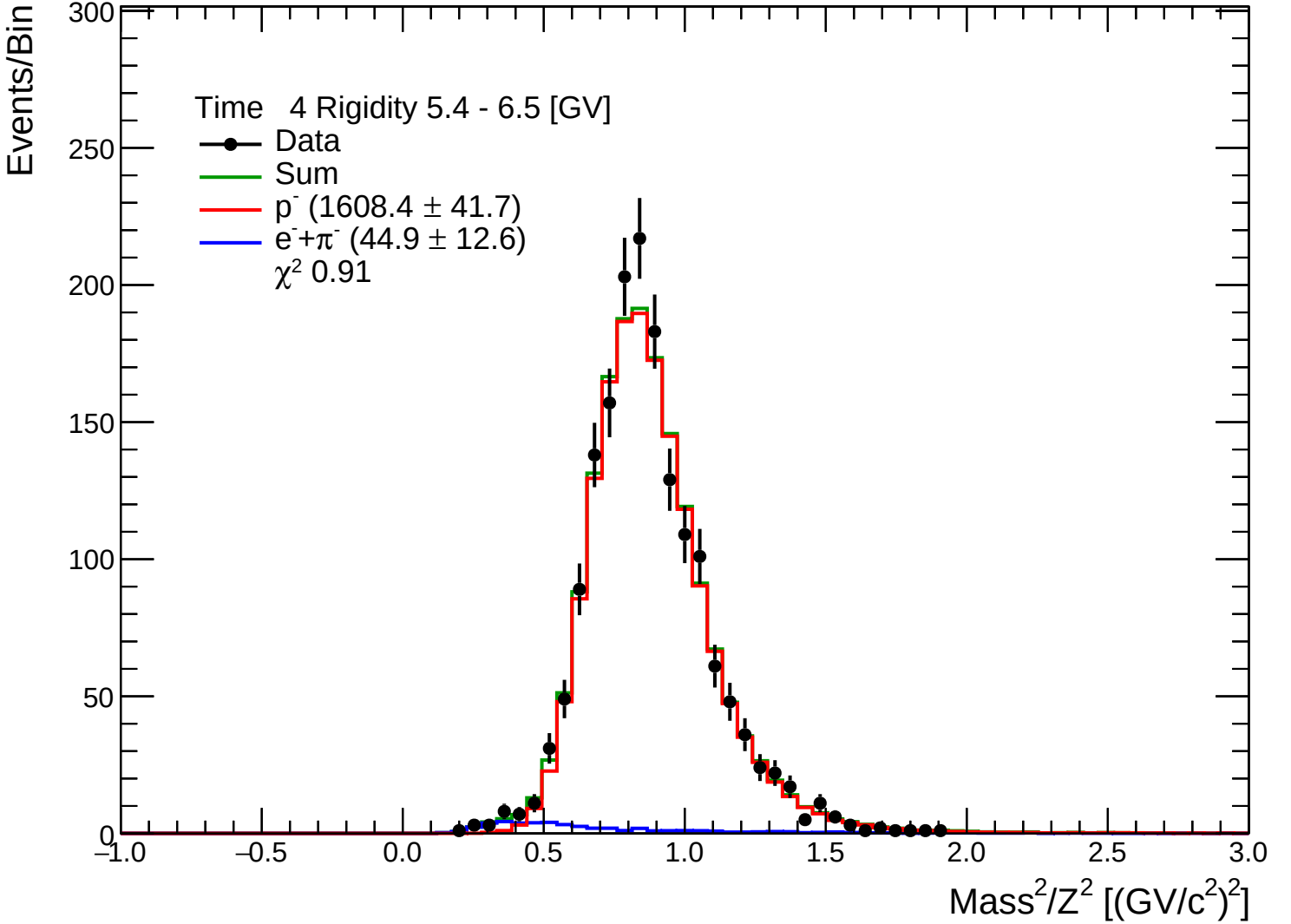

Events/Bin
400
350
300
250
200
150
100
50
0
1425
1430
1435
1440
1445
Number [Temp 0]

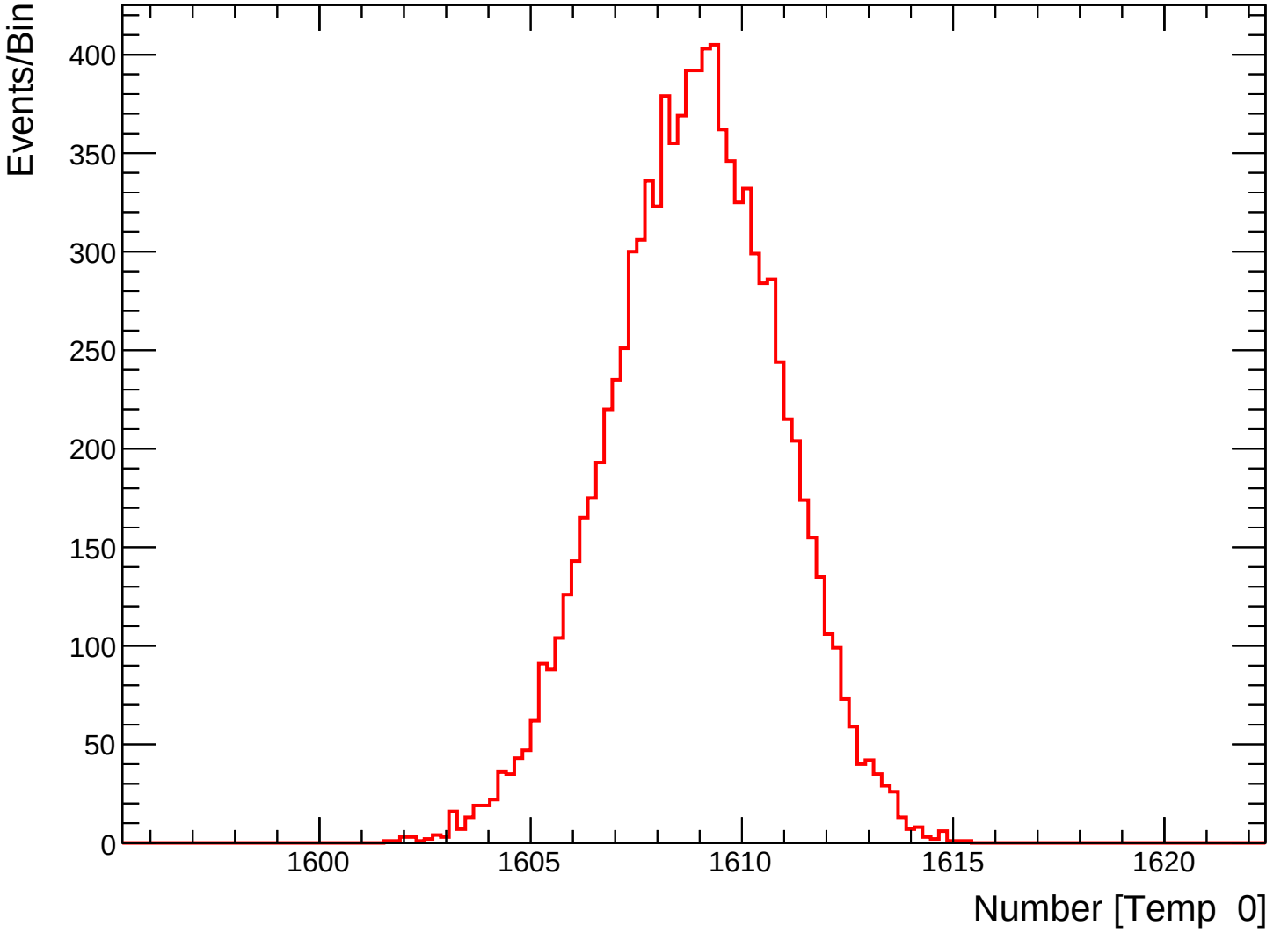

Time 4 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (665.9 ± 29.3)
e⁻+π⁻ (19.5 ± 14.3)
χ² 1.03
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

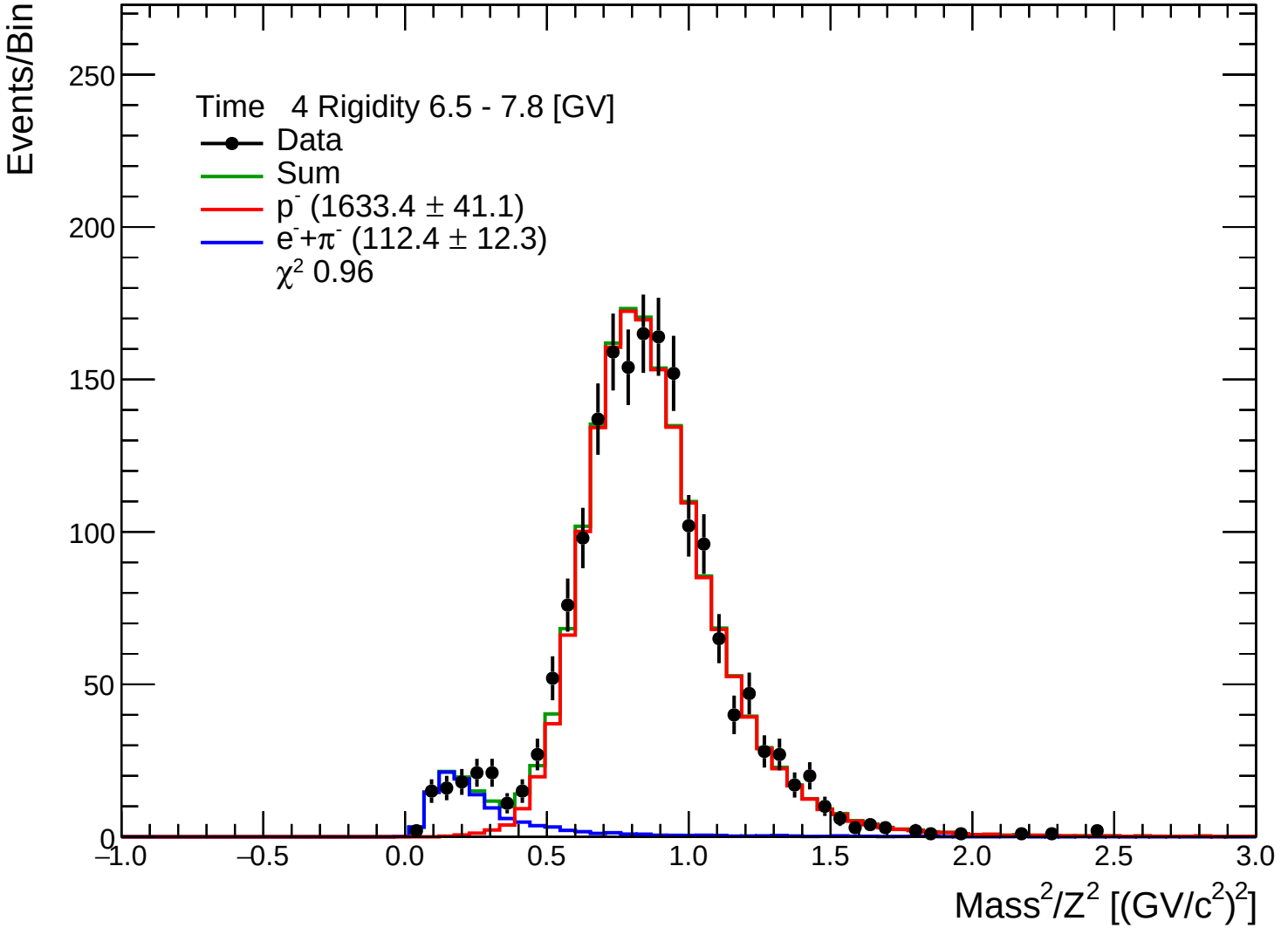

Events/Bin
400
350
300
250
200
150
100
50
0
650
655
660
665
670
675
680
685
Number [Temp 0]

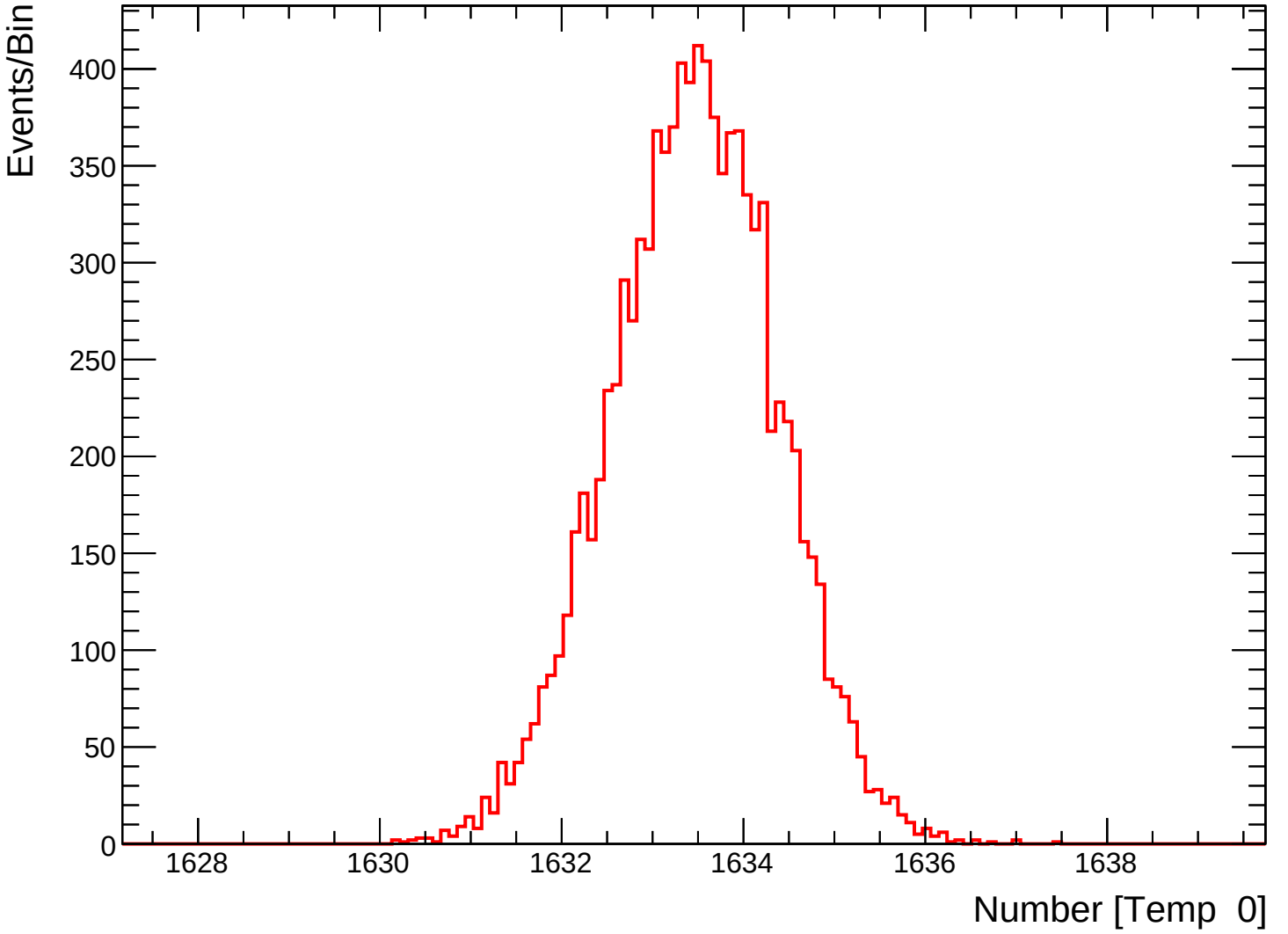

Time 4 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1148.0 ± 36.6)
e⁻+π⁻ (28.4 ± 14.6)
χ² 1.10
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

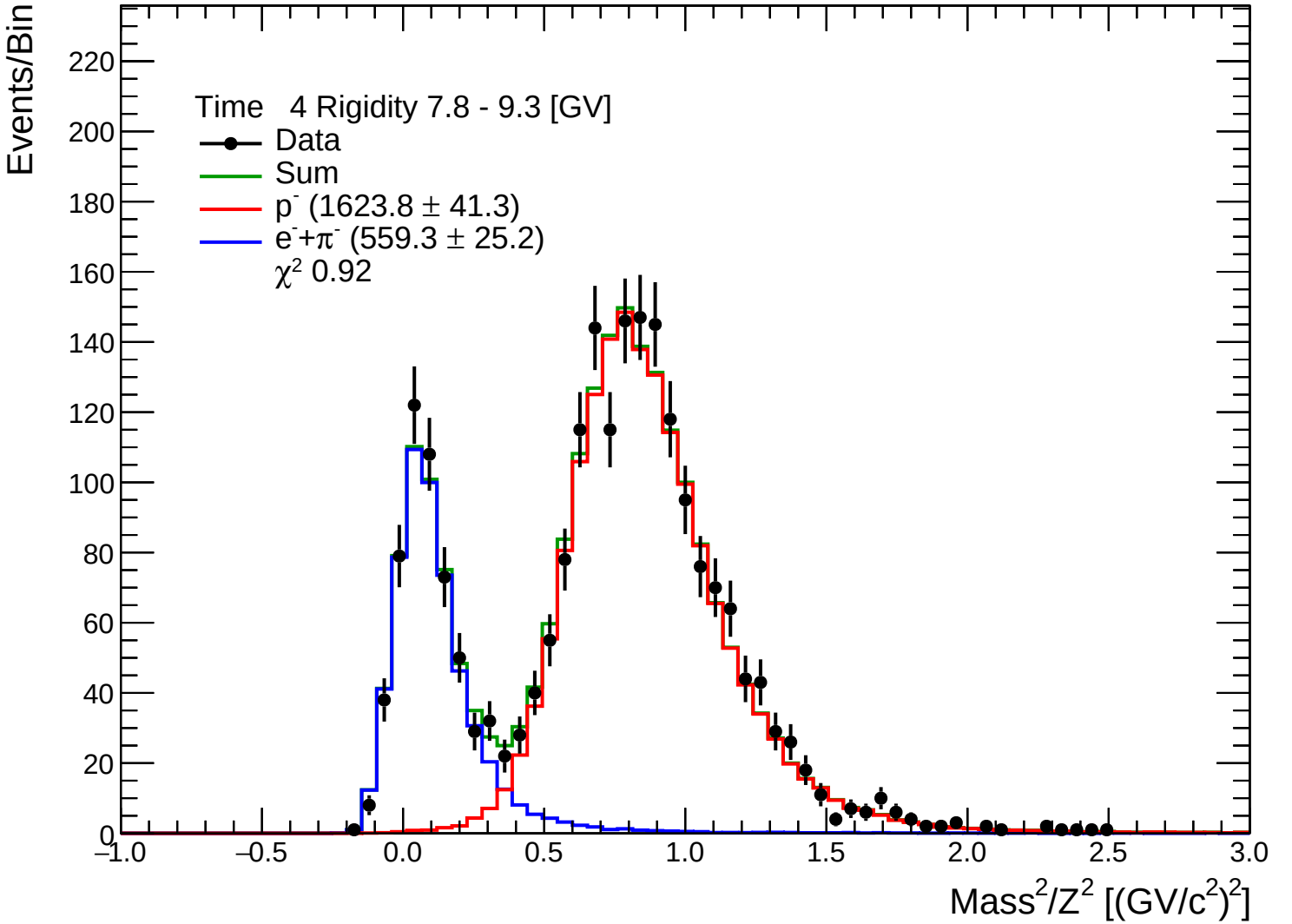

Events/Bin
400
350
300
250
200
150
100
50
0
1135
1140
1145
1150
1155
1160
Number [Temp 0]

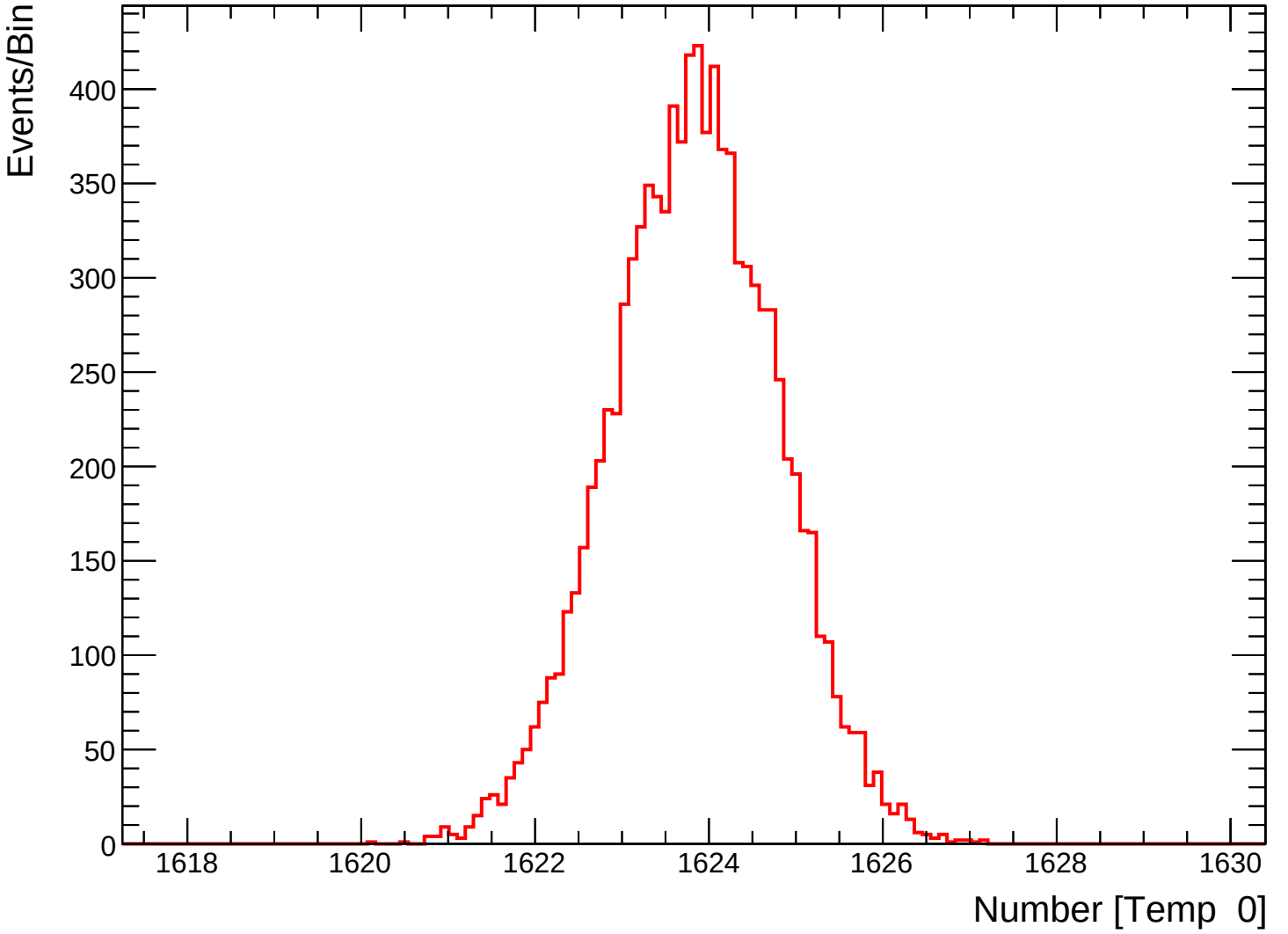

Time 4 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1608.4 ± 41.7)
e⁻+π⁻ (44.9 ± 12.6)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
300
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

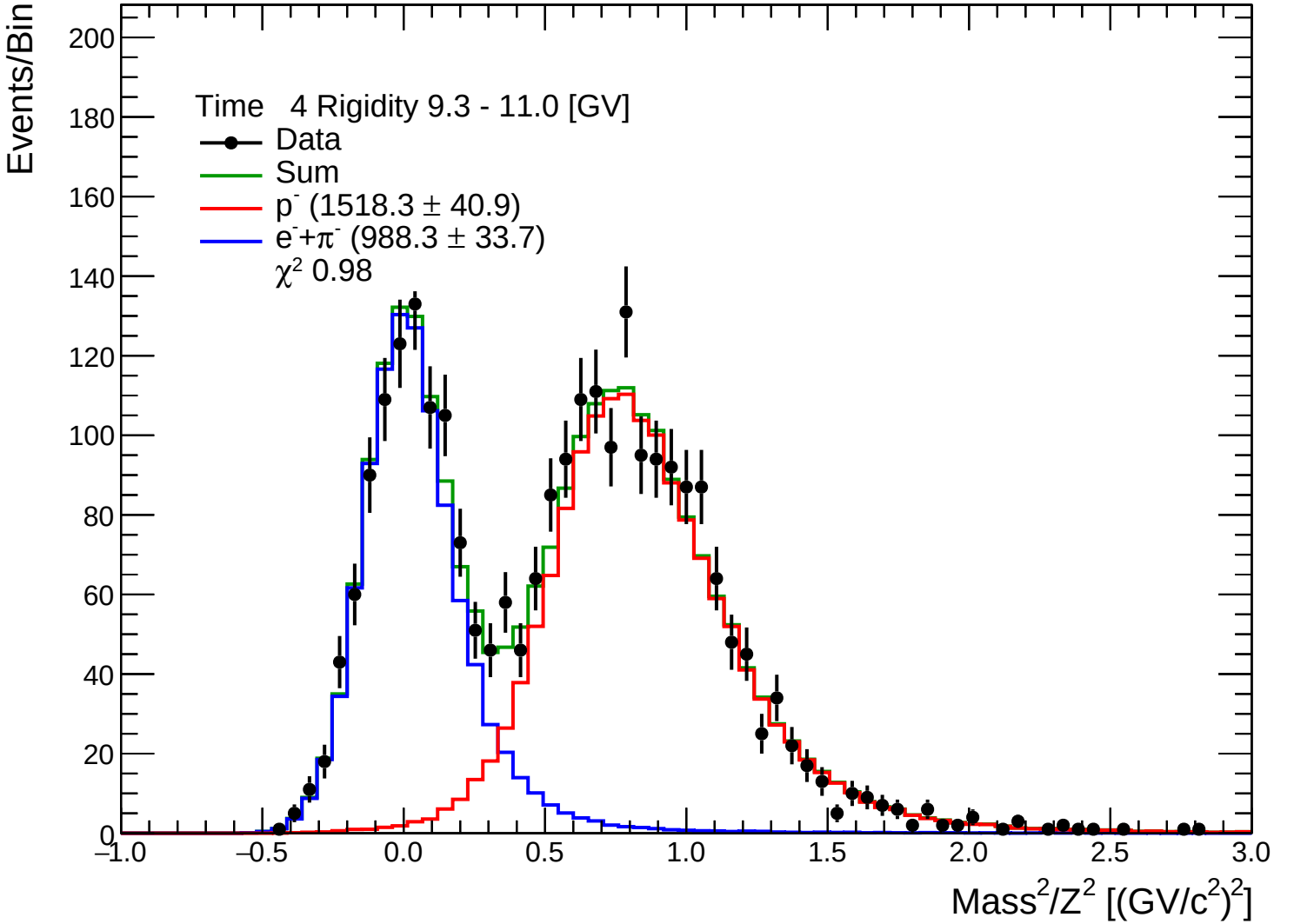

Events/Bin
400
350
300
250
200
150
100
50
0
1600
1605
1610
1615
1620
Number [Temp 0]

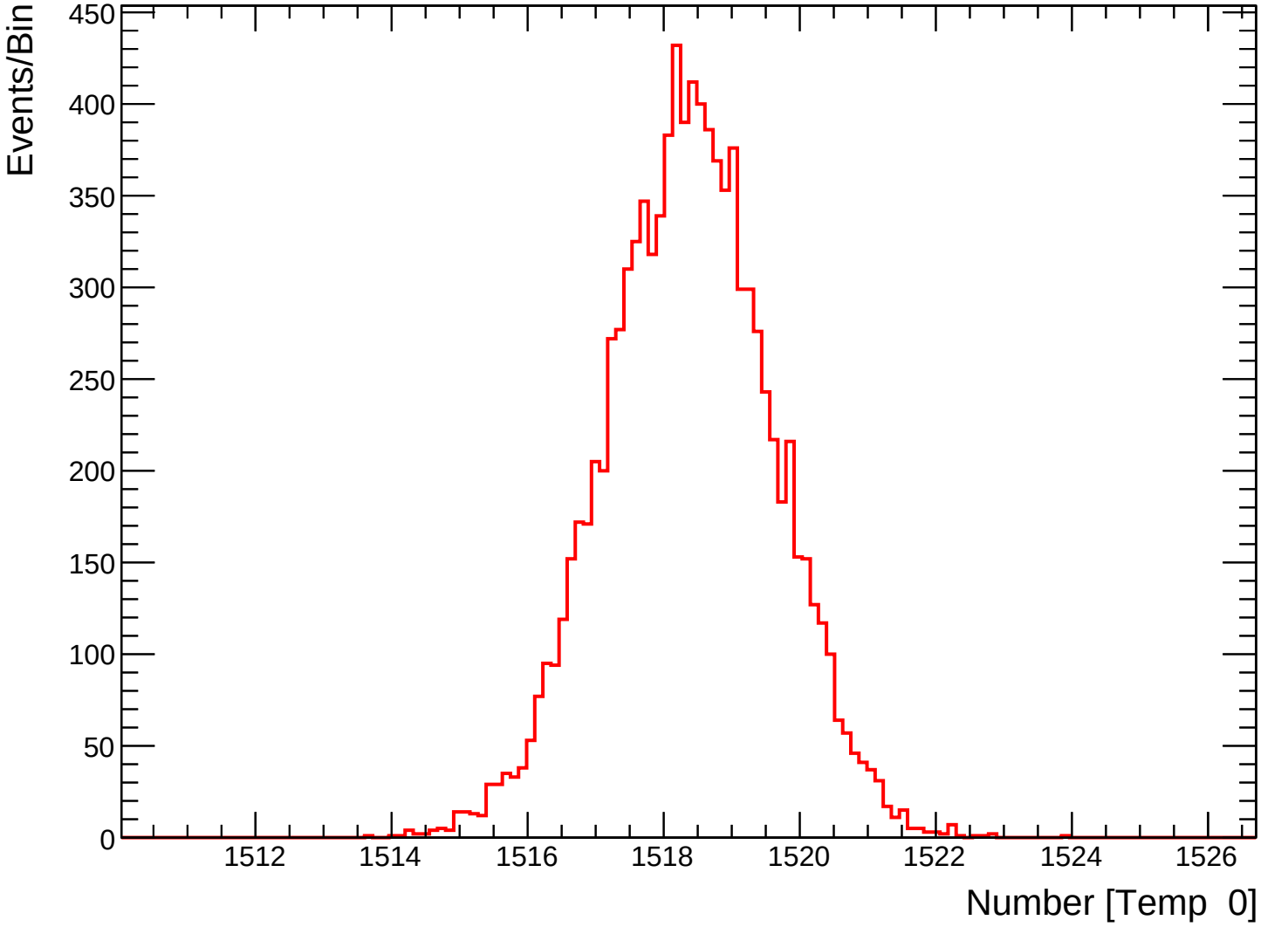

Time 4 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1633.4 ± 41.1)
e⁻+π⁻ (112.4 ± 12.3)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

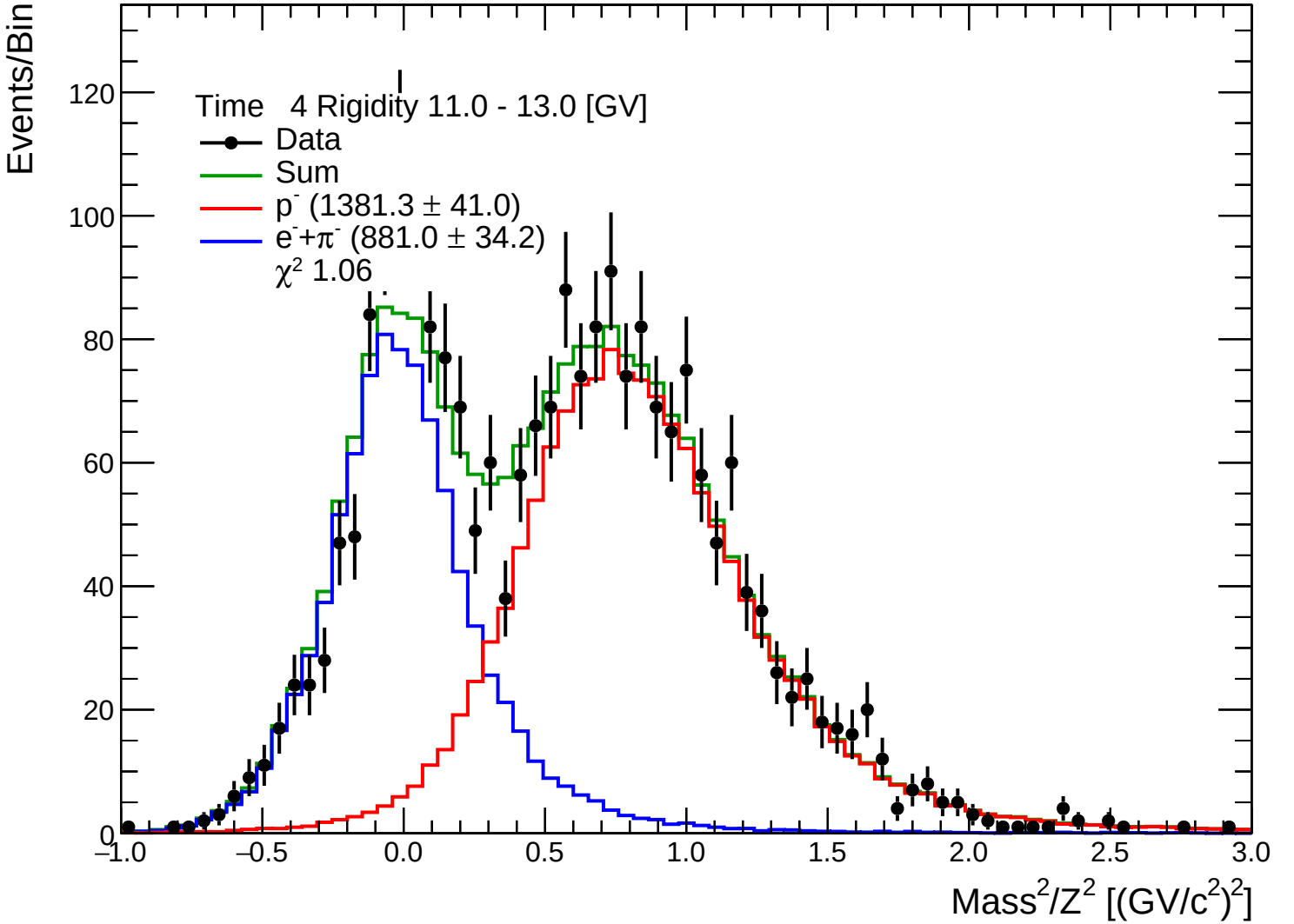

Events/Bin
400
350
300
250
200
150
100
50
0
1628
1630
1632
1634
1636
1638
Number [Temp 0]

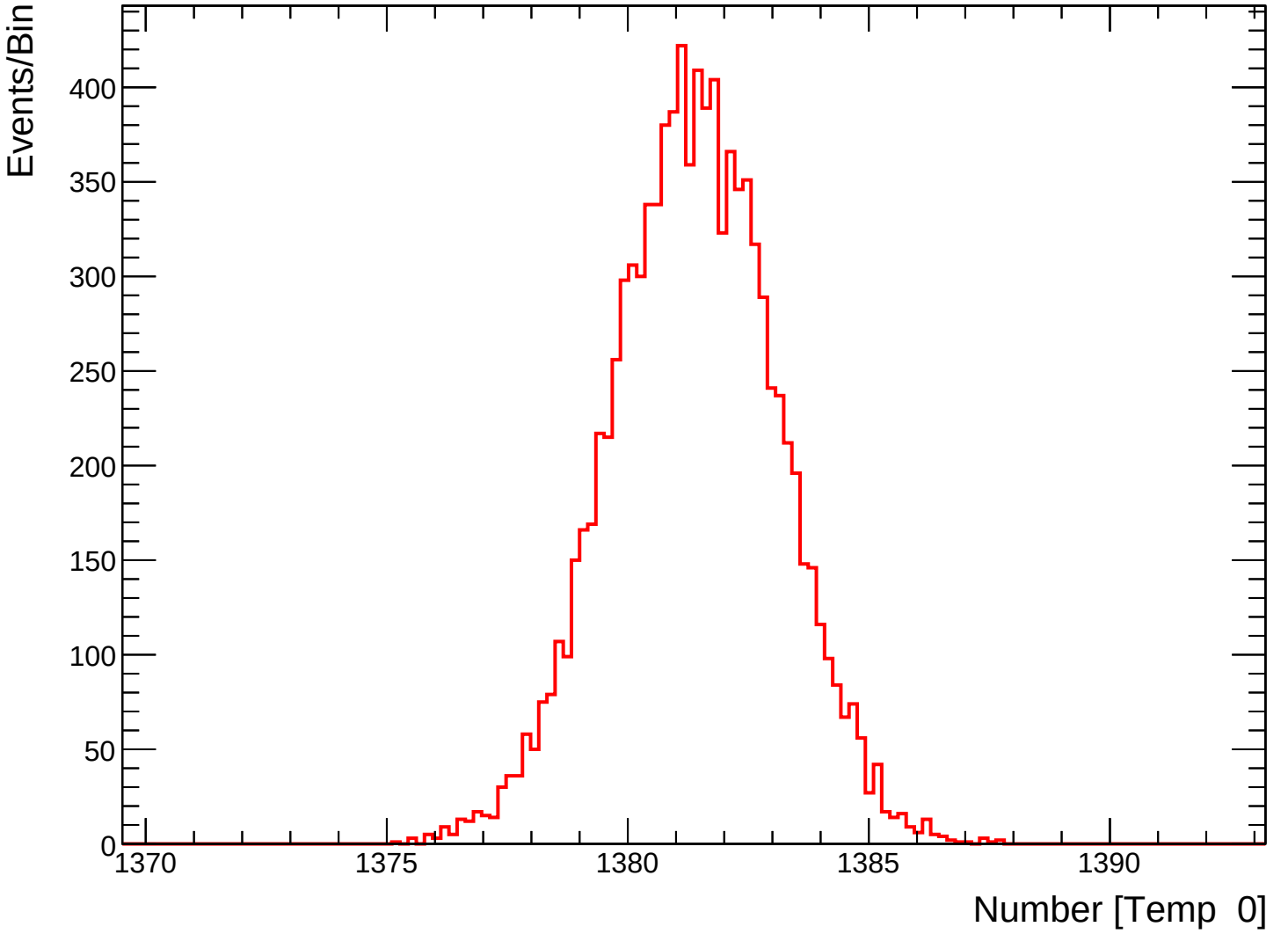

Time 4 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1623.8 ± 41.3)
e⁻+π⁻ (559.3 ± 25.2)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

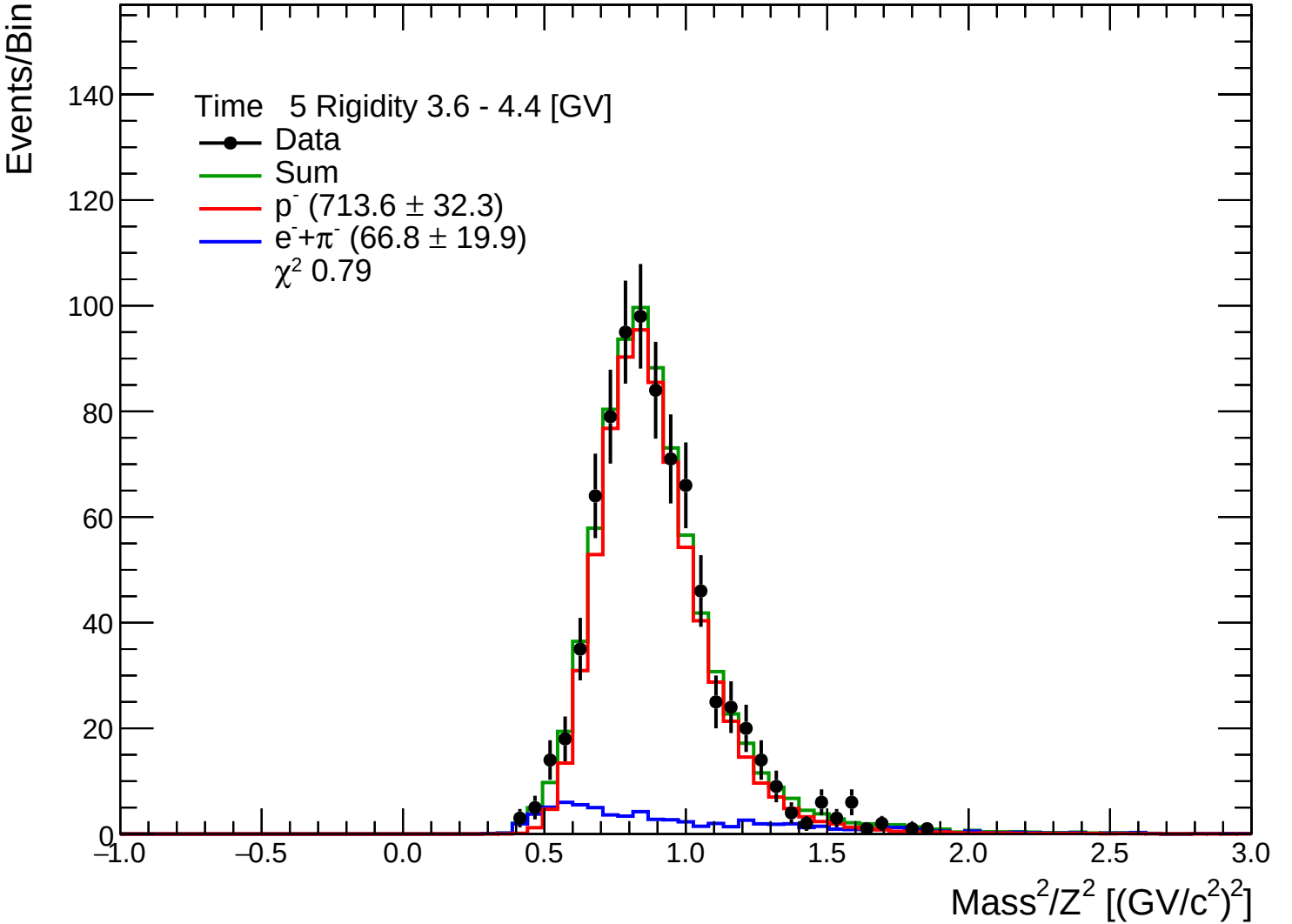

Events/Bin
400
350
300
250
200
150
100
50
0
1618
1620
1622
1624
1626
1628
1630
Number [Temp 0]

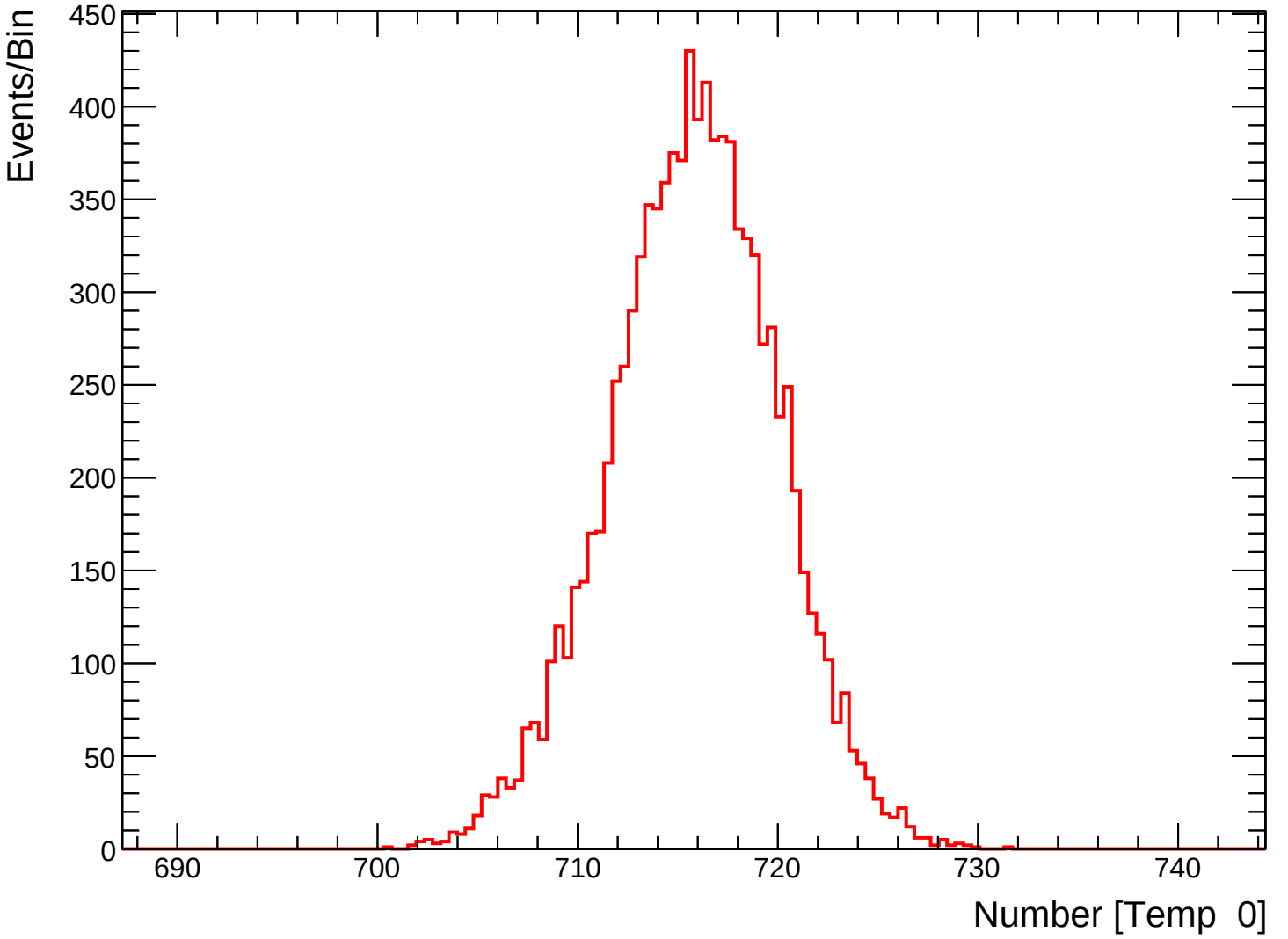

Time 4 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1518.3 ± 40.9)
e⁻+π⁻ (988.3 ± 33.7)
χ² 0.98
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

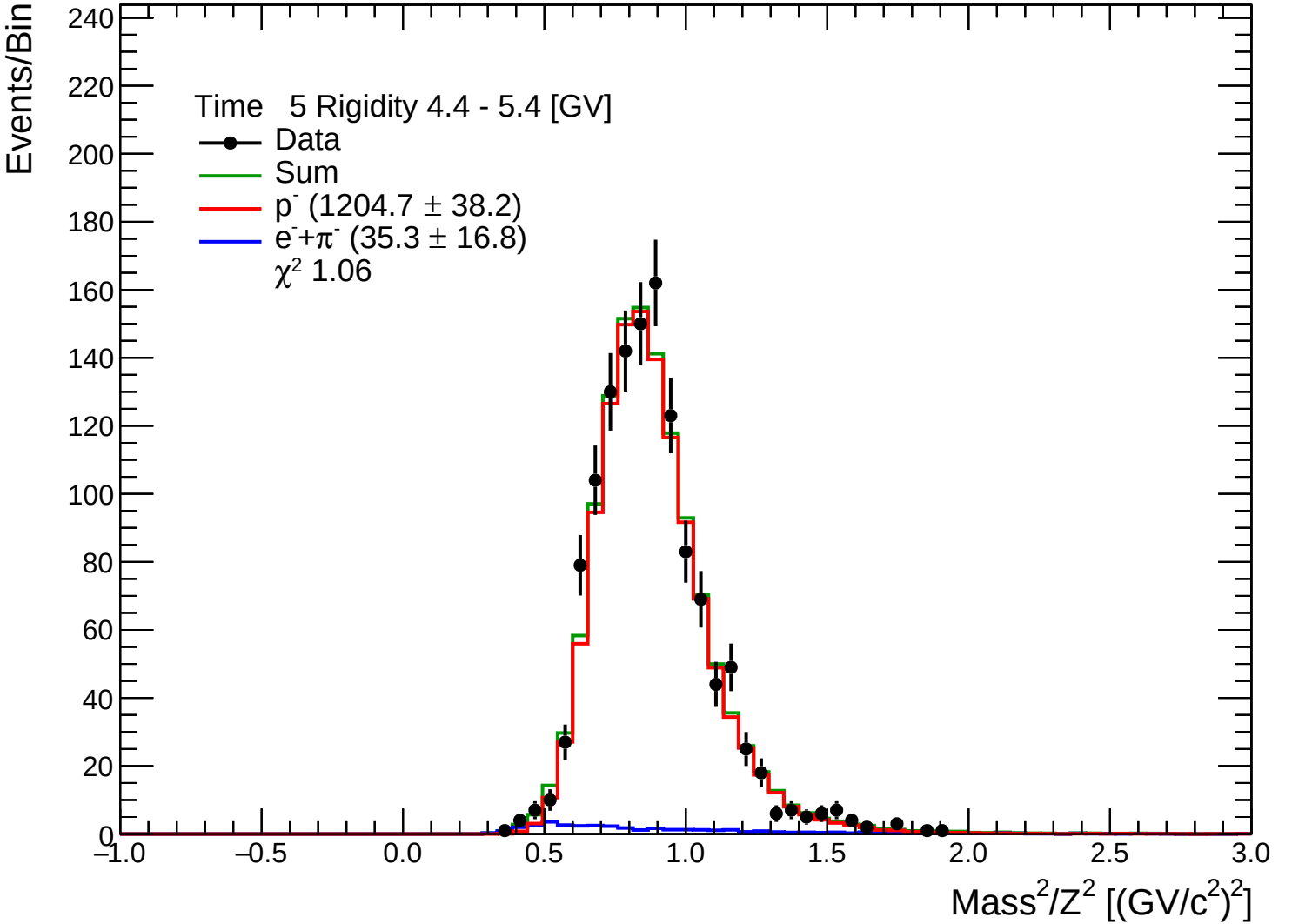

Events/Bin
450
400
350
300
250
200
150
100
50
0
1512
1514
1516
1518
1520
1522
1524
1526
Number [Temp 0]

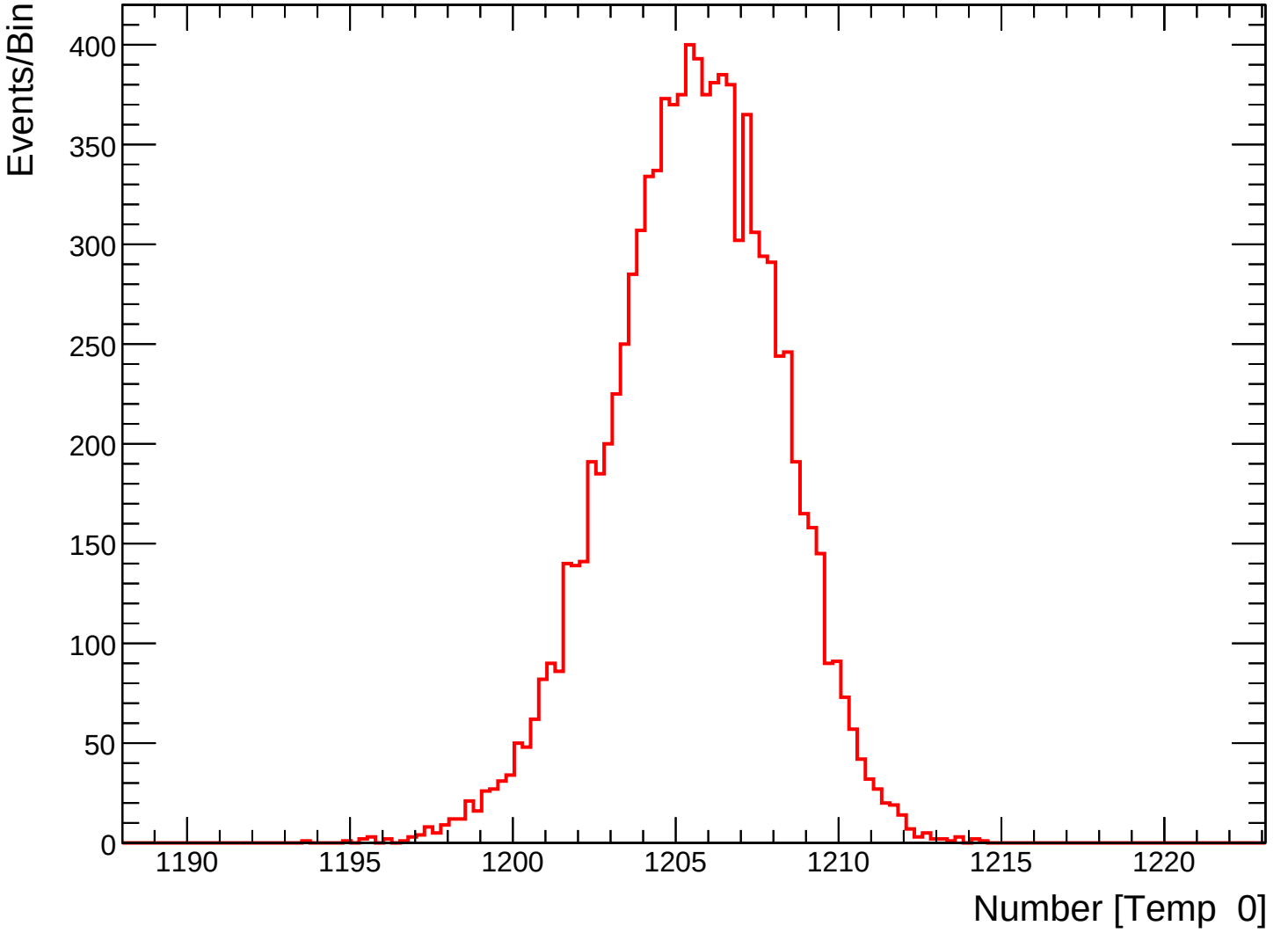

Events/Bin
Time 4 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1381.3 ± 41.0)
e⁻+π⁻ (881.0 ± 34.2)
χ² 1.06
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Mass²/Z² [(GV/c²)²]

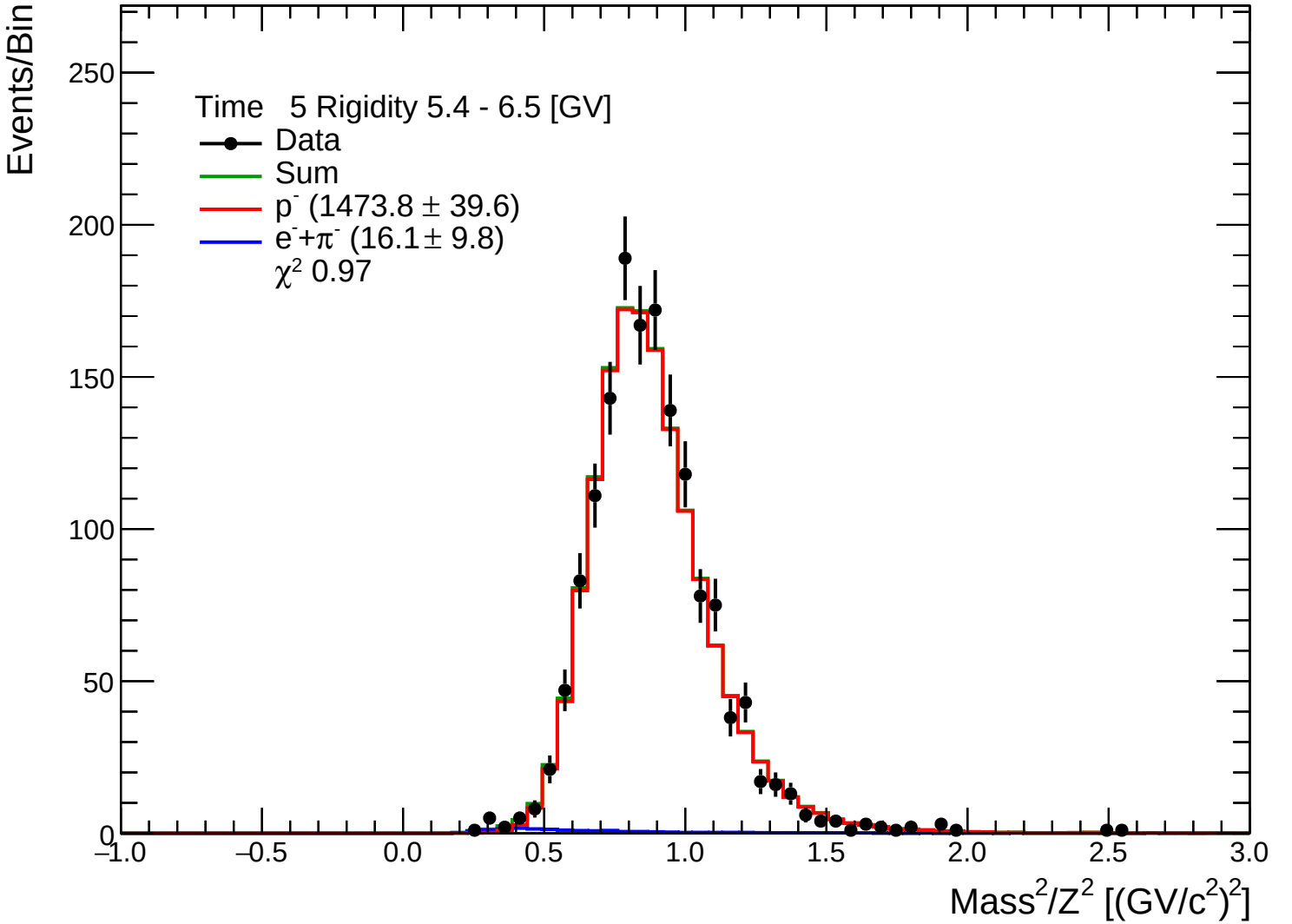

Events/Bin
400
350
300
250
200
150
100
50
0
1370
1375
1380
1385
1390
Number [Temp 0]

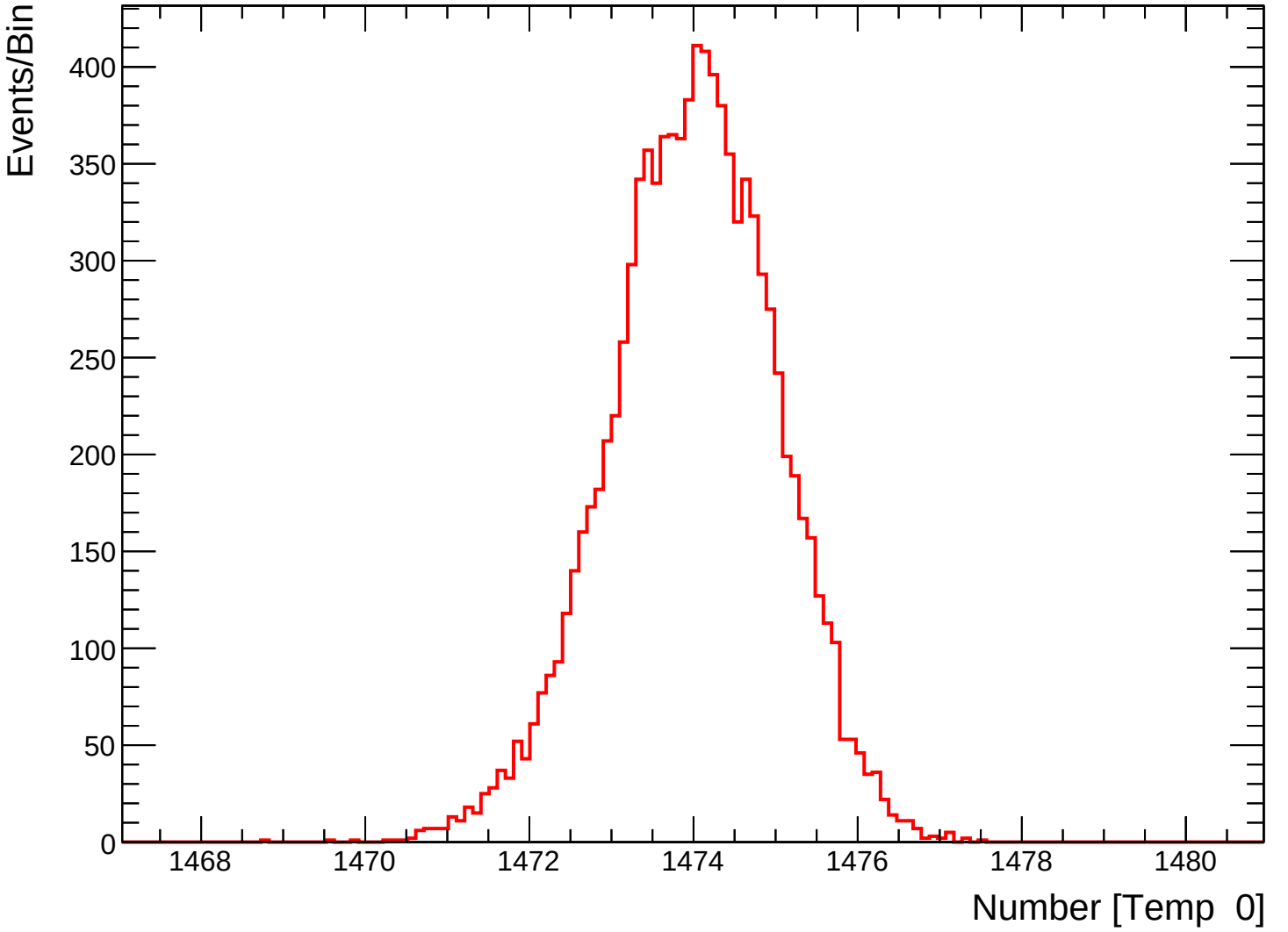

Events/Bin
Time 5 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (713.6 ± 32.3)
e⁻+π⁻ (66.8 ± 19.9)
χ² 0.79
Mass²/Z² [(GV/c²)²]

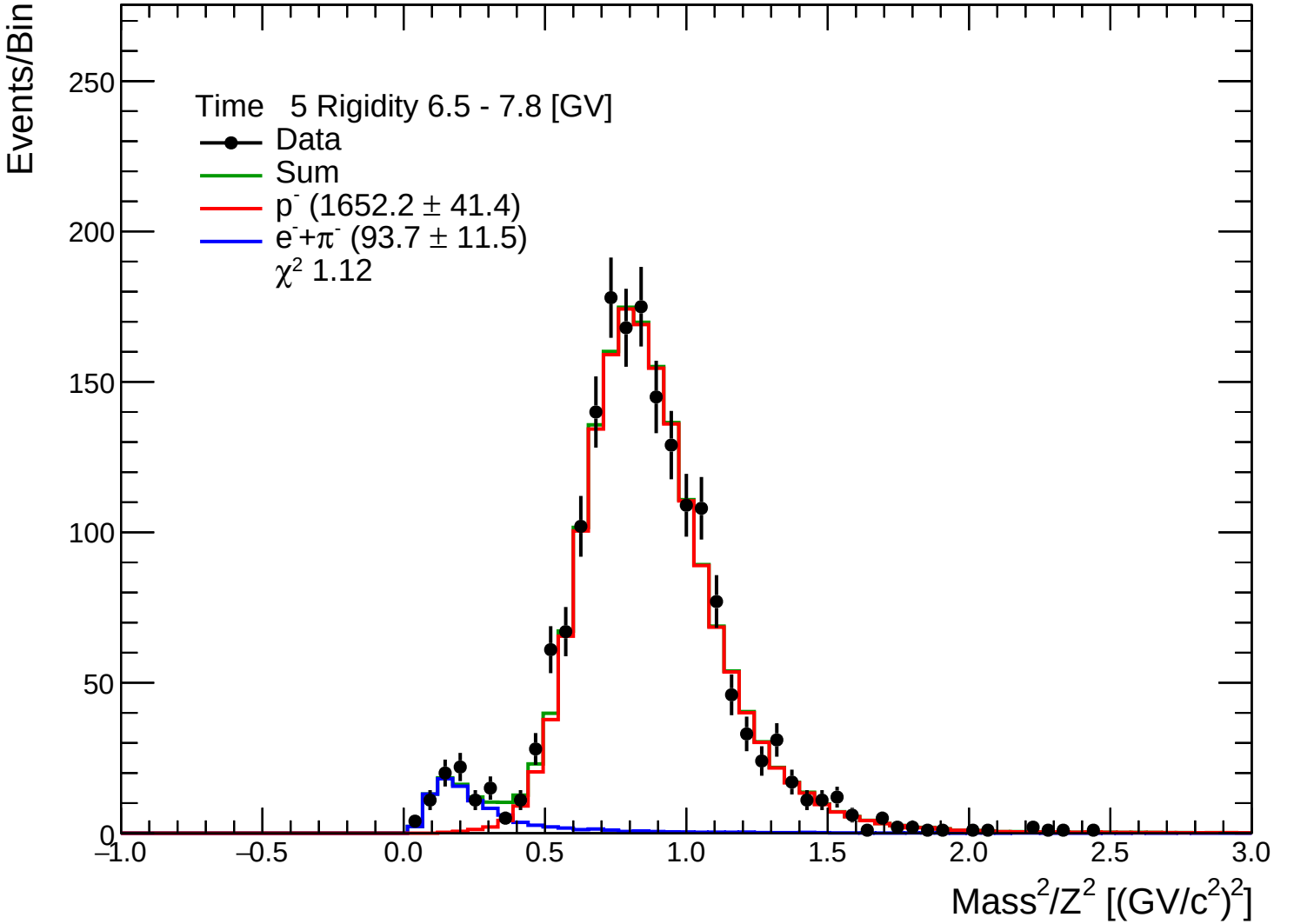

Events/Bin
450
400
350
300
250
200
150
100
50
0
690
700
710
720
730
740
Number [Temp 0]

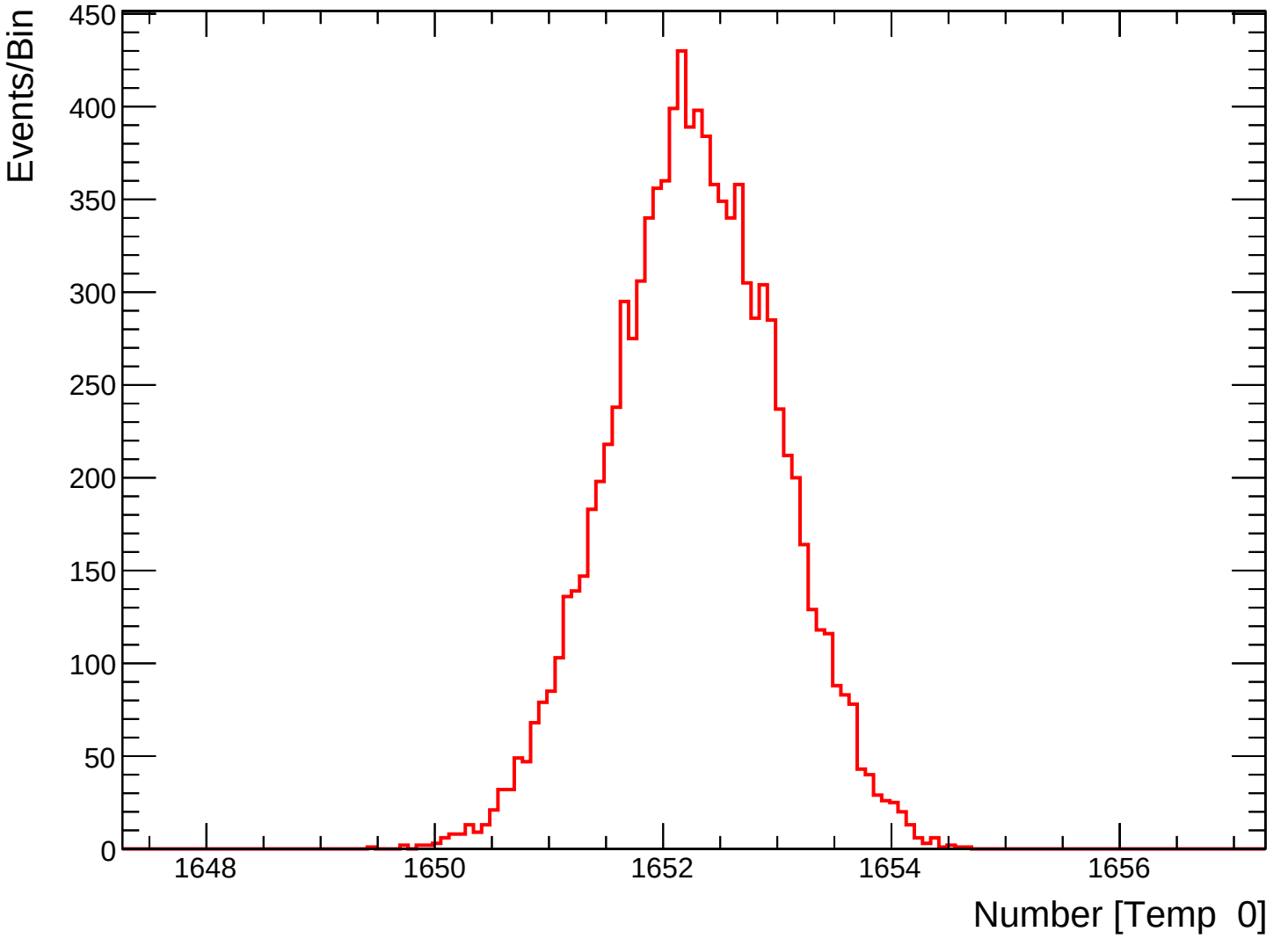

Time 5 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1204.7 ± 38.2)
e⁻+π⁻ (35.3 ± 16.8)
χ² 1.06
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

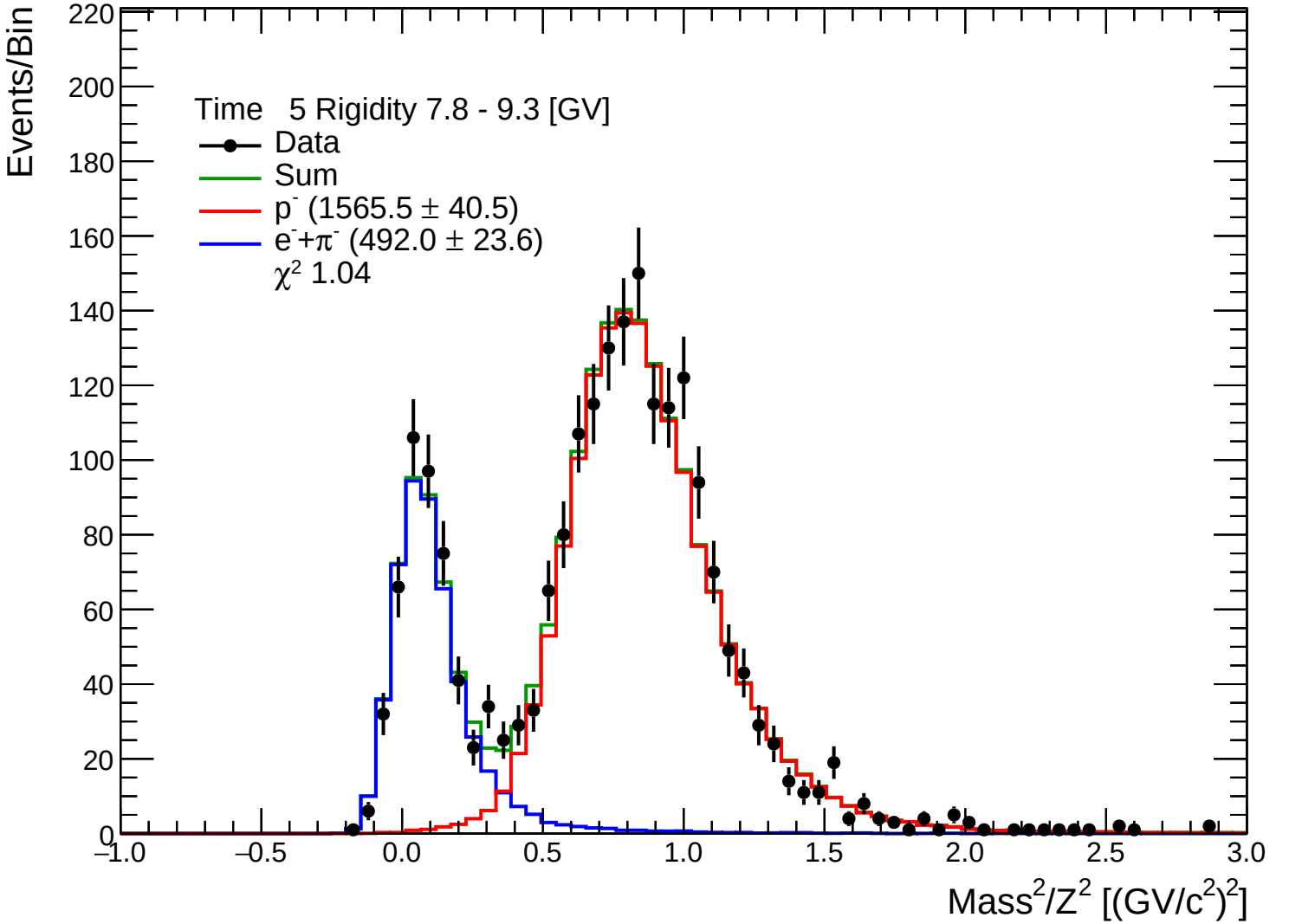

Events/Bin
400
350
300
250
200
150
100
50
0
1190
1195
1200
1205
1210
1215
1220
Number [Temp 0]

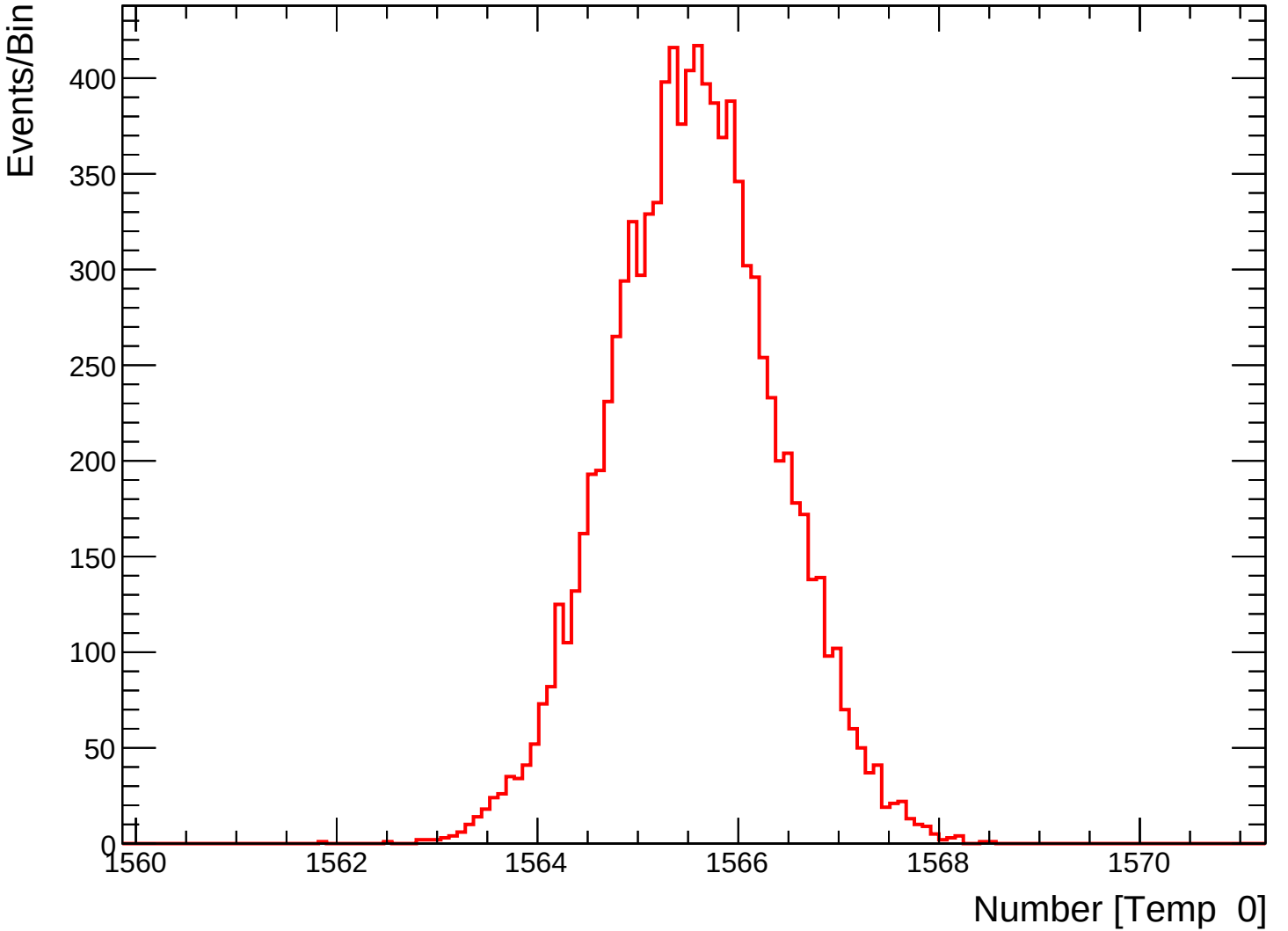

Events/Bin
Time 5 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1473.8 ± 39.6)
e⁻+π⁻ (16.1± 9.8)
χ² 0.97
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Mass²/Z² [(GV/c²)²]

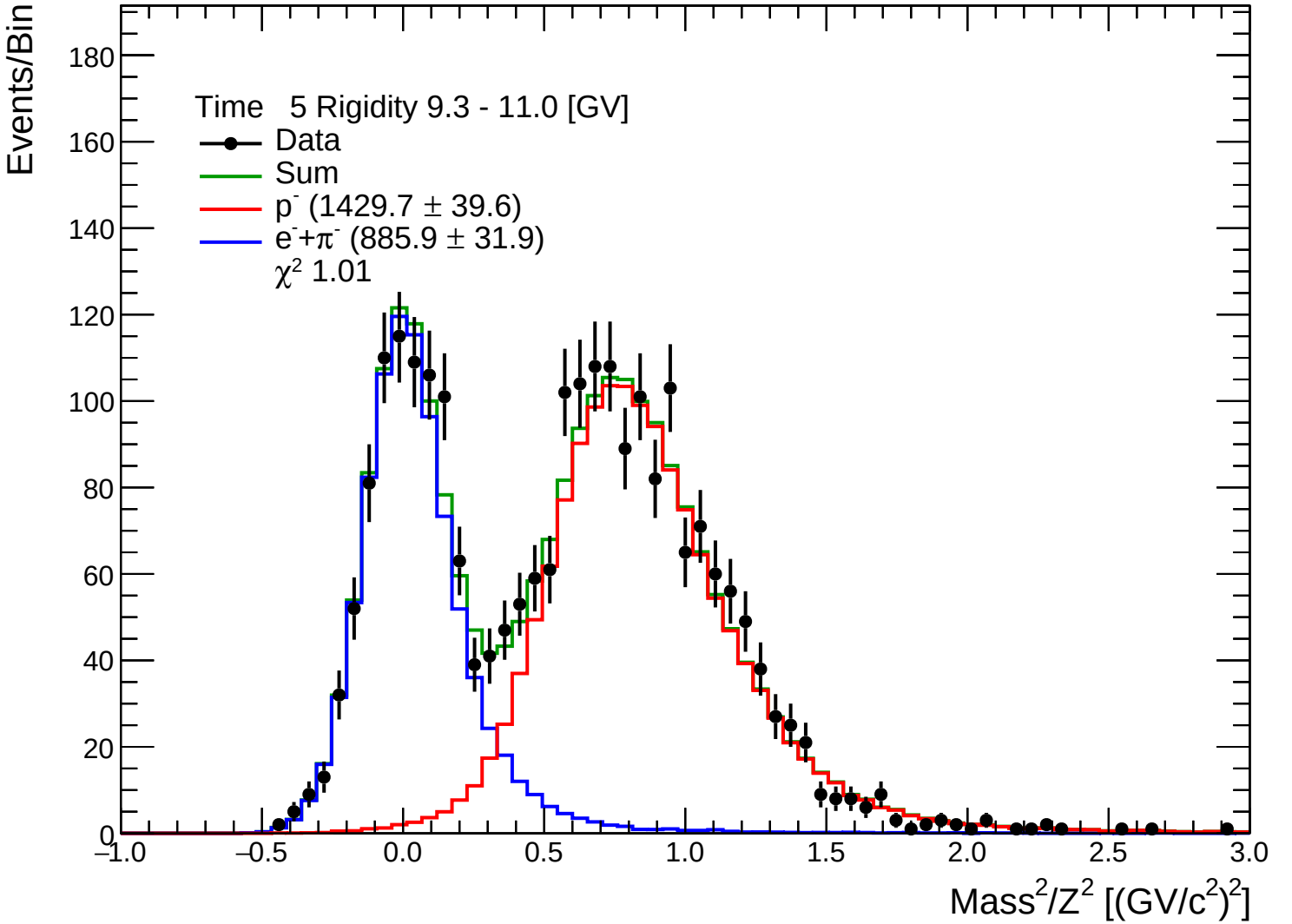

Events/Bin
400
350
300
250
200
150
100
50
0
1468
1470
1472
1474
1476
1478
1480
Number [Temp 0]

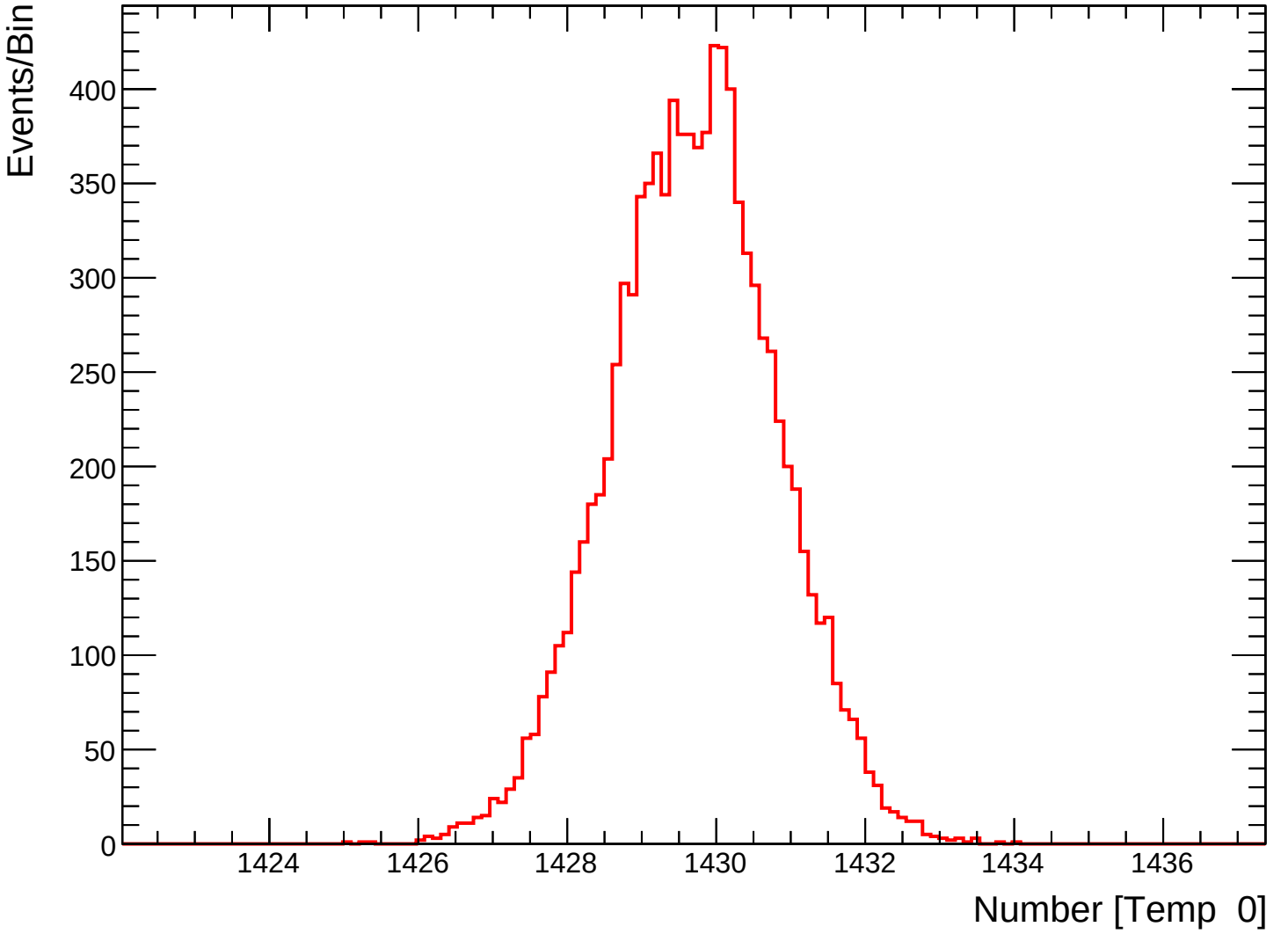

Time 5 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1652.2 ± 41.4)
e⁻+π⁻ (93.7 ± 11.5)
χ² 1.12
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

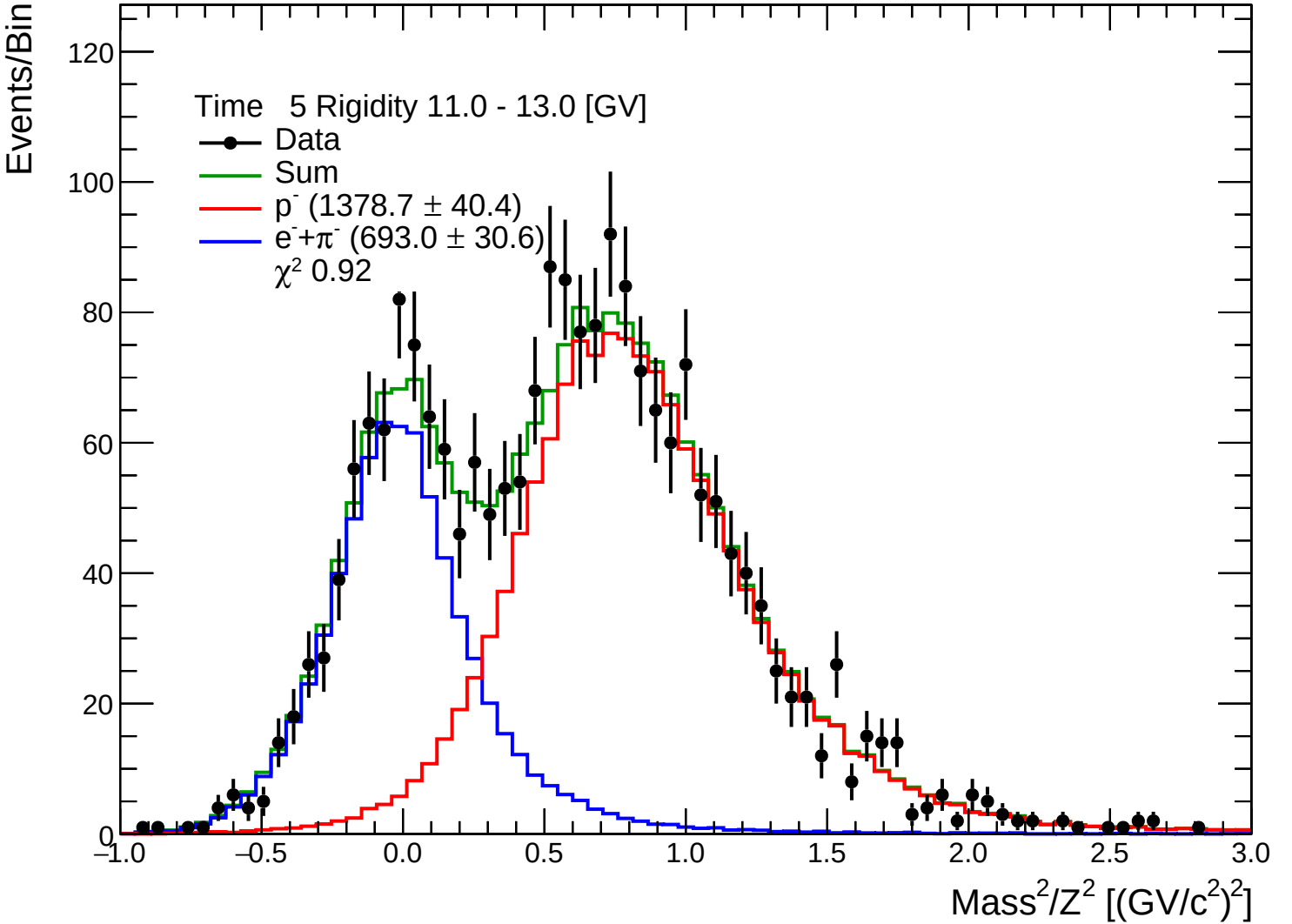

Events/Bin
450
400
350
300
250
200
150
100
50
0
1648
1650
1652
1654
1656
Number [Temp 0]

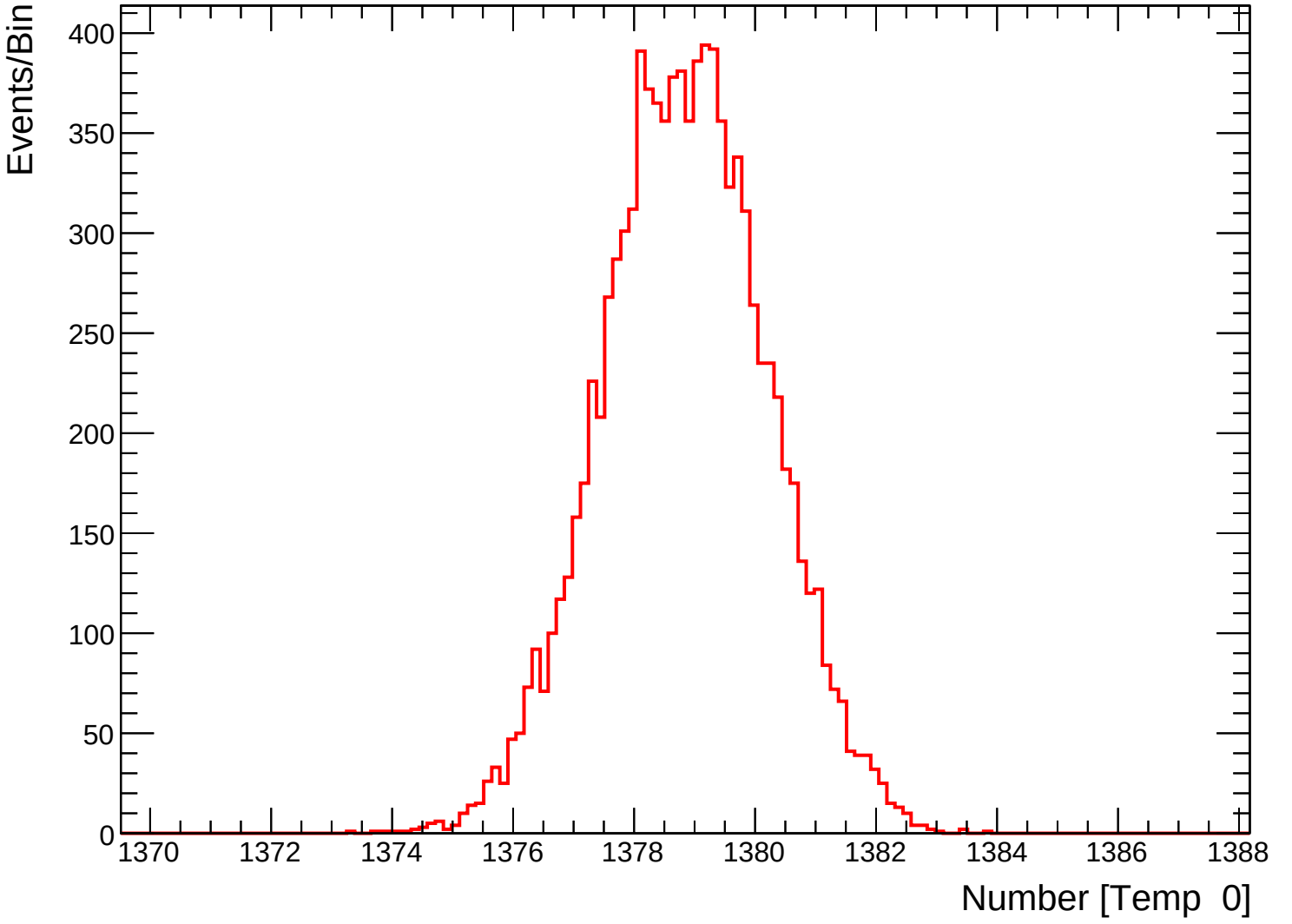

Time 5 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1565.5 ± 40.5)
e⁻+π⁻ (492.0 ± 23.6)
χ² 1.04
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

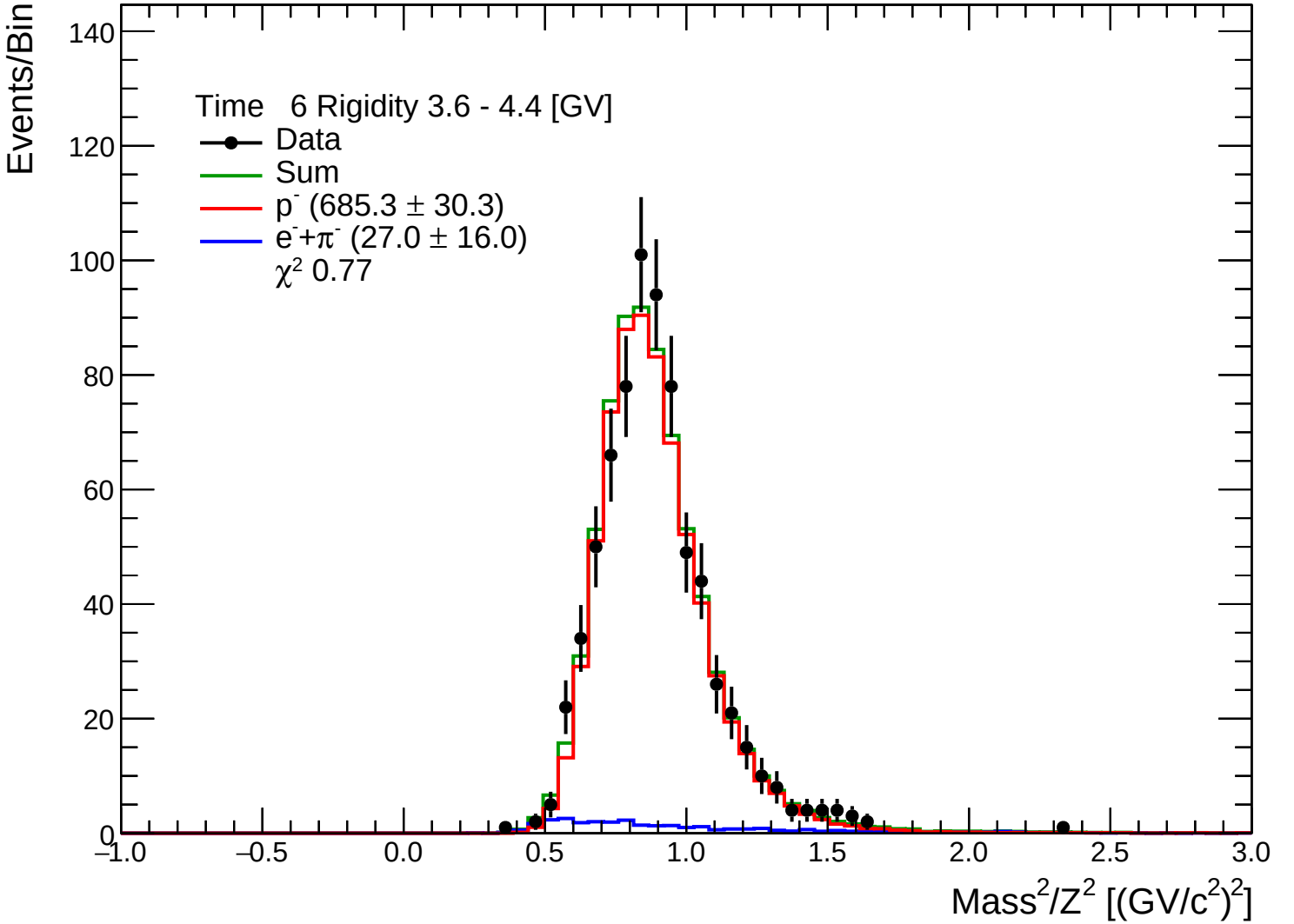

Events/Bin
400
350
300
250
200
150
100
50
0
1560
1562
1564
1566
1568
1570
Number [Temp 0]

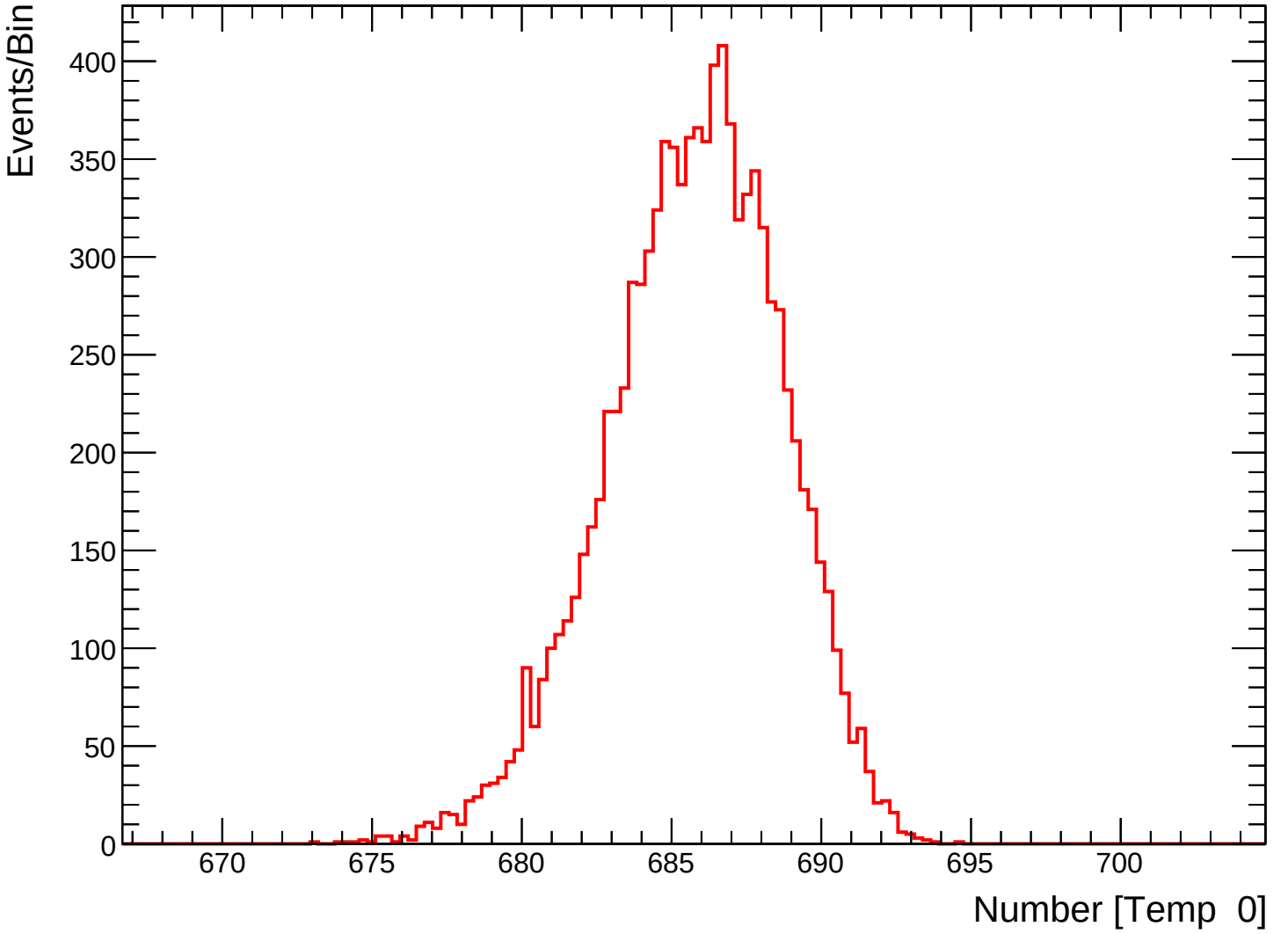

Time 5 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1429.7 ± 39.6)
e⁻+π⁻ (885.9 ± 31.9)
χ² 1.01
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

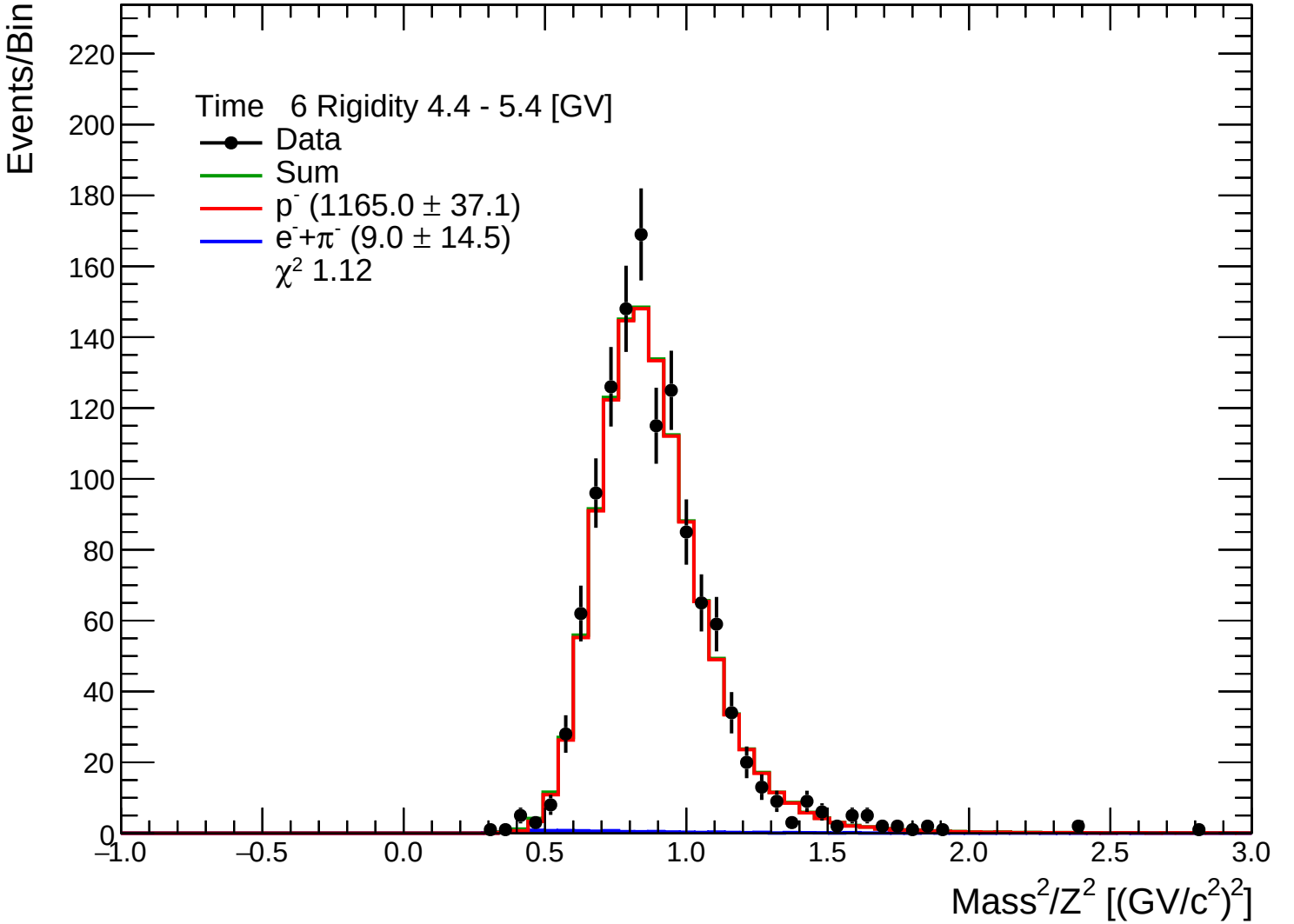

Events/Bin
400
350
300
250
200
150
100
50
0
1424
1426
1428
1430
1432
1434
1436
Number [Temp 0]

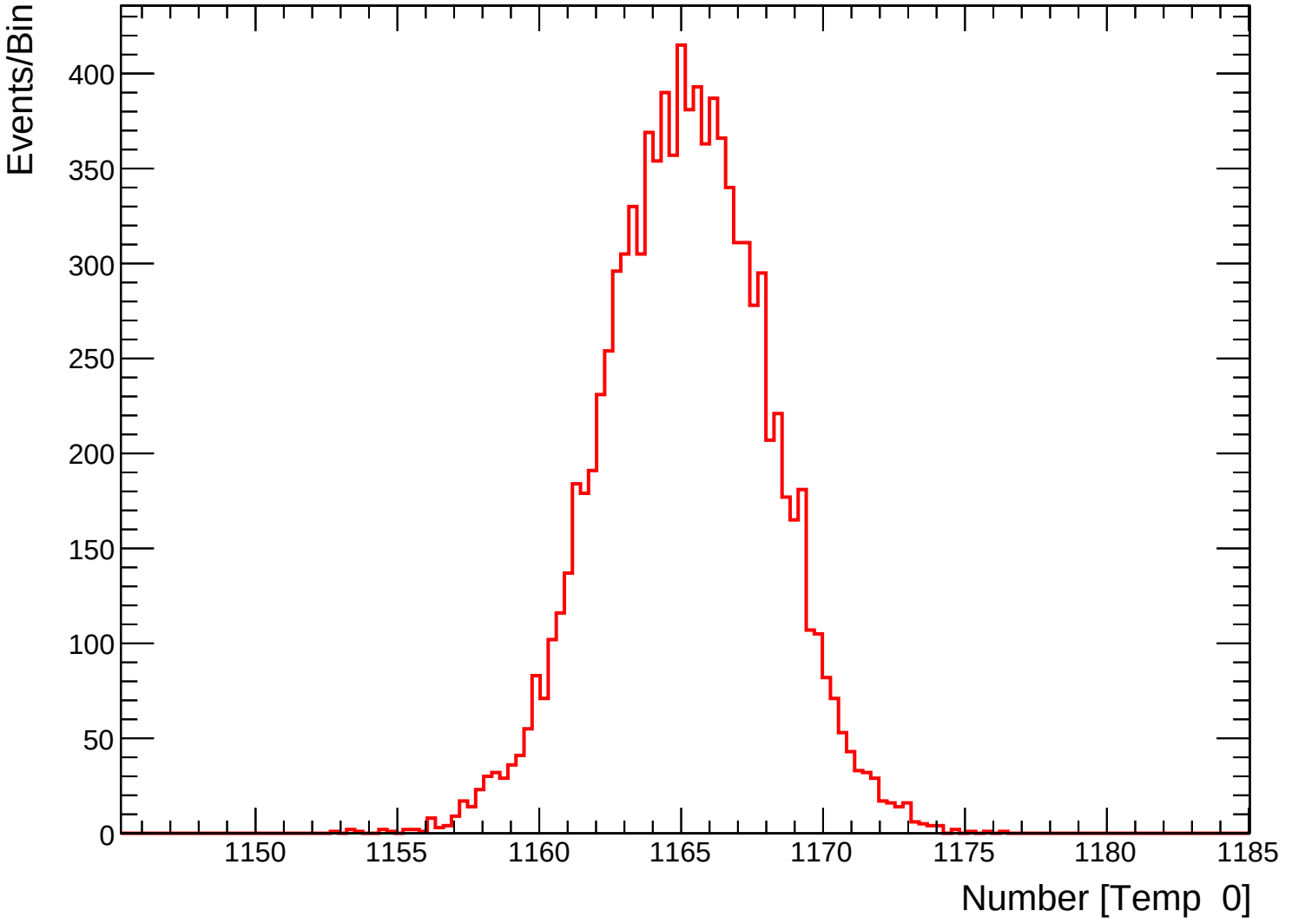

Time 5 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1378.7 ± 40.4)
e⁻+π⁻ (693.0 ± 30.6)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

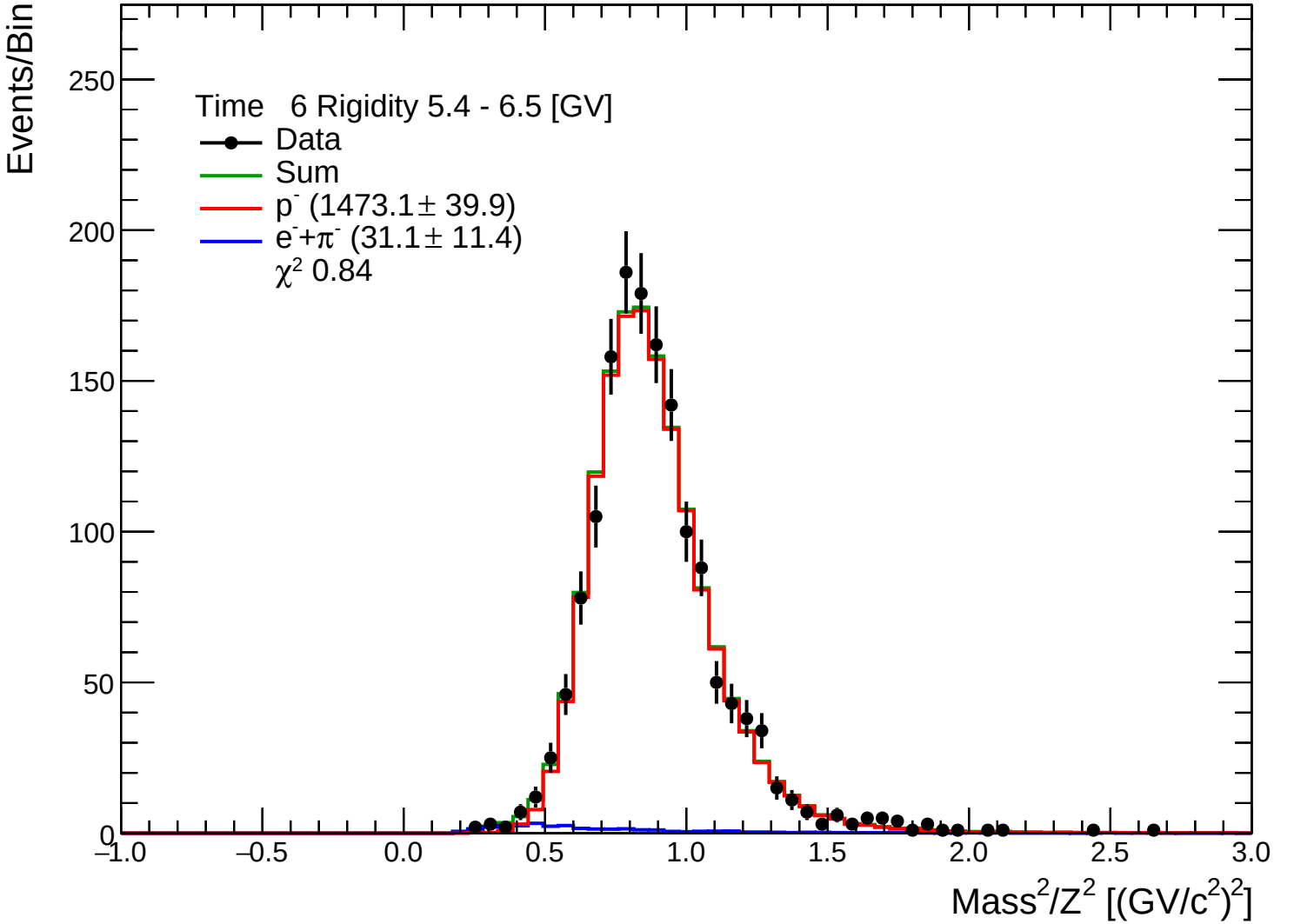

Events/Bin
400
350
300
250
200
150
100
50
0
1370
1372
1374
1376
1378
1380
1382
1384
1386
1388
Number [Temp 0]

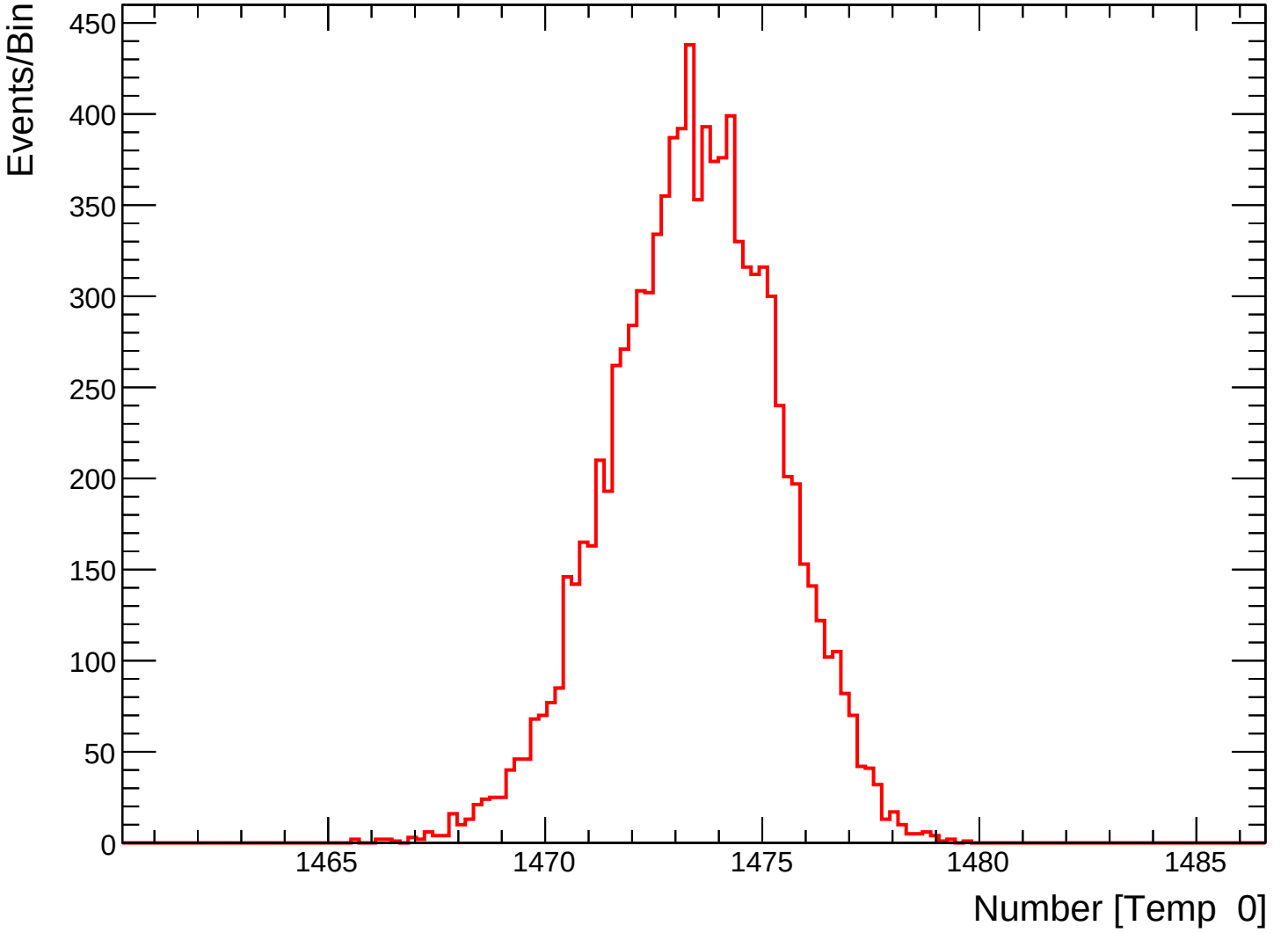

Time 6 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (685.3 ± 30.3)
e⁻+π⁻ (27.0 ± 16.0)
χ² 0.77
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

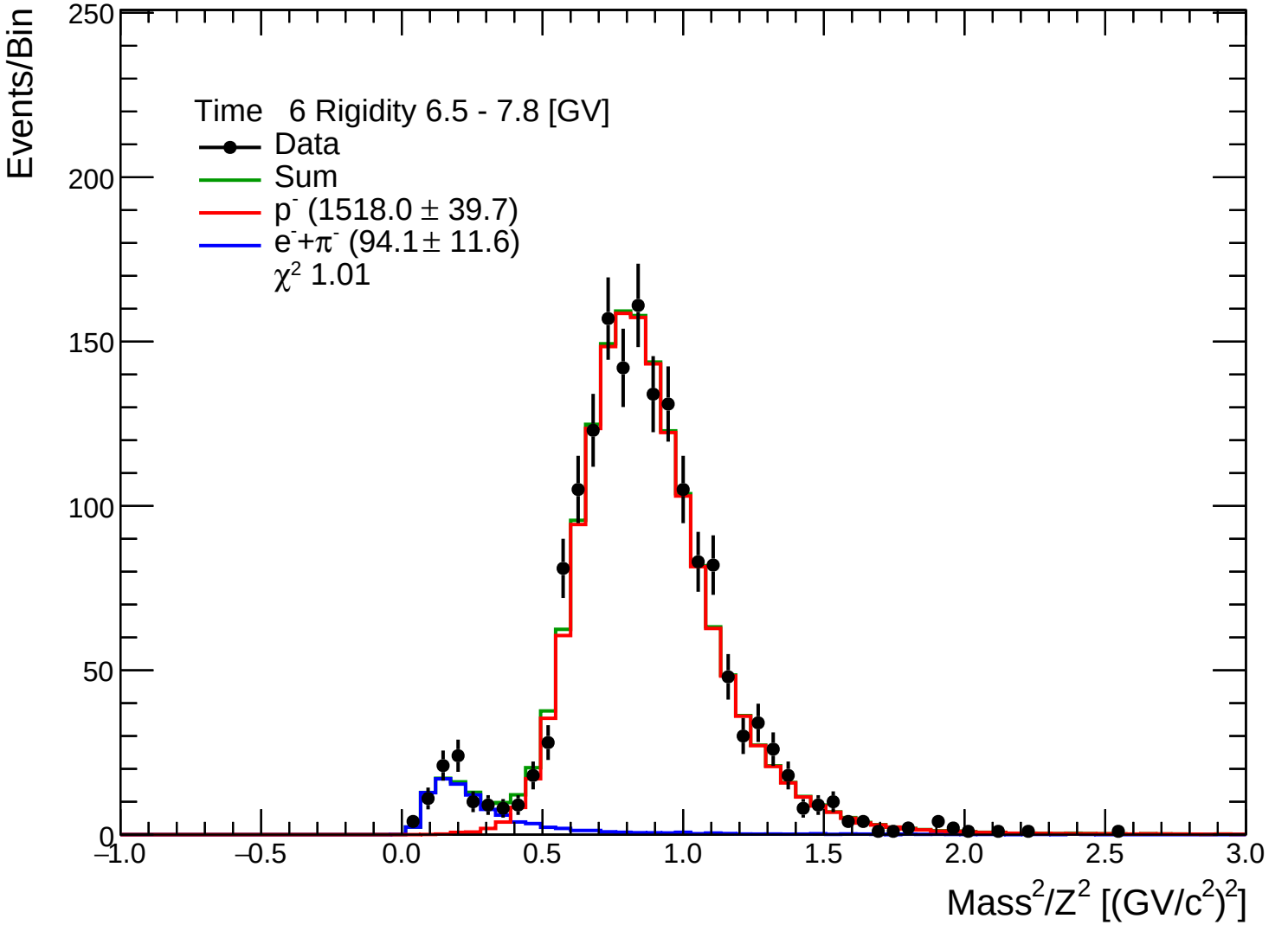

Events/Bin
400
350
300
250
200
150
100
50
0
670
675
680
685
690
695
700
Number [Temp 0]

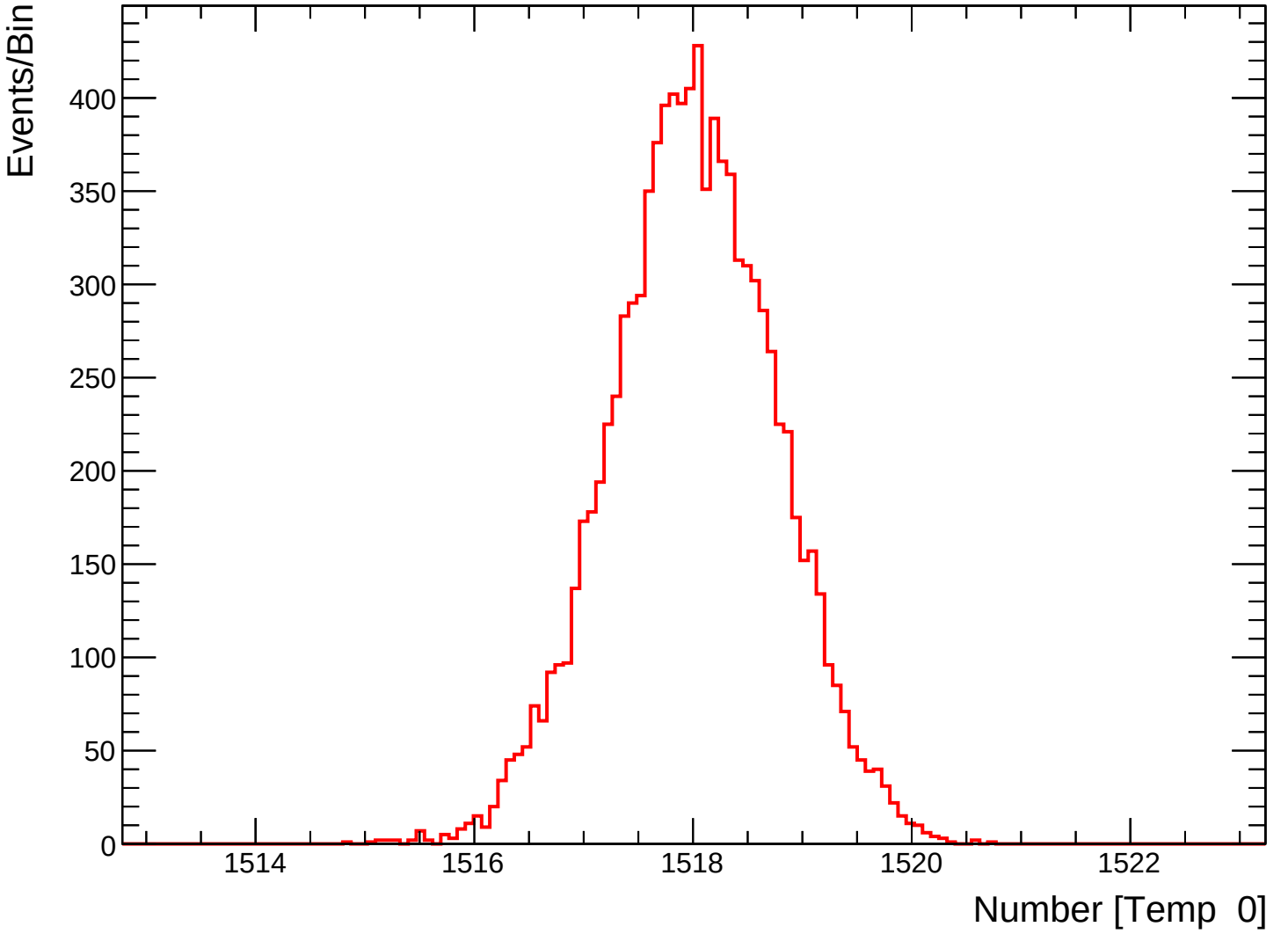

Time 6 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1165.0 ± 37.1)
e⁻+π⁻ (9.0 ± 14.5)
χ² 1.12
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

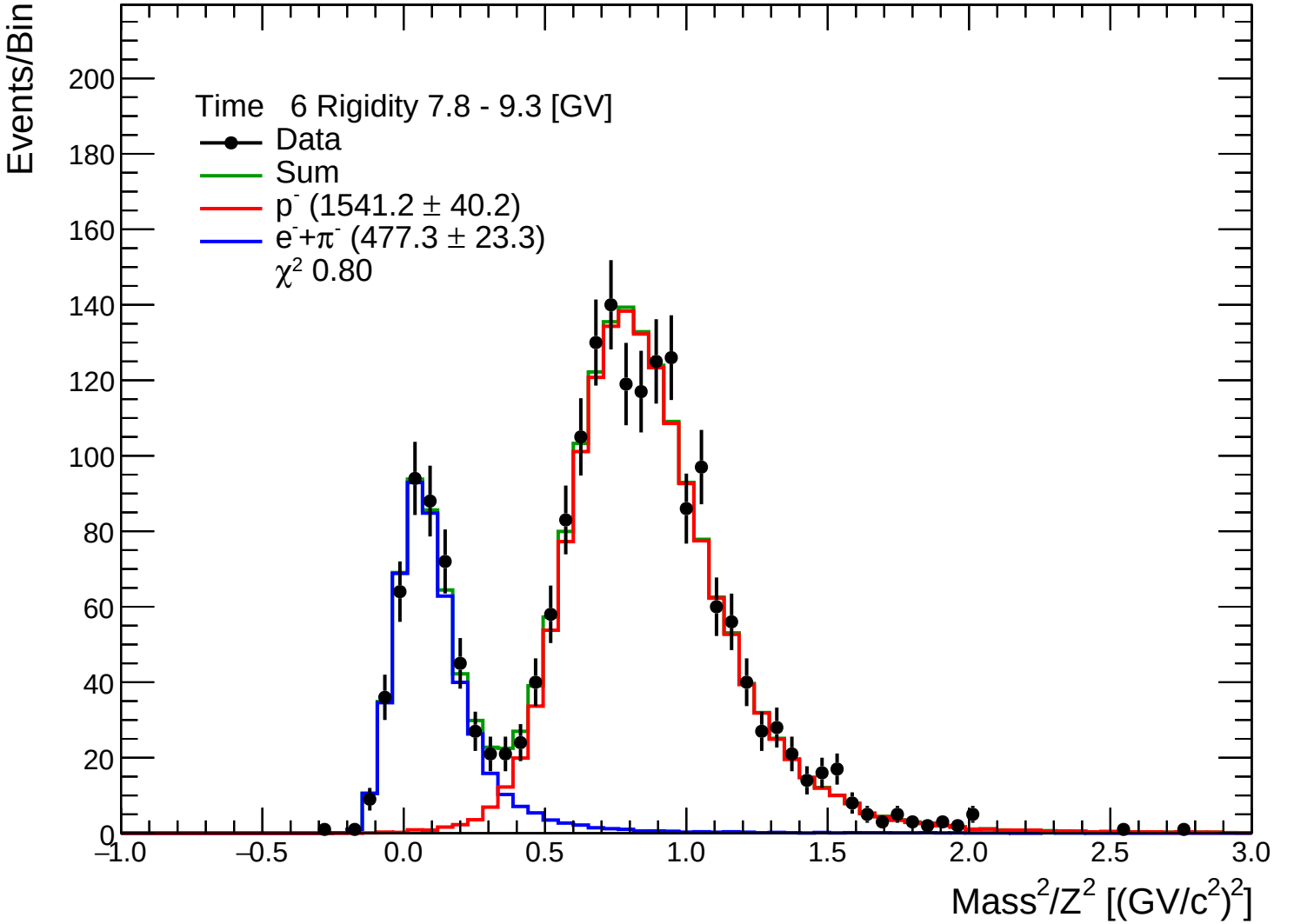

Events/Bin
400
350
300
250
200
150
100
50
0
1150
1155
1160
1165
1170
1175
1180
1185
Number [Temp 0]

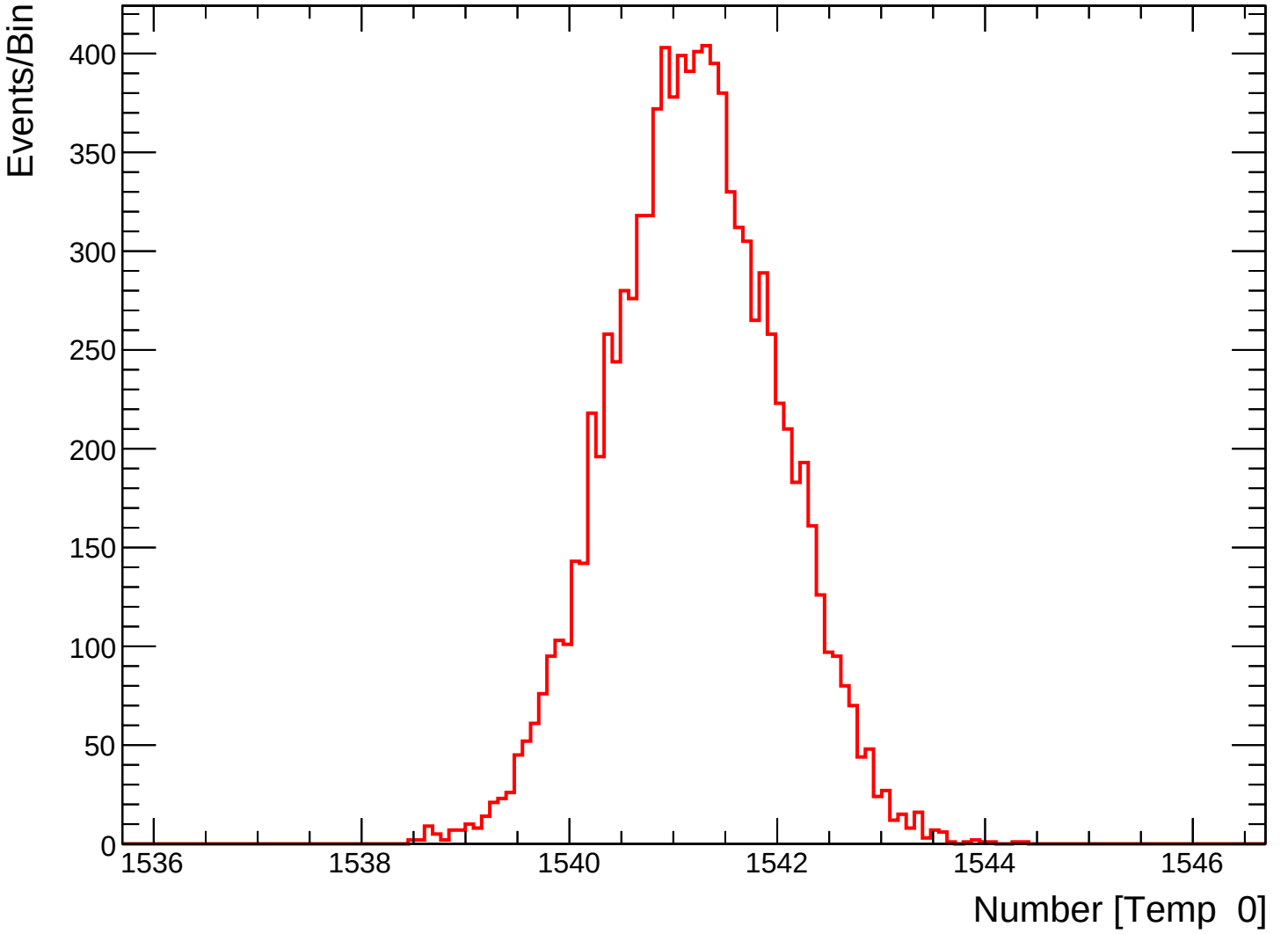

Time 6 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1473.1± 39.9)
e⁻+π⁻ (31.1± 11.4)
χ² 0.84
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

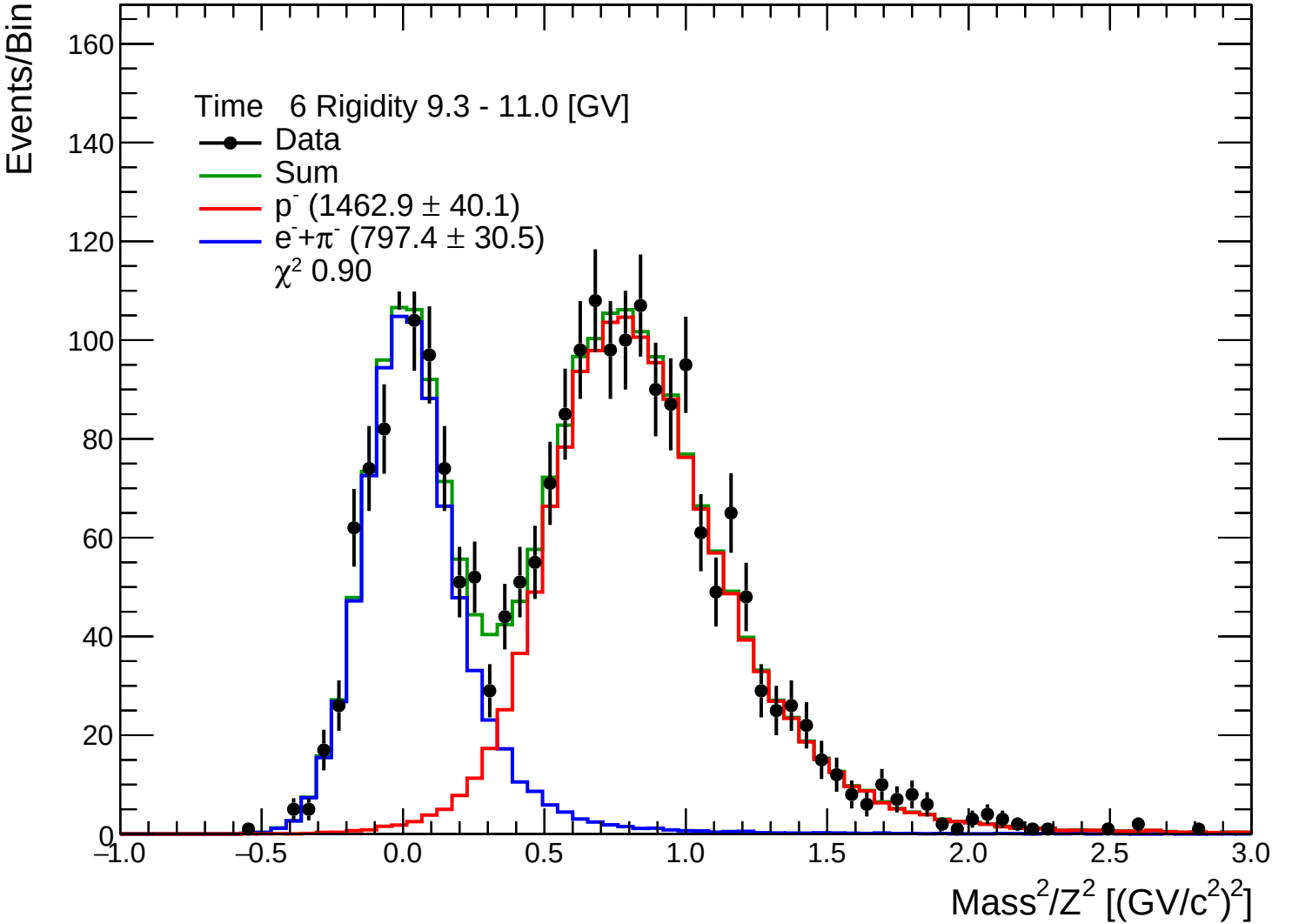

Events/Bin
450
400
350
300
250
200
150
100
50
0
1465
1470
1475
1480
1485
Number [Temp 0]

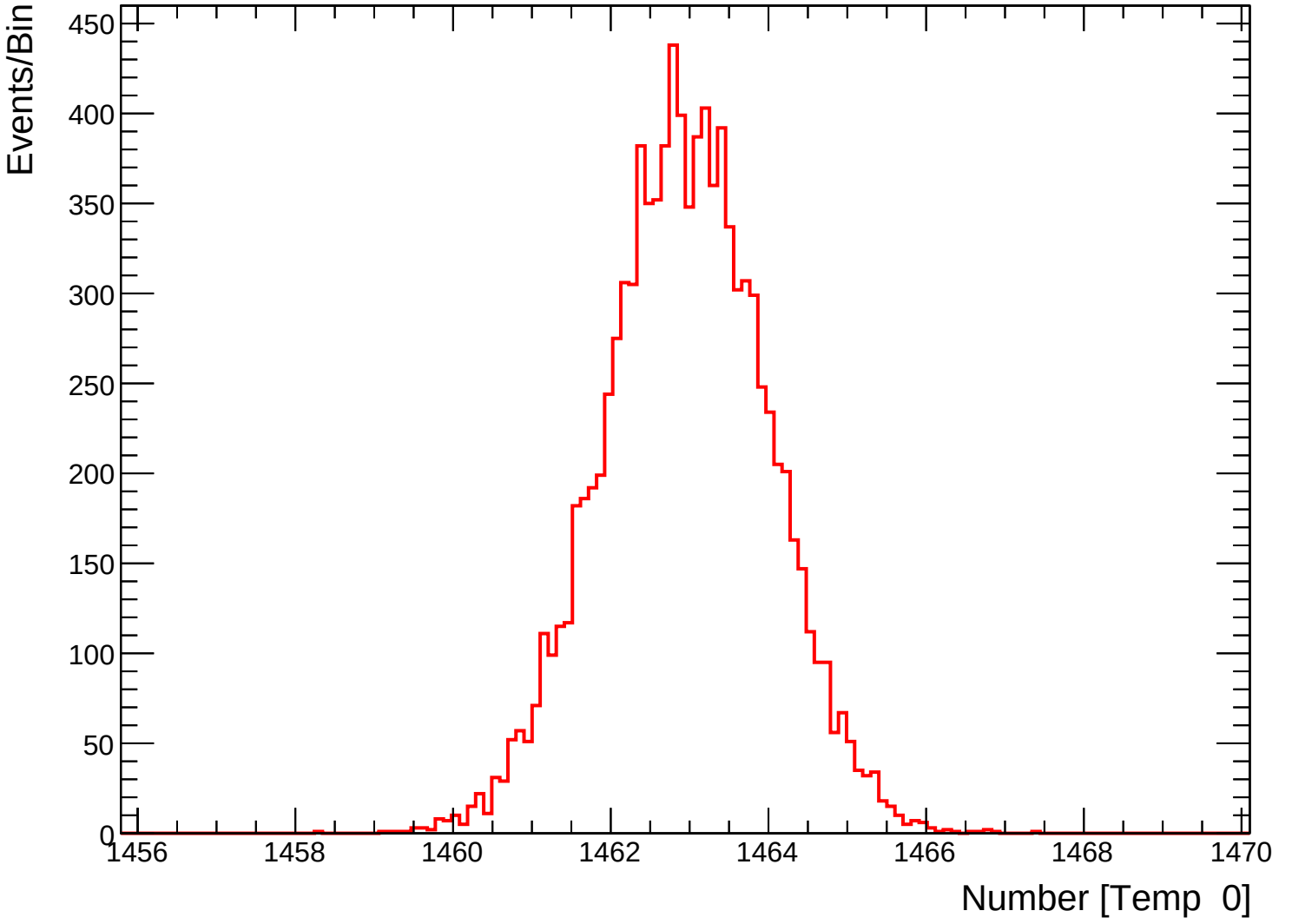

Time 6 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1518.0 ± 39.7)
e⁻+π⁻ (94.1± 11.6)
χ² 1.01
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

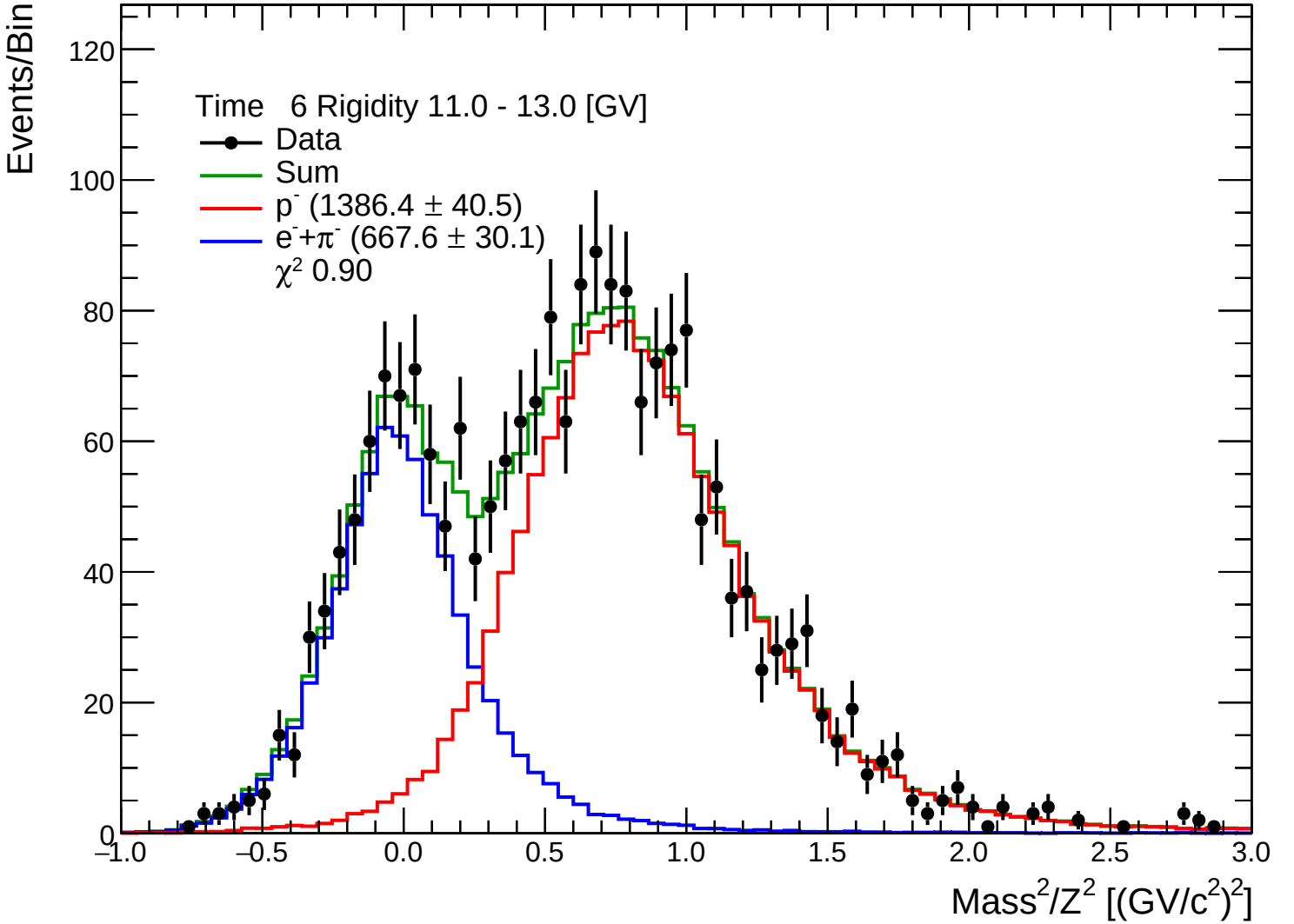

Events/Bin
400
350
300
250
200
150
100
50
0
1514
1516
1518
1520
1522
Number [Temp 0]

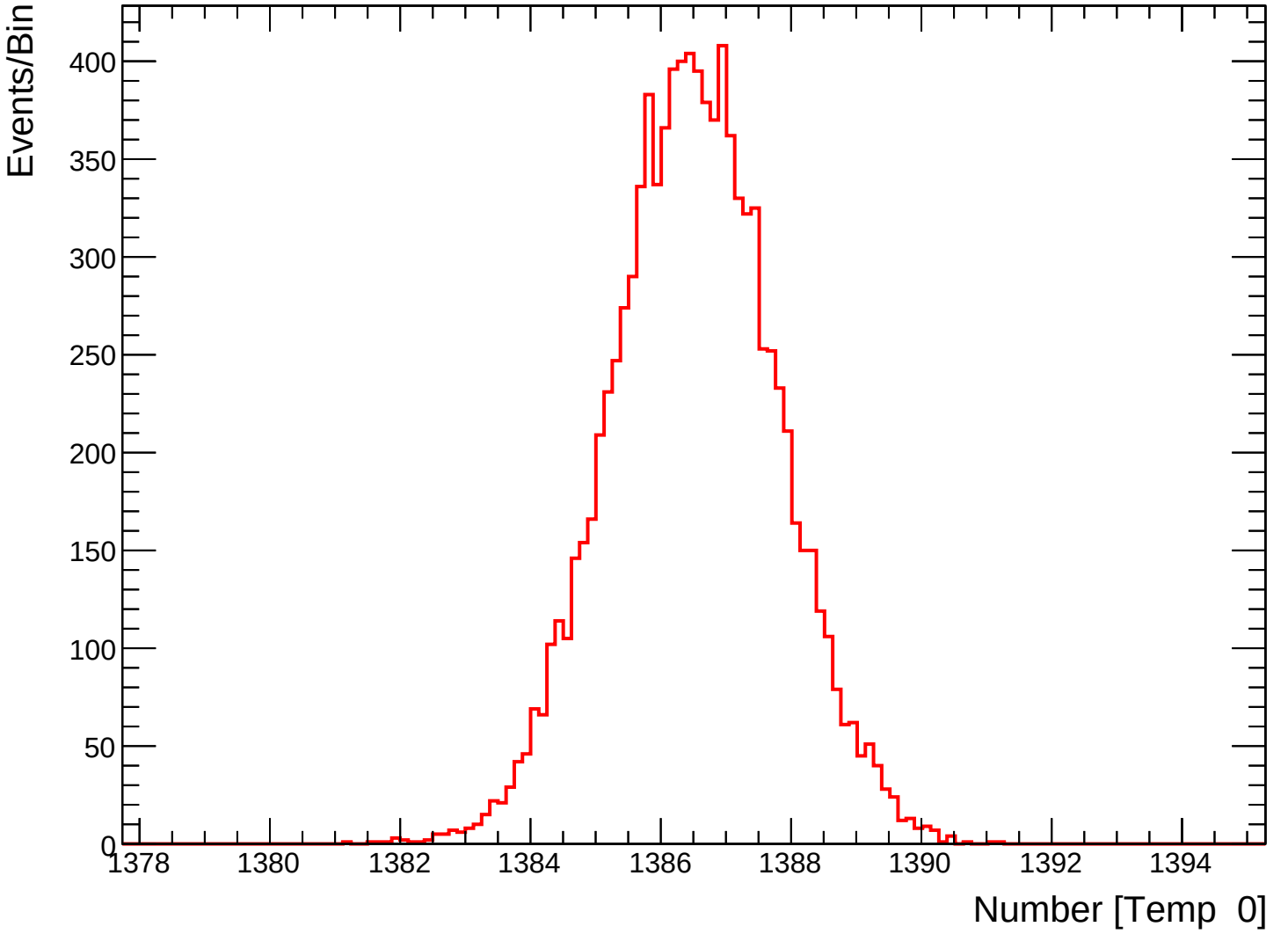

Time 6 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1541.2 ± 40.2)
e⁻+π⁻ (477.3 ± 23.3)
χ² 0.80
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

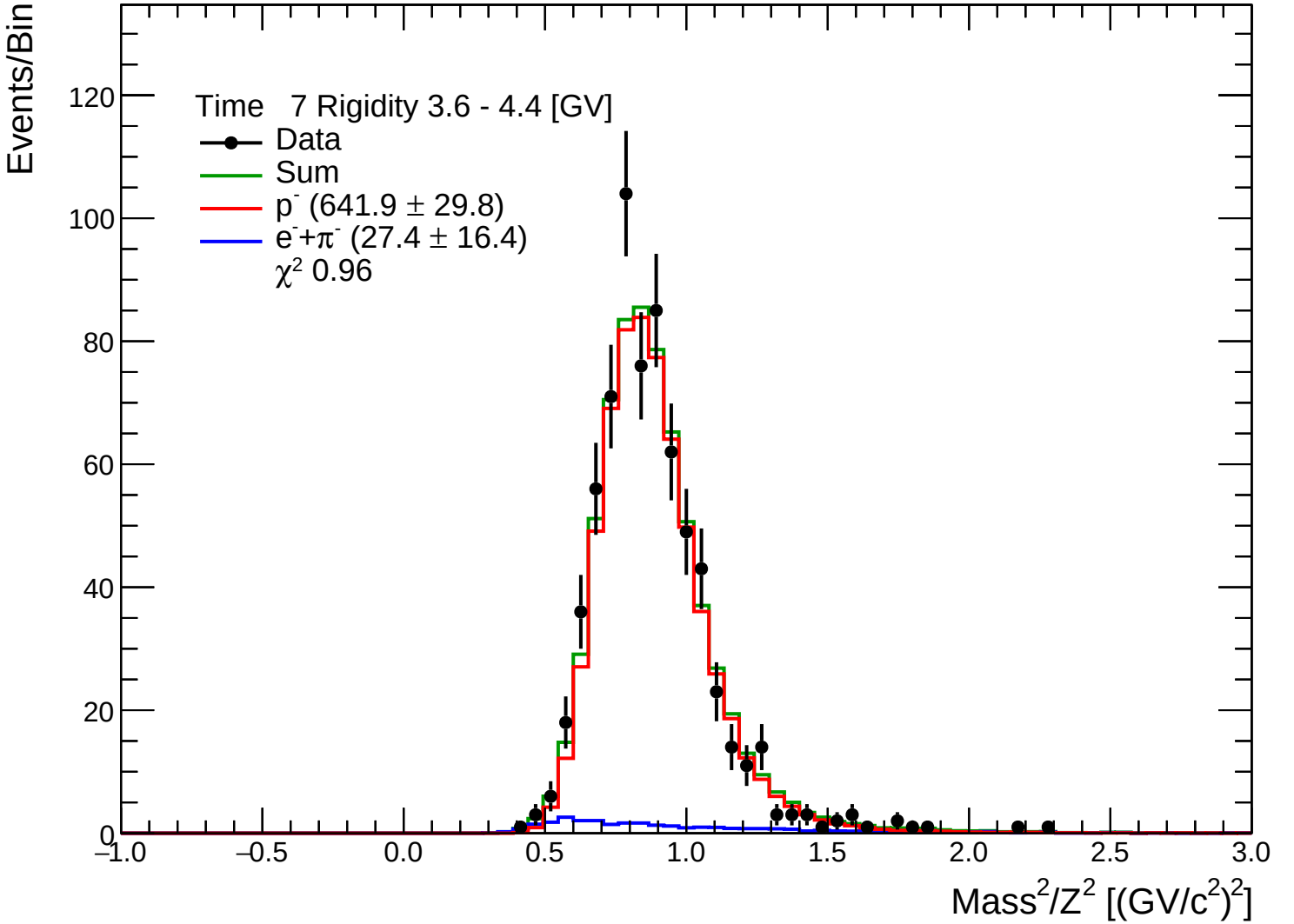

Events/Bin
400
350
300
250
200
150
100
50
0
1536
1538
1540
1542
1544
1546
Number [Temp 0]

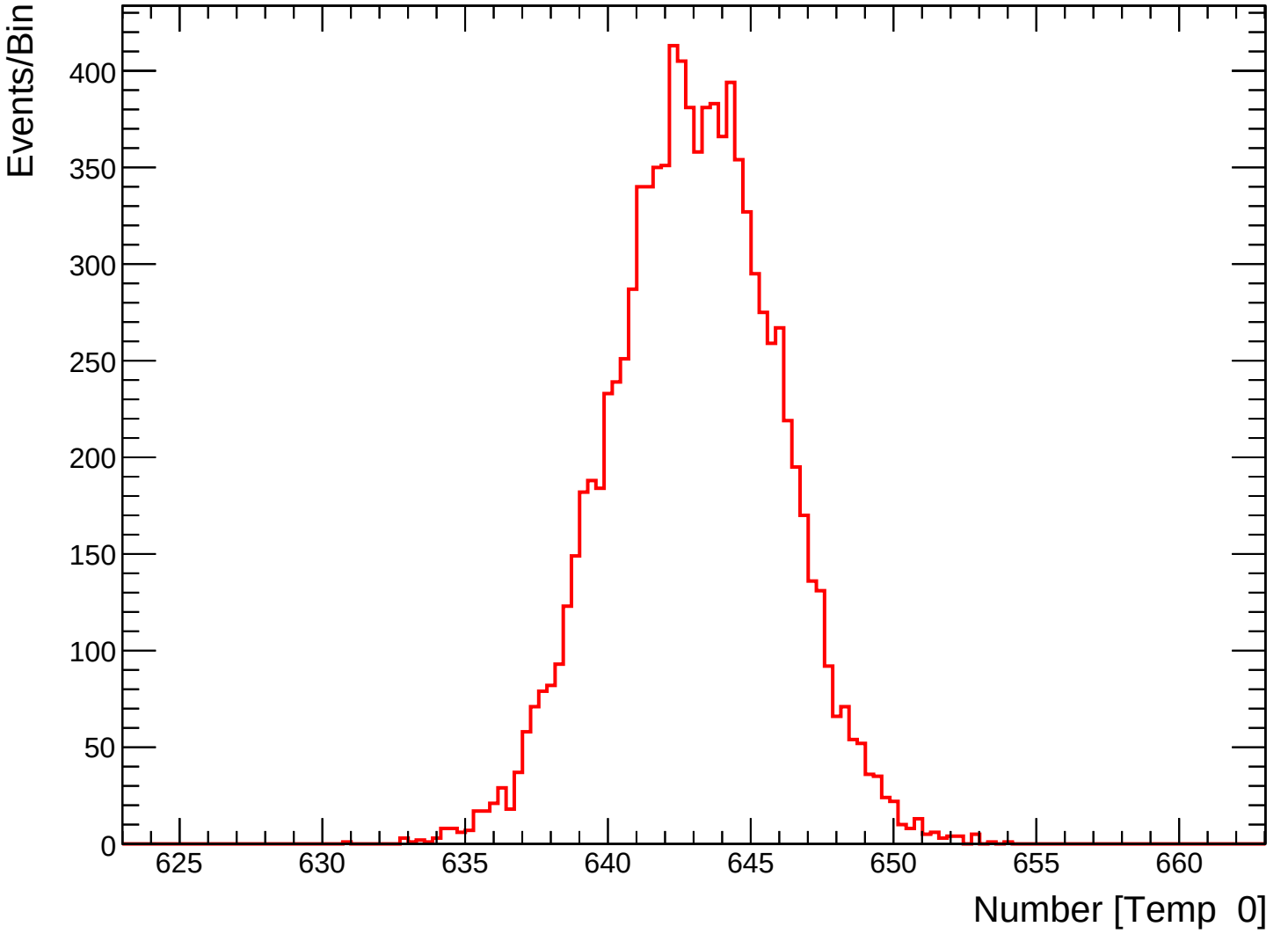

Time 6 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1462.9 ± 40.1)
e⁻+π⁻ (797.4 ± 30.5)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

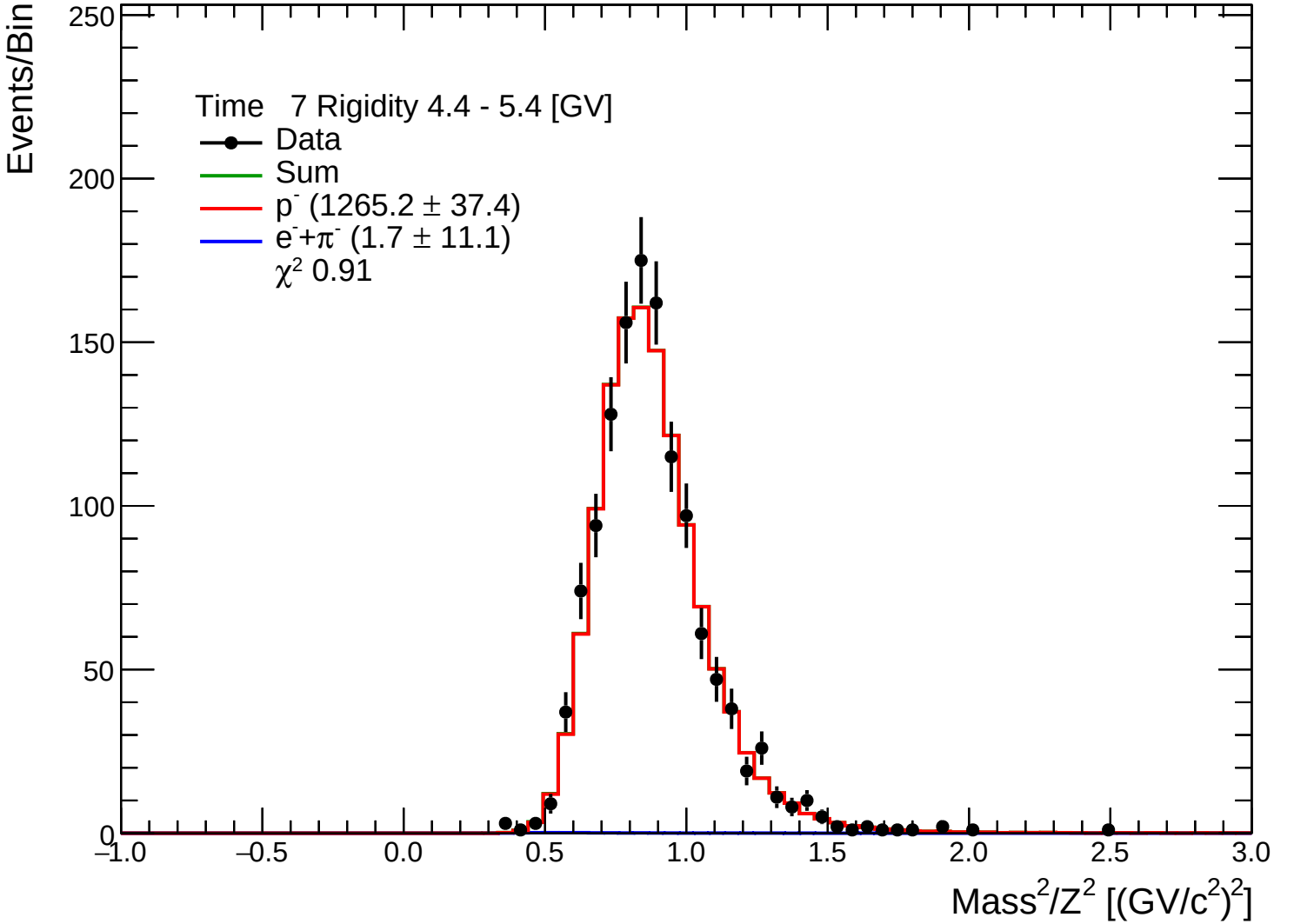

Events/Bin
450
400
350
300
250
200
150
100
50
0
1456
1458
1460
1462
1464
1466
1468
1470
Number [Temp 0]

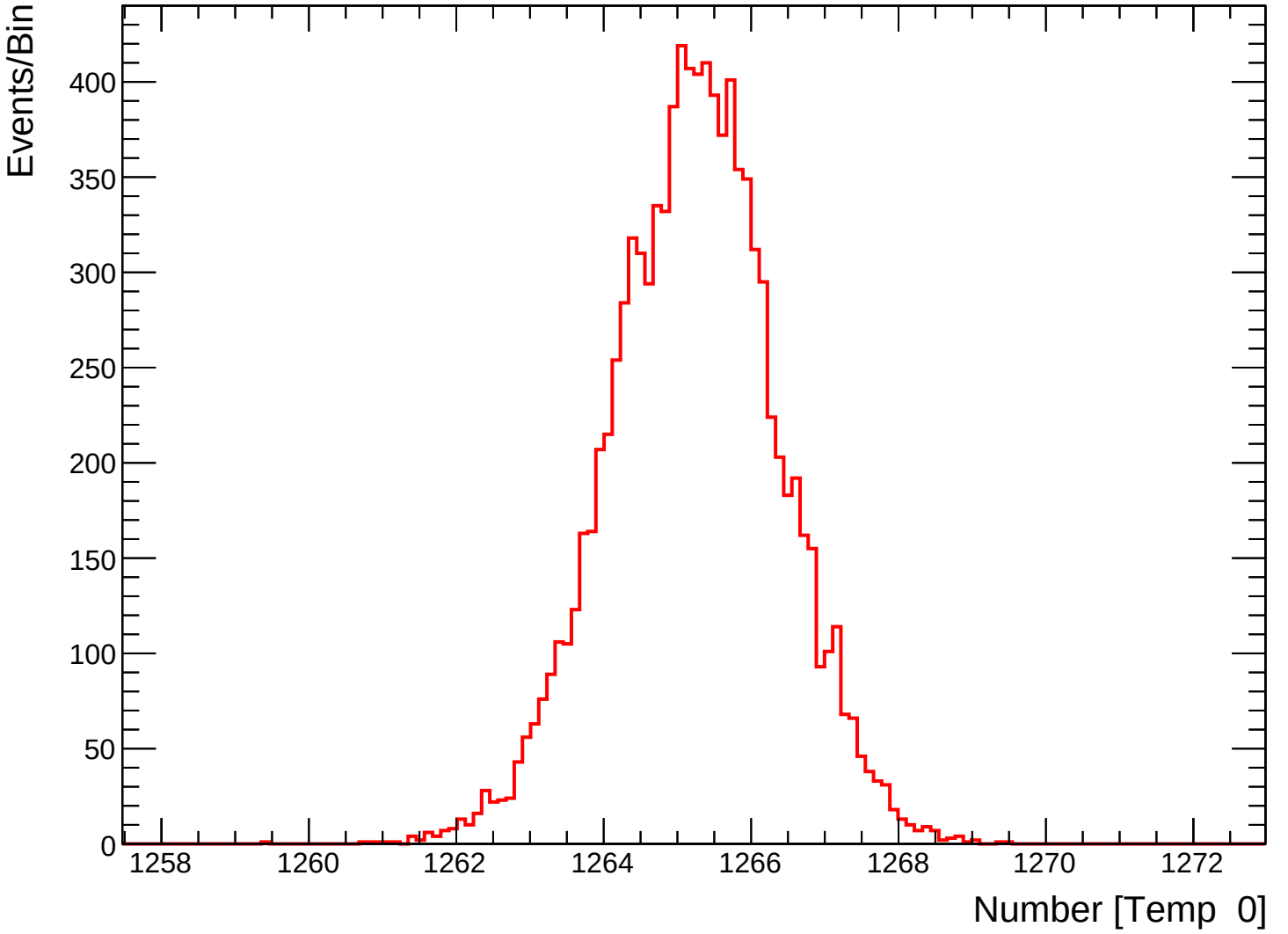

Time 6 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1386.4 ± 40.5)
e⁻+π⁻ (667.6 ± 30.1)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

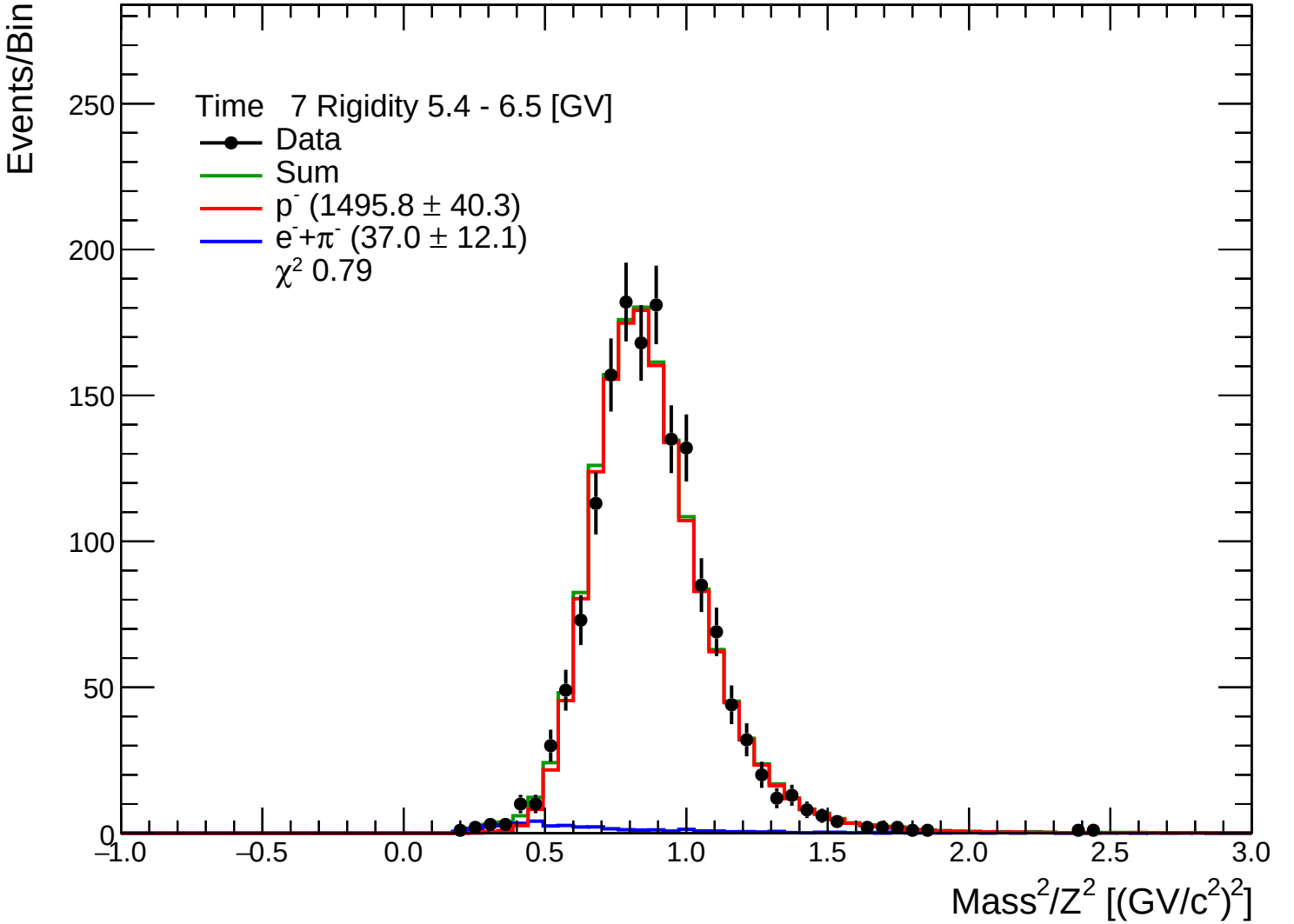

Events/Bin
400
350
300
250
200
150
100
50
0
1378
1380
1382
1384
1386
1388
1390
1392
1394
Number [Temp 0]

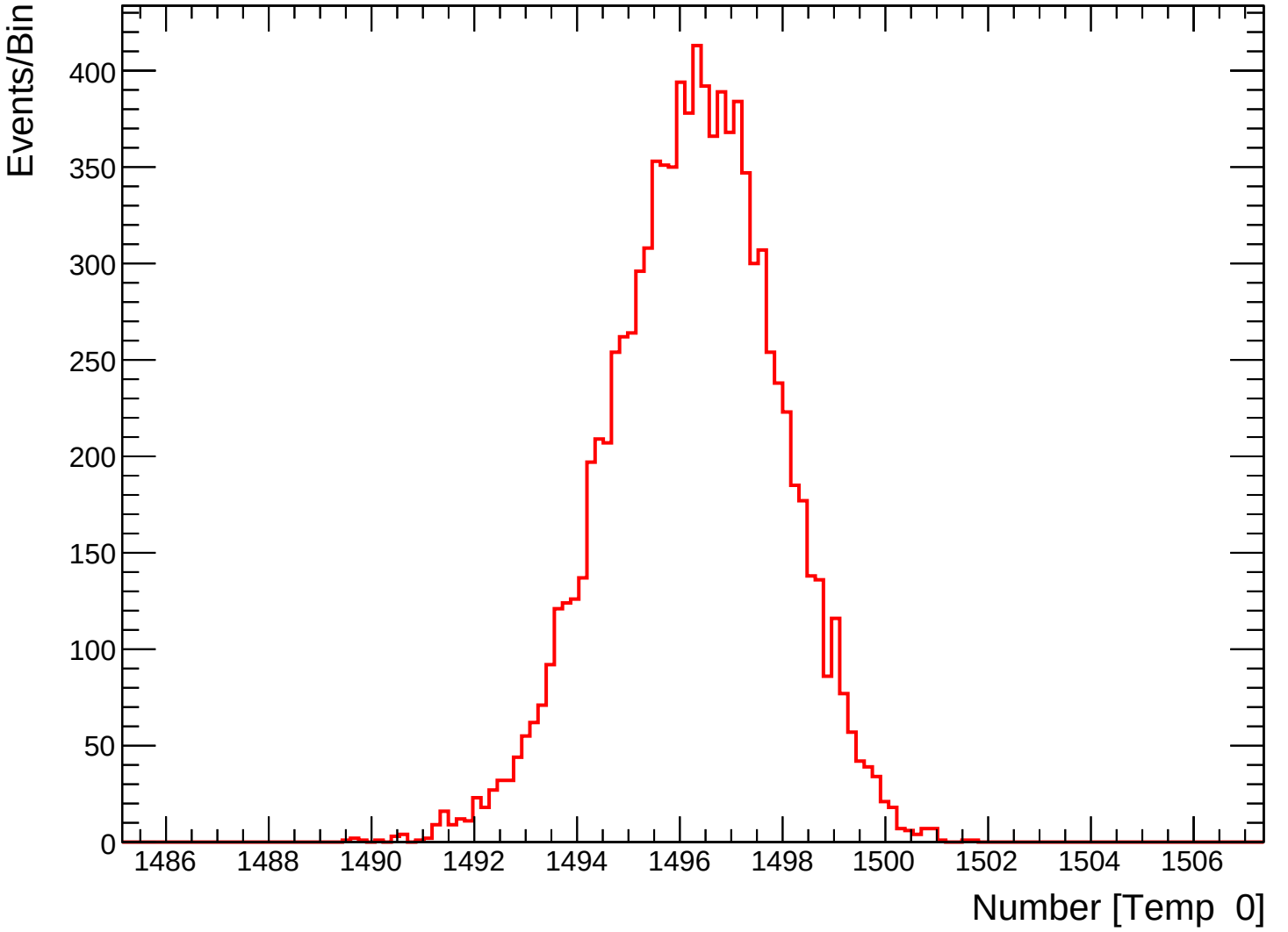

Time 7 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (641.9 ± 29.8)
e⁻+π⁻ (27.4 ± 16.4)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

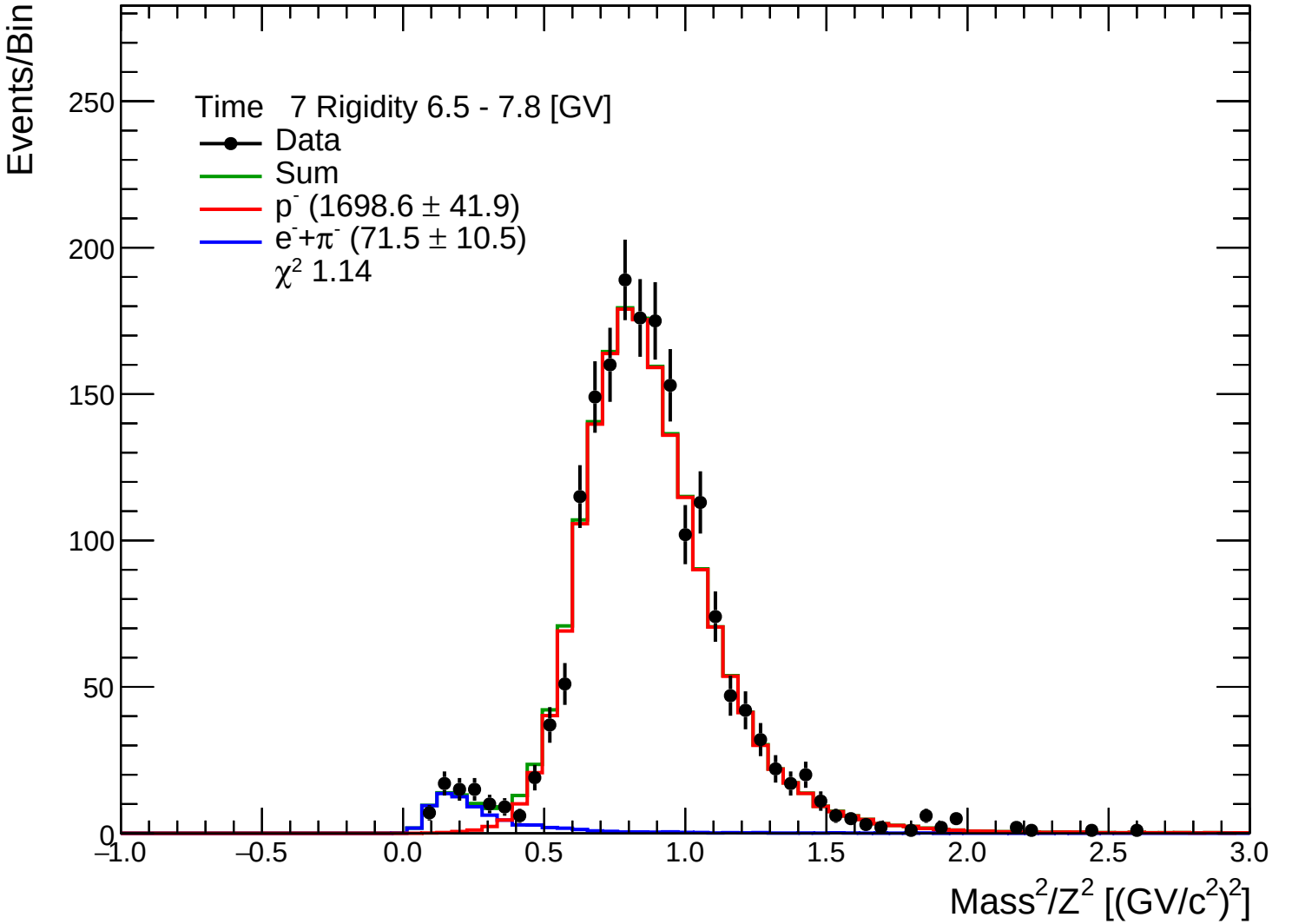

Events/Bin
400
350
300
250
200
150
100
50
0
625
630
635
640
645
650
655
660
Number [Temp 0]

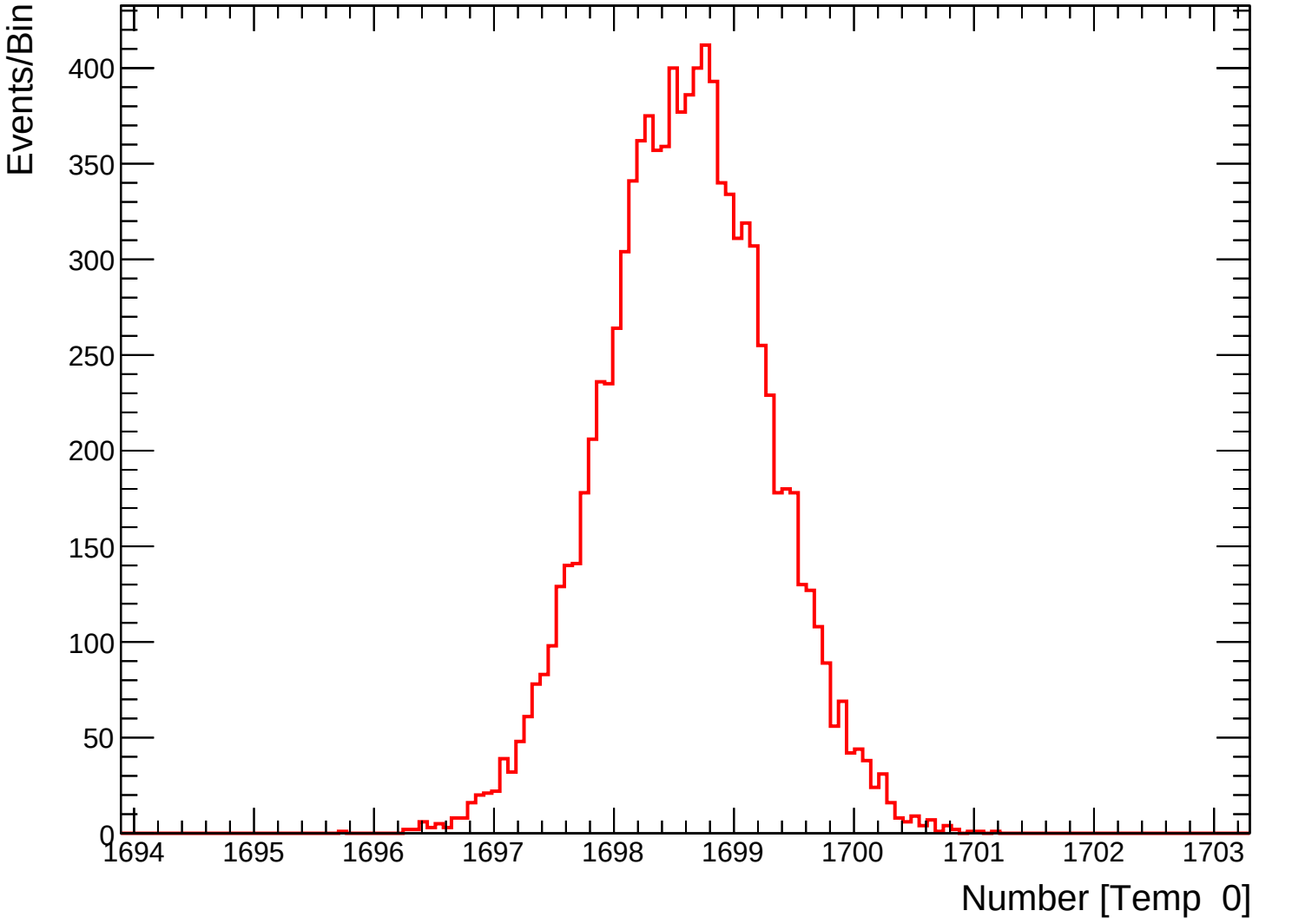

Time 7 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1265.2 ± 37.4)
e⁻+π⁻ (1.7 ± 11.1)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

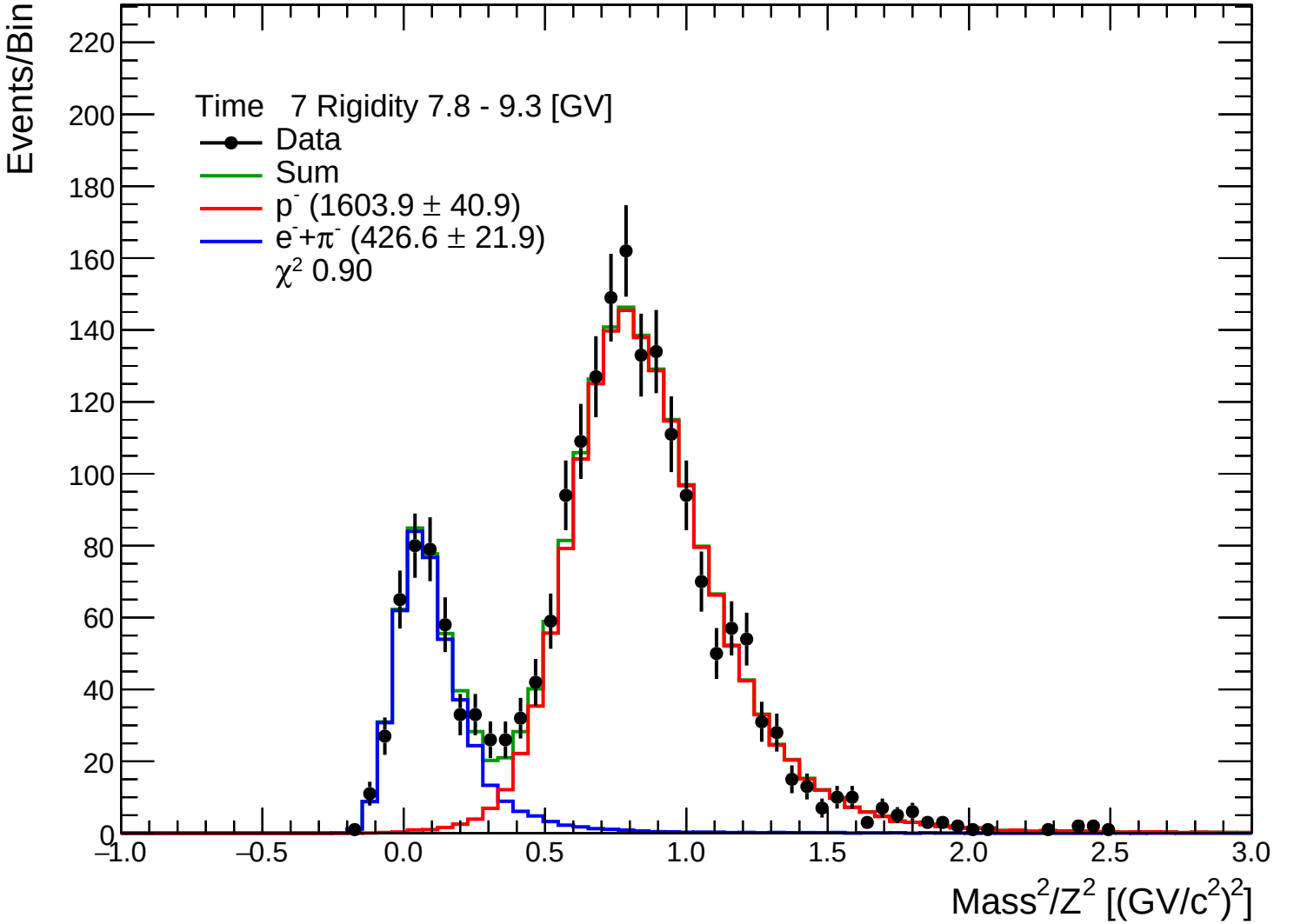

Events/Bin
400
350
300
250
200
150
100
50
0
1258
1260
1262
1264
1266
1268
1270
1272
Number [Temp 0]

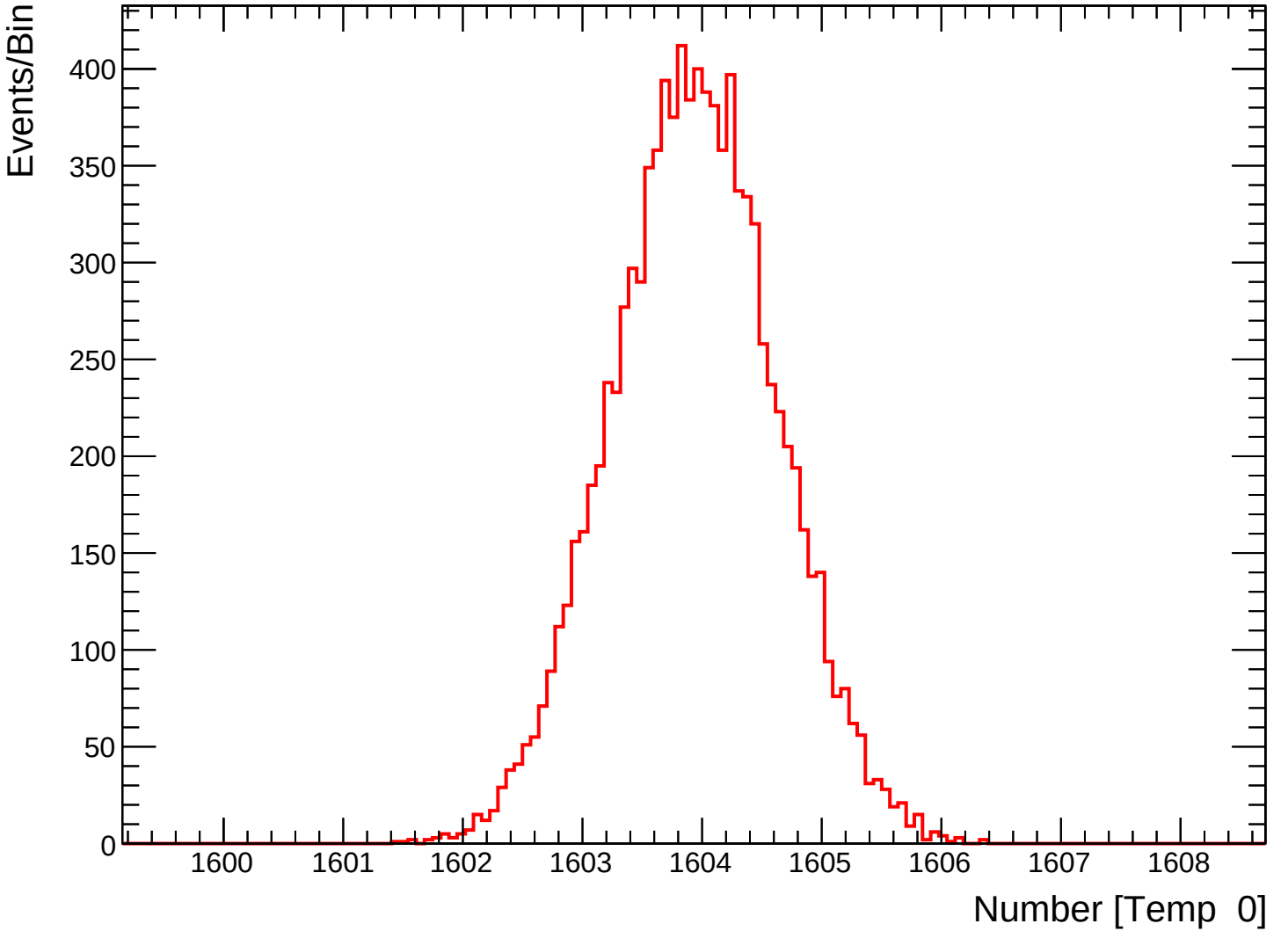

Time 7 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1495.8 ± 40.3)
e⁻+π⁻ (37.0 ± 12.1)
χ² 0.79
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

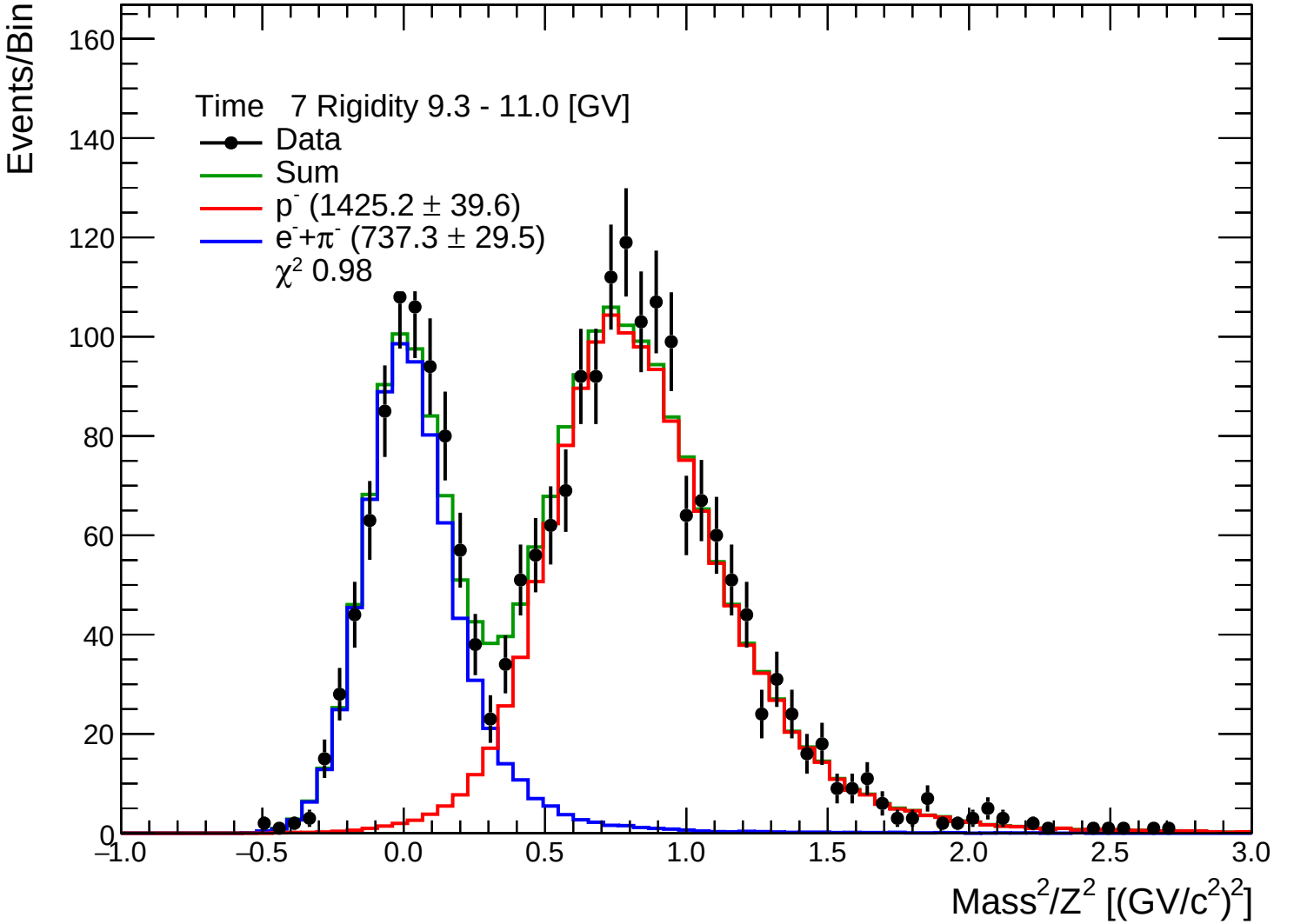

Events/Bin
400
350
300
250
200
150
100
50
0
1486
1488
1490
1492
1494
1496
1498
1500
1502
1504
1506
Number [Temp 0]

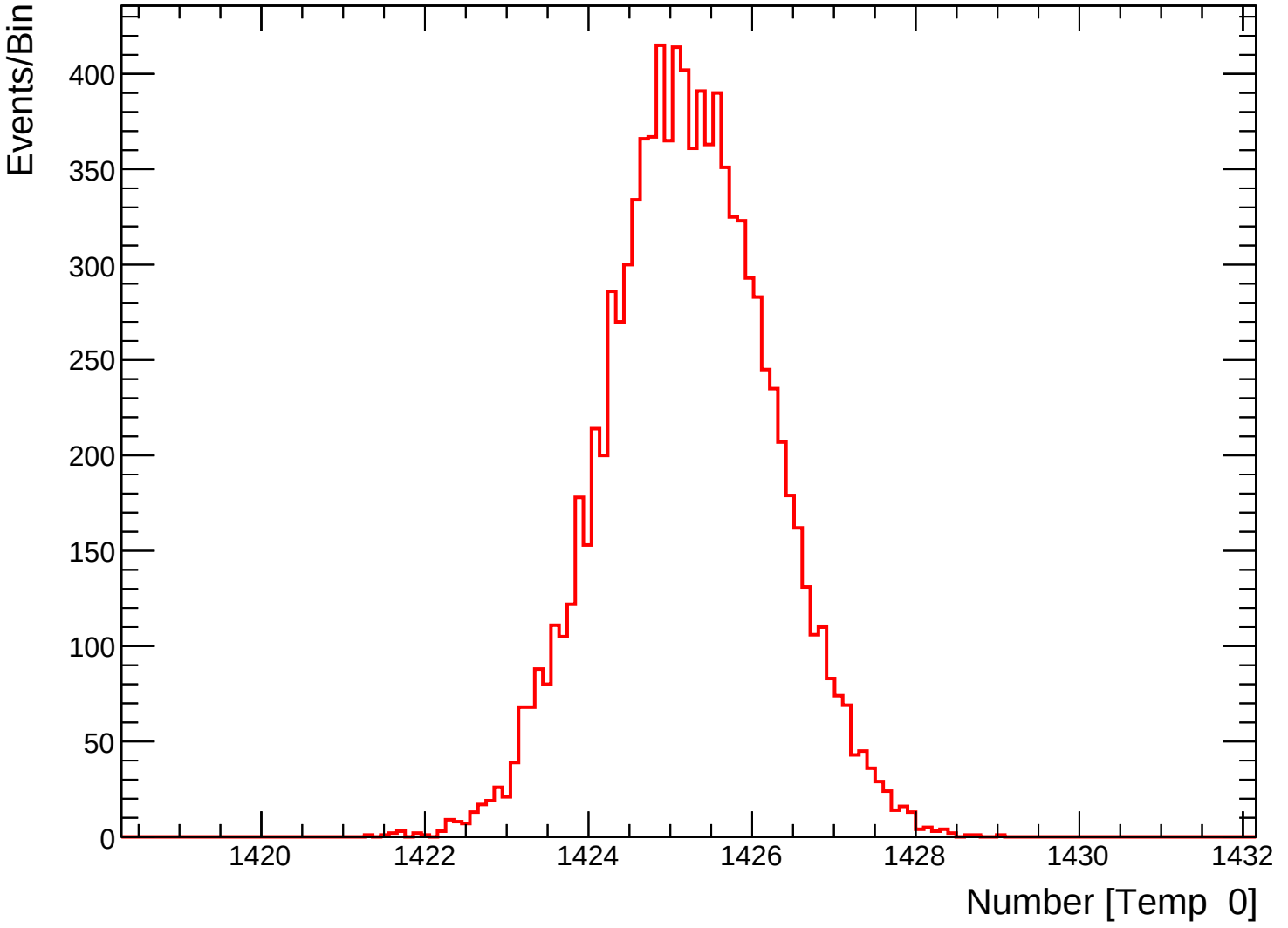

Time 7 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1698.6 ± 41.9)
e⁻+π⁻ (71.5 ± 10.5)
χ² 1.14
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

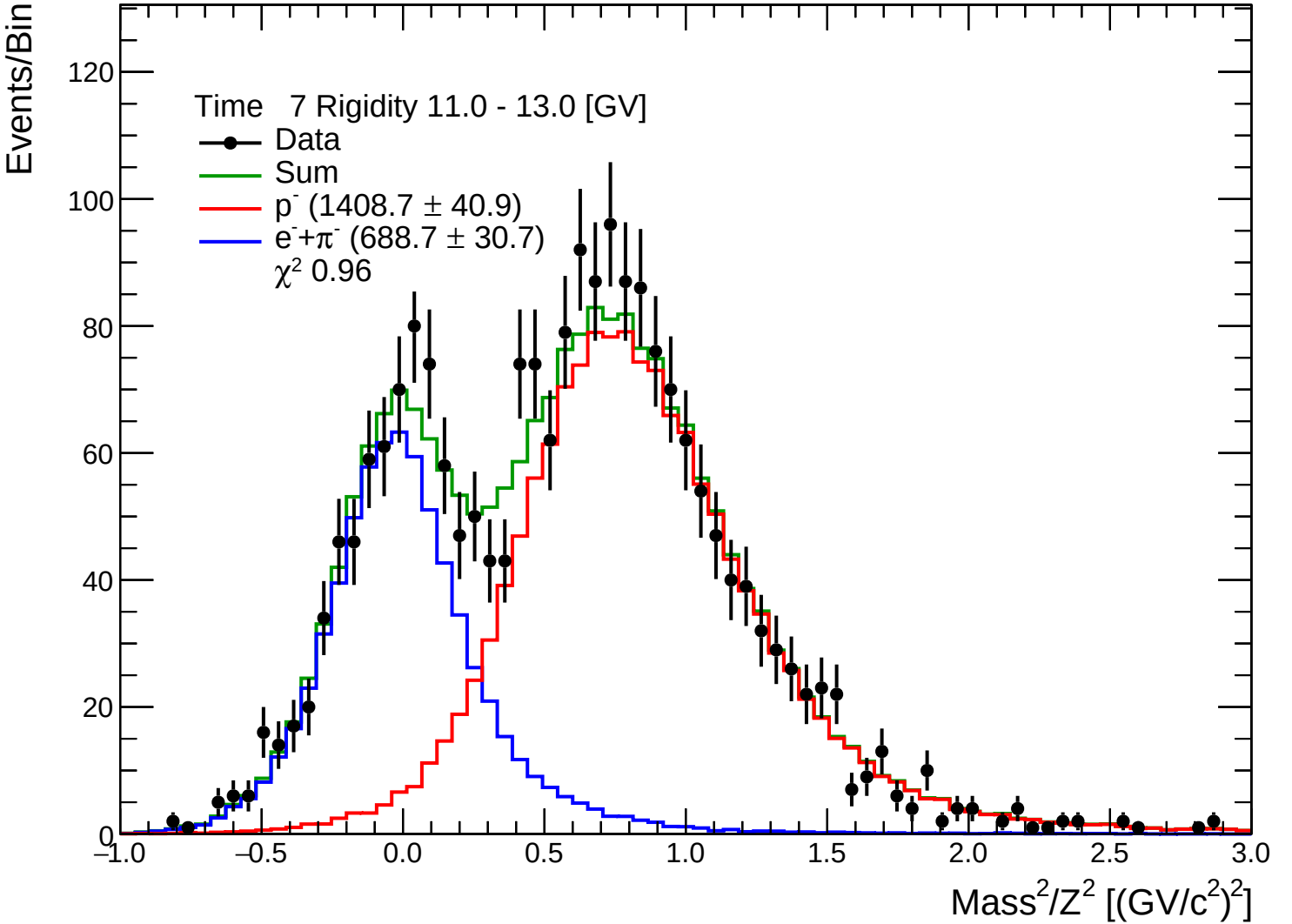

Events/Bin
400
350
300
250
200
150
100
50
0
1694
1695
1696
1697
1698
1699
1700
1701
1702
1703
Number [Temp 0]

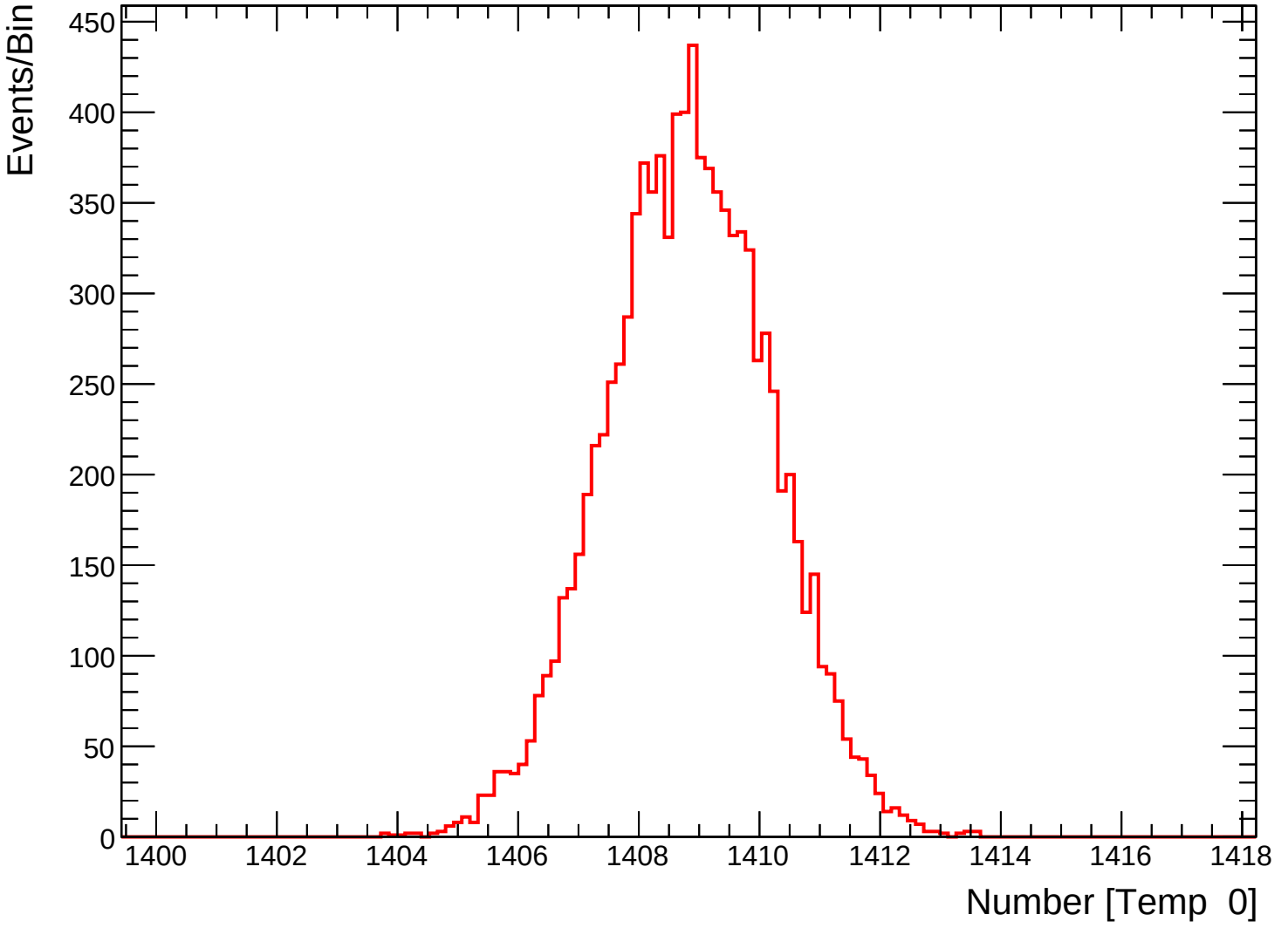

Time 7 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1603.9 ± 40.9)
e⁻+π⁻ (426.6 ± 21.9)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

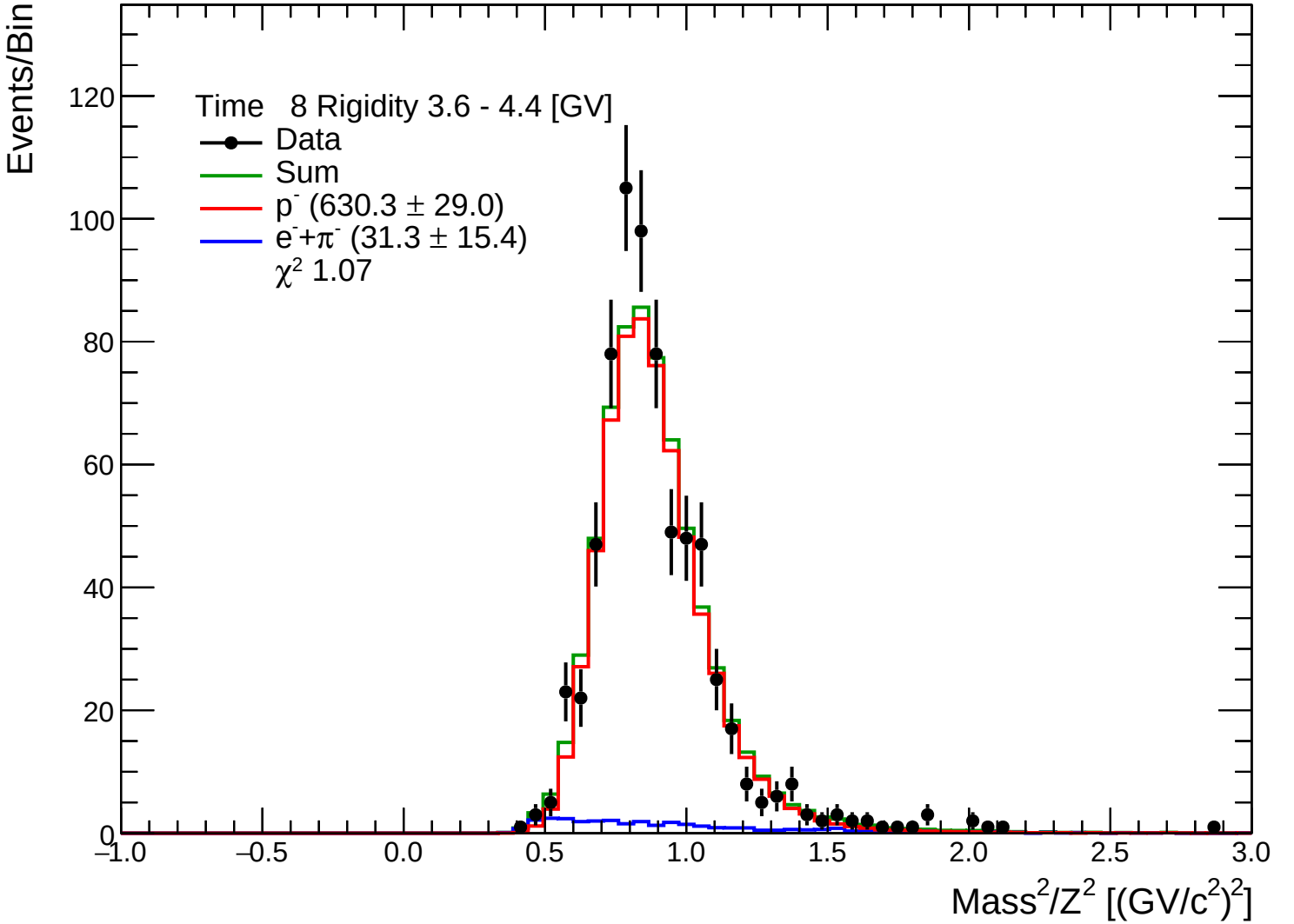

Events/Bin
400
350
300
250
200
150
100
50
0
1600
1601
1602
1603
1604
1605
1606
1607
1608
Number [Temp 0]

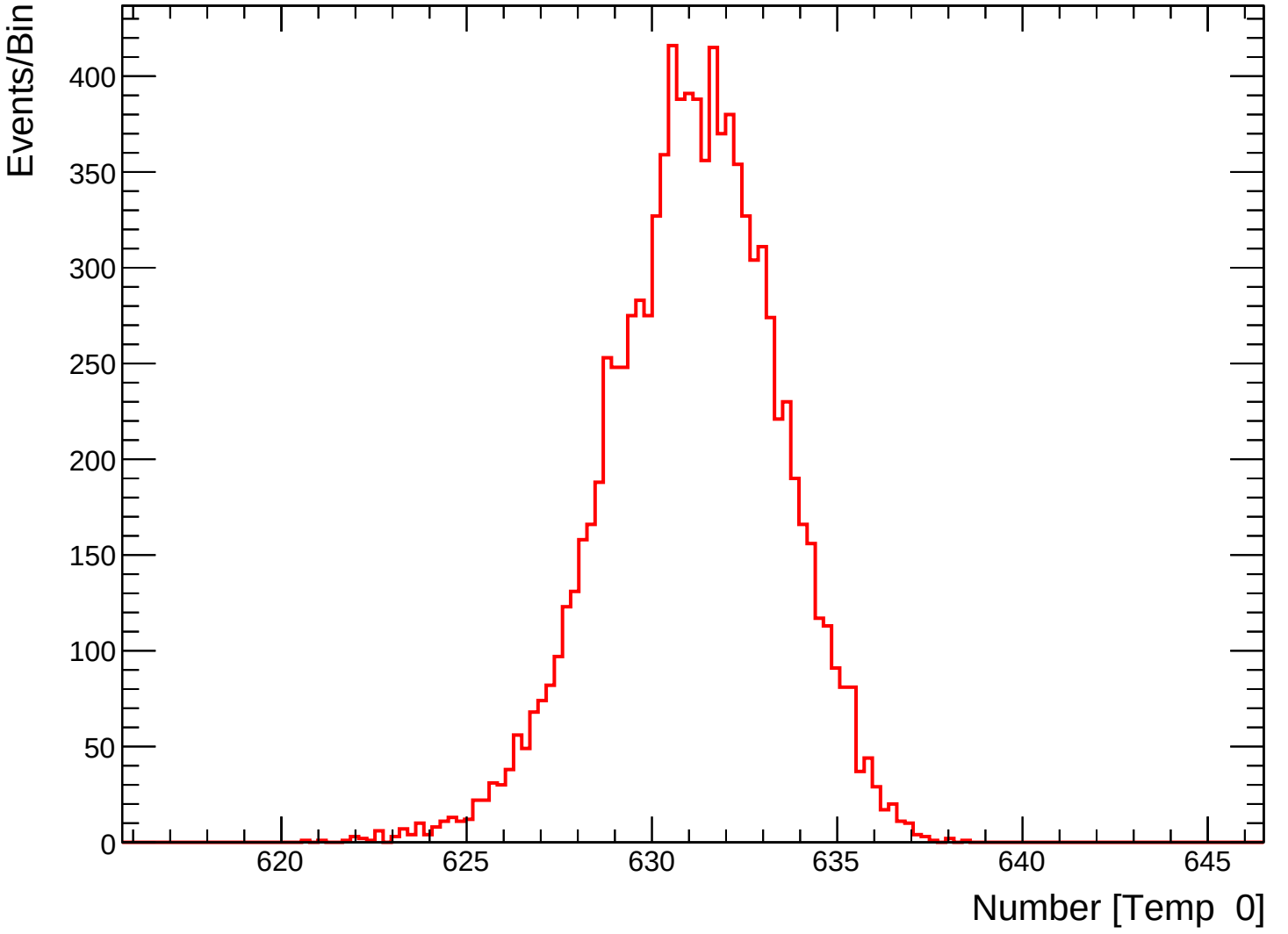

Time 7 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1425.2 ± 39.6)
e⁻+π⁻ (737.3 ± 29.5)
χ² 0.98
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

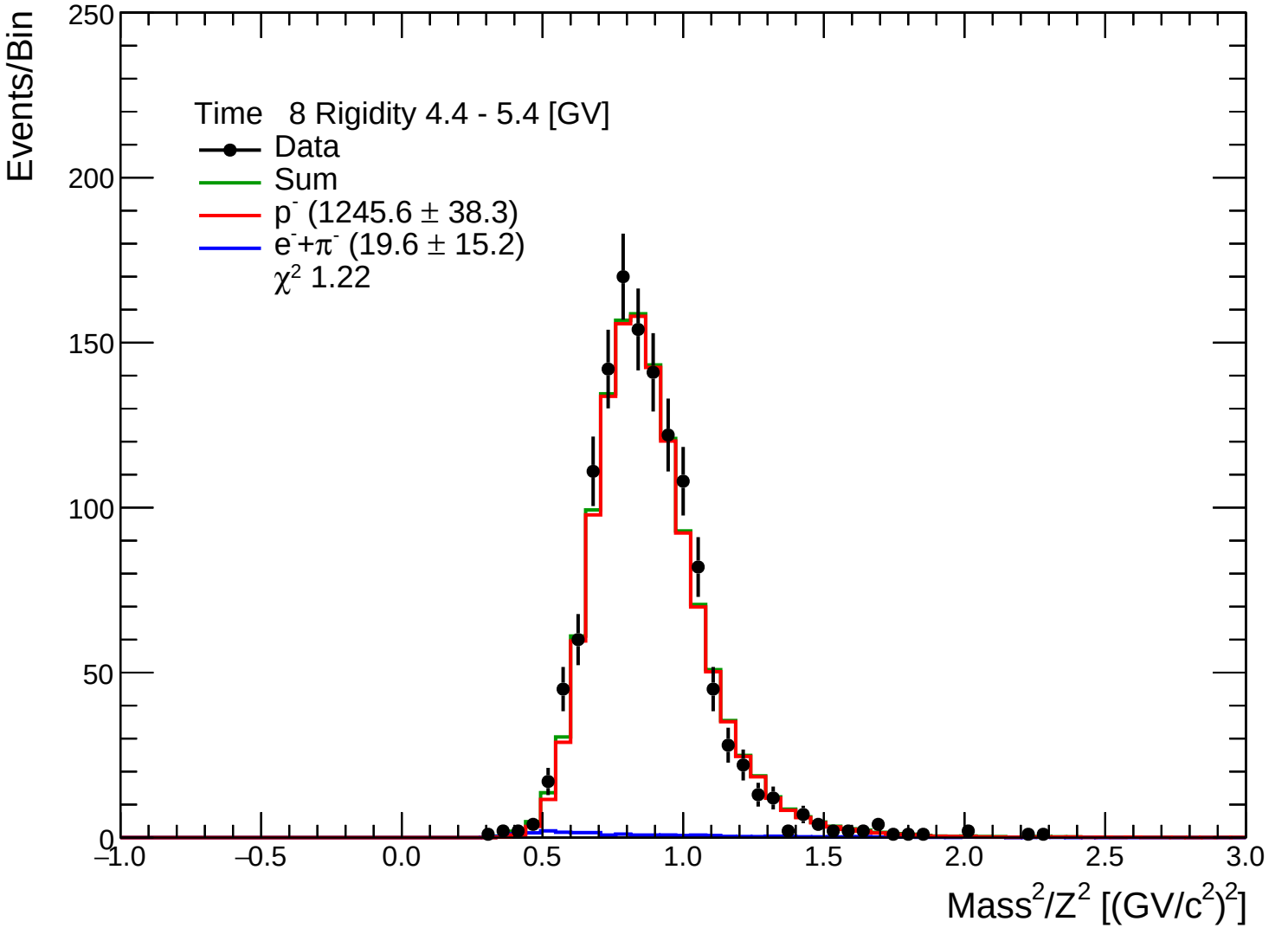

Events/Bin
400
350
300
250
200
150
100
50
0
1420
1422
1424
1426
1428
1430
1432
Number [Temp 0]

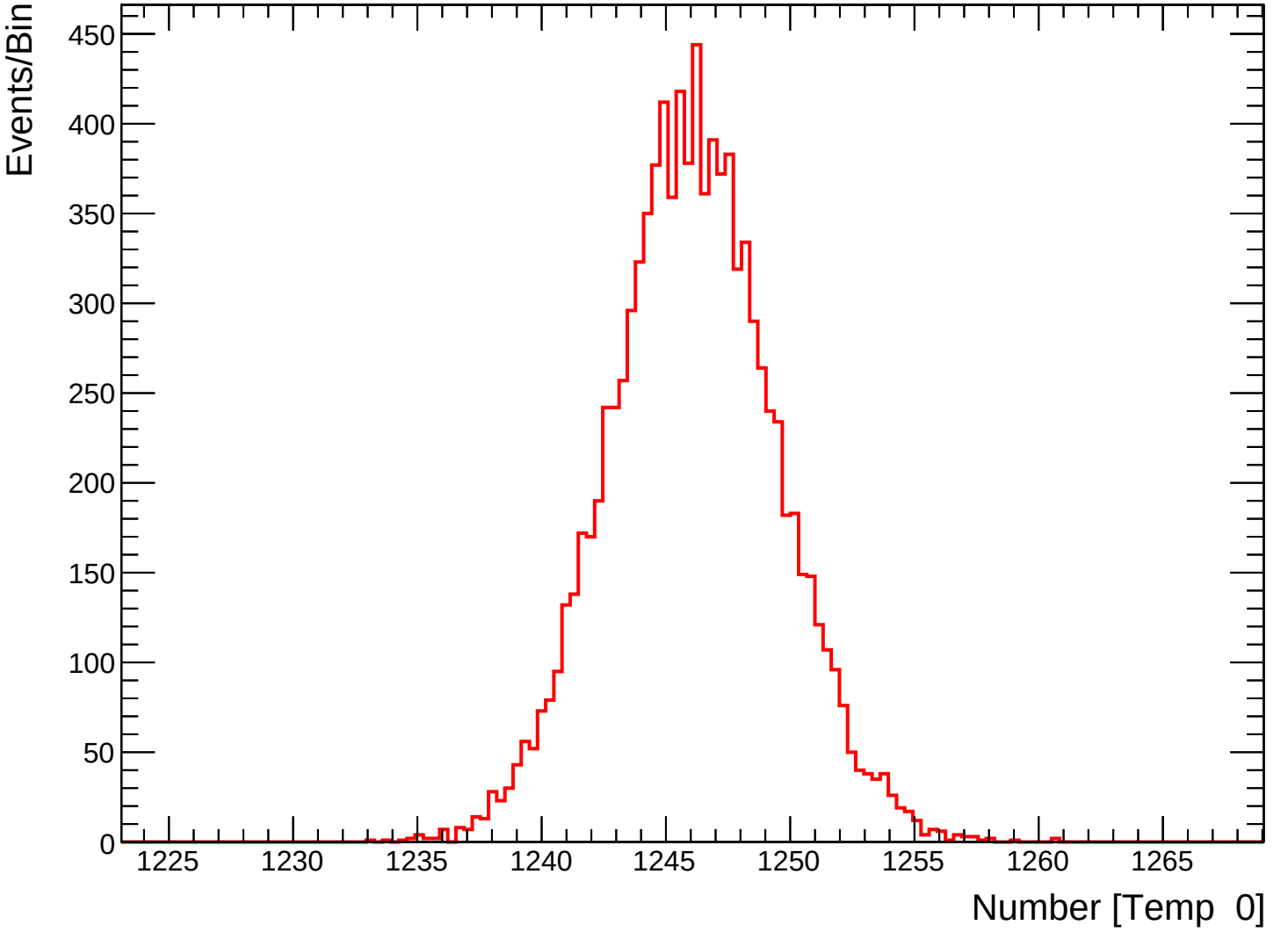

Time 7 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1408.7 ± 40.9)
e⁻+π⁻ (688.7 ± 30.7)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

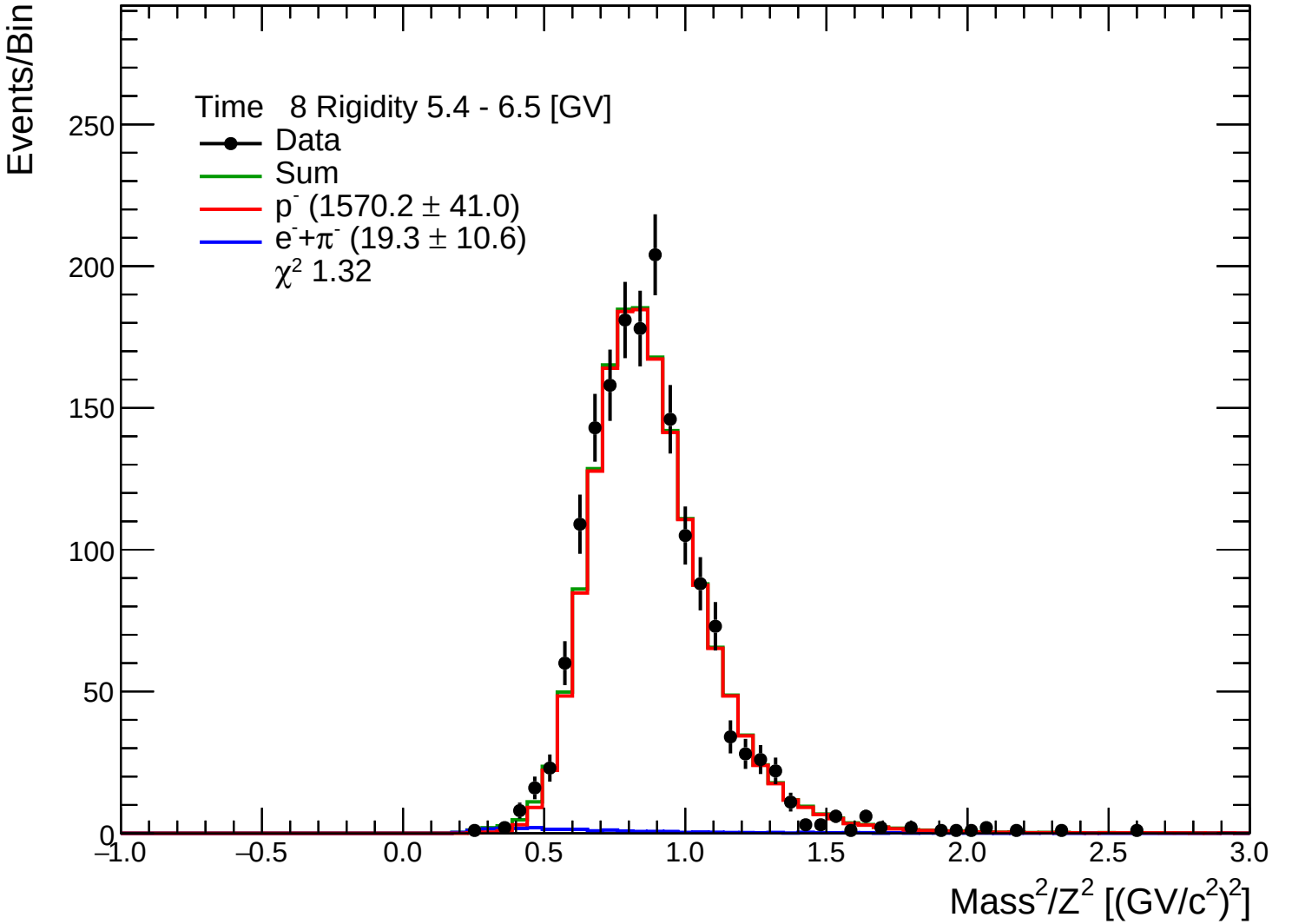

Events/Bin
450
400
350
300
250
200
150
100
50
0
1400
1402
1404
1406
1408
1410
1412
1414
1416
1418
Number [Temp 0]

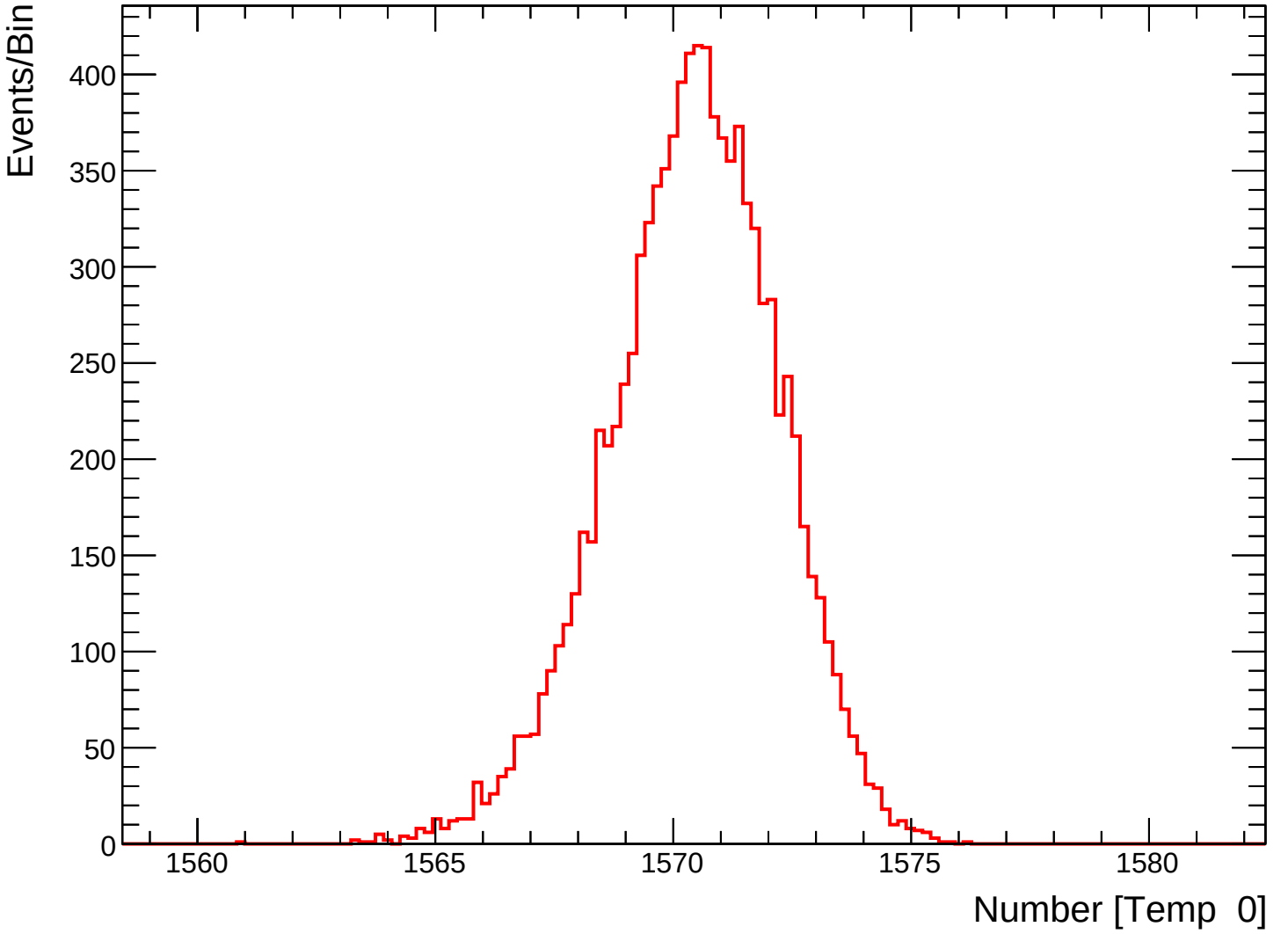

Time 8 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (630.3 ± 29.0)
e⁻+π⁻ (31.3 ± 15.4)
χ² 1.07
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

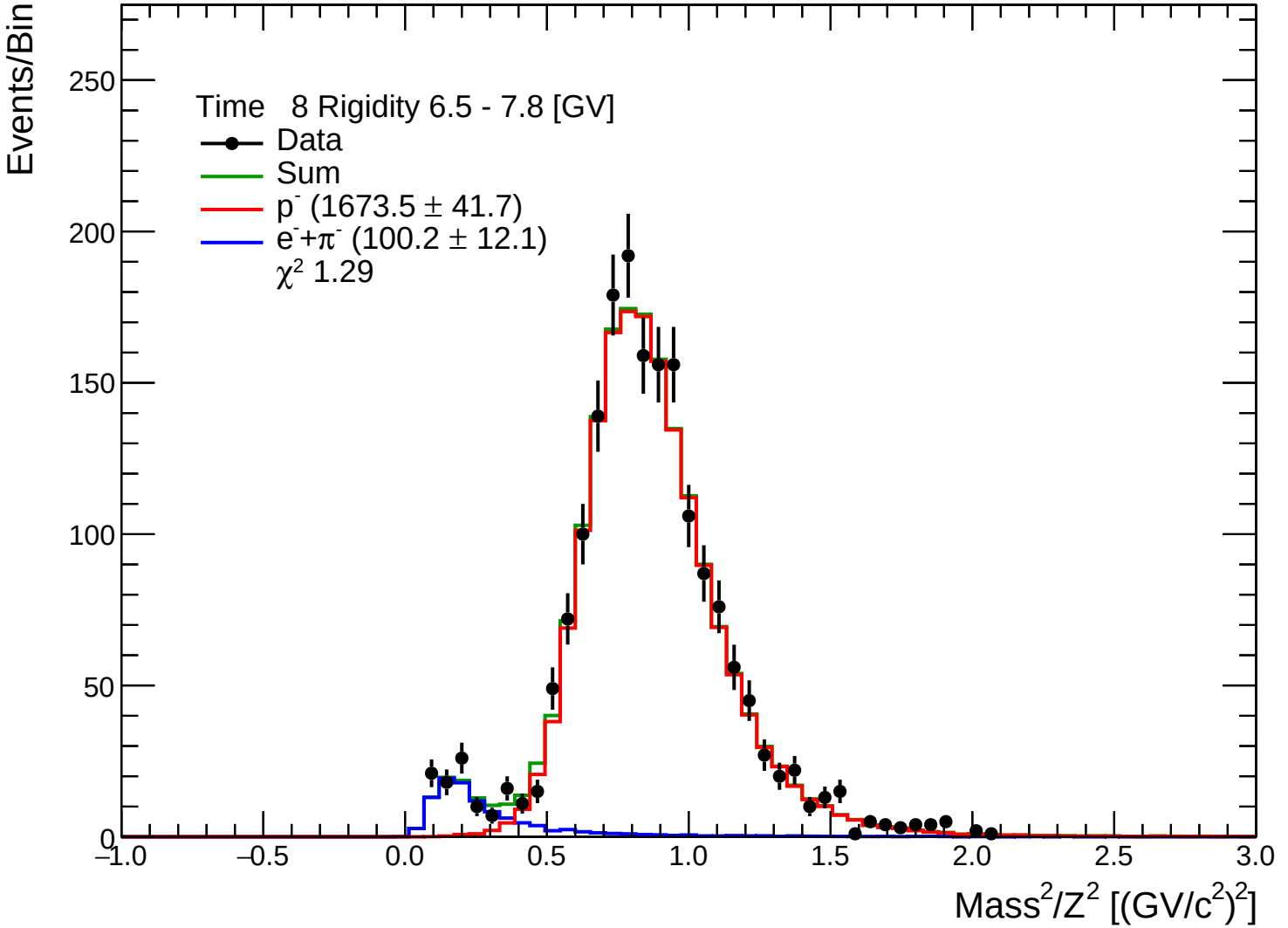

Events/Bin
400
350
300
250
200
150
100
50
0
620
625
630
635
640
645
Number [Temp 0]

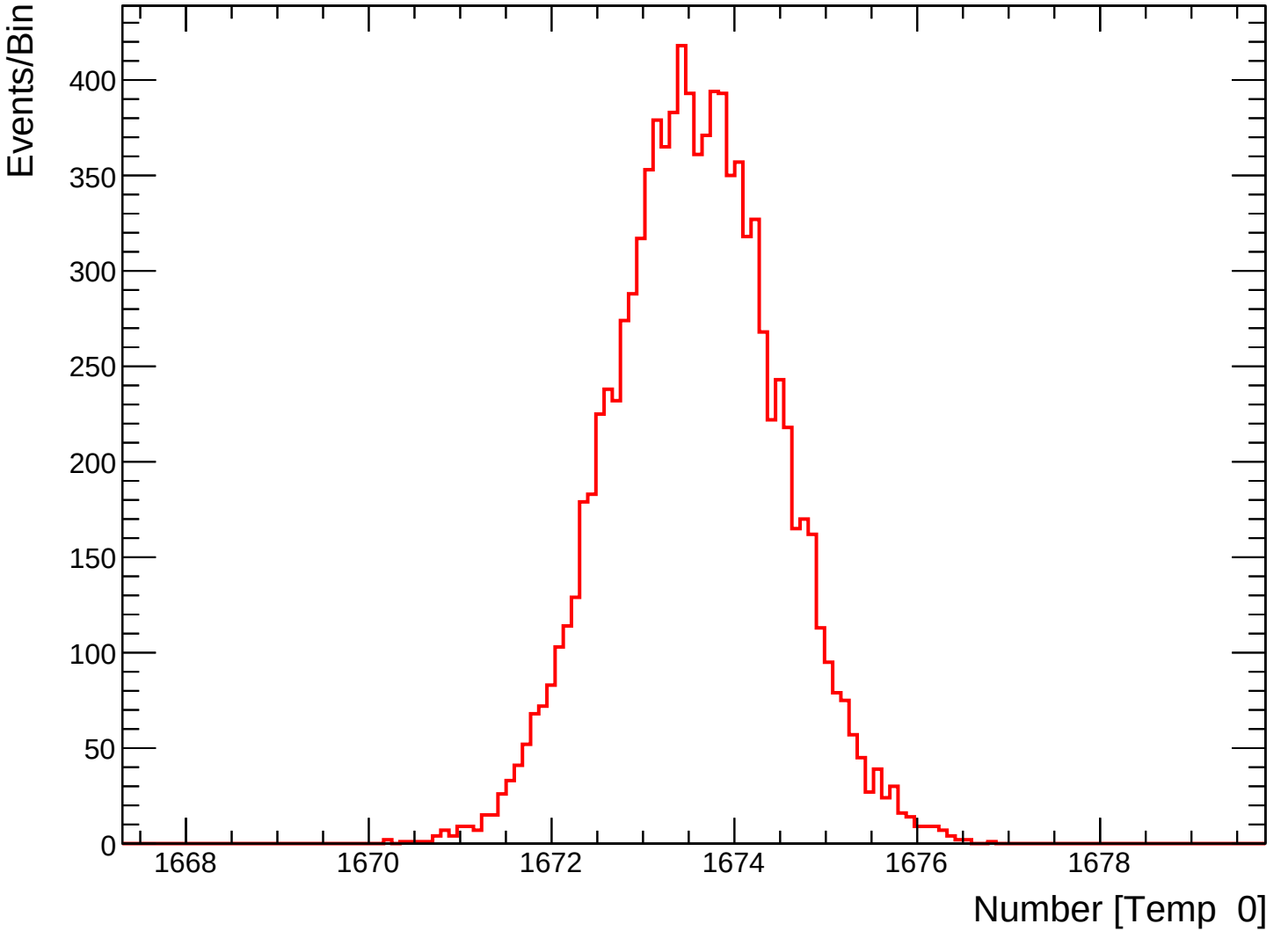

Time 8 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1245.6 ± 38.3)
e⁻+π⁻ (19.6 ± 15.2)
χ² 1.22
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

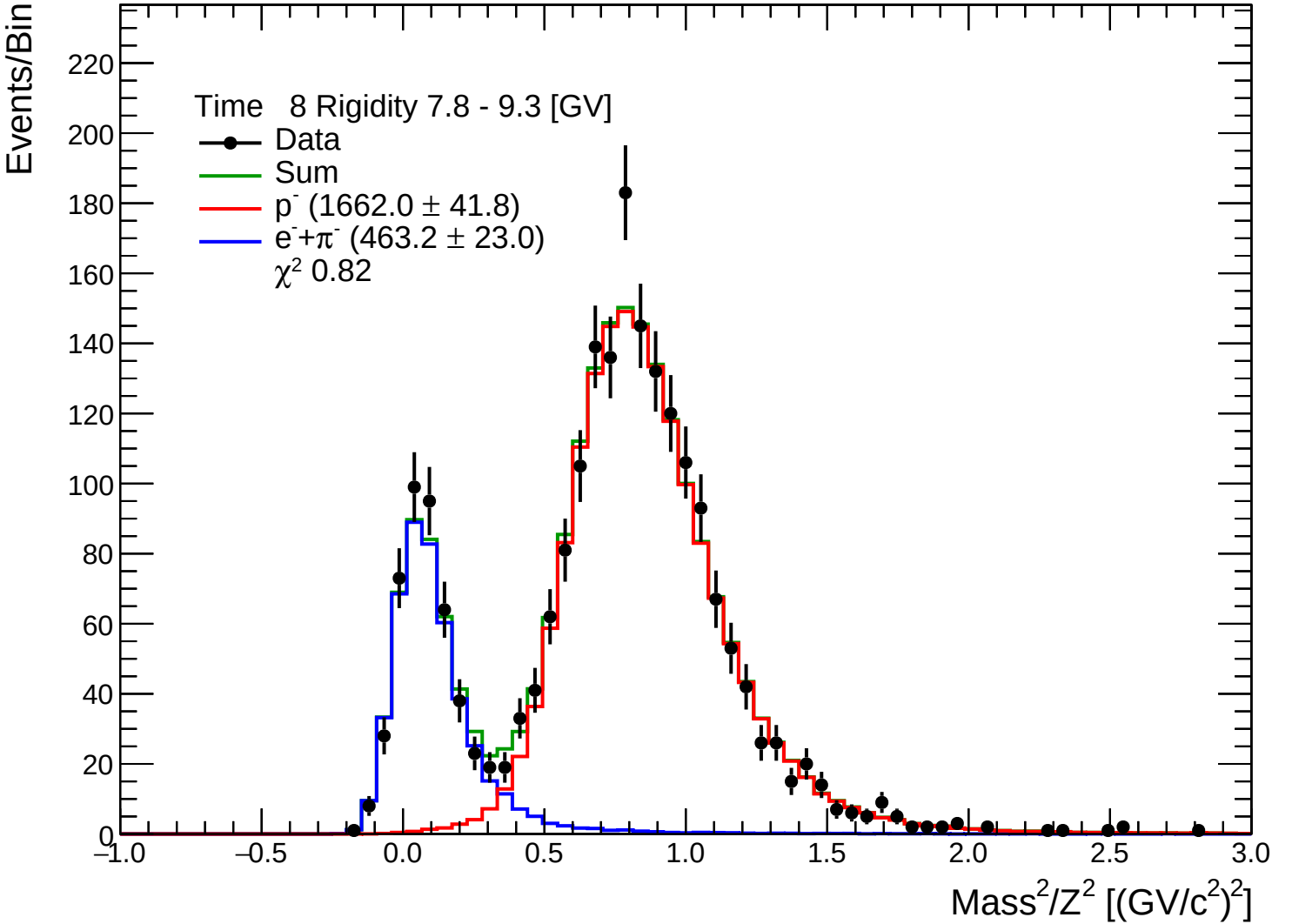

Events/Bin
450
400
350
300
250
200
150
100
50
0
1225
1230
1235
1240
1245
1250
1255
1260
1265
Number [Temp 0]

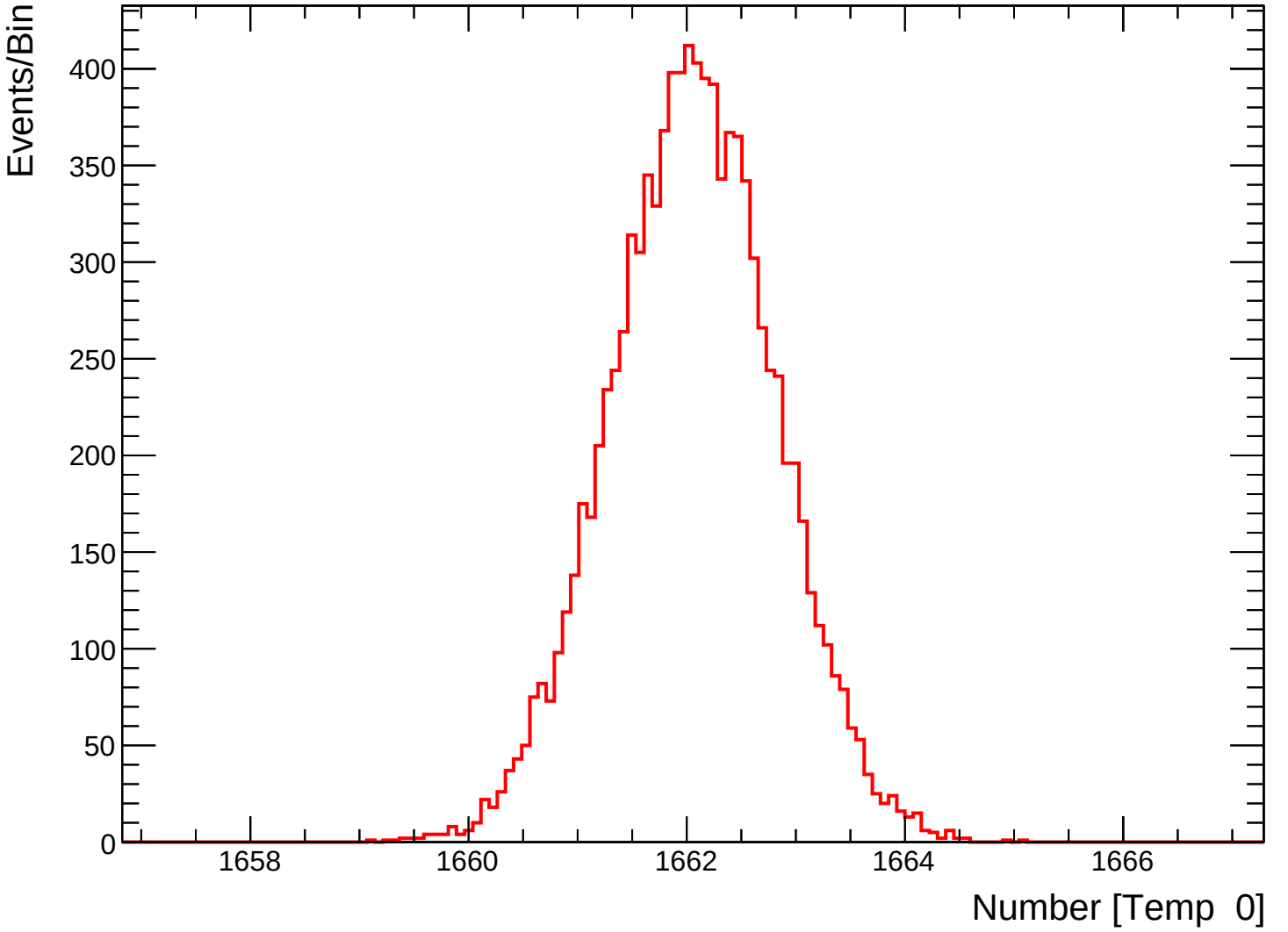

Time 8 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1570.2 ± 41.0)
e⁻+π⁻ (19.3 ± 10.6)
χ² 1.32
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

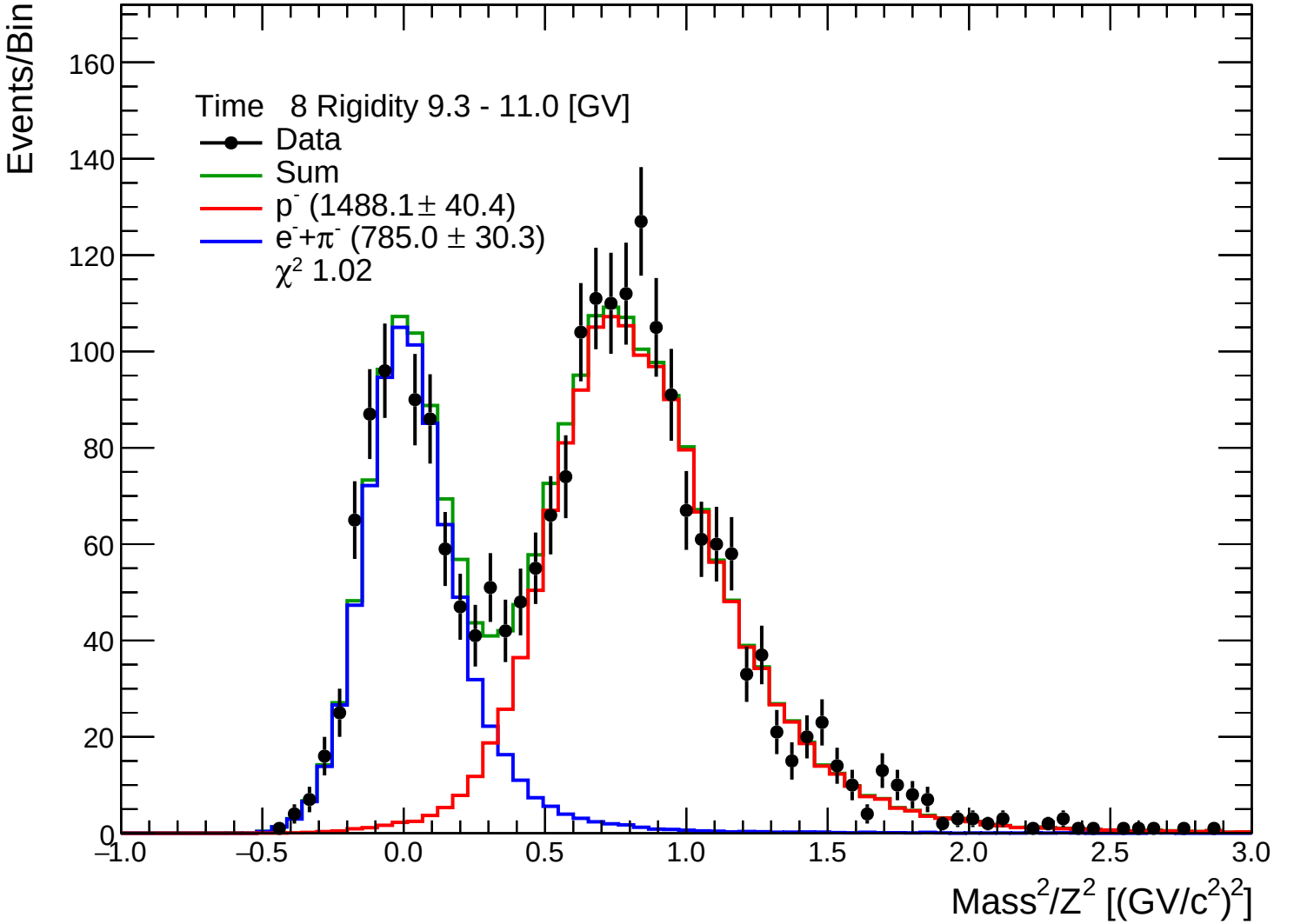

Events/Bin
400
350
300
250
200
150
100
50
0
1560
1565
1570
1575
1580
Number [Temp 0]

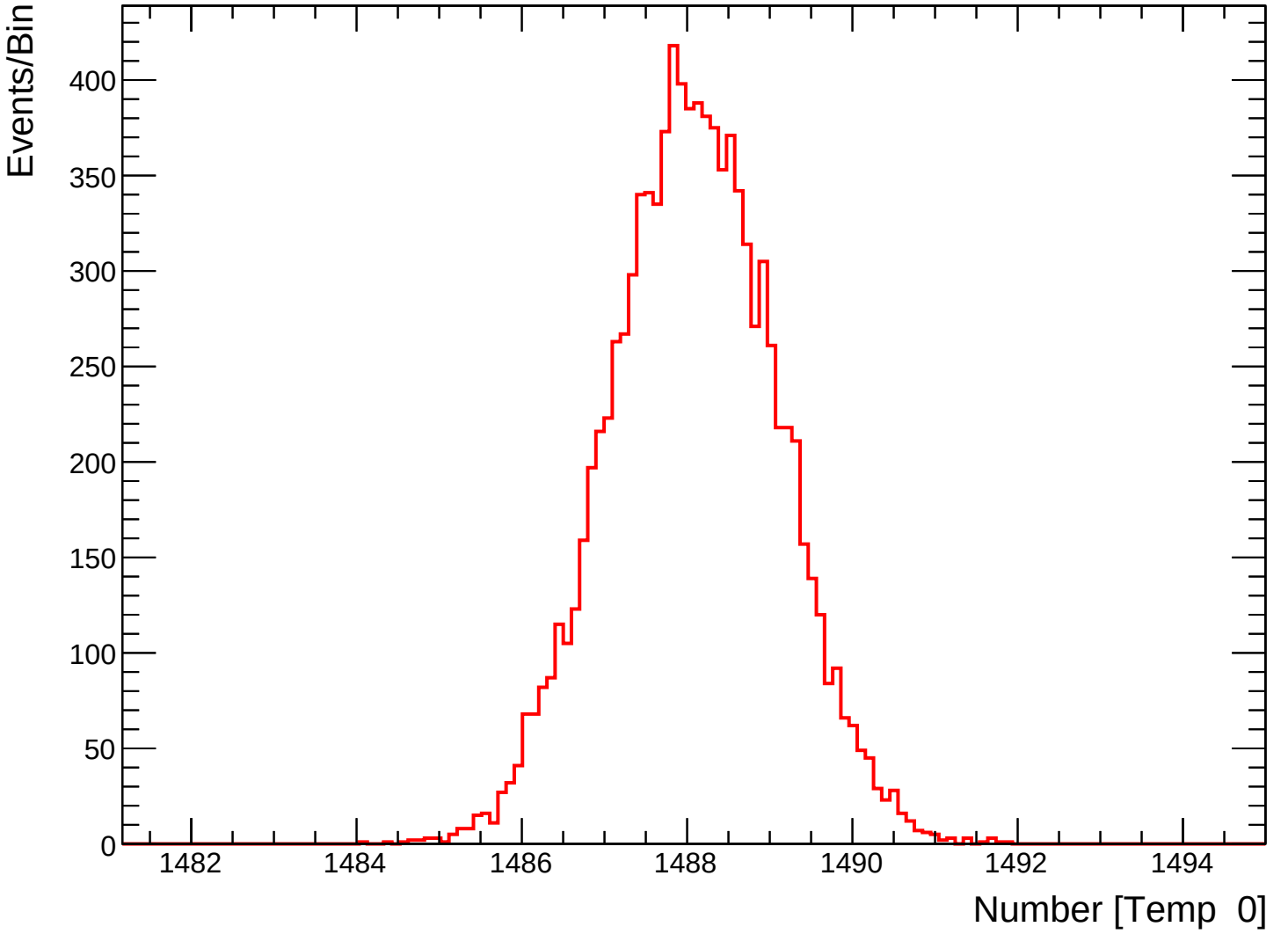

Time 8 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1673.5 ± 41.7)
e⁻+π⁻ (100.2 ± 12.1)
χ² 1.29
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

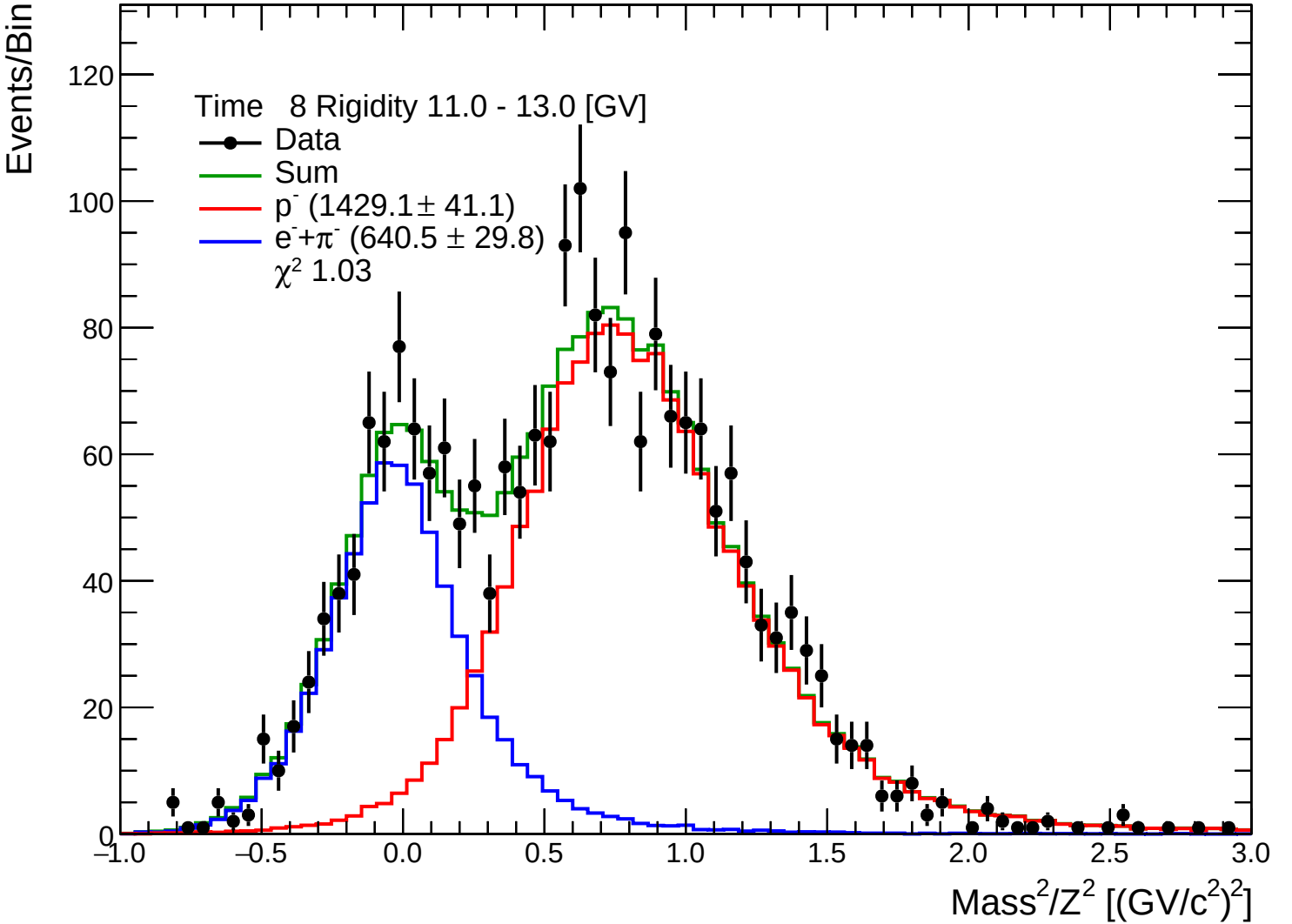

Events/Bin
400
350
300
250
200
150
100
50
0
1668
1670
1672
1674
1676
1678
Number [Temp 0]

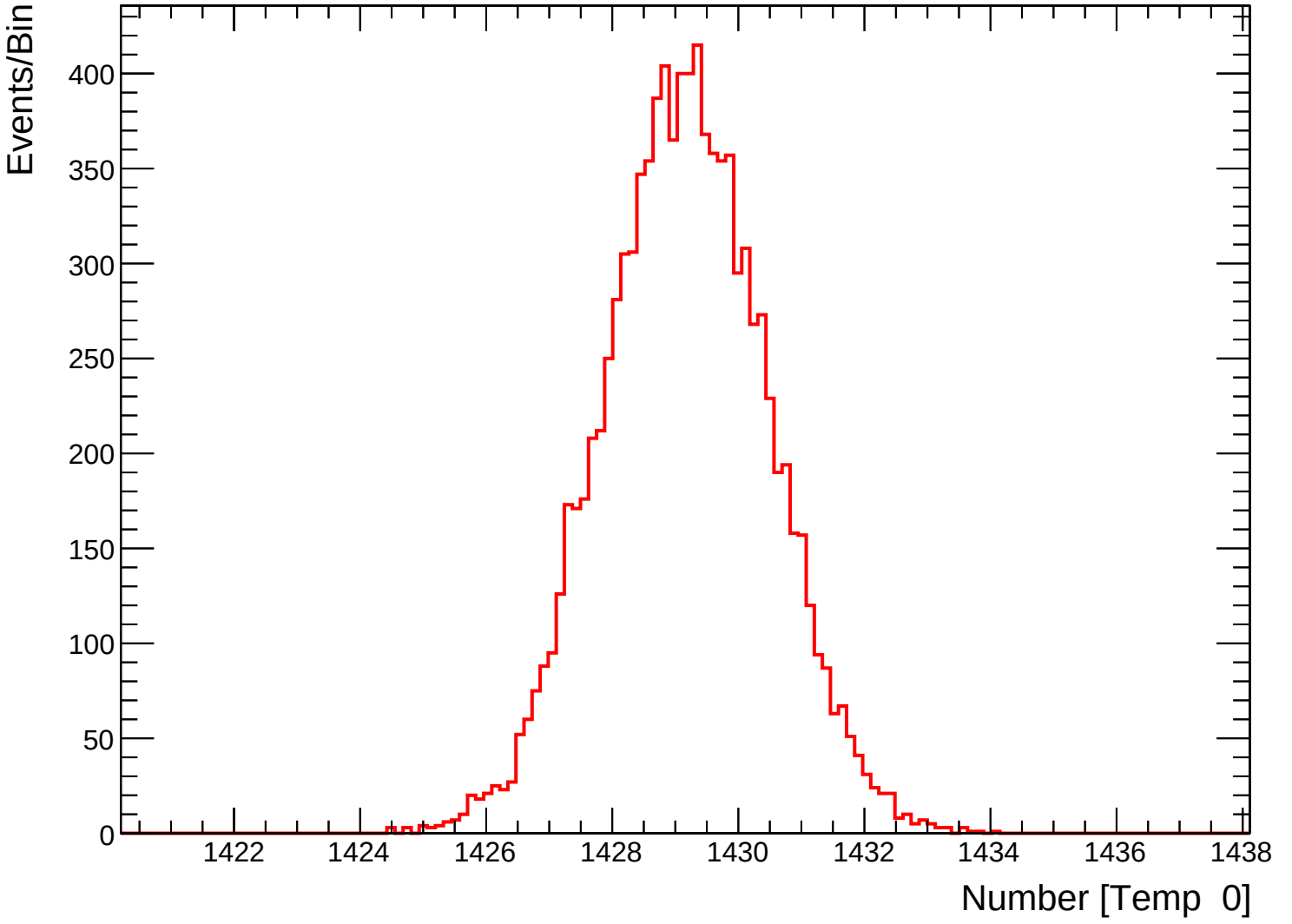

Time 8 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1662.0 ± 41.8)
e⁻+π⁻ (463.2 ± 23.0)
χ² 0.82
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

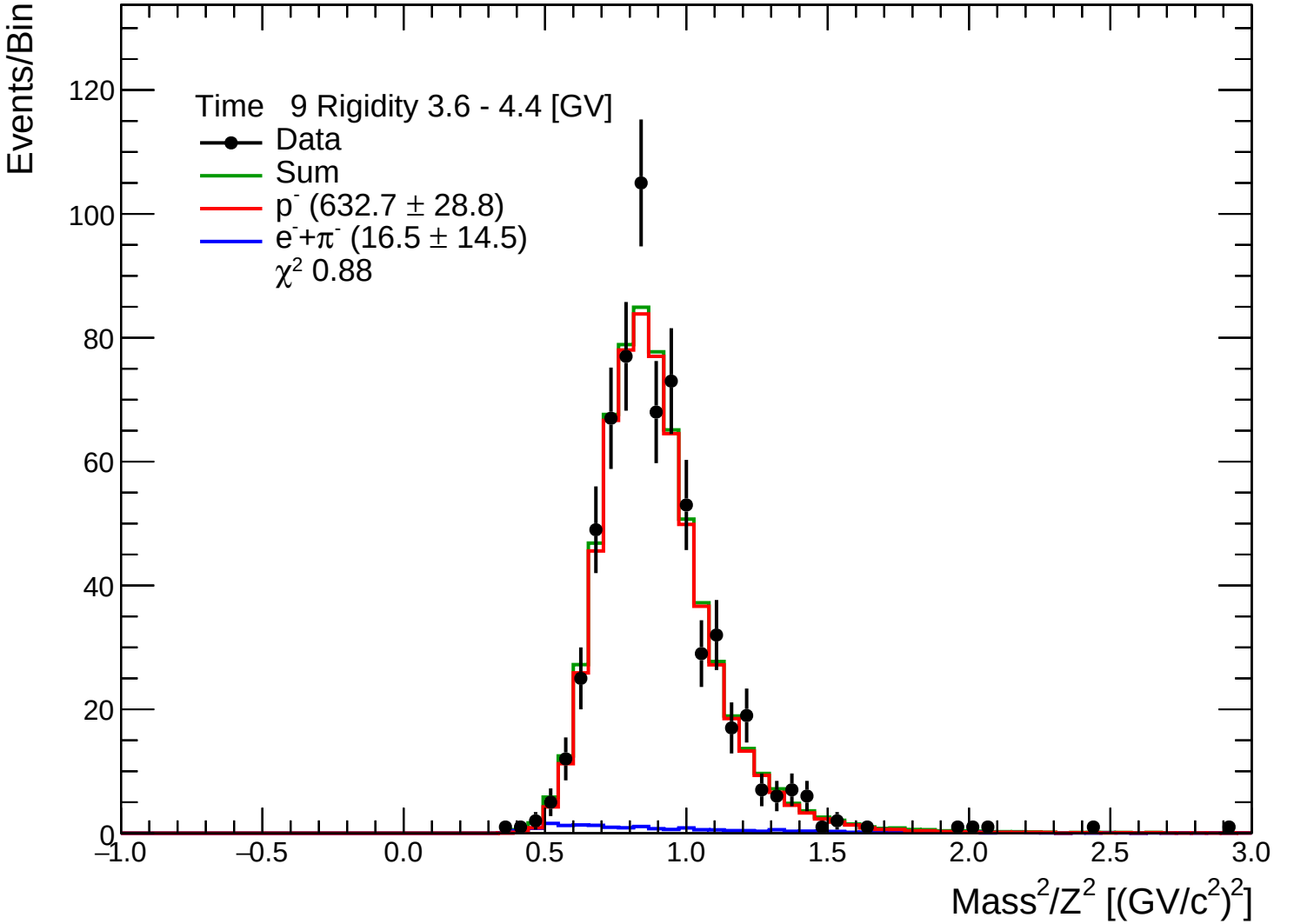

Events/Bin
400
350
300
250
200
150
100
50
0
1658
1660
1662
1664
1666
Number [Temp 0]

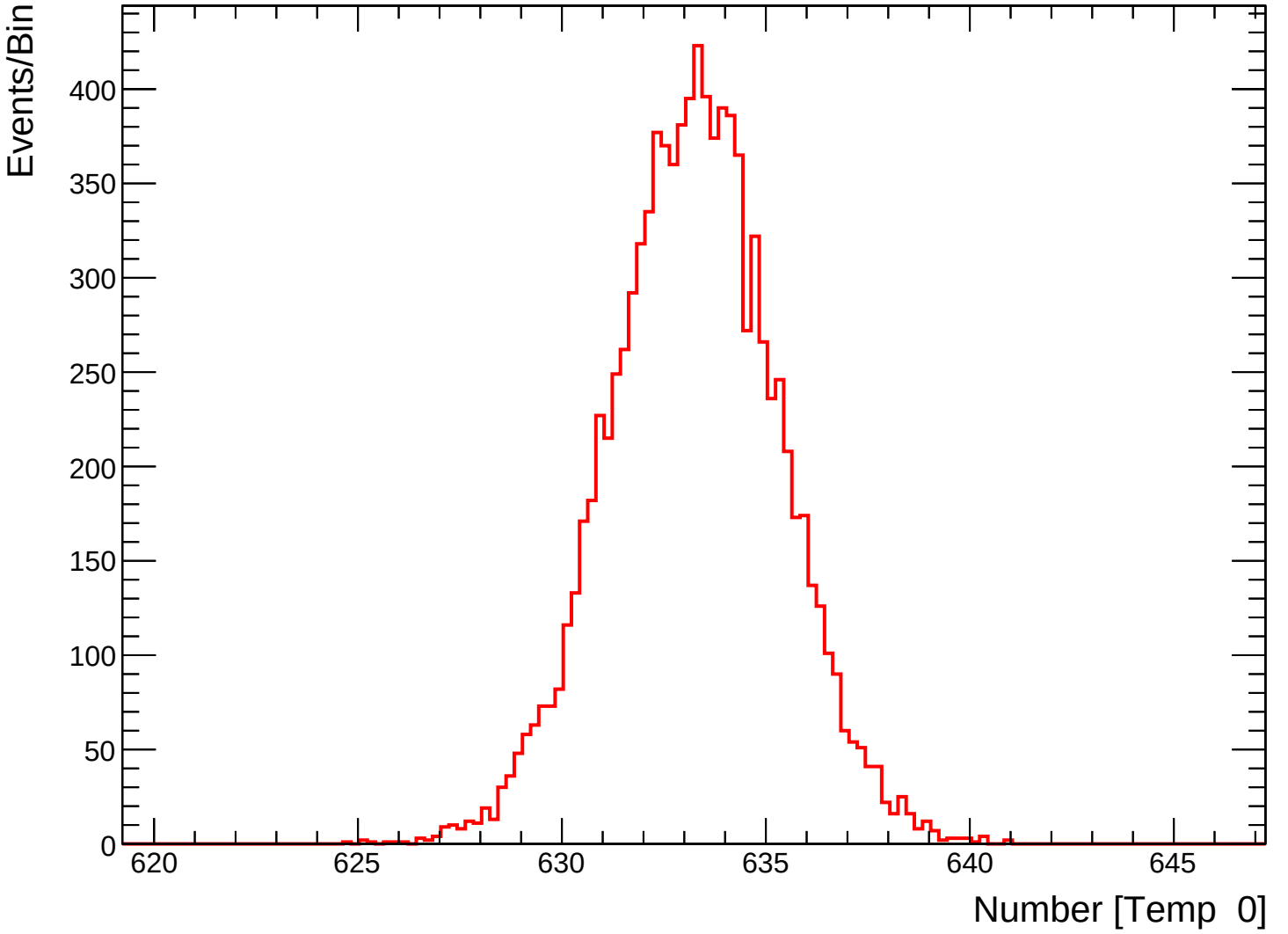

Time 8 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1488.1± 40.4)
e⁻+π⁻ (785.0 ± 30.3)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

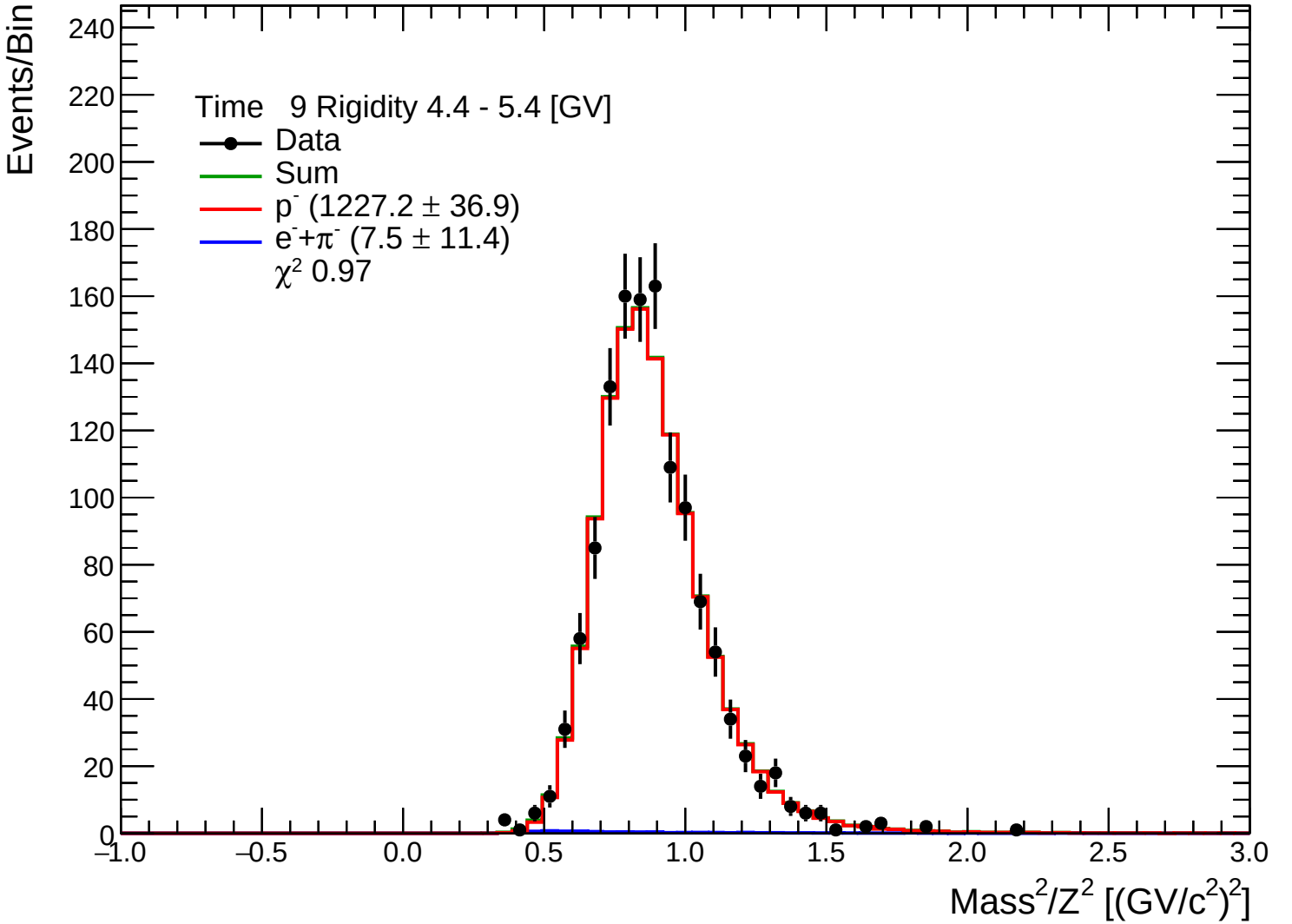

Events/Bin
400
350
300
250
200
150
100
50
0
1482
1484
1486
1488
1490
1492
1494
Number [Temp 0]

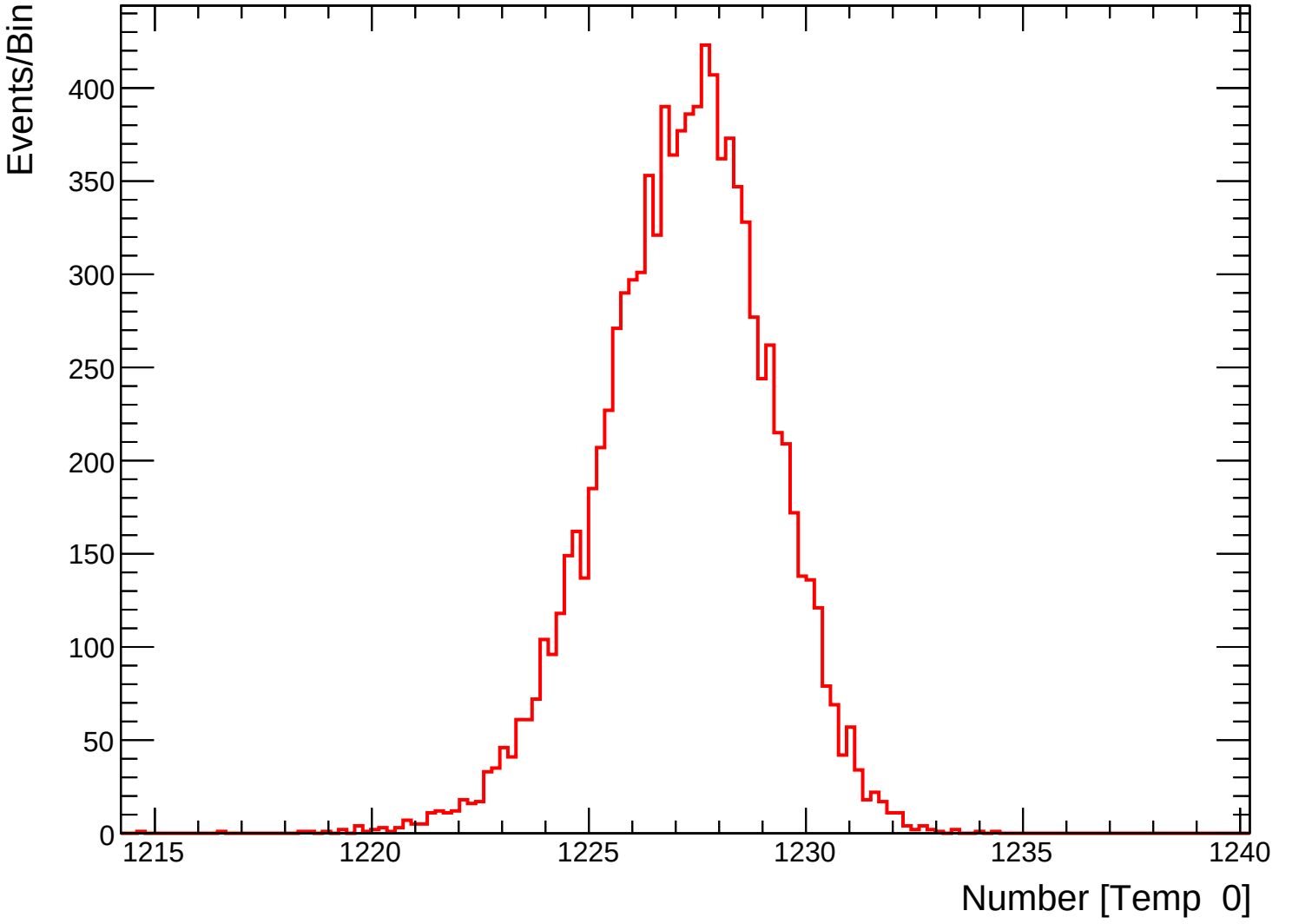

Time 8 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1429.1 ± 41.1)
e⁻+π⁻ (640.5 ± 29.8)
χ² 1.03
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

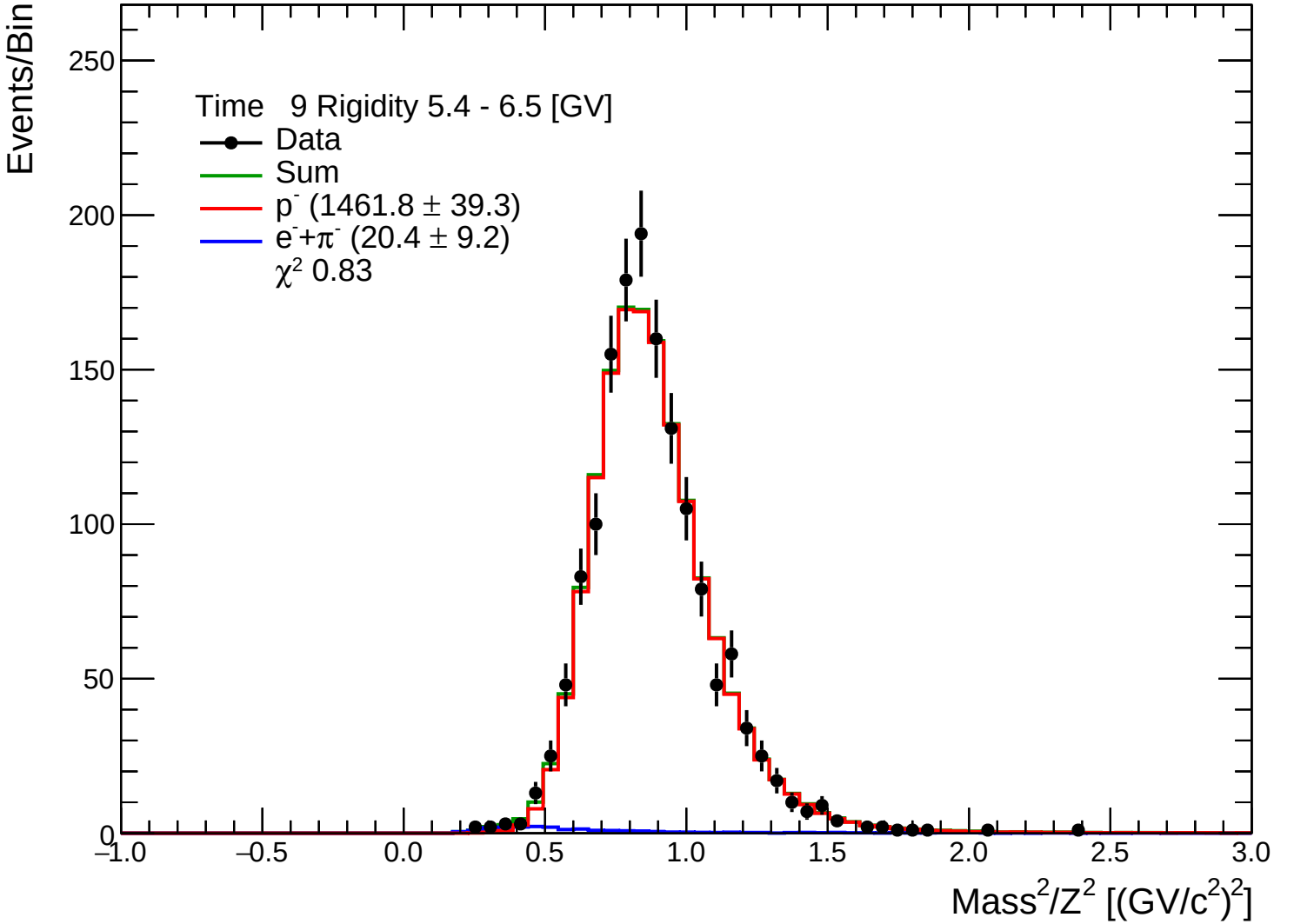

Events/Bin
400
350
300
250
200
150
100
50
0
1422
1424
1426
1428
1430
1432
1434
1436
1438
Number [Temp 0]

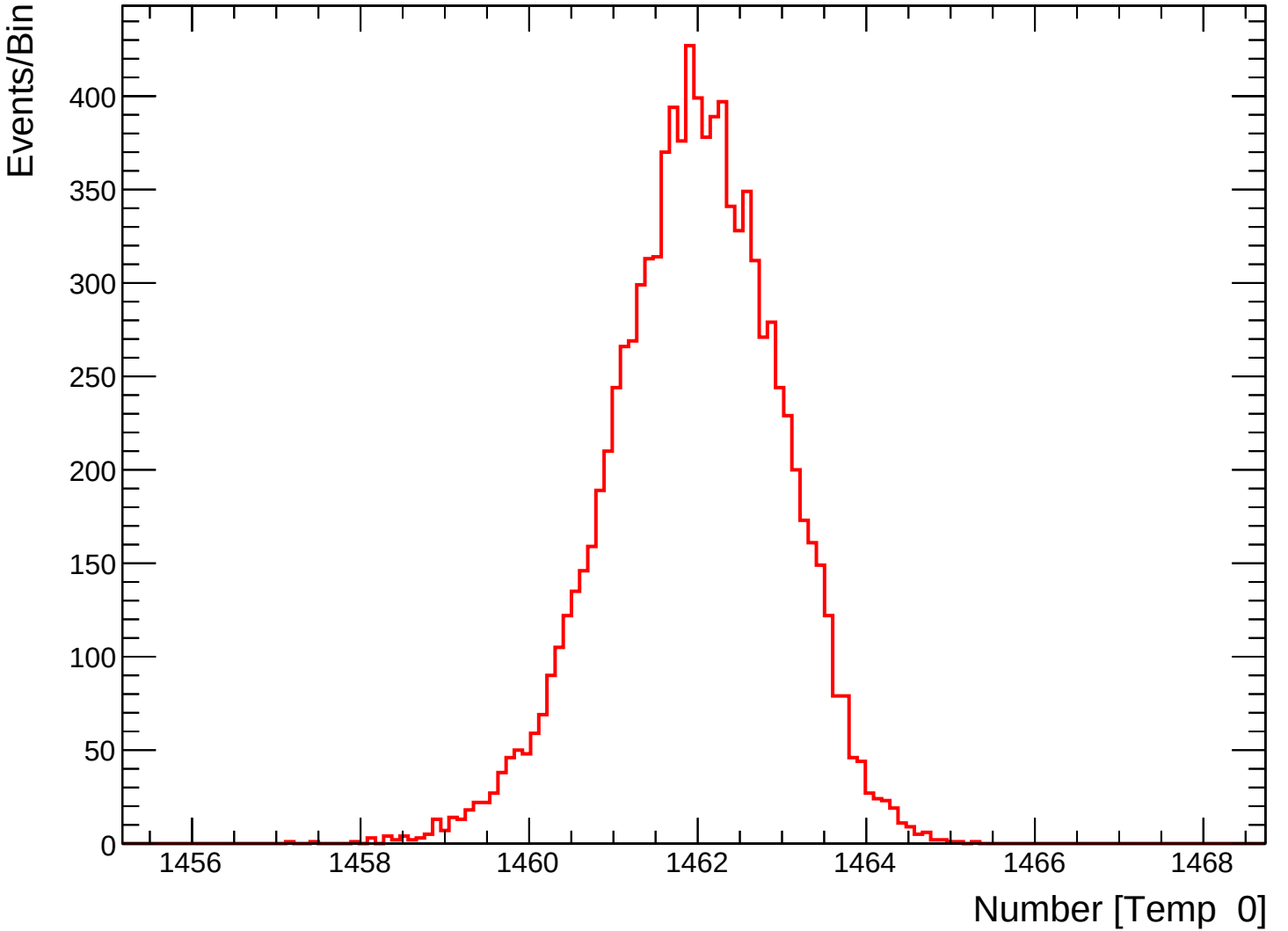

Time 9 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (632.7 ± 28.8)
e⁻+π⁻ (16.5 ± 14.5)
χ² 0.88
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

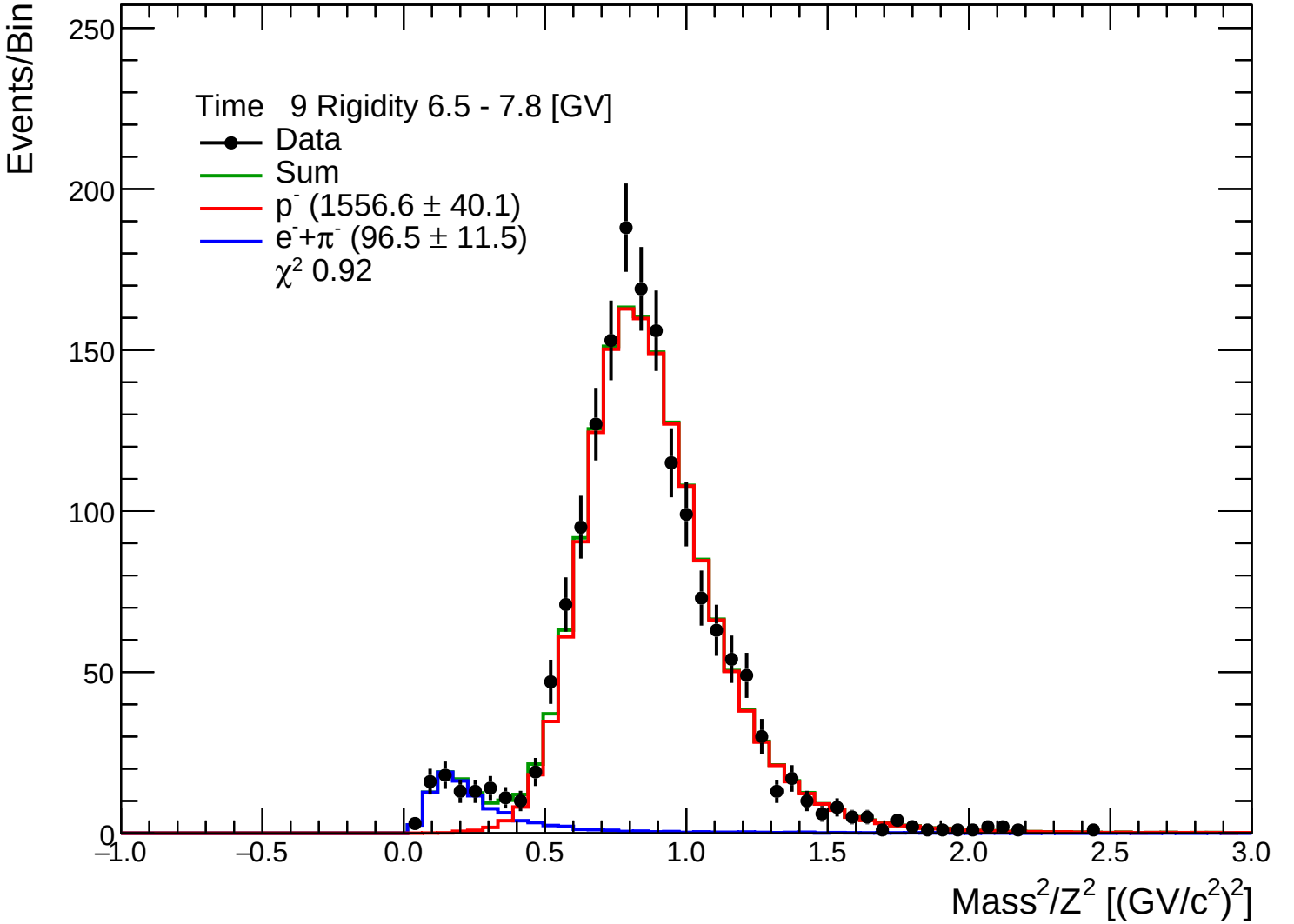

Events/Bin
400
350
300
250
200
150
100
50
0
620
625
630
635
640
645
Number [Temp 0]

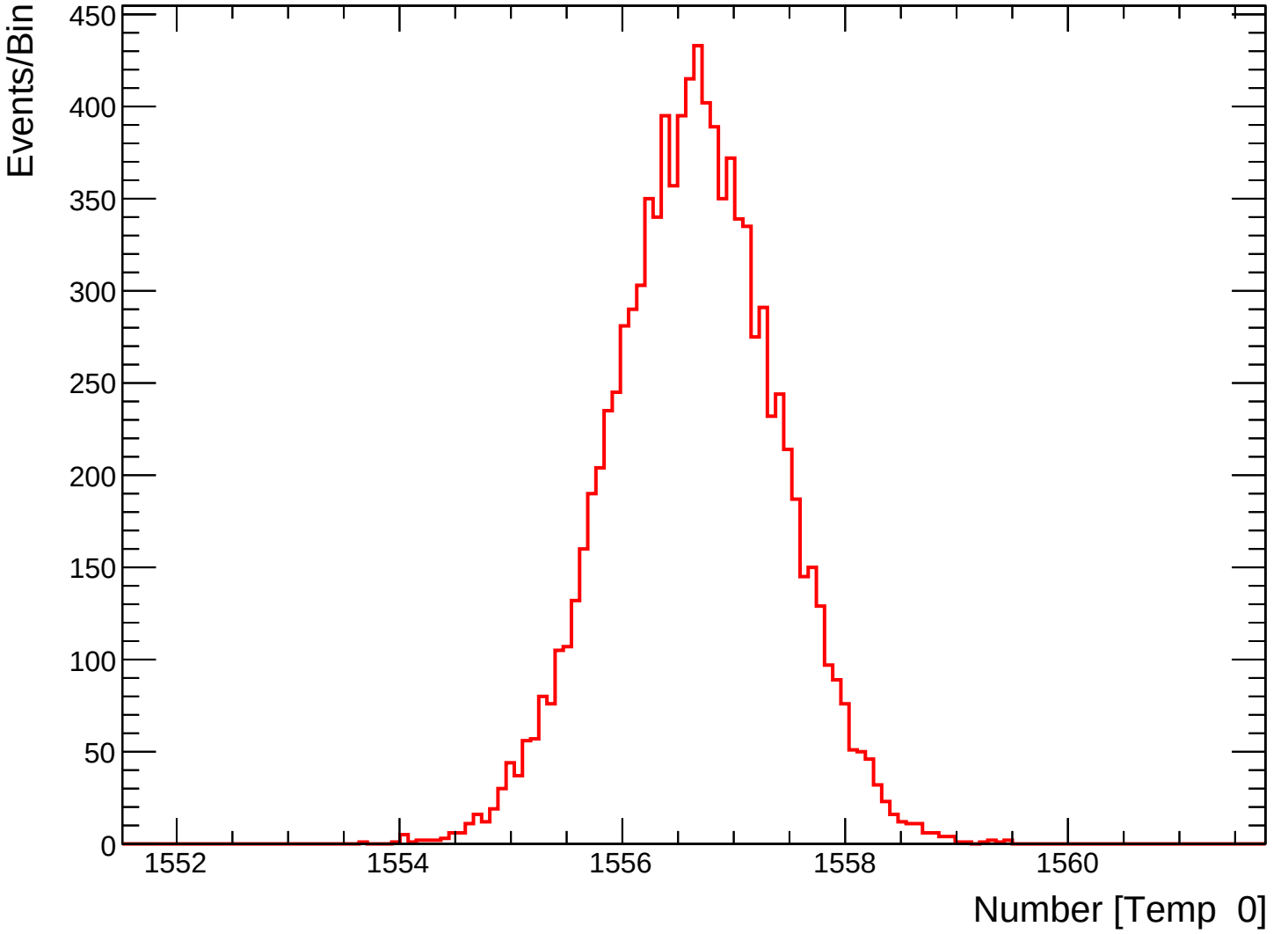

Time 9 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1227.2 ± 36.9)
e⁻+π⁻ (7.5 ± 11.4)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

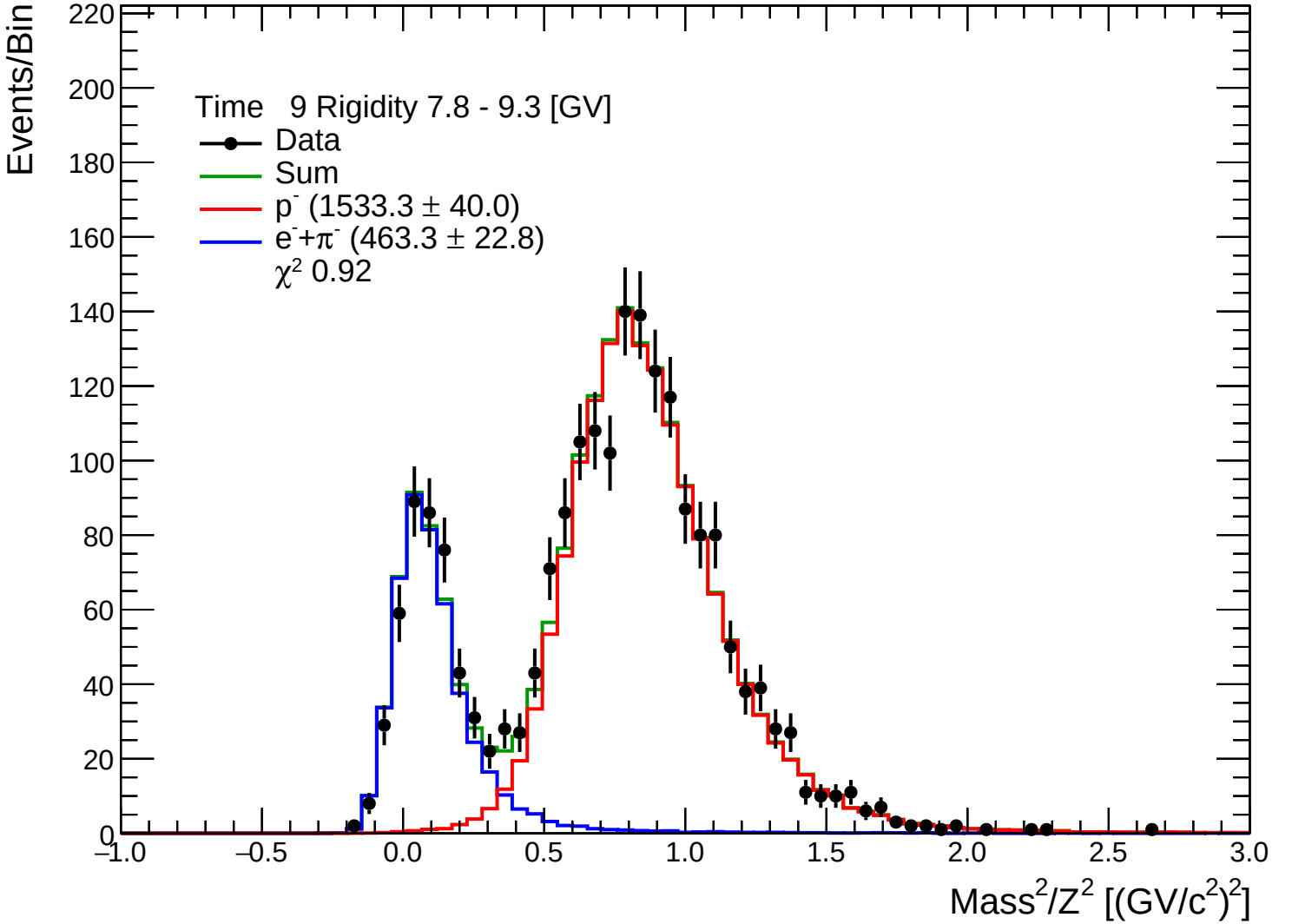

Events/Bin
400
350
300
250
200
150
100
50
0
1215
1220
1225
1230
1235
1240
Number [Temp 0]

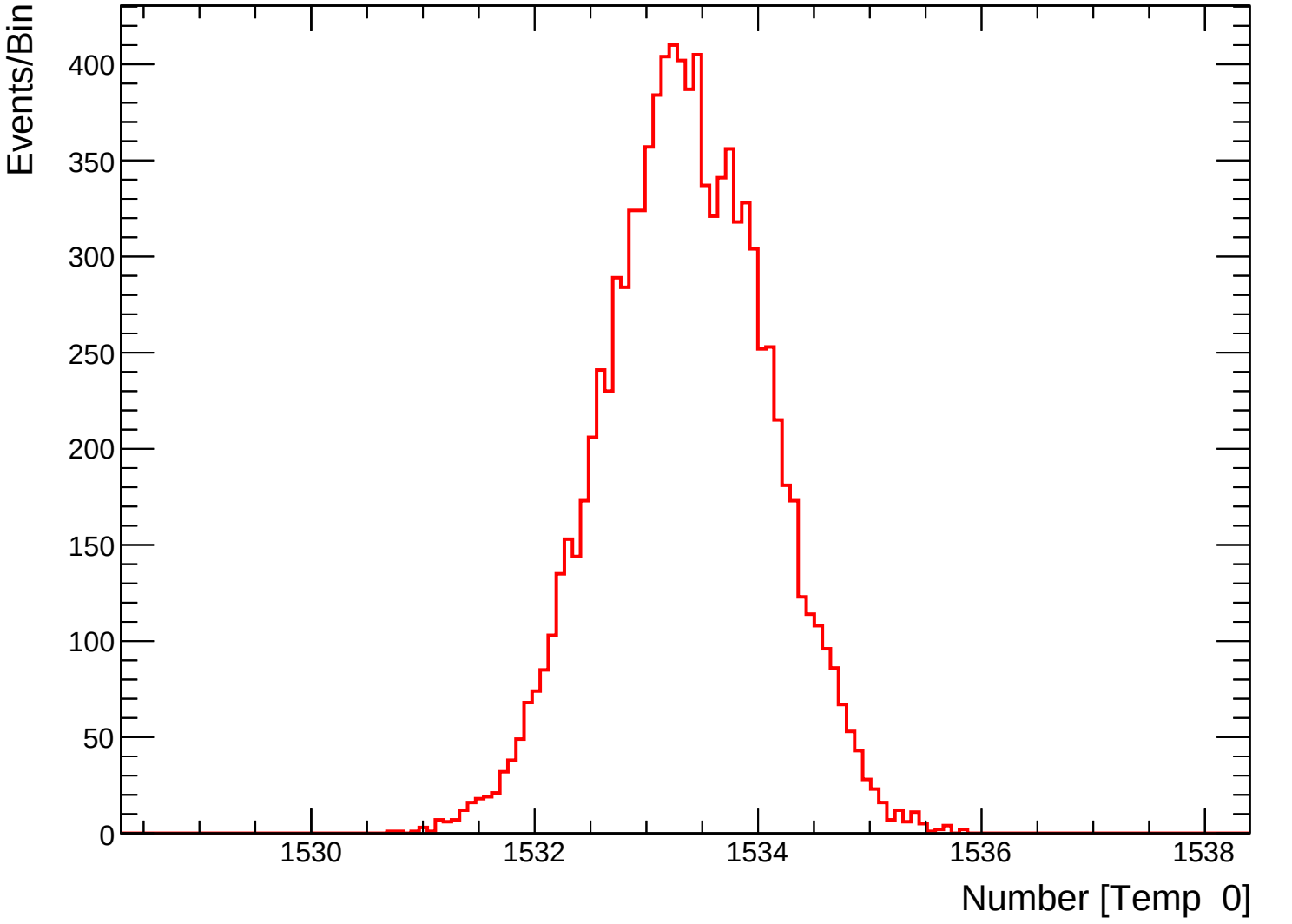

Time 9 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1461.8 ± 39.3)
e⁻+π⁻ (20.4 ± 9.2)
χ² 0.83
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

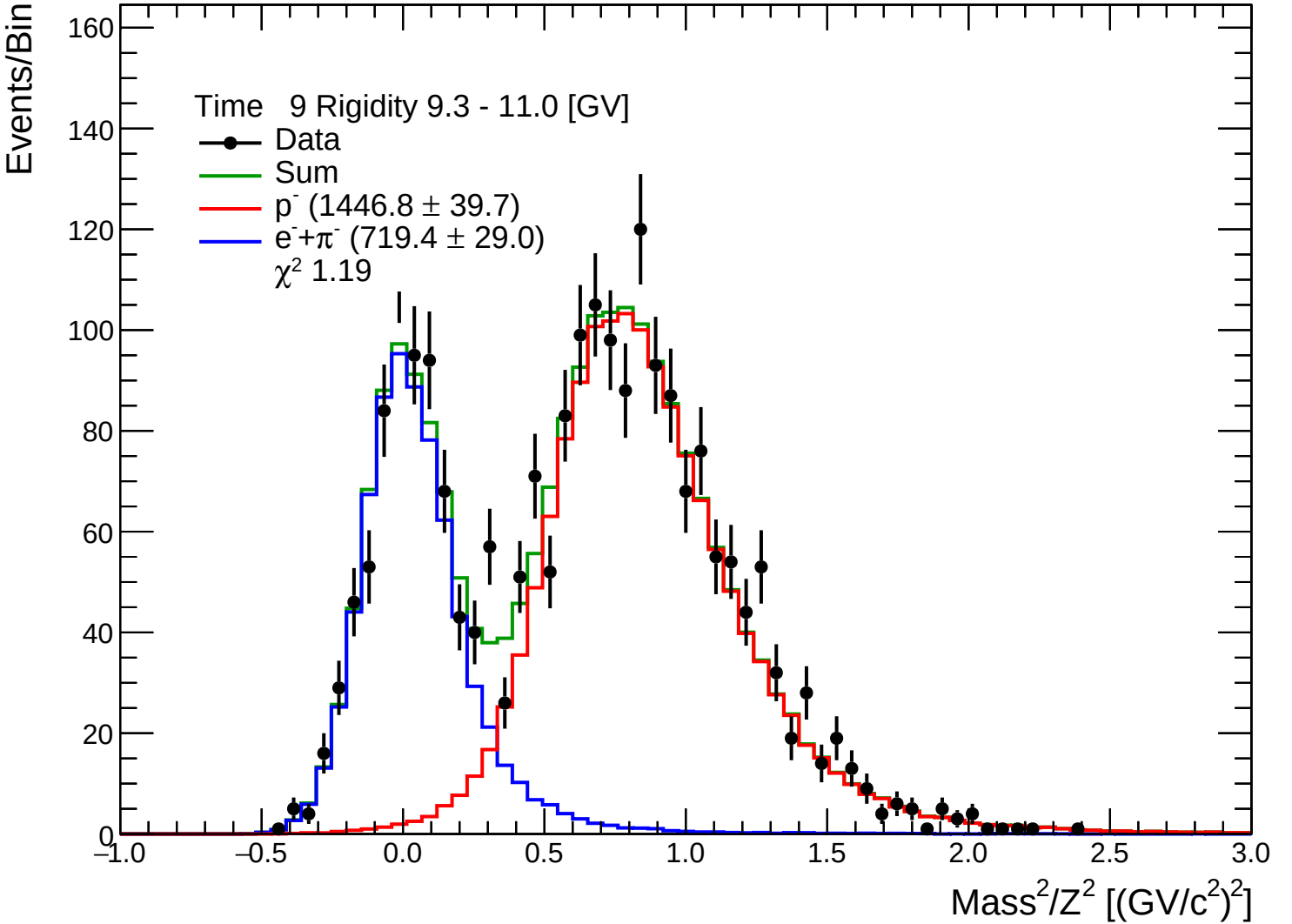

Events/Bin
400
350
300
250
200
150
100
50
0
1456
1458
1460
1462
1464
1466
1468
Number [Temp 0]

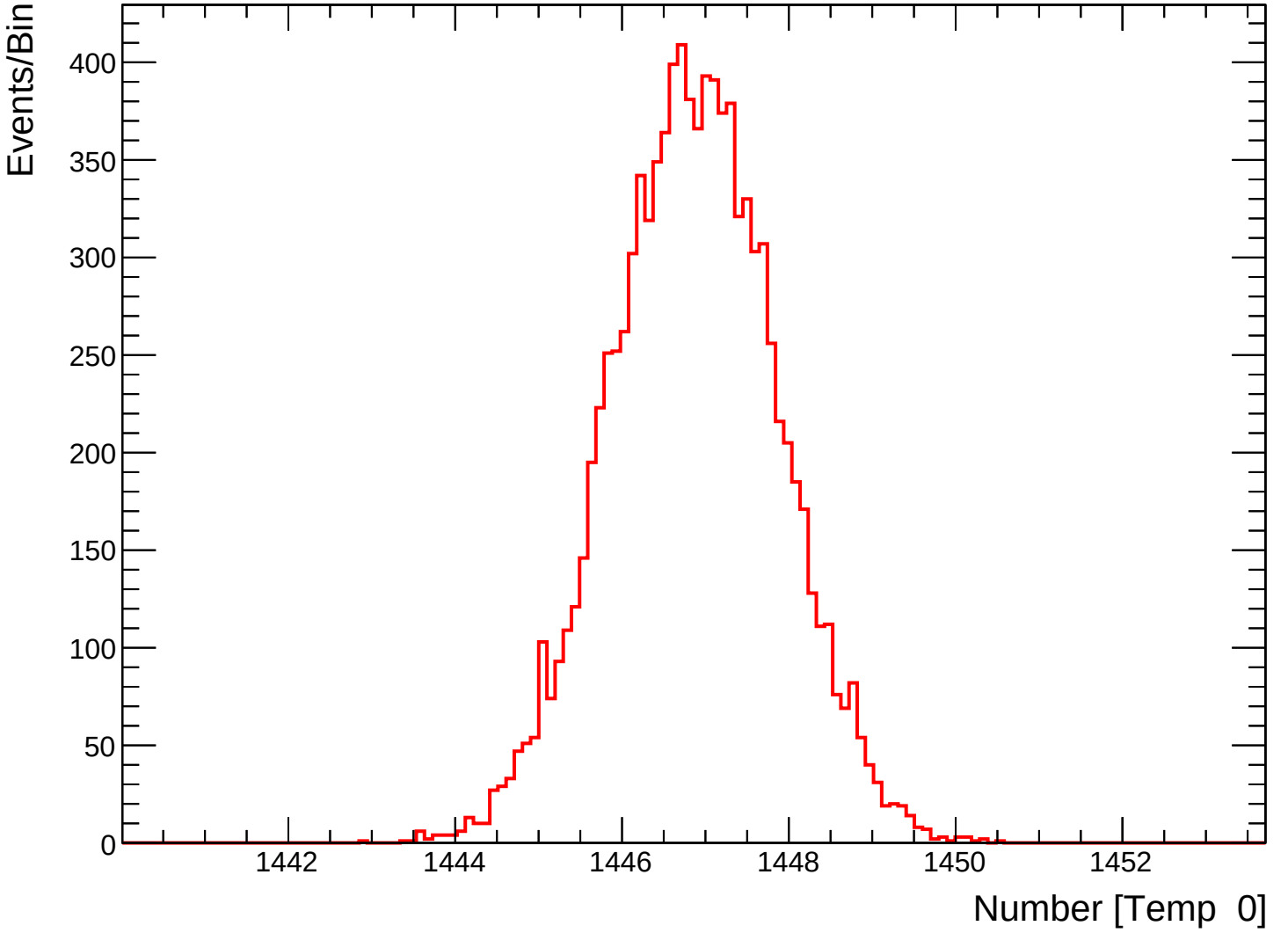

Time 9 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1556.6 ± 40.1)
e⁻+π⁻ (96.5 ± 11.5)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

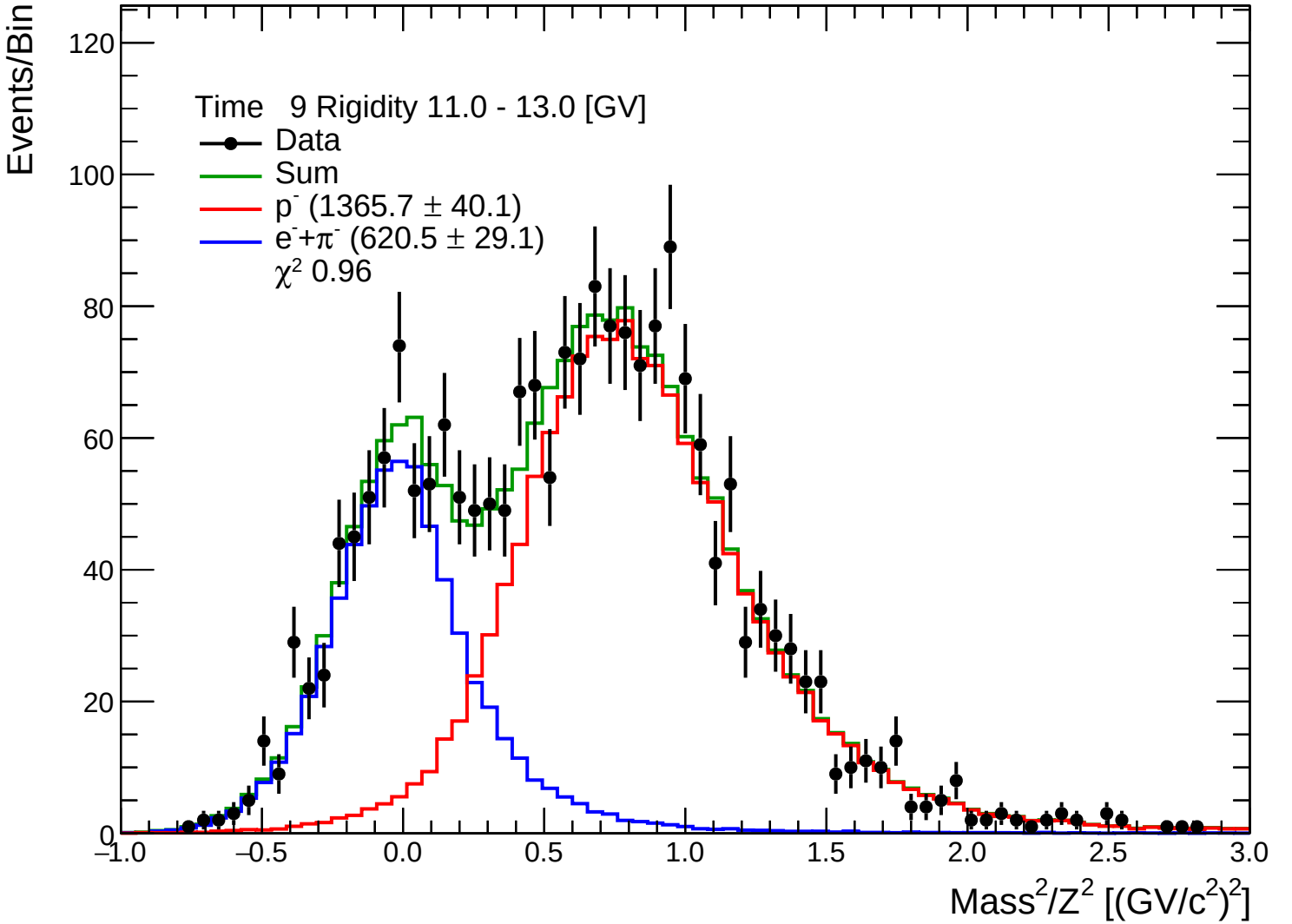

Events/Bin
450
400
350
300
250
200
150
100
50
0
1552
1554
1556
1558
1560
Number [Temp 0]

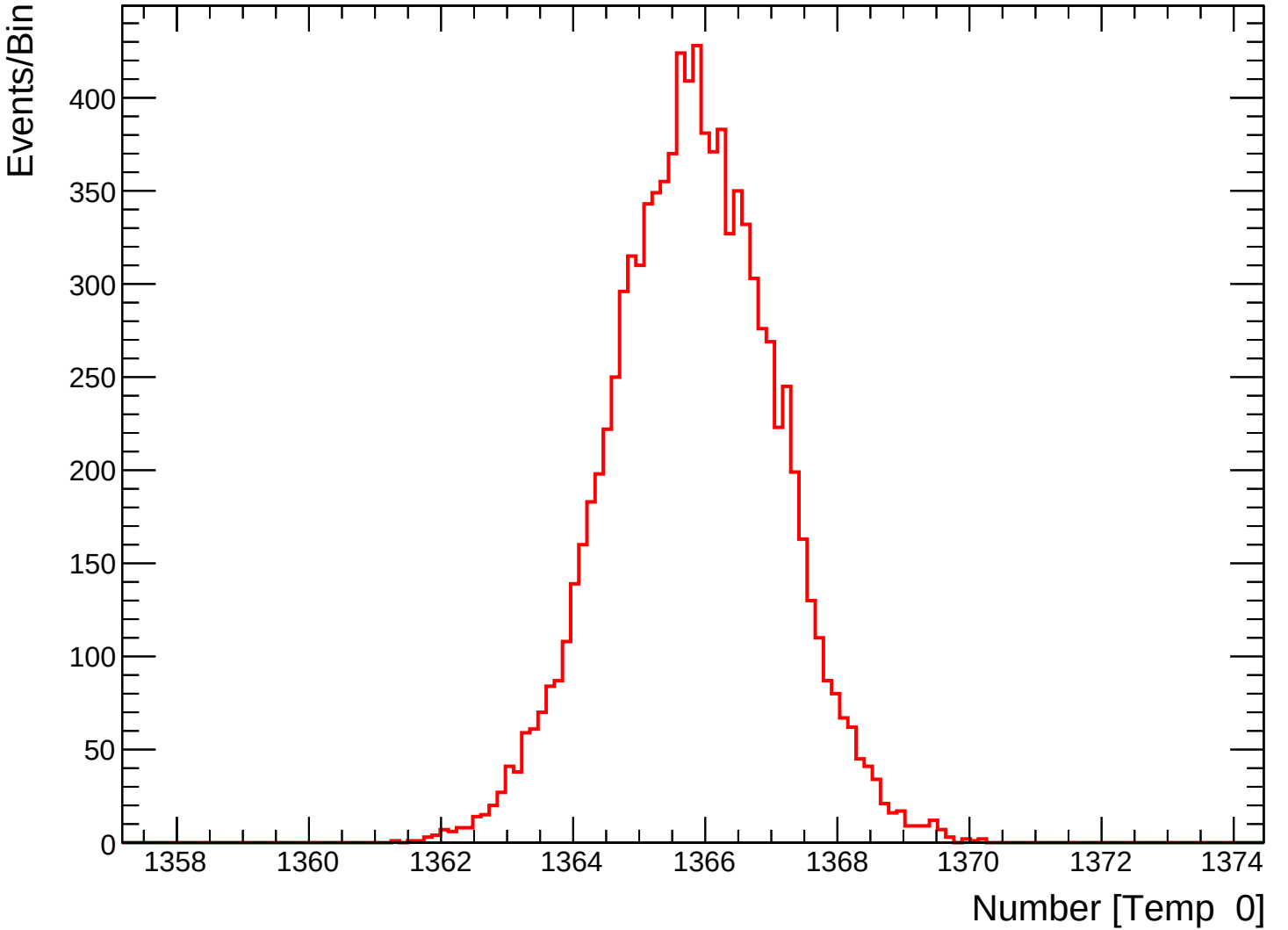

Time 9 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1533.3 ± 40.0)
e⁻+π⁻ (463.3 ± 22.8)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

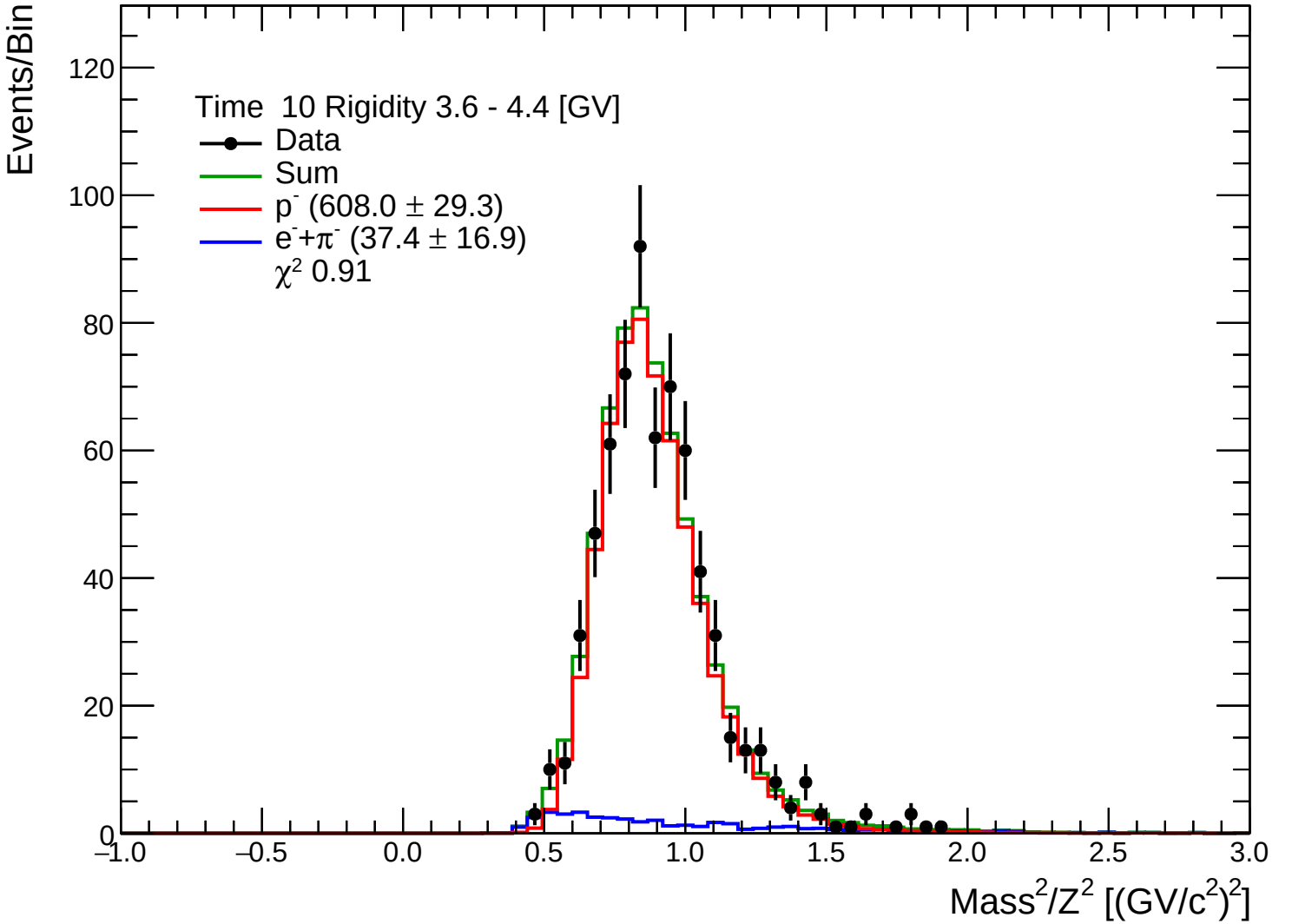

Events/Bin
400
350
300
250
200
150
100
50
0
1530
1532
1534
1536
1538
Number [Temp 0]

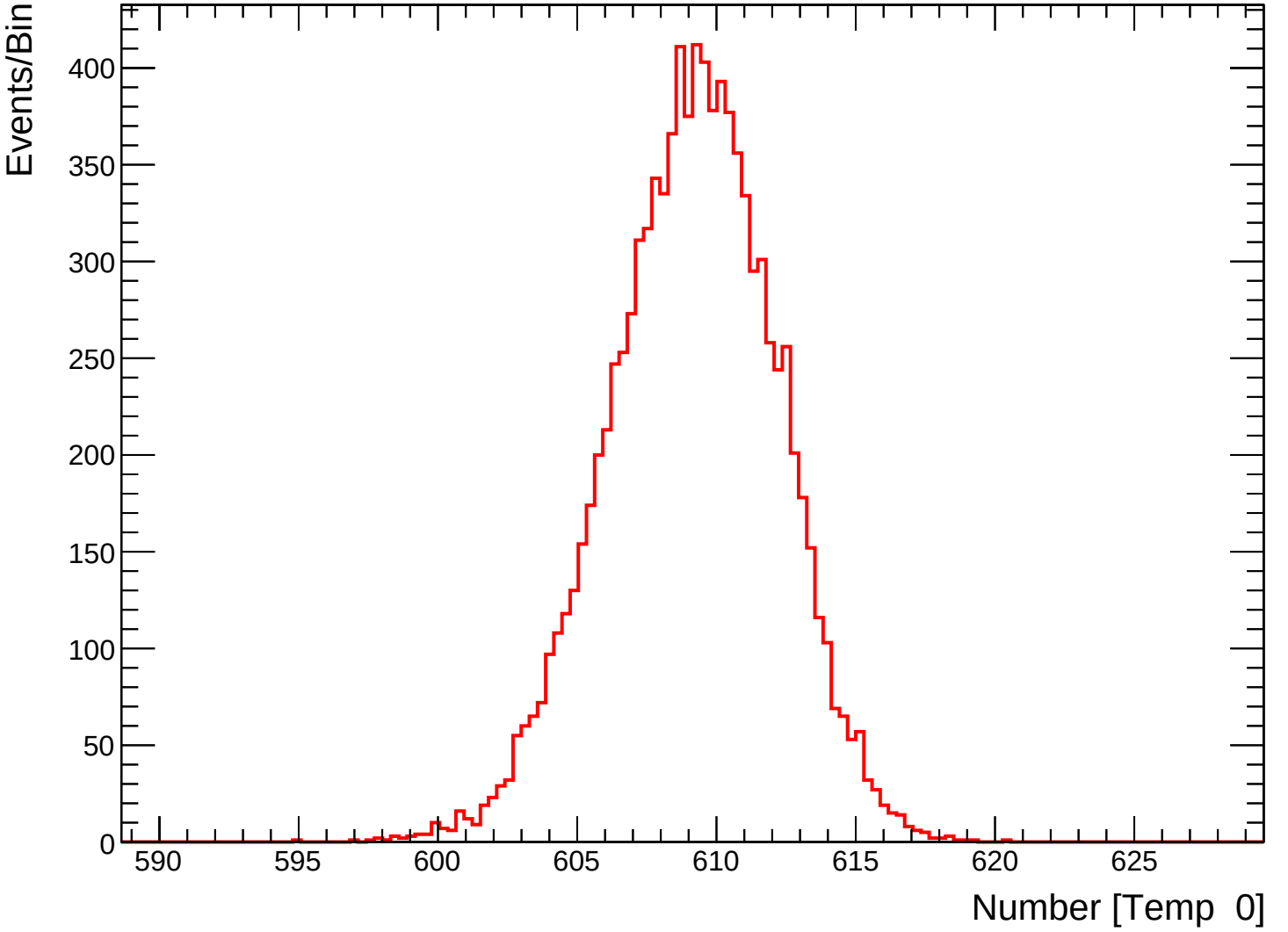

Time 9 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1446.8 ± 39.7)
e⁻+π⁻ (719.4 ± 29.0)
χ² 1.19
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

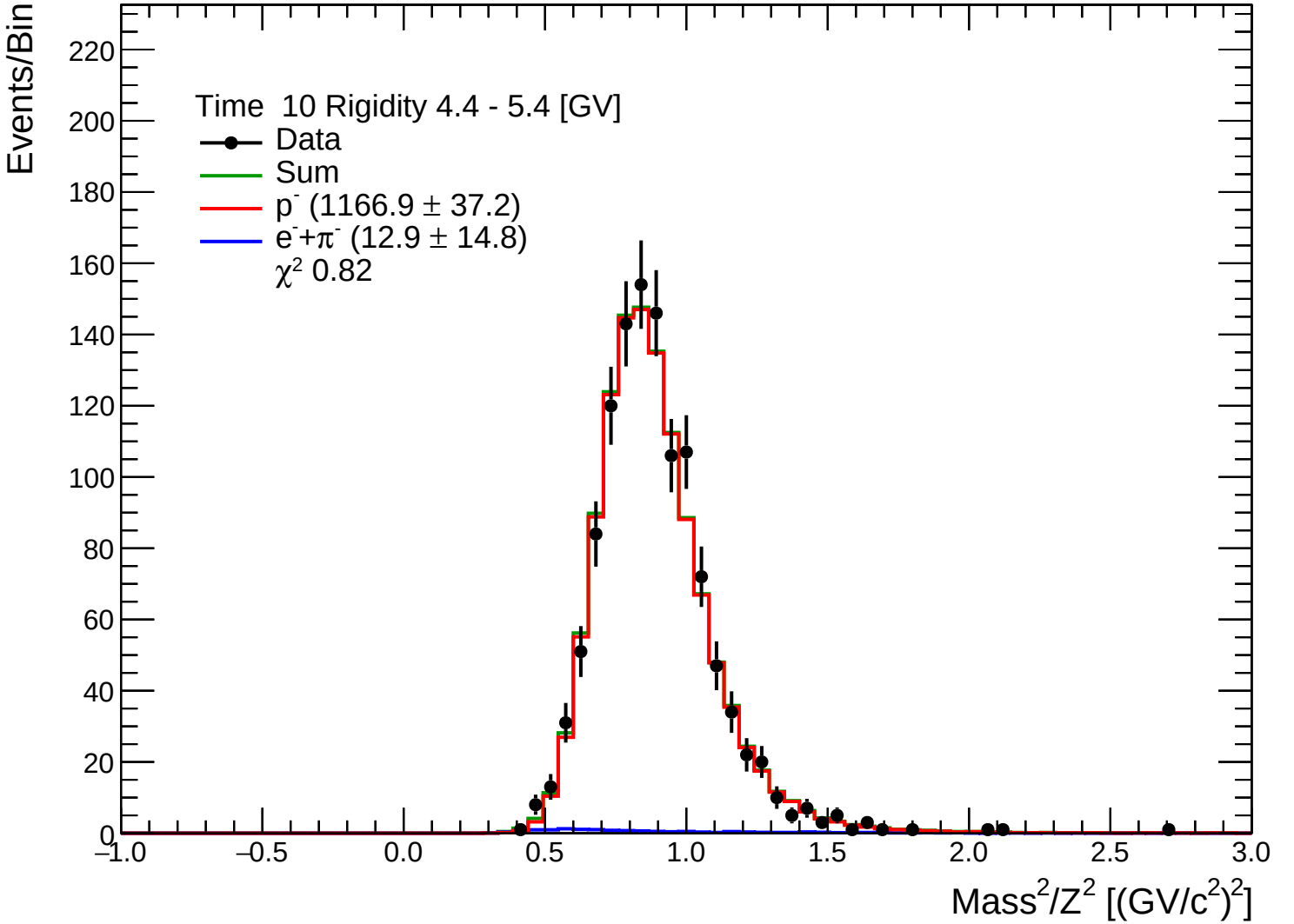

Events/Bin
400
350
300
250
200
150
100
50
0
1442
1444
1446
1448
1450
1452
Number [Temp 0]

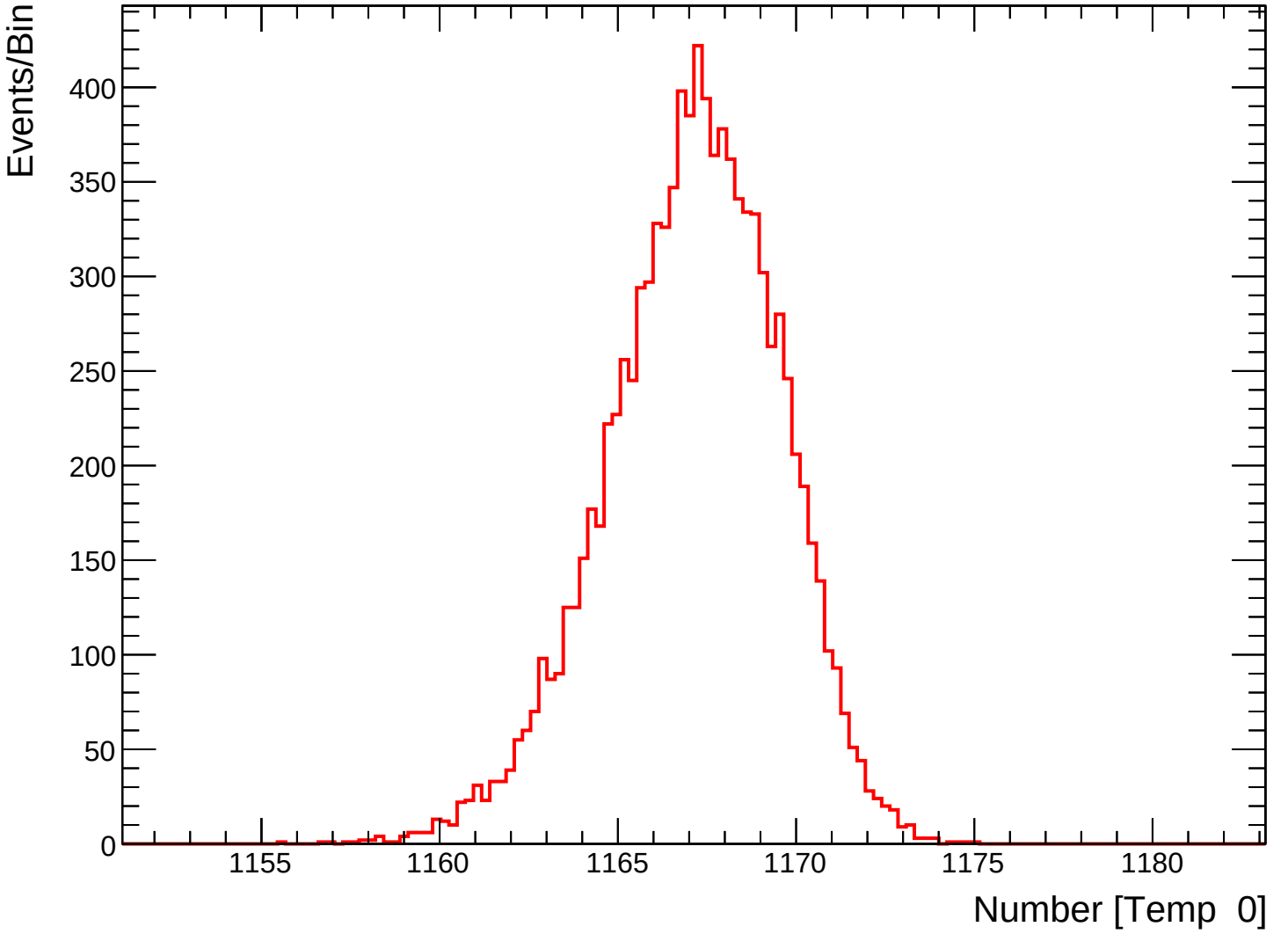

Time 9 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1365.7 ± 40.1)
e⁻+π⁻ (620.5 ± 29.1)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

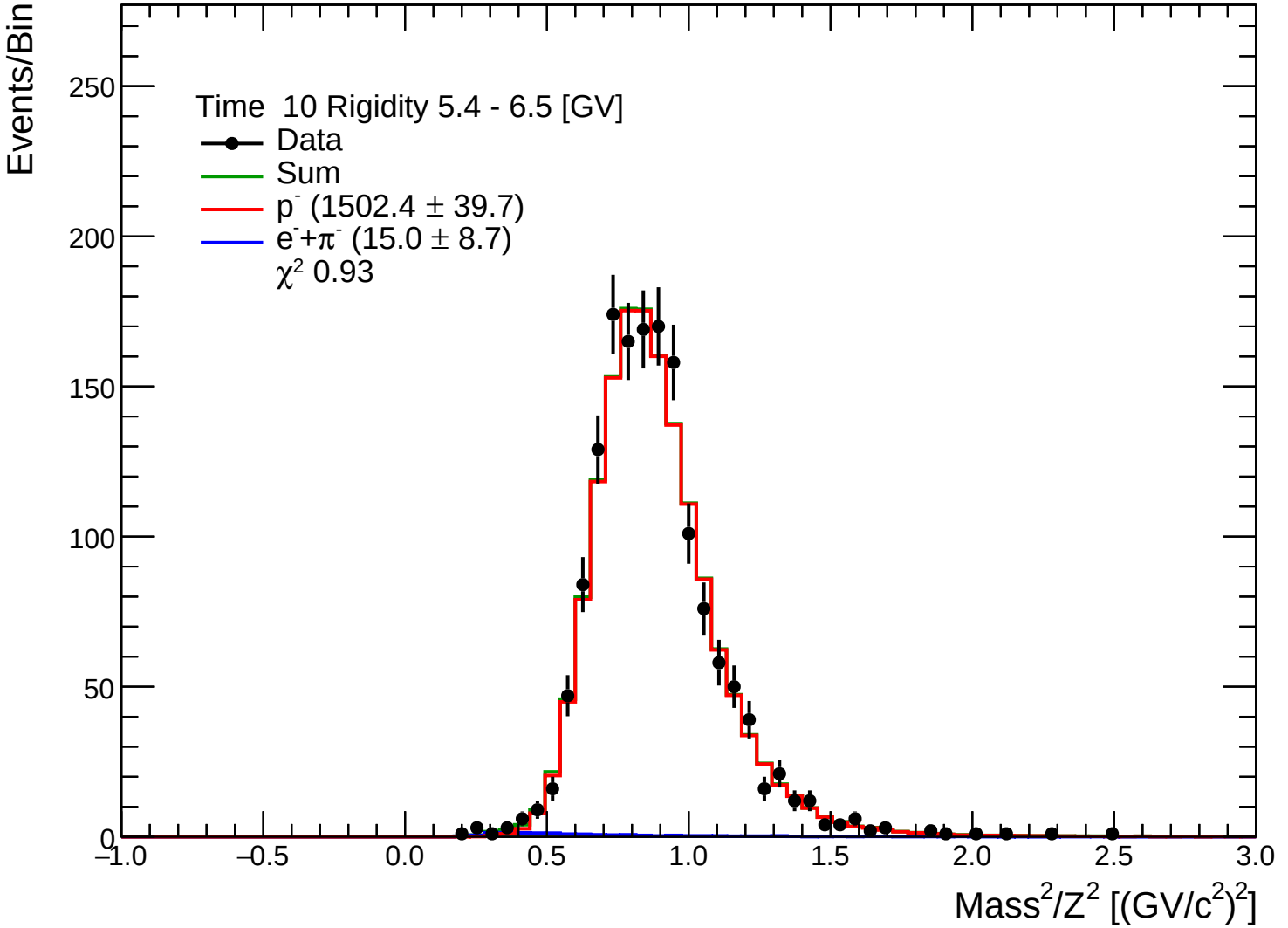

Events/Bin
0
50
100
150
200
250
300
350
400
1358
1360
1362
1364
1366
1368
1370
1372
1374
Number [Temp 0]

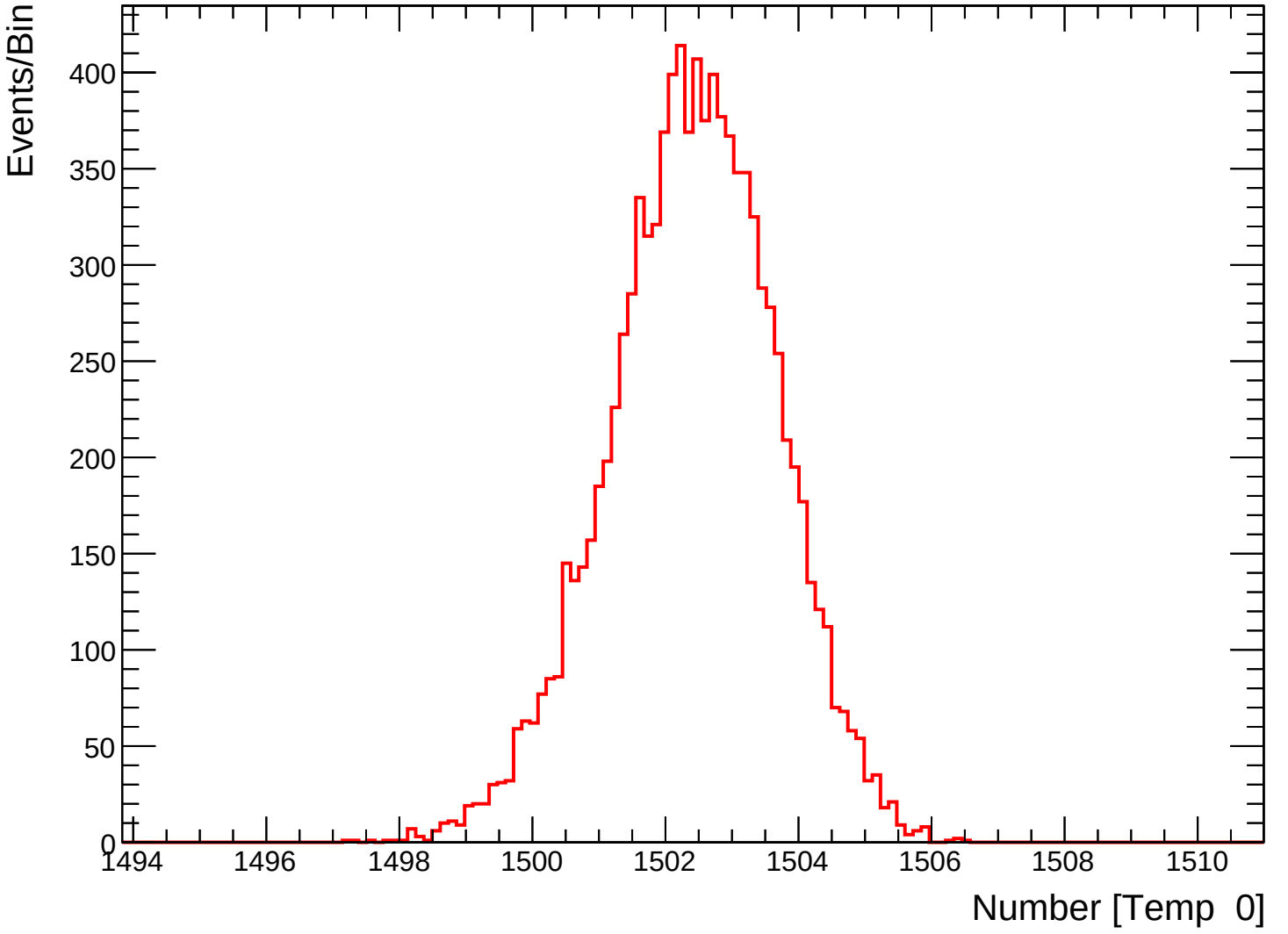

Time 10 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (608.0 ± 29.3)
e⁻+π⁻ (37.4 ± 16.9)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

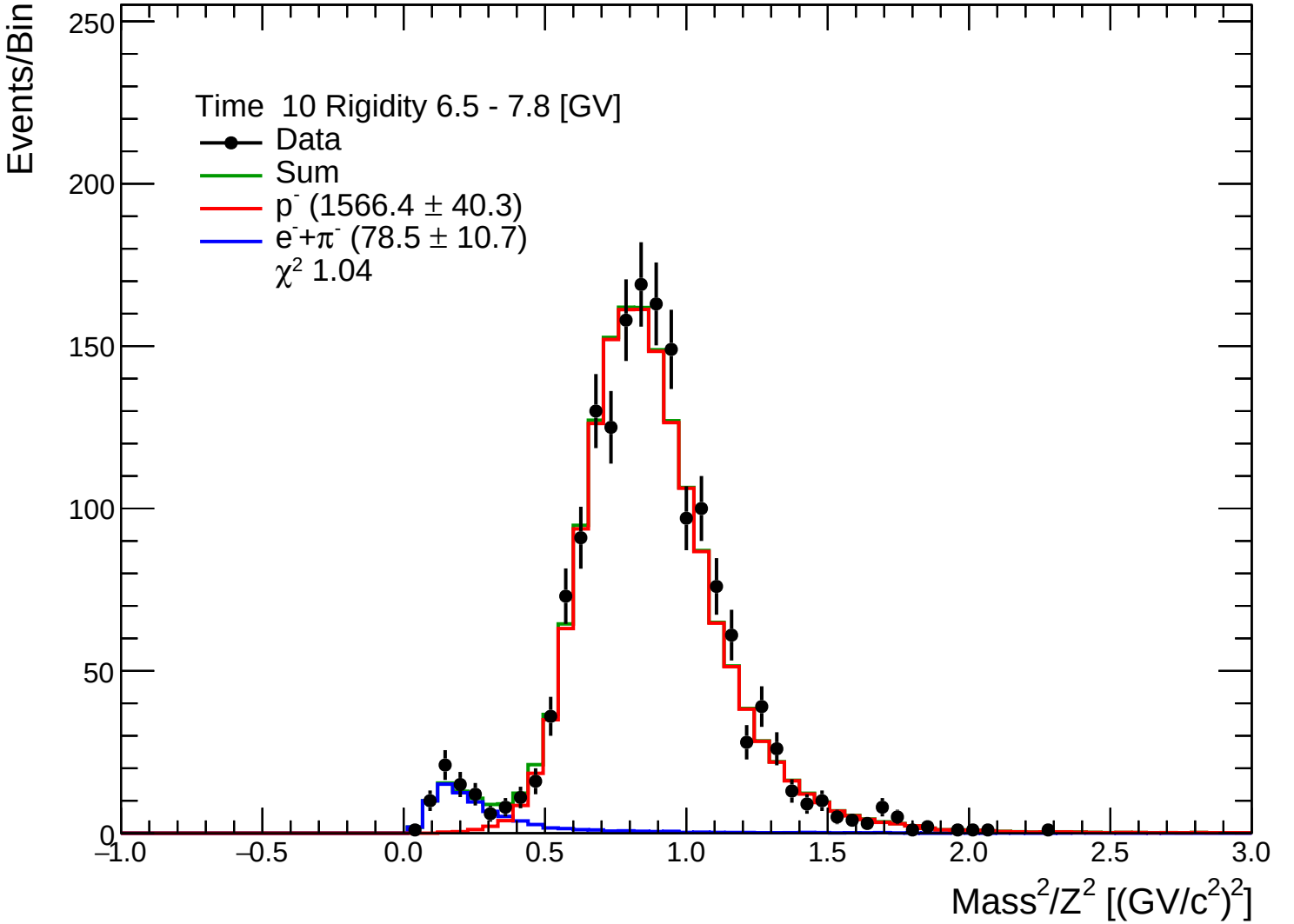

Events/Bin
400
350
300
250
200
150
100
50
0
590
595
600
605
610
615
620
625
Number [Temp 0]

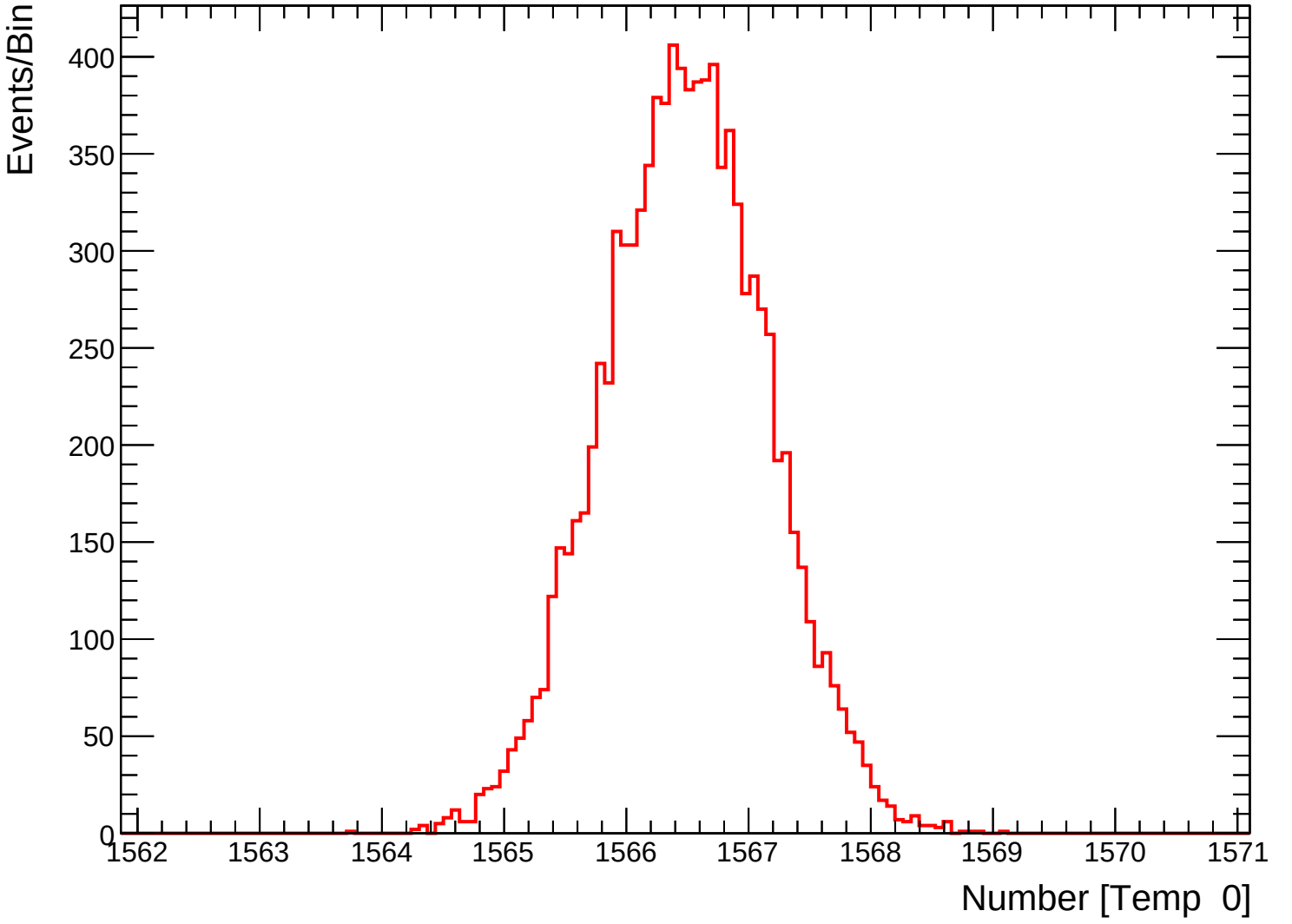

Time 10 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1166.9 ± 37.2)
e⁻+π⁻ (12.9 ± 14.8)
χ² 0.82
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

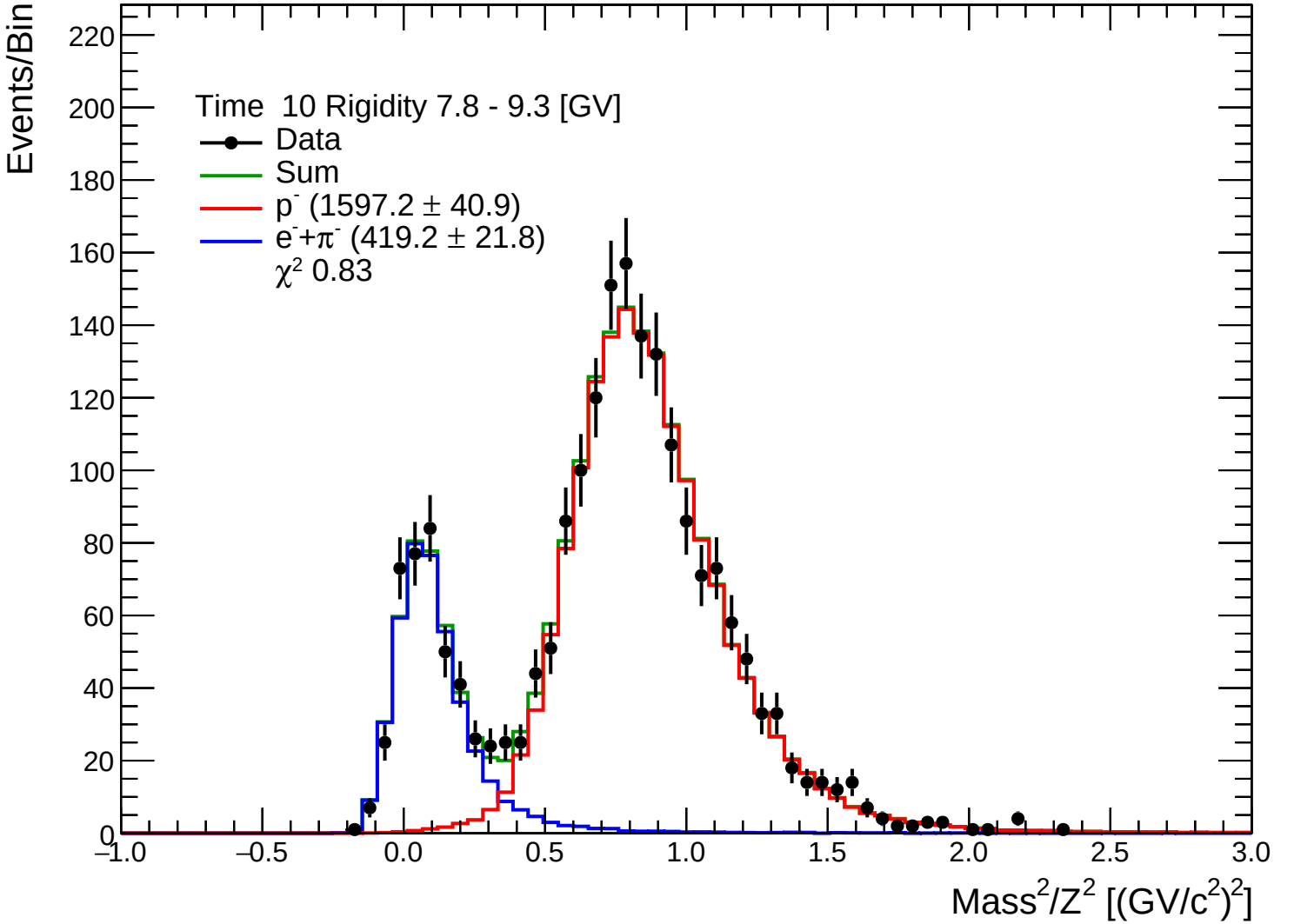

Events/Bin
400
350
300
250
200
150
100
50
0
1155
1160
1165
1170
1175
1180
Number [Temp 0]

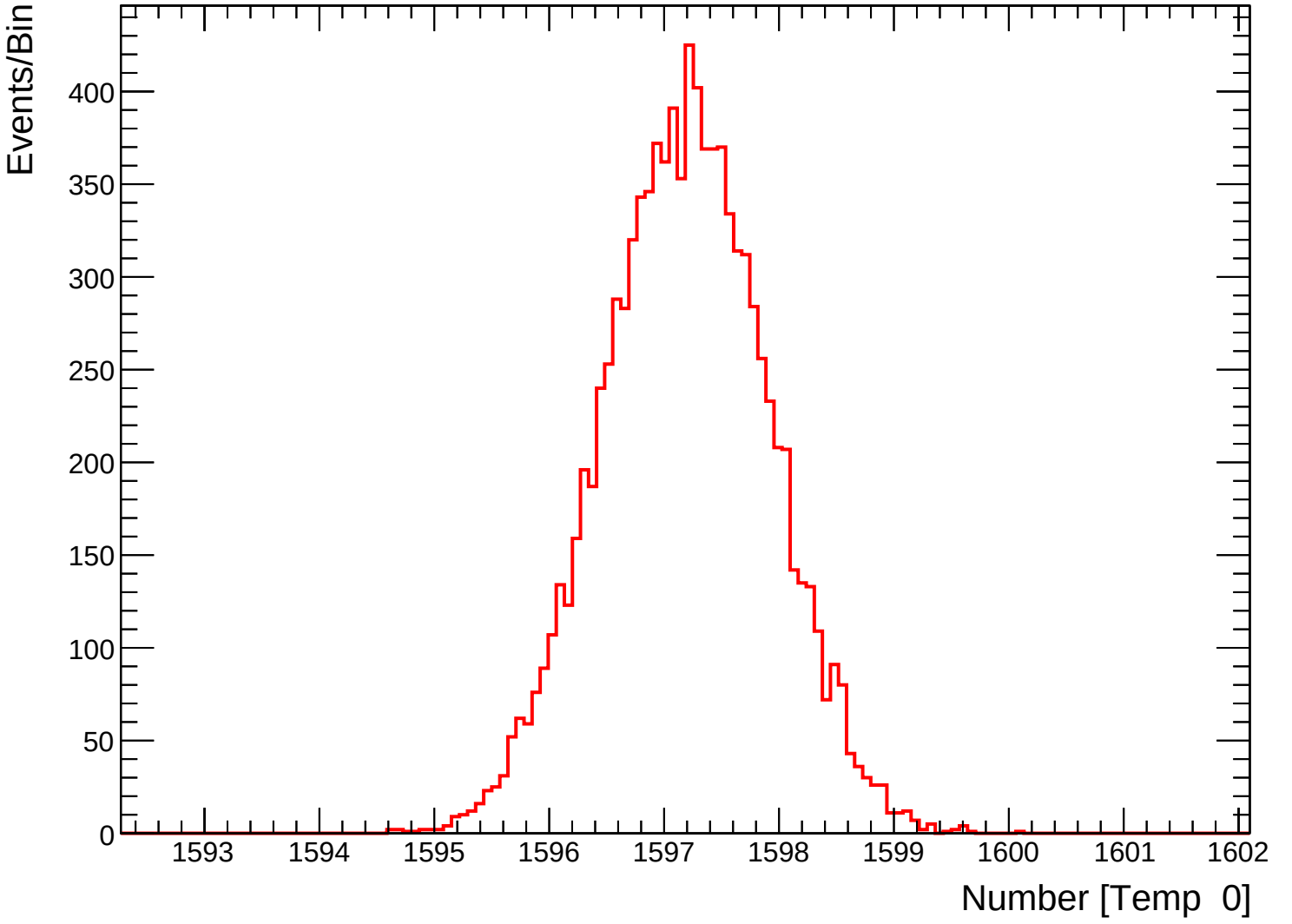

Time 10 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1502.4 ± 39.7)
e⁻+π⁻ (15.0 ± 8.7)
χ² 0.93
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

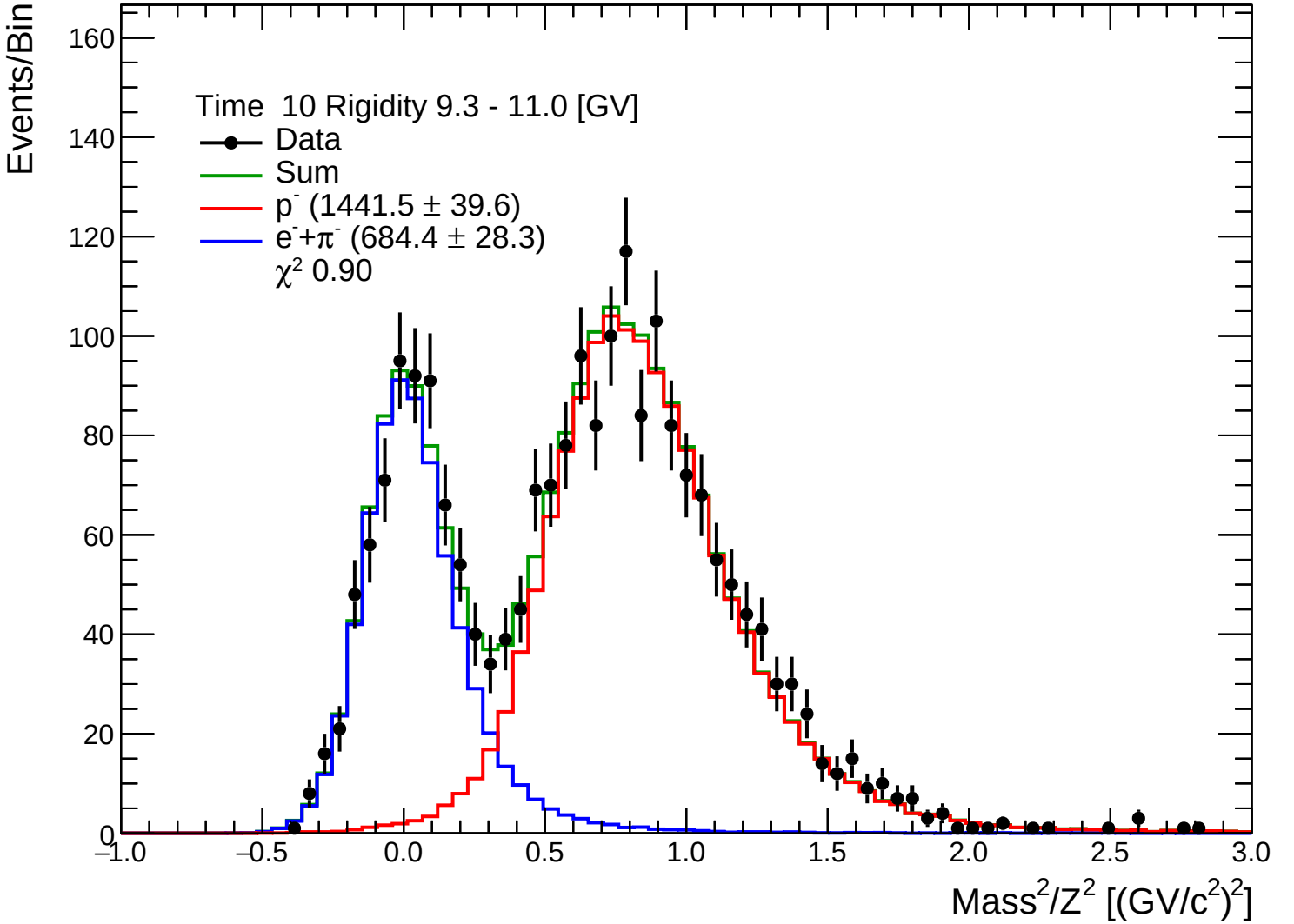

Events/Bin
400
350
300
250
200
150
100
50
0
1494
1496
1498
1500
1502
1504
1506
1508
1510
Number [Temp 0]

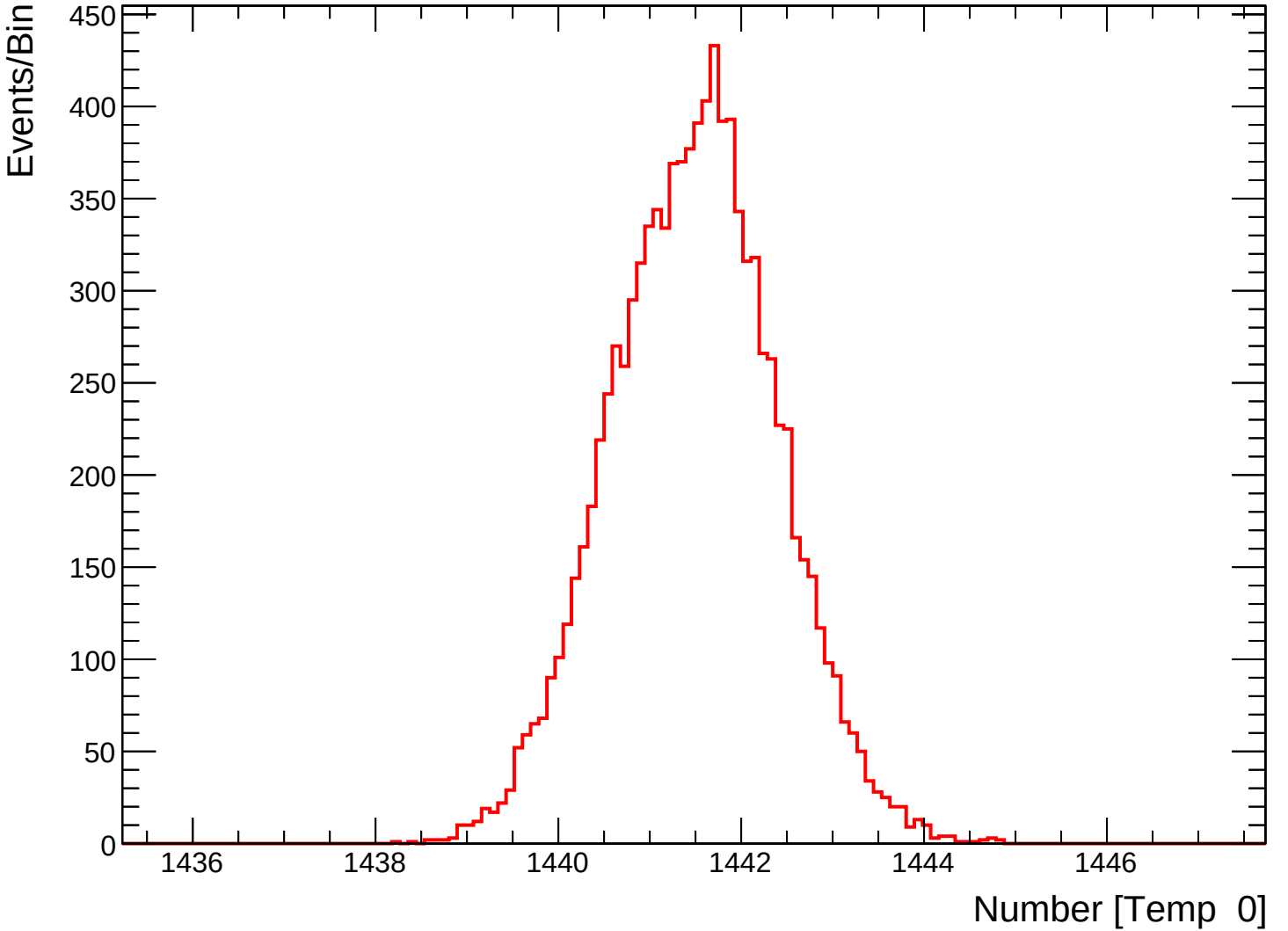

Time 10 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1566.4 ± 40.3)
e⁻+π⁻ (78.5 ± 10.7)
χ² 1.04
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

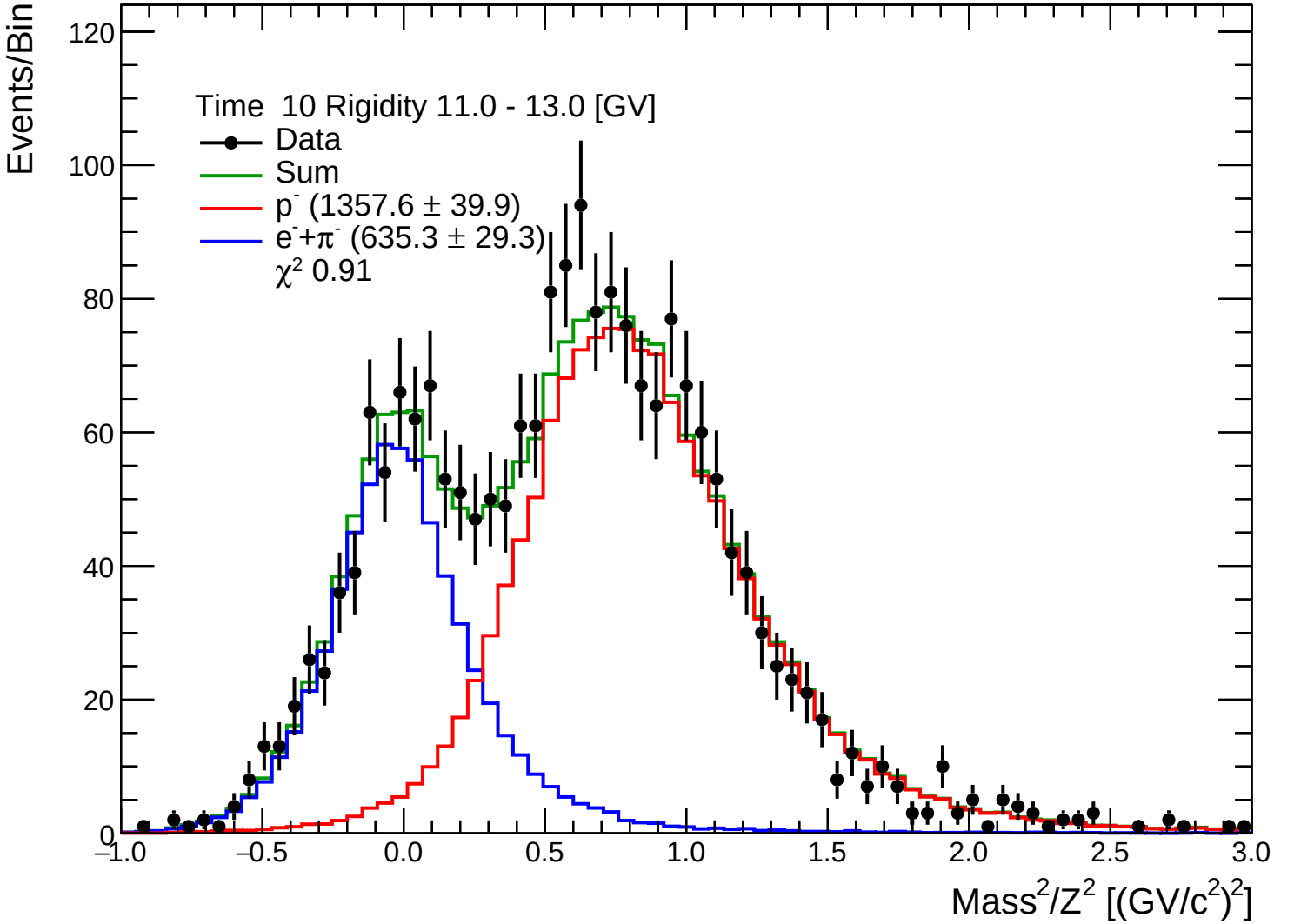

Events/Bin
400
350
300
250
200
150
100
50
0
1562
1563
1564
1565
1566
1567
1568
1569
1570
1571
Number [Temp 0]

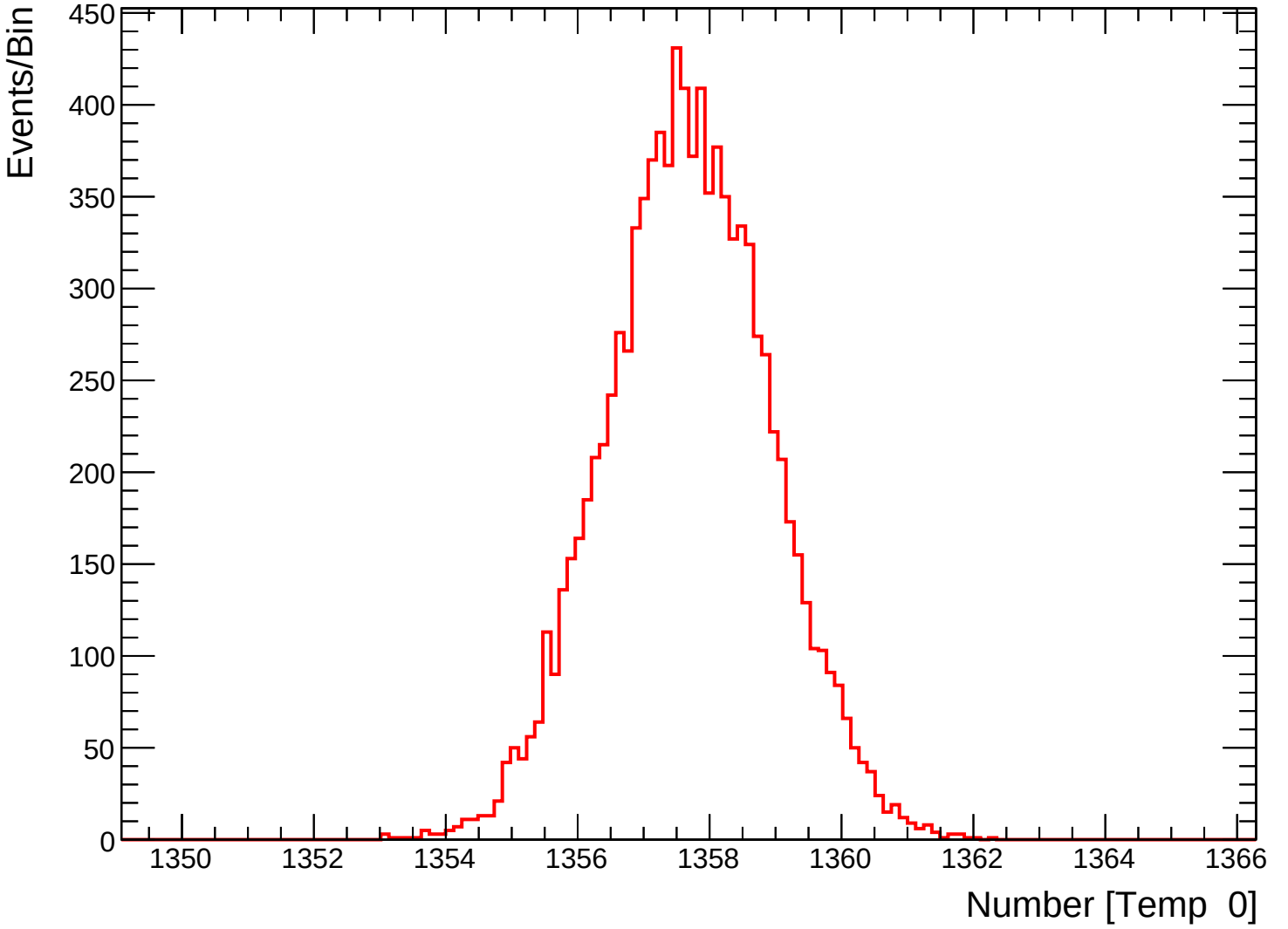

Time 10 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1597.2 ± 40.9)
e⁻+π⁻ (419.2 ± 21.8)
χ² 0.83
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

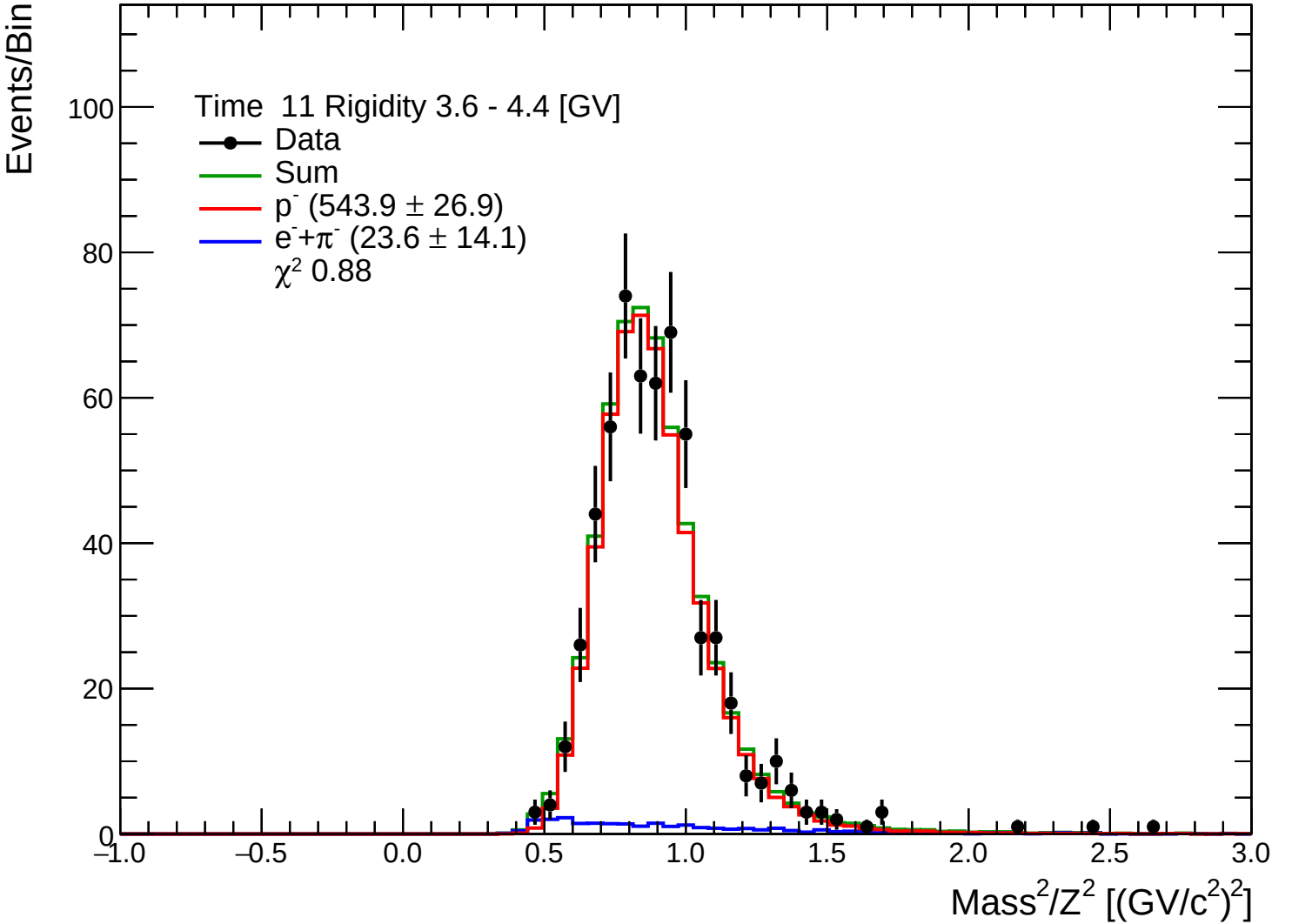

Events/Bin
400
350
300
250
200
150
100
50
0
1593
1594
1595
1596
1597
1598
1599
1600
1601
1602
Number [Temp 0]

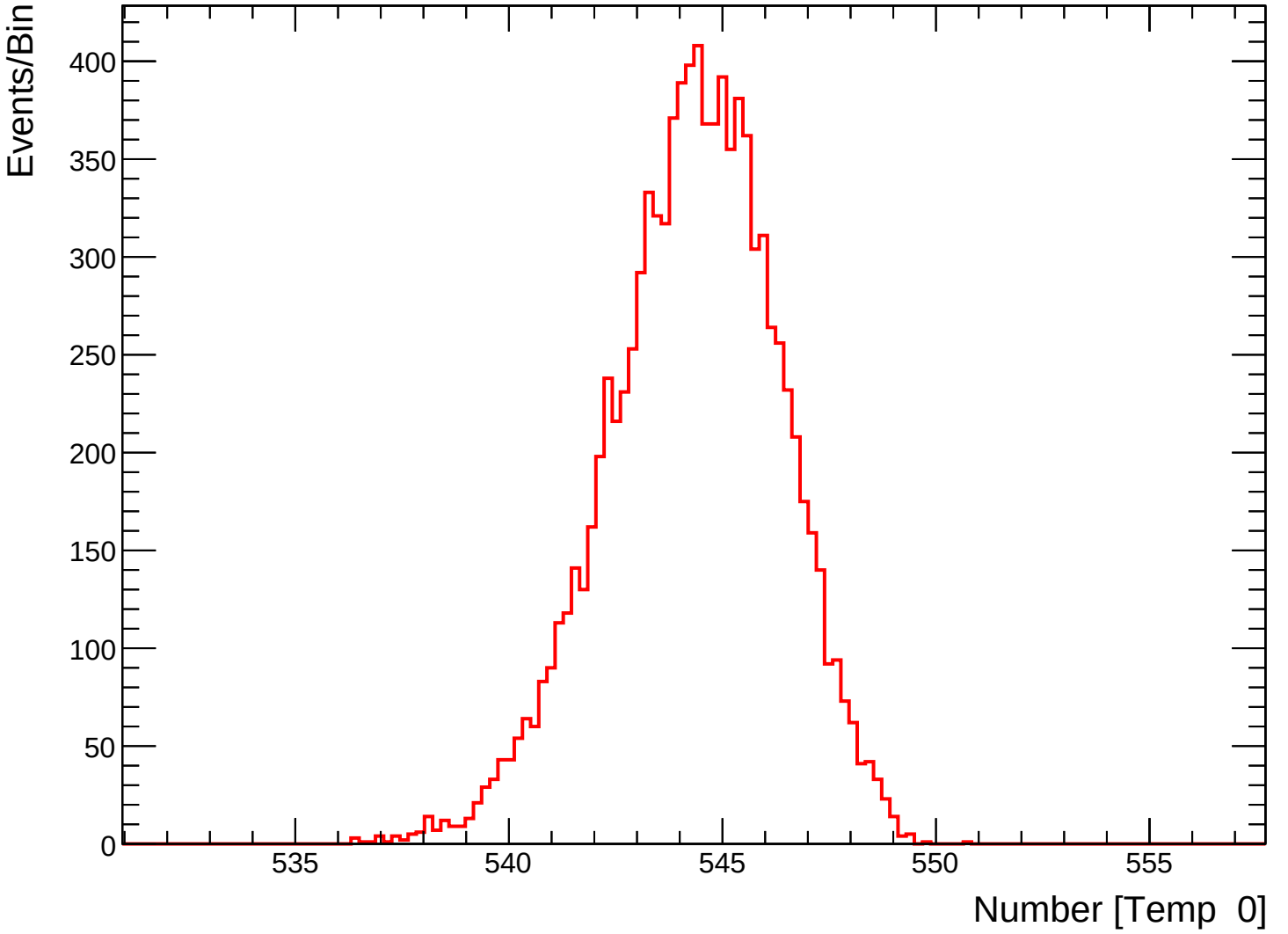

Time 10 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1441.5 ± 39.6)
e⁻+π⁻ (684.4 ± 28.3)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

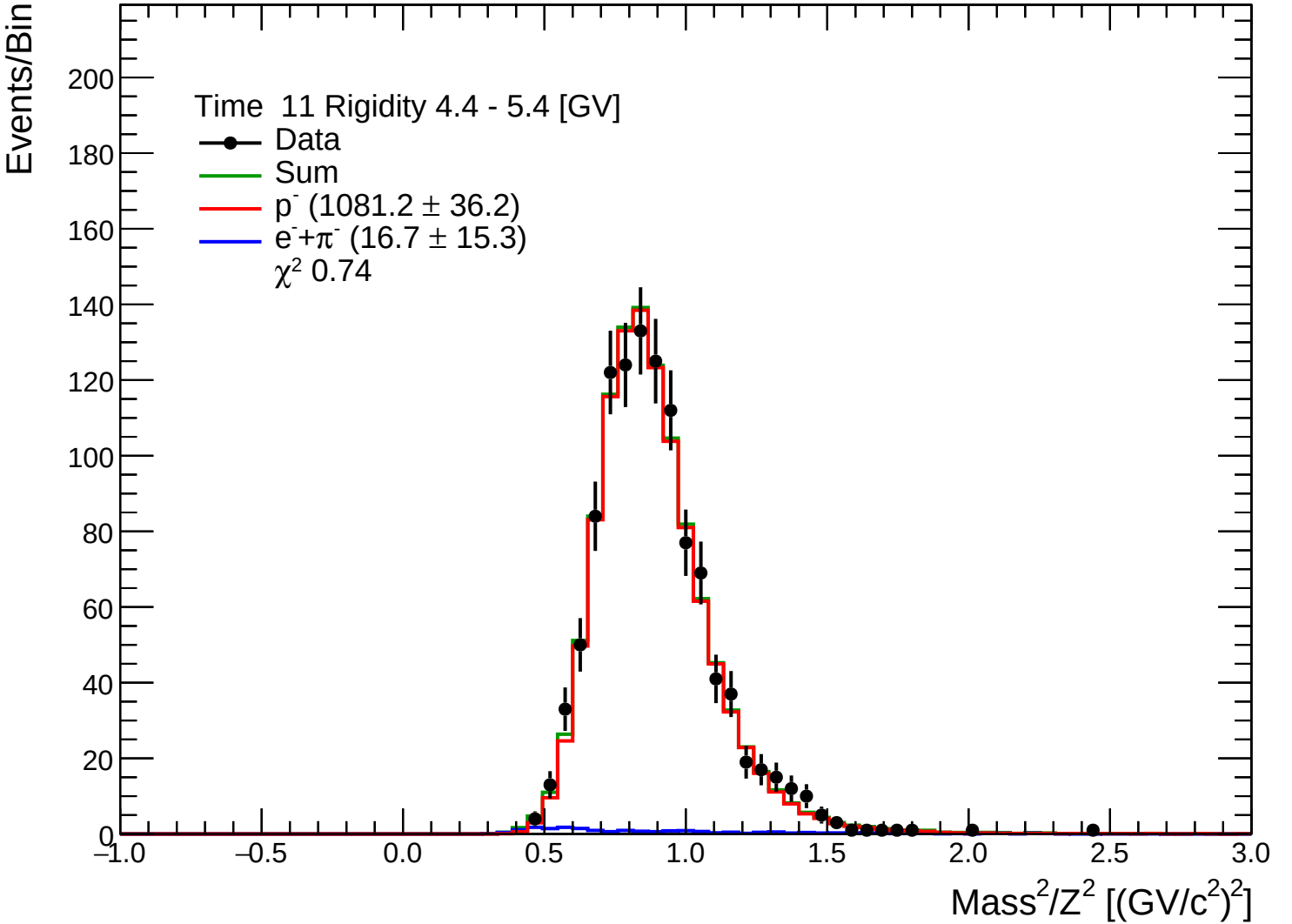

Events/Bin
450
400
350
300
250
200
150
100
50
0
1436
1438
1440
1442
1444
1446
Number [Temp 0]

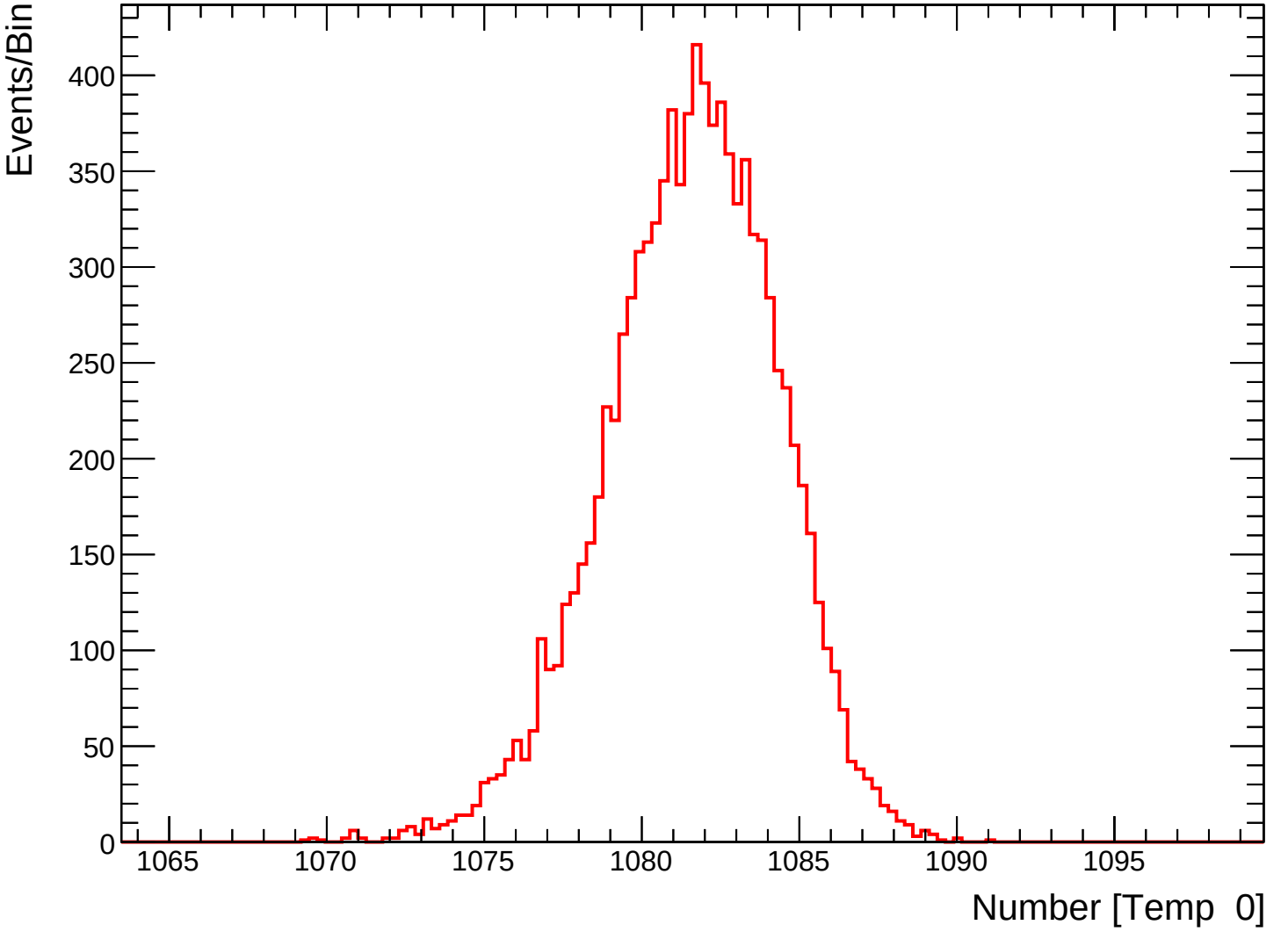

Time 10 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1357.6 ± 39.9)
e⁻+π⁻ (635.3 ± 29.3)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

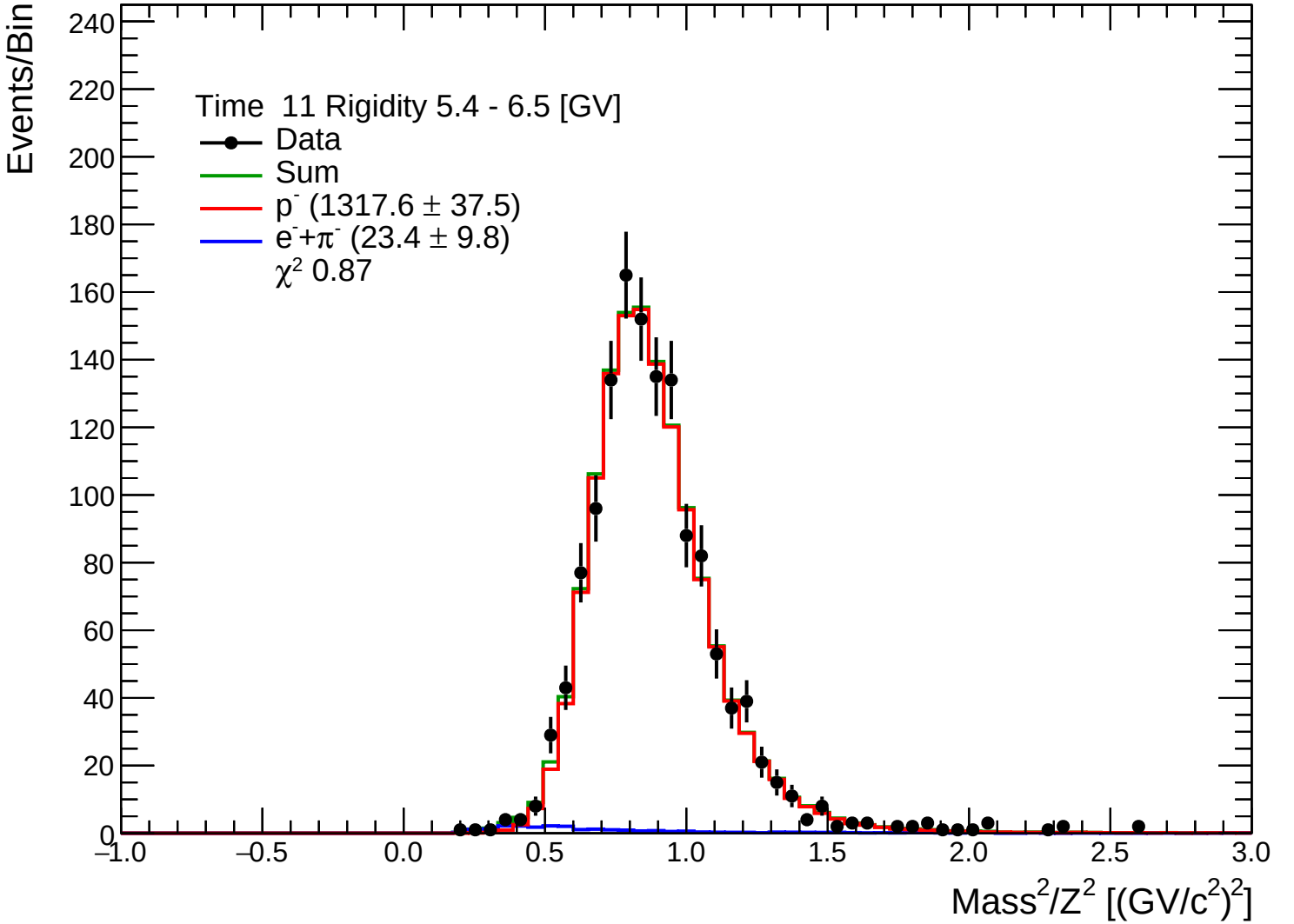

Events/Bin
450
400
350
300
250
200
150
100
50
0
1350
1352
1354
1356
1358
1360
1362
1364
1366
Number [Temp 0]

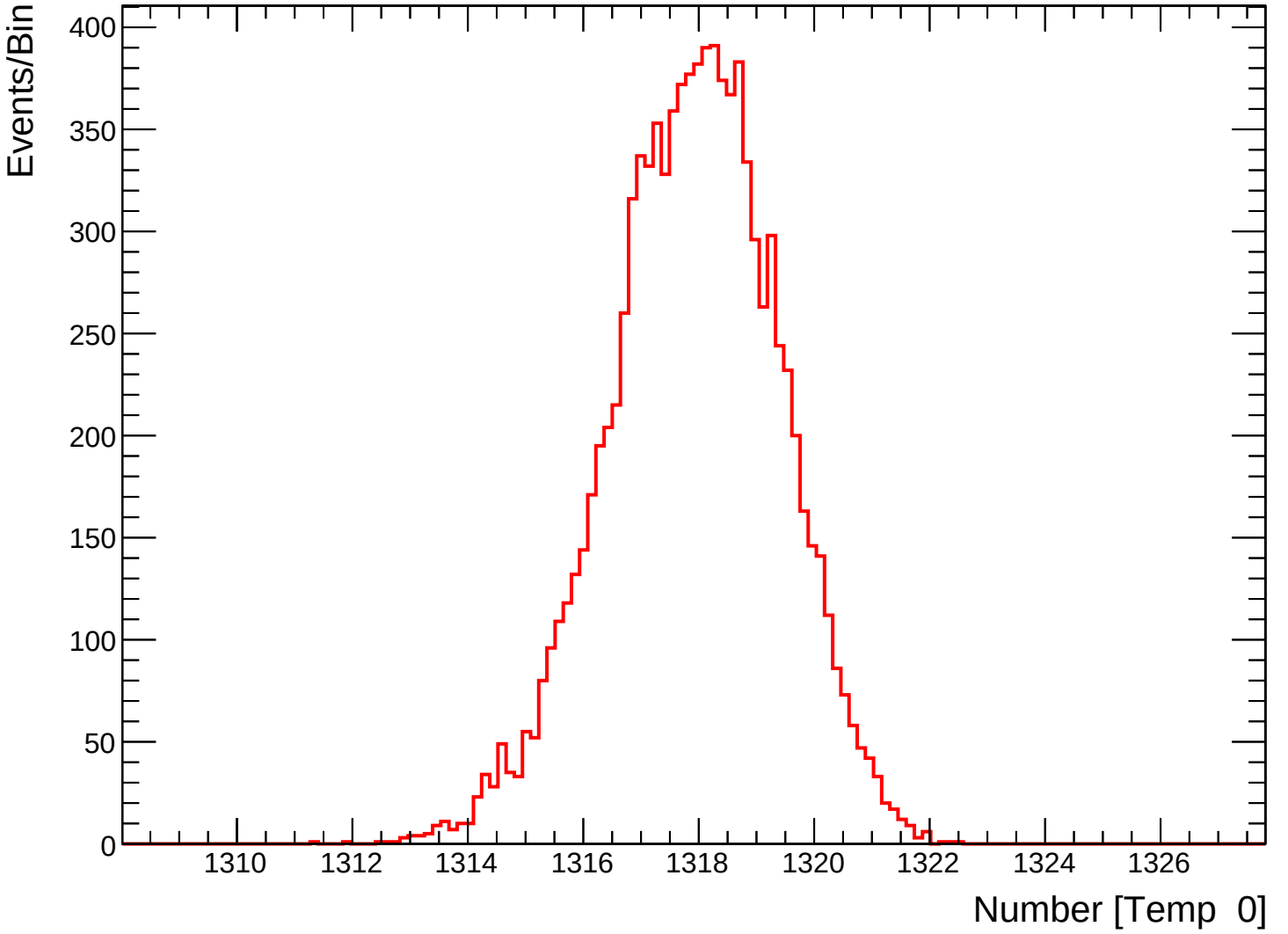

Time 11 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (543.9 ± 26.9)
e⁻+π⁻ (23.6 ± 14.1)
χ² 0.88
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

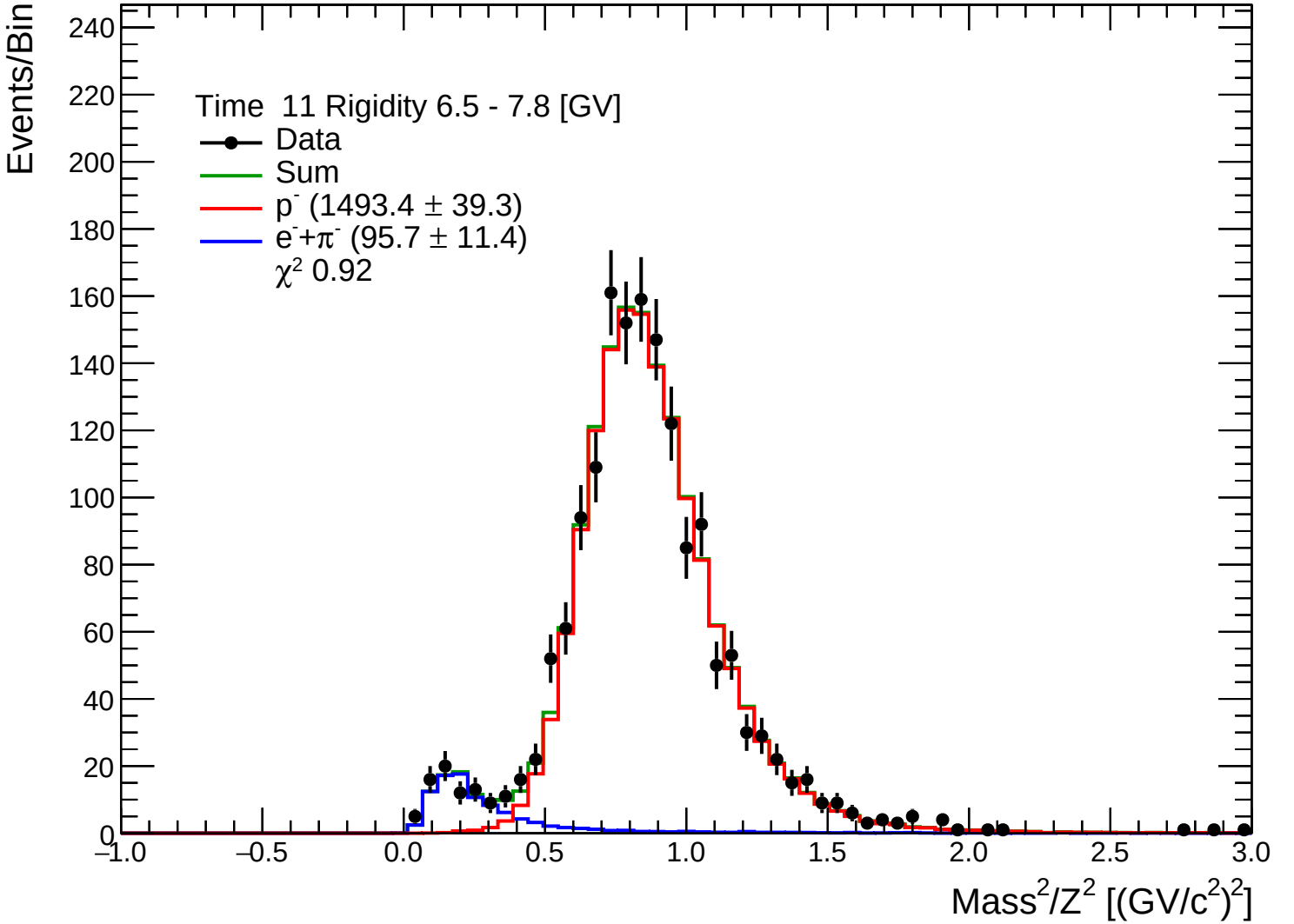

Events/Bin
400
350
300
250
200
150
100
50
0
535
540
545
550
555
Number [Temp 0]

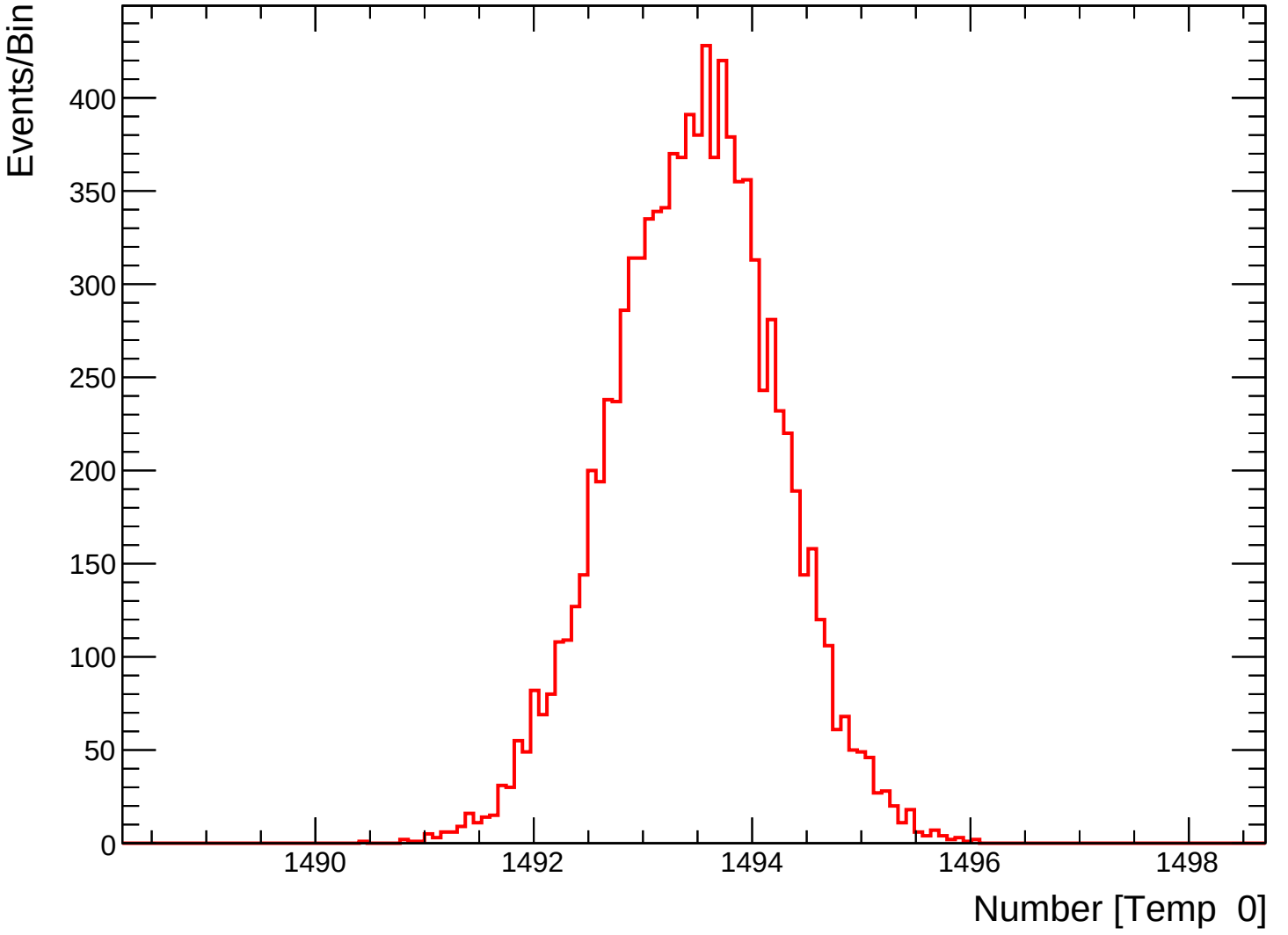

Time 11 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1081.2 ± 36.2)
e⁻+π⁻ (16.7 ± 15.3)
χ² 0.74
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

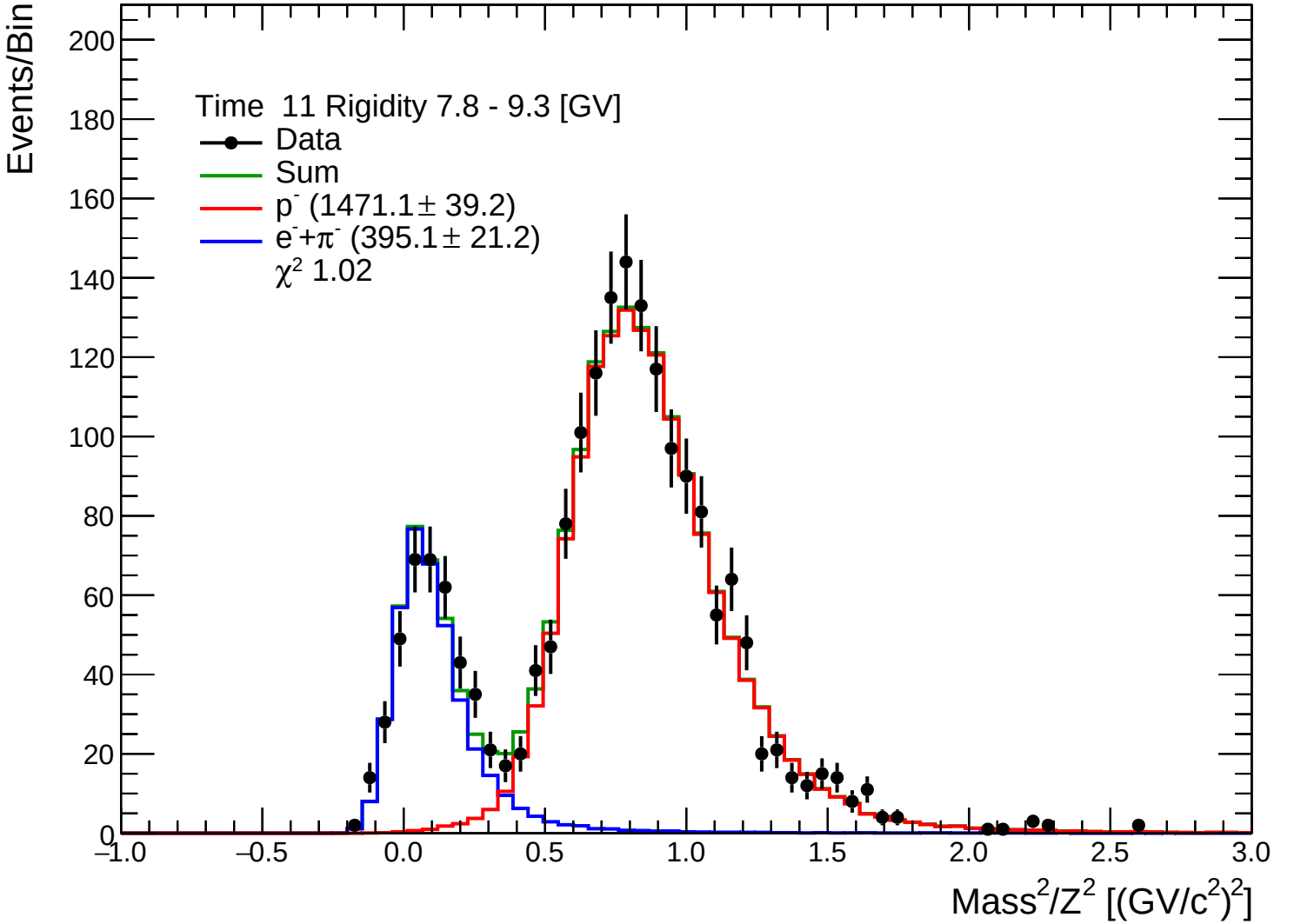

Events/Bin
400
350
300
250
200
150
100
50
0
1065
1070
1075
1080
1085
1090
1095
Number [Temp 0]

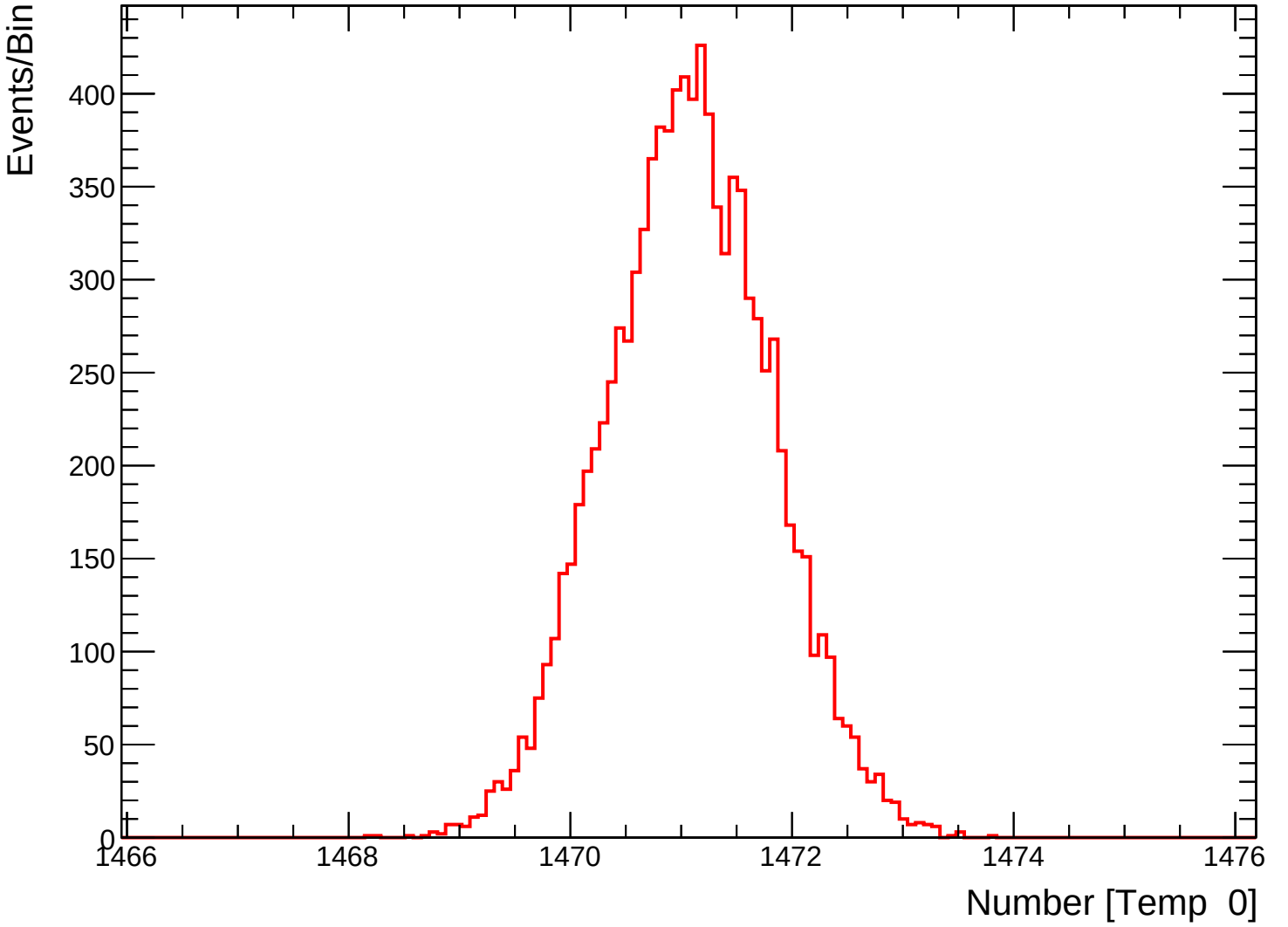

Time 11 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1317.6 ± 37.5)
e⁻+π⁻ (23.4 ± 9.8)
χ² 0.87
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

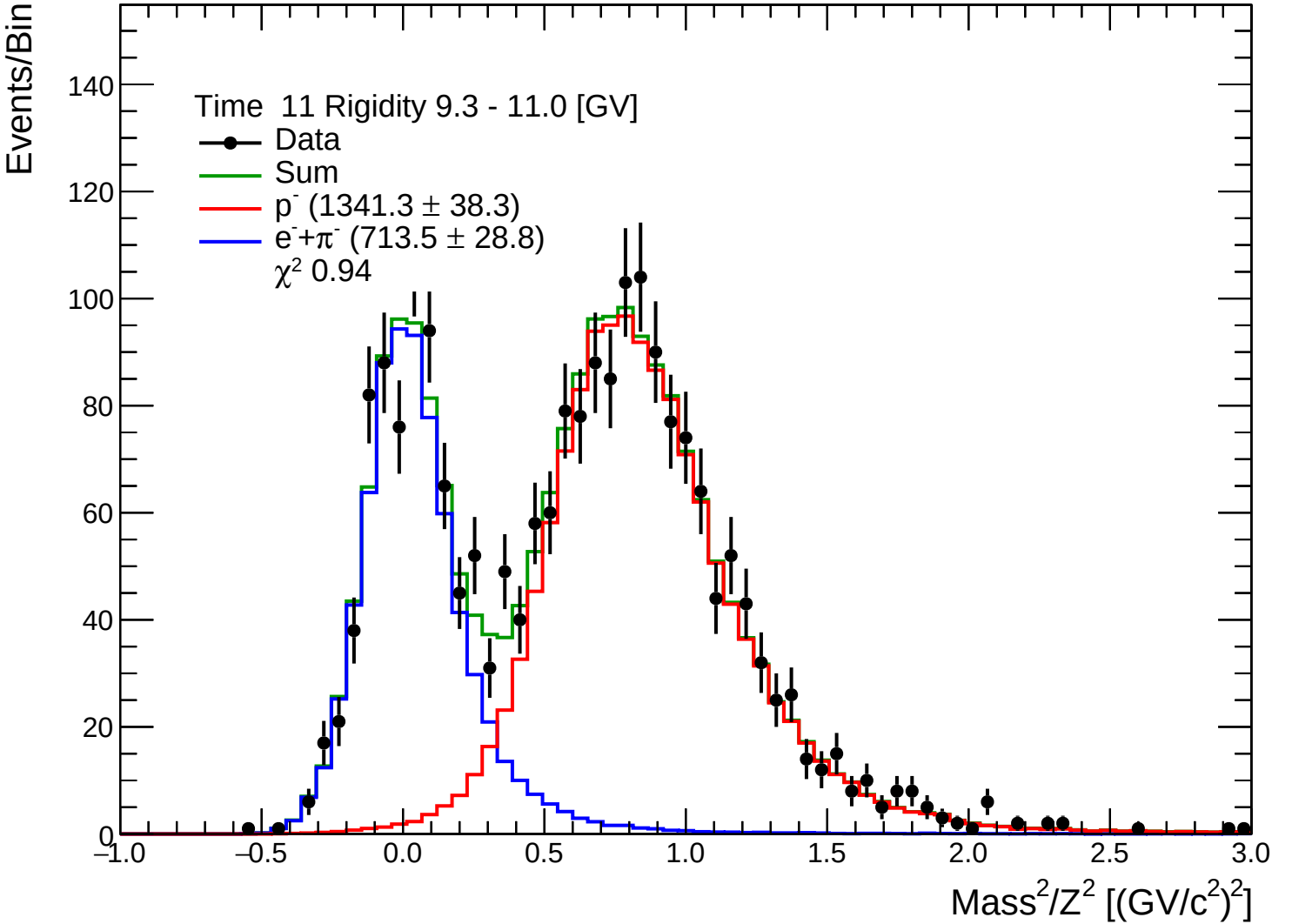

Events/Bin
400
350
300
250
200
150
100
50
0
1310
1312
1314
1316
1318
1320
1322
1324
1326
Number [Temp 0]

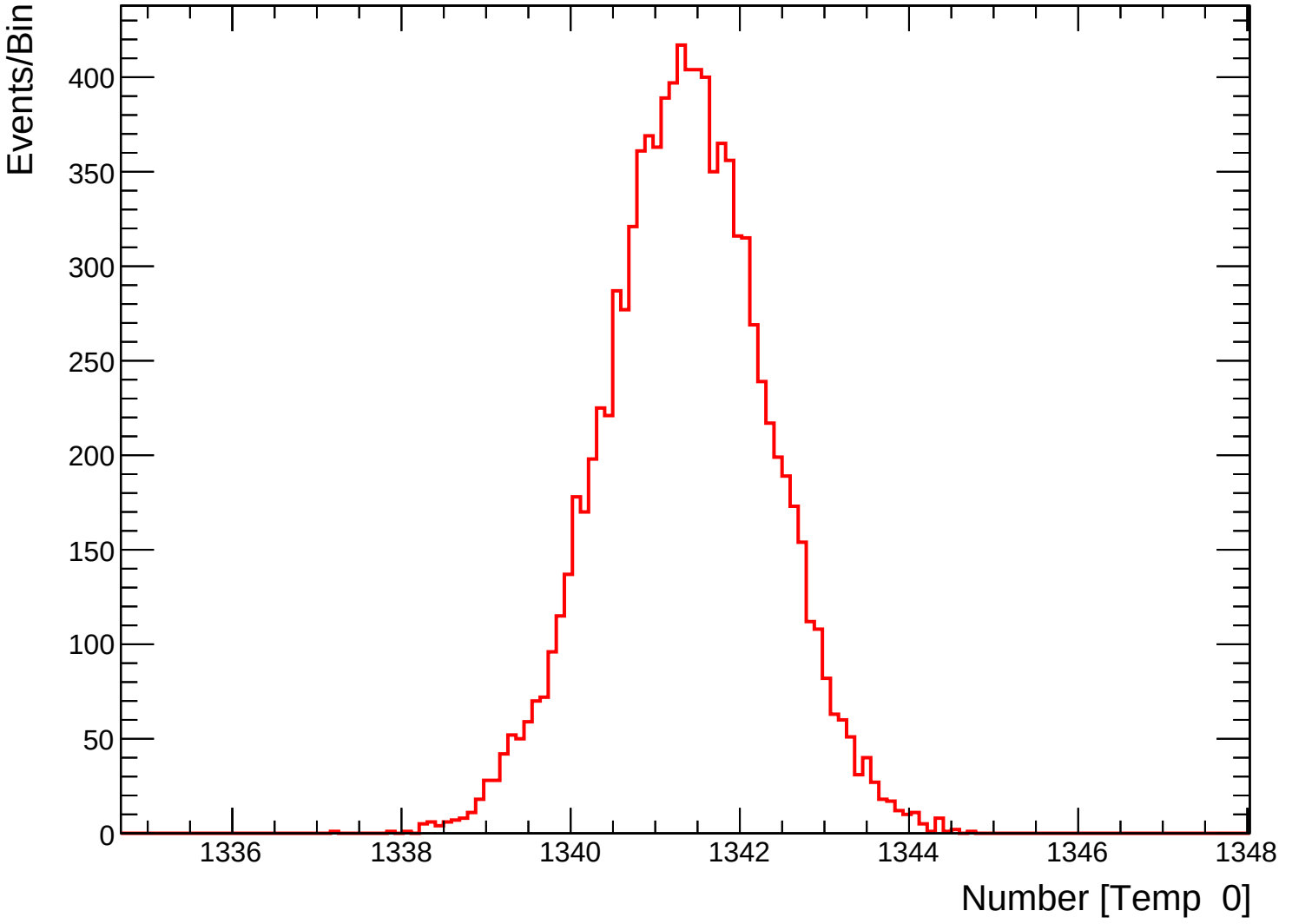

Time 11 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1493.4 ± 39.3)
e⁻+π⁻ (95.7 ± 11.4)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

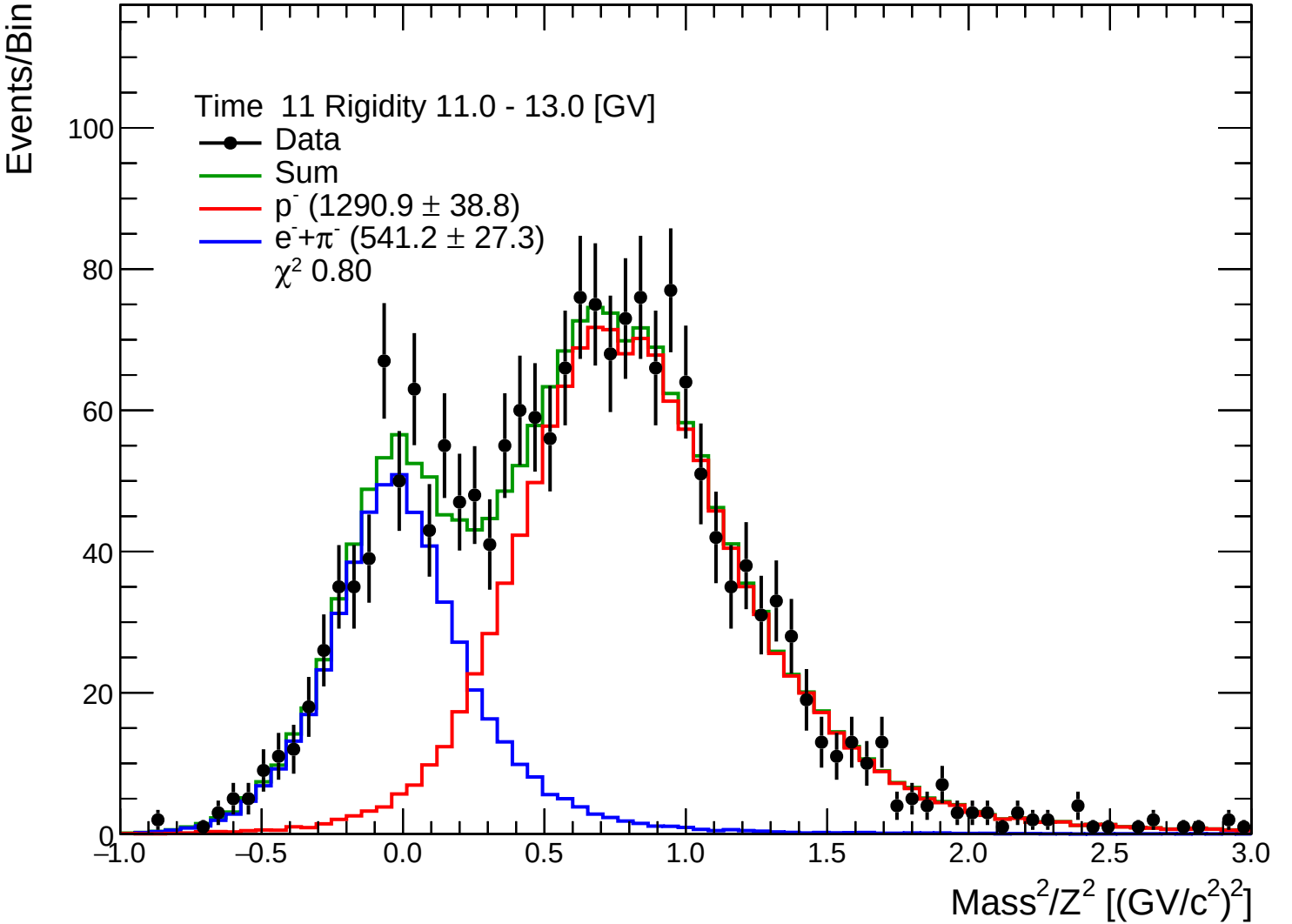

Events/Bin
400
350
300
250
200
150
100
50
0
1490
1492
1494
1496
1498
Number [Temp 0]

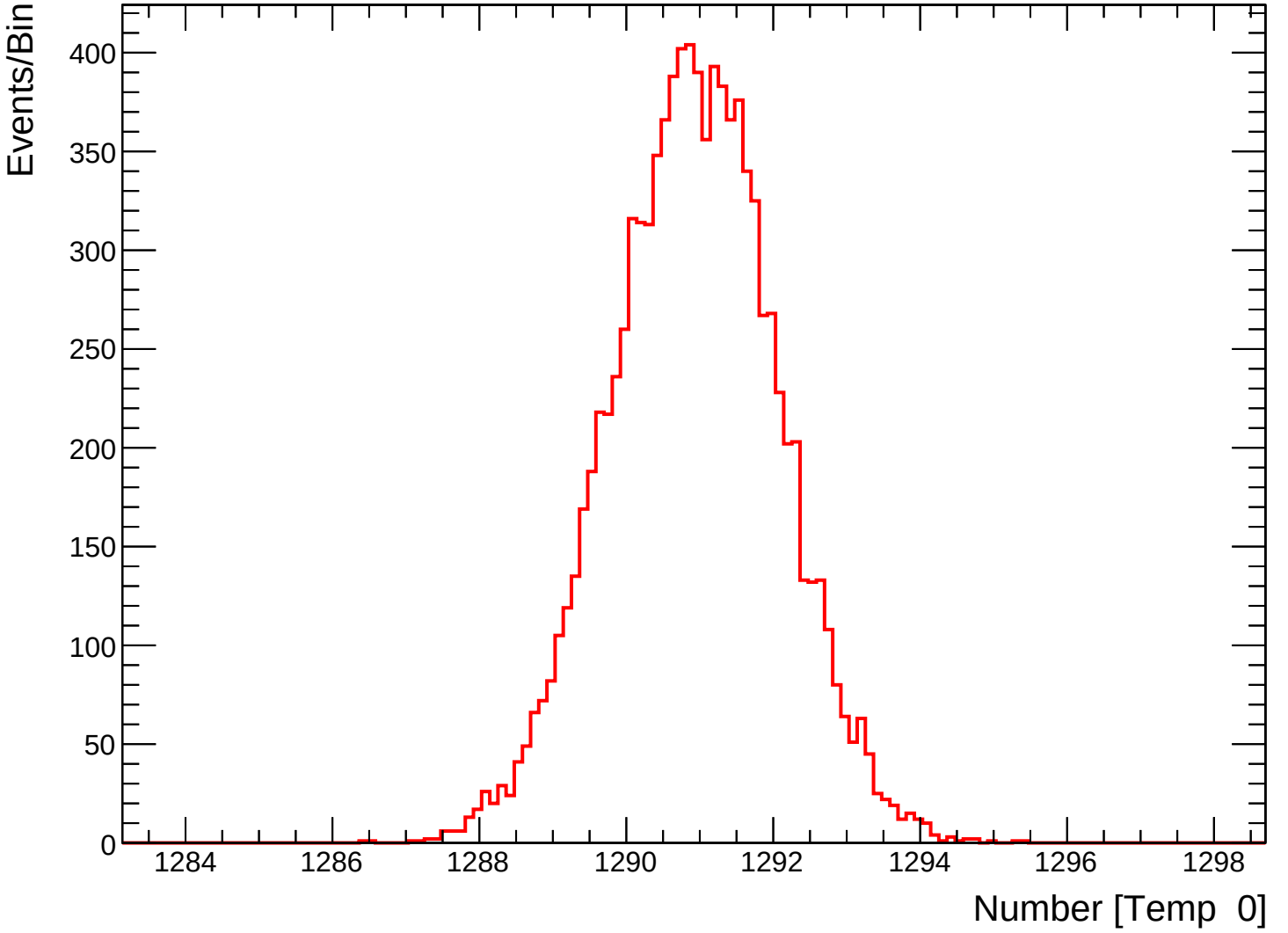

Time 11 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1471.1 ± 39.2)
e⁻+π⁻ (395.1 ± 21.2)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

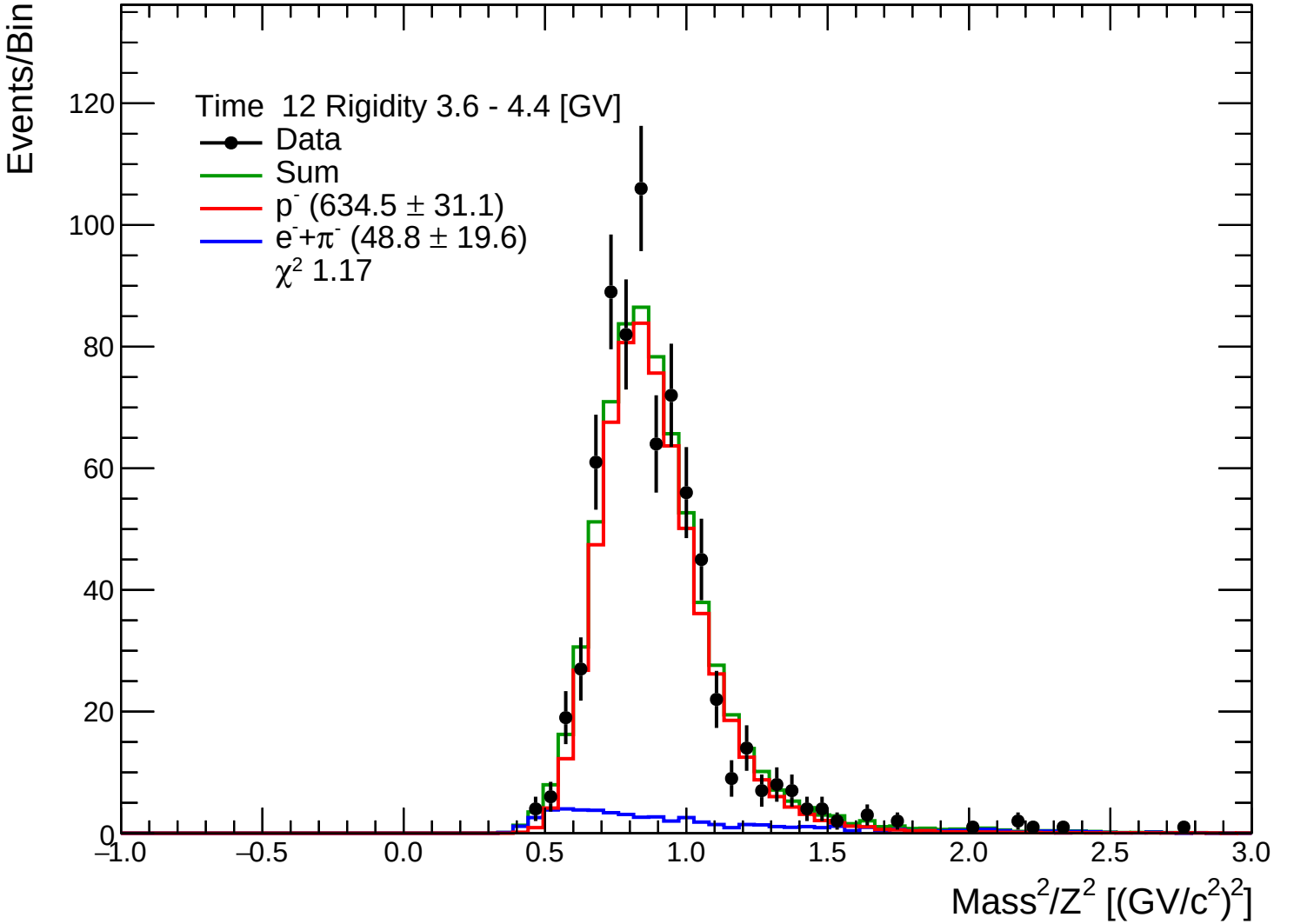

Events/Bin
400
350
300
250
200
150
100
50
0
1466
1468
1470
1472
1474
1476
Number [Temp 0]

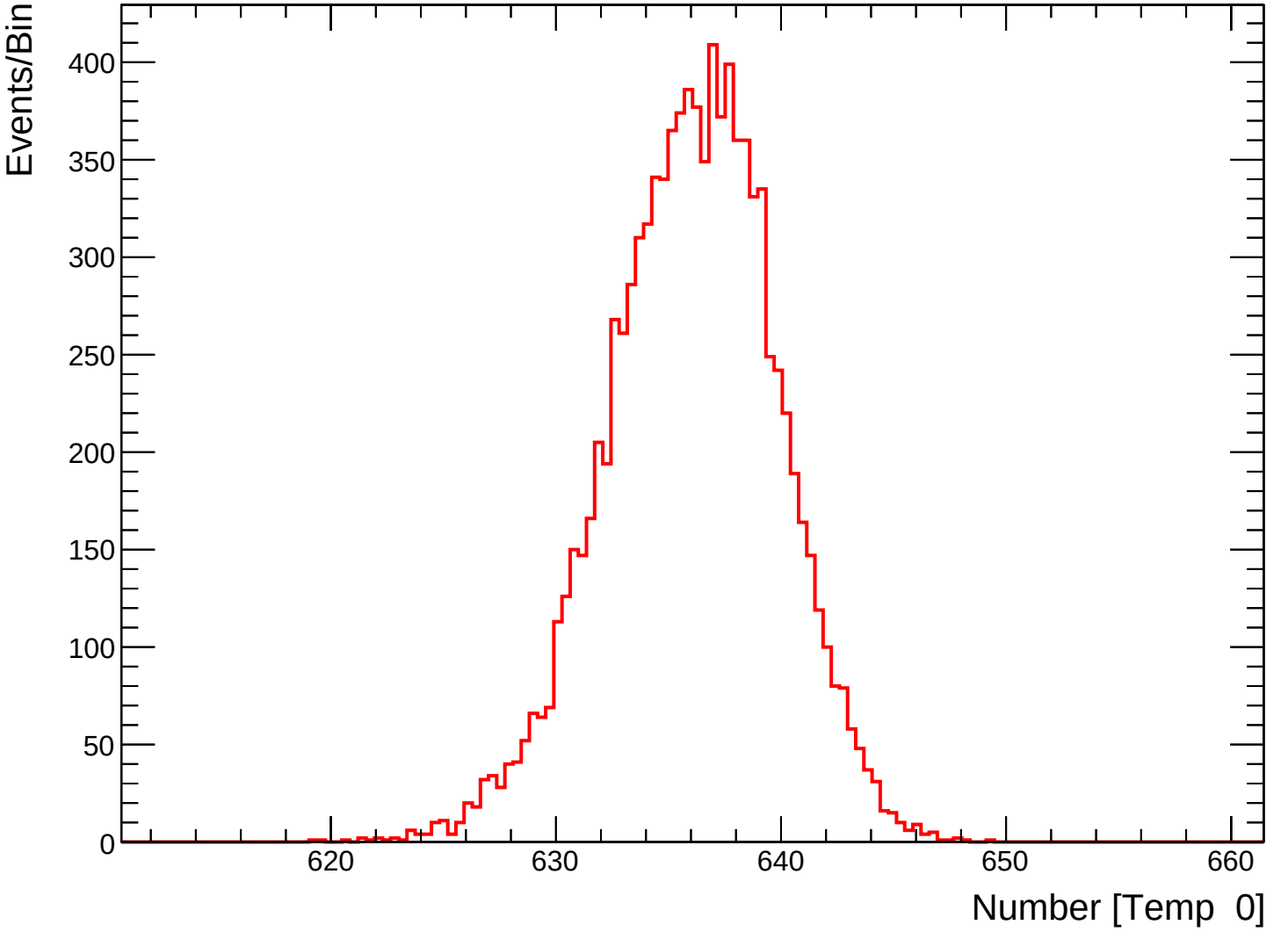

Time 11 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1341.3 ± 38.3)
e⁻+π⁻ (713.5 ± 28.8)
χ² 0.94
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

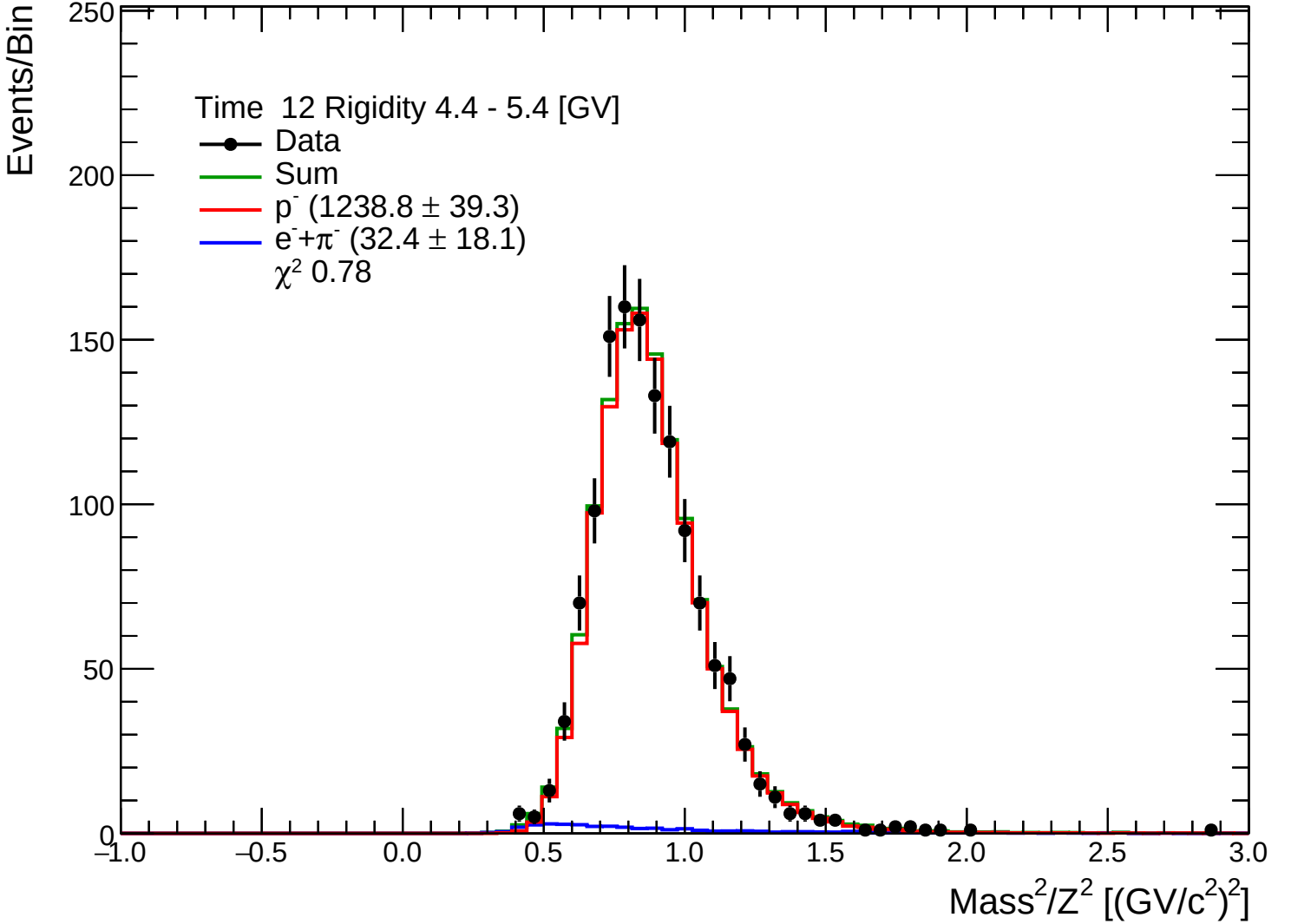

Events/Bin
400
350
300
250
200
150
100
50
0
1336
1338
1340
1342
1344
1346
1348
Number [Temp 0]

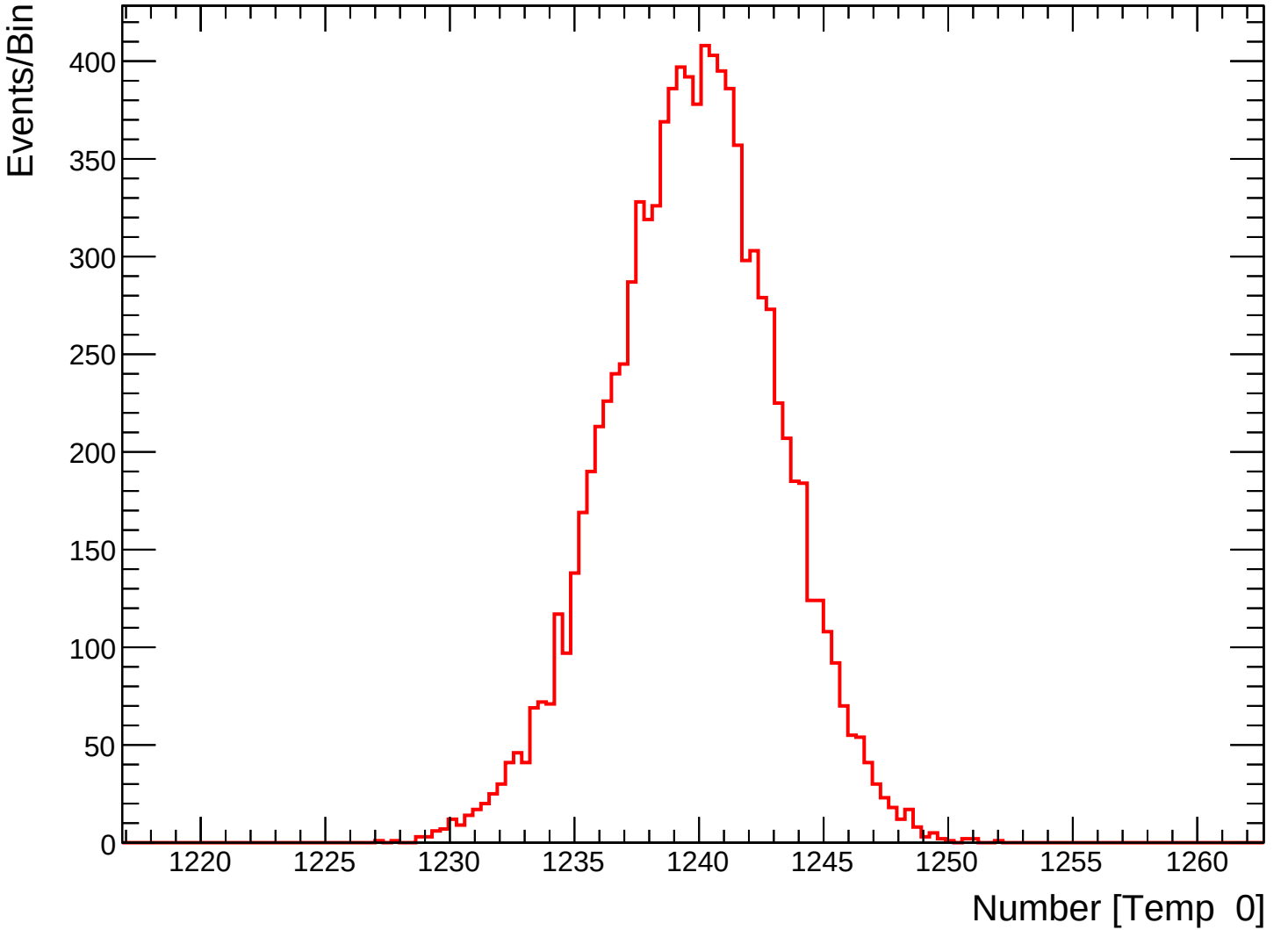

Time 11 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1290.9 ± 38.8)
e⁻+π⁻ (541.2 ± 27.3)
χ² 0.80
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

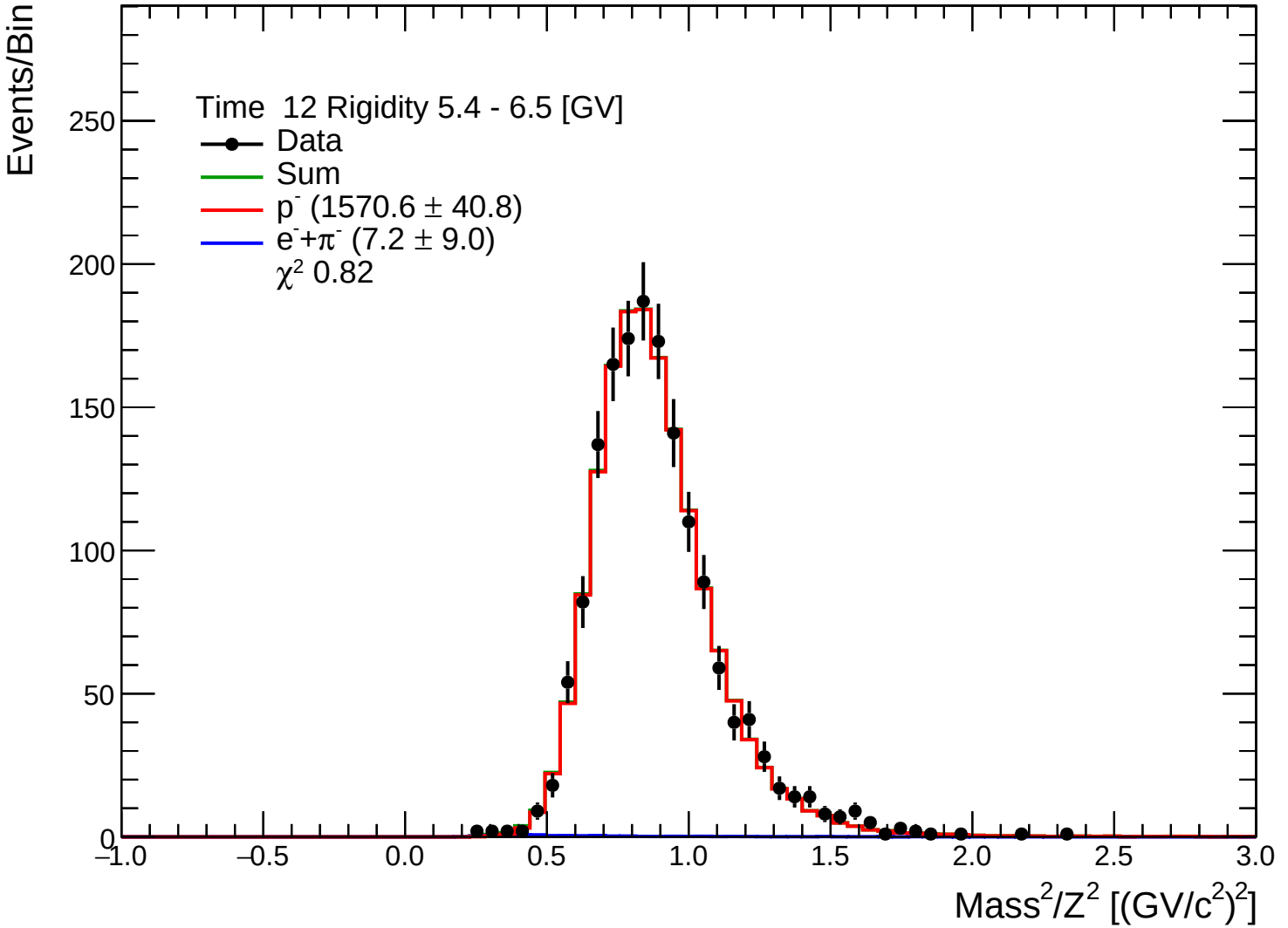

Events/Bin
400
350
300
250
200
150
100
50
0
1284
1286
1288
1290
1292
1294
1296
1298
Number [Temp 0]

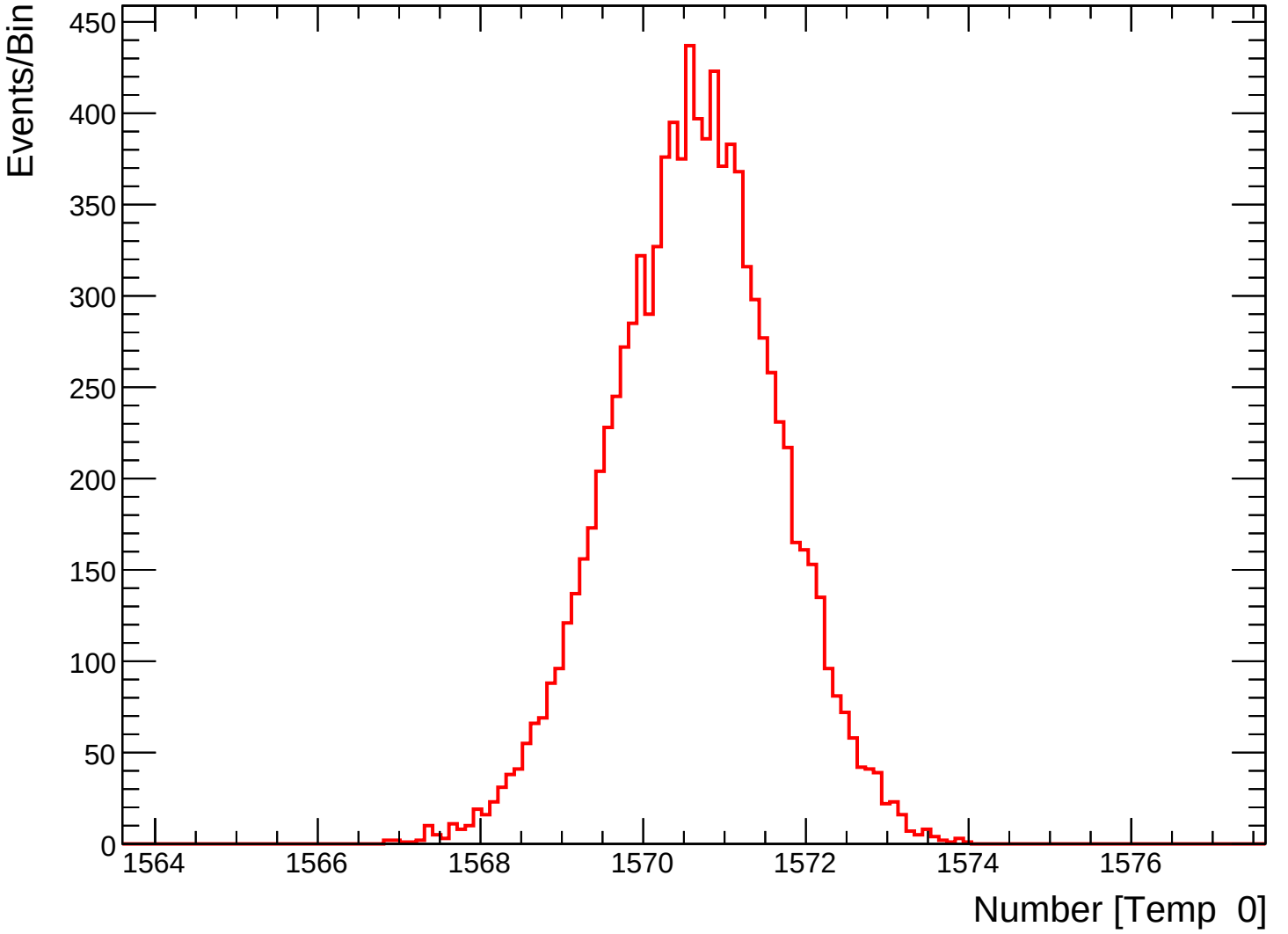

Time 12 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (634.5 ± 31.1)
e⁻+π⁻ (48.8 ± 19.6)
χ² 1.17
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

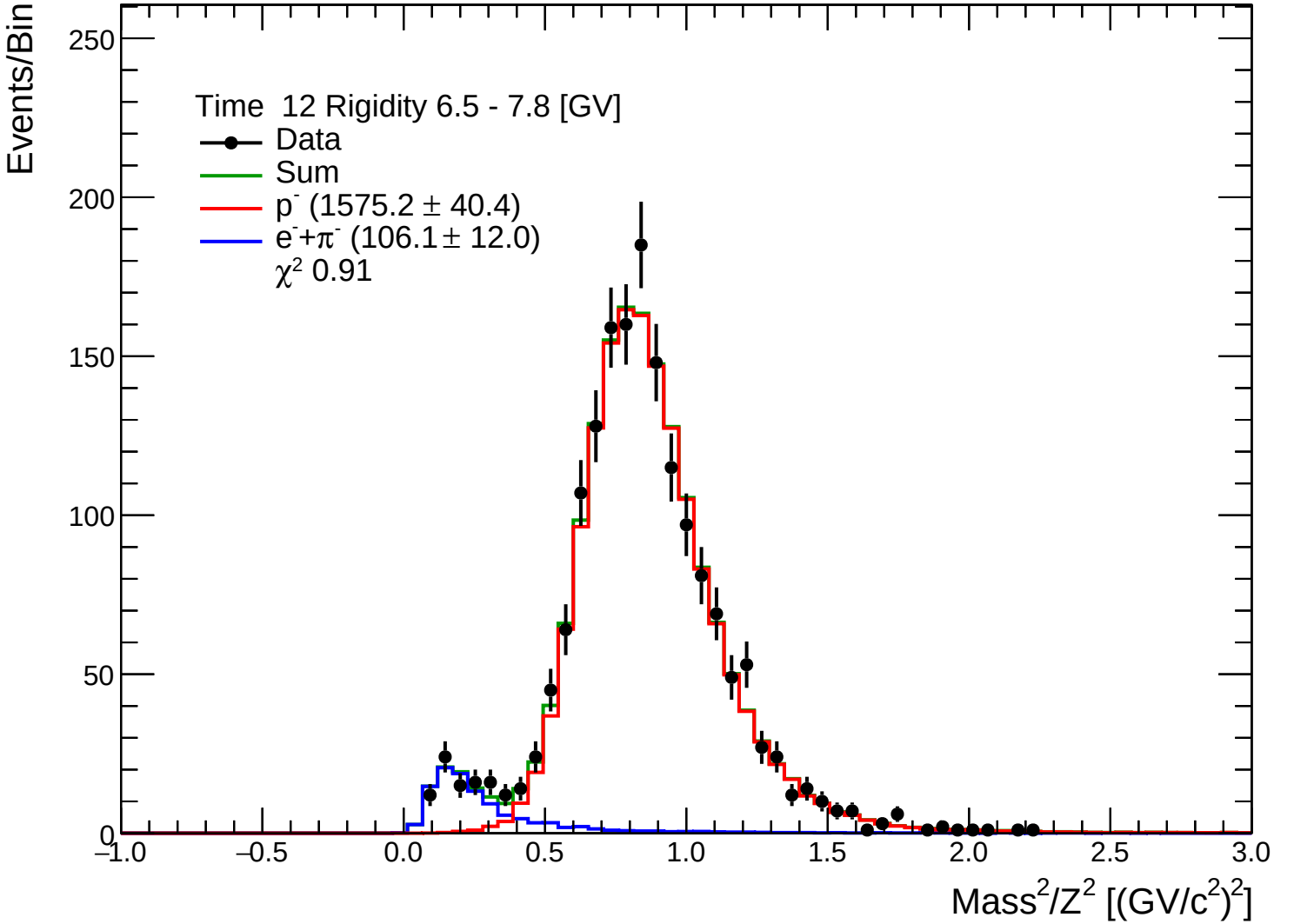

Events/Bin
400
350
300
250
200
150
100
50
0
620
630
640
650
660
Number [Temp 0]

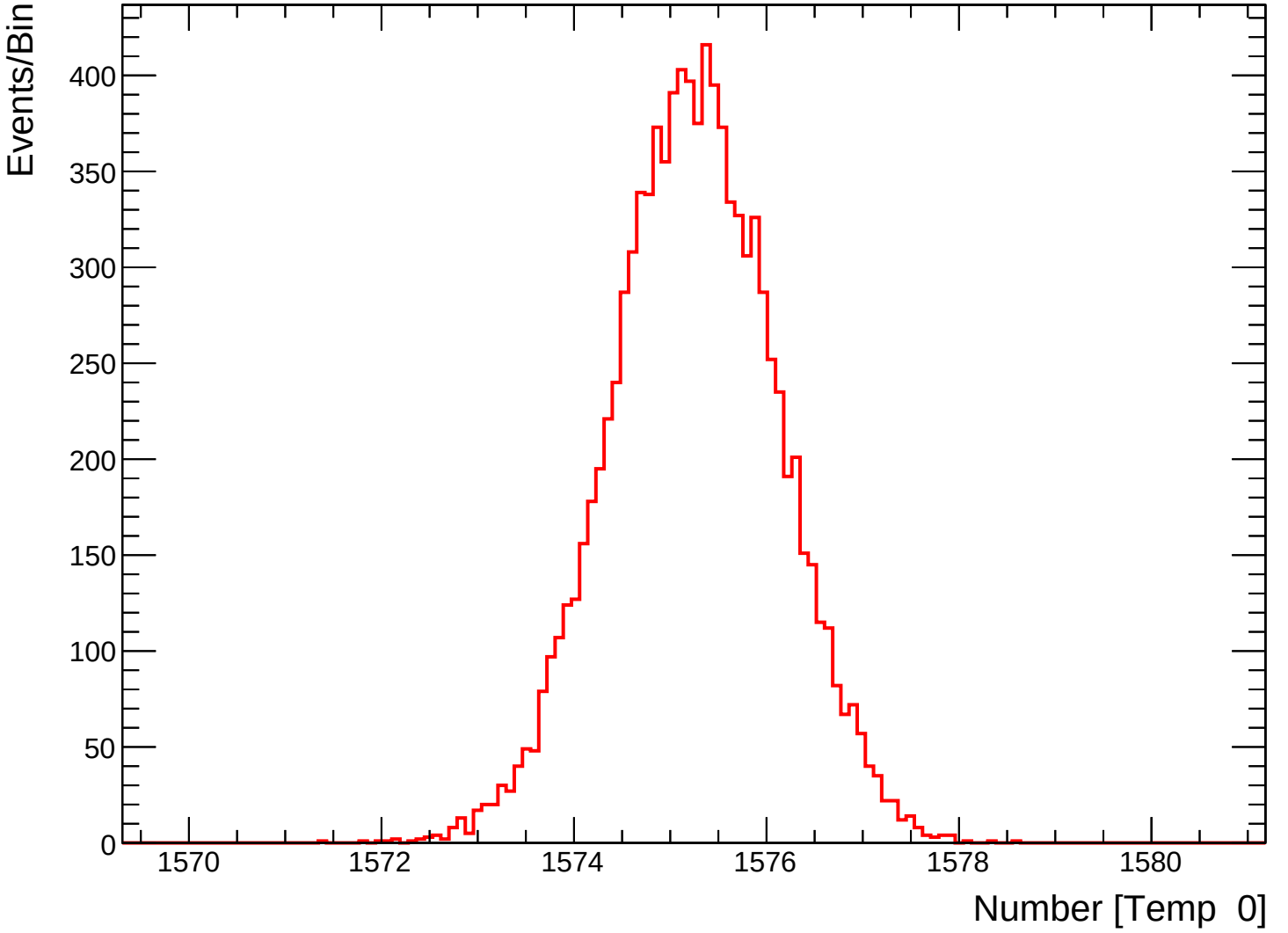

Time 12 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1238.8 ± 39.3)
e⁻+π⁻ (32.4 ± 18.1)
χ² 0.78
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

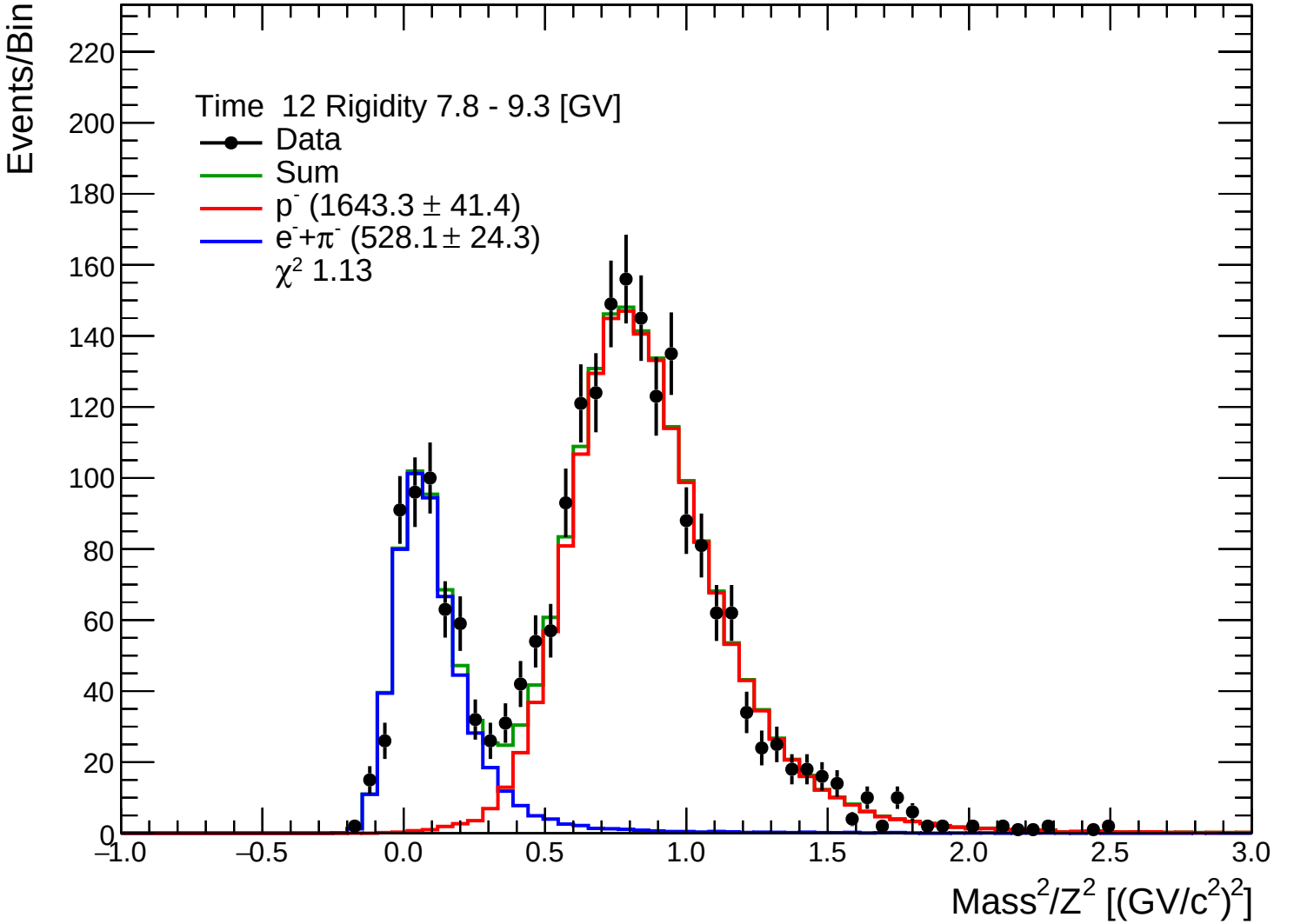

Events/Bin
400
350
300
250
200
150
100
50
0
1220
1225
1230
1235
1240
1245
1250
1255
1260
Number [Temp 0]

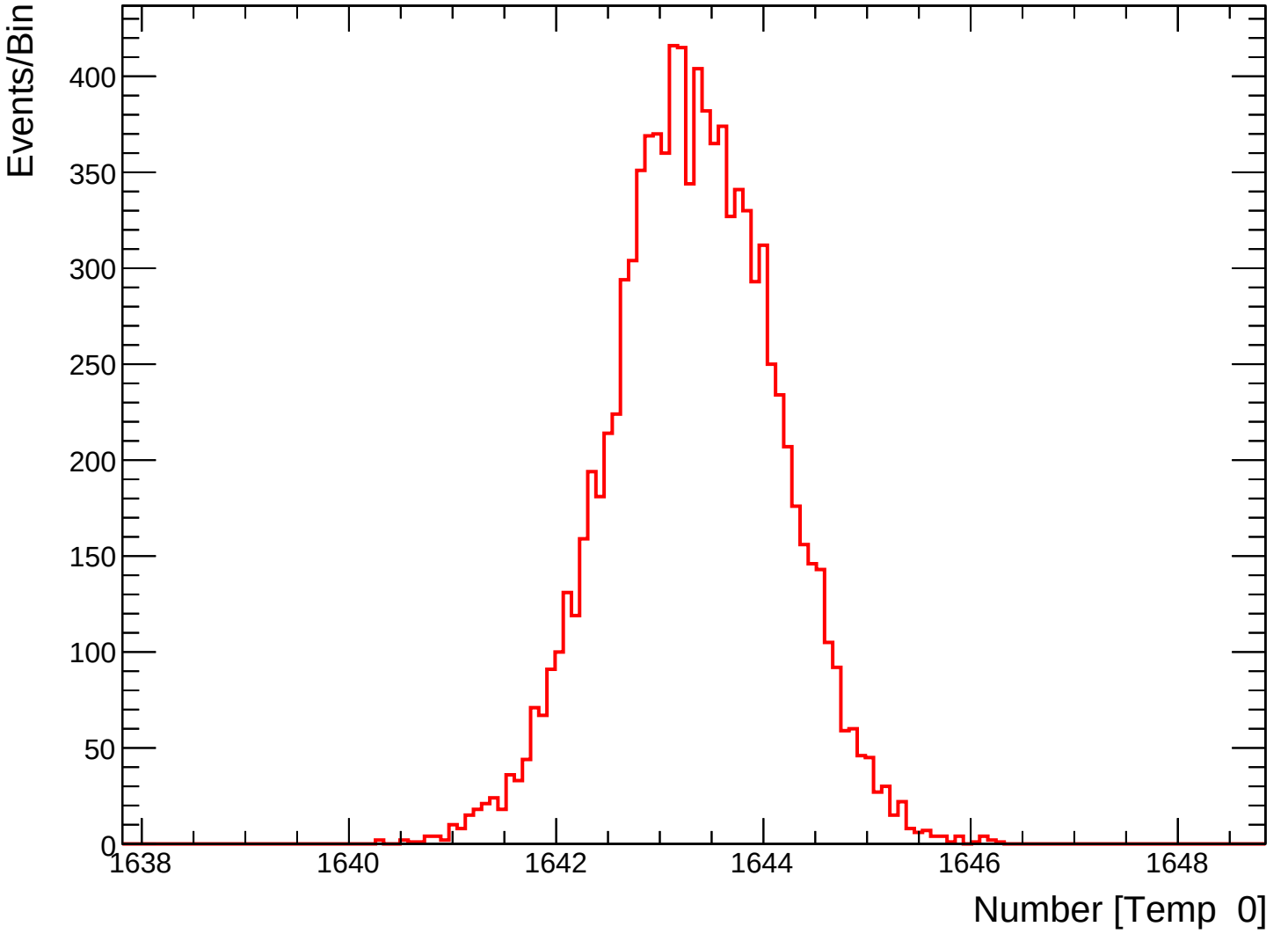

Time 12 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1570.6 ± 40.8)
e⁻+π⁻ (7.2 ± 9.0)
χ² 0.82
Events/Bin
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Mass²/Z² [(GV/c²)²]

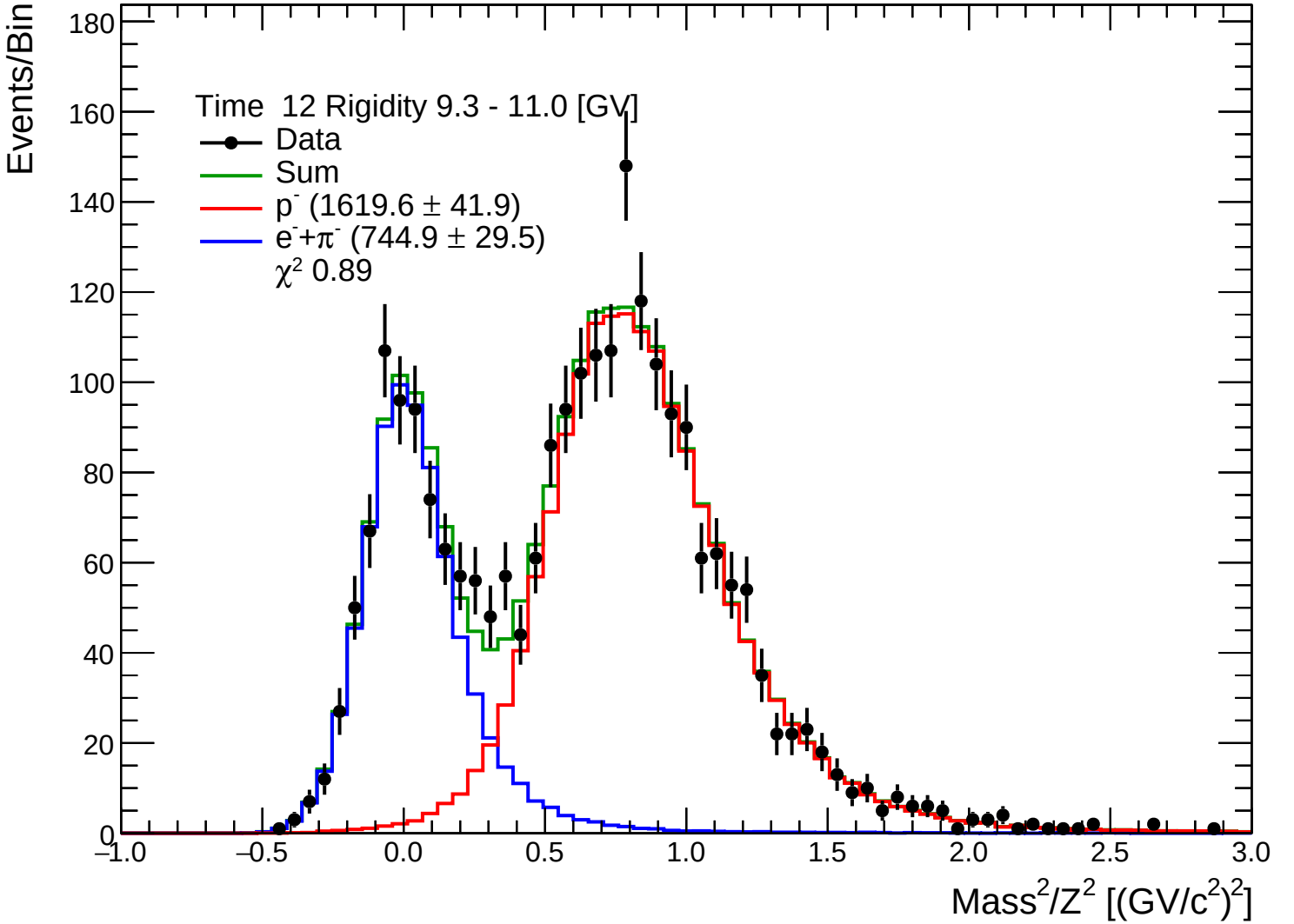

Events/Bin
450
400
350
300
250
200
150
100
50
0
1564
1566
1568
1570
1572
1574
1576
Number [Temp 0]

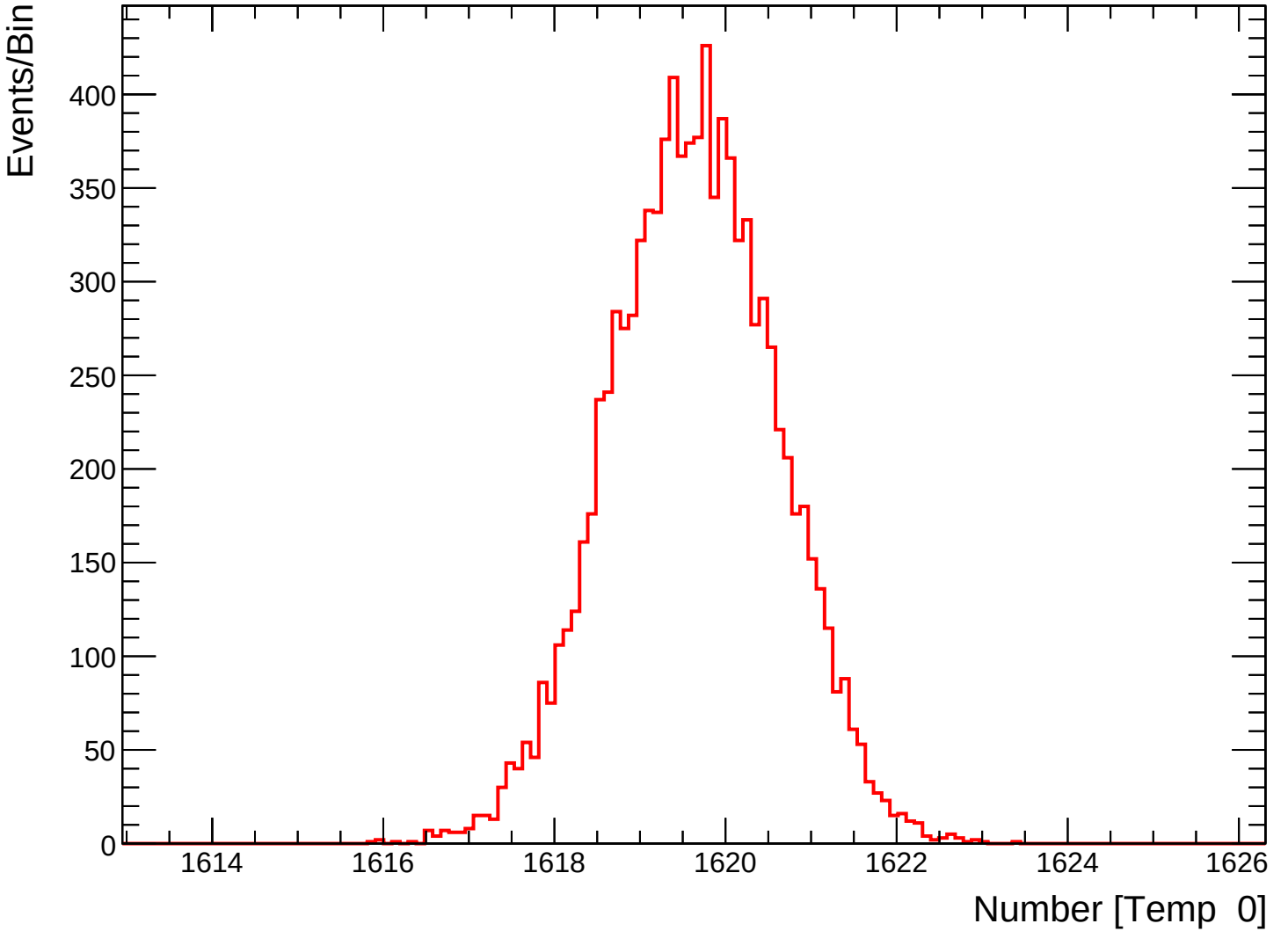

Time 12 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1575.2 ± 40.4)
e⁻+π⁻ (106.1 ± 12.0)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

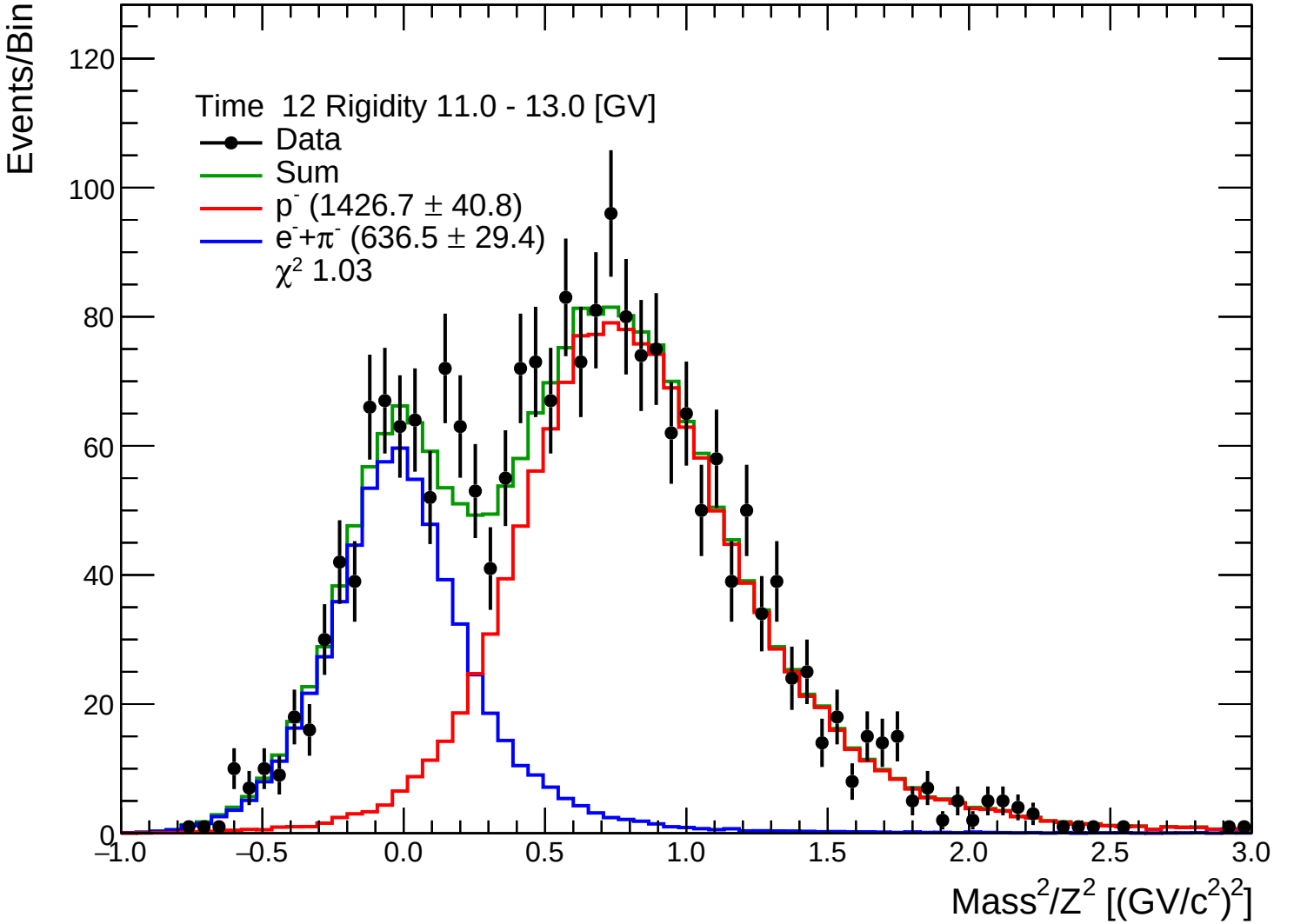

Events/Bin
400
350
300
250
200
150
100
50
0
1570
1572
1574
1576
1578
1580
Number [Temp 0]

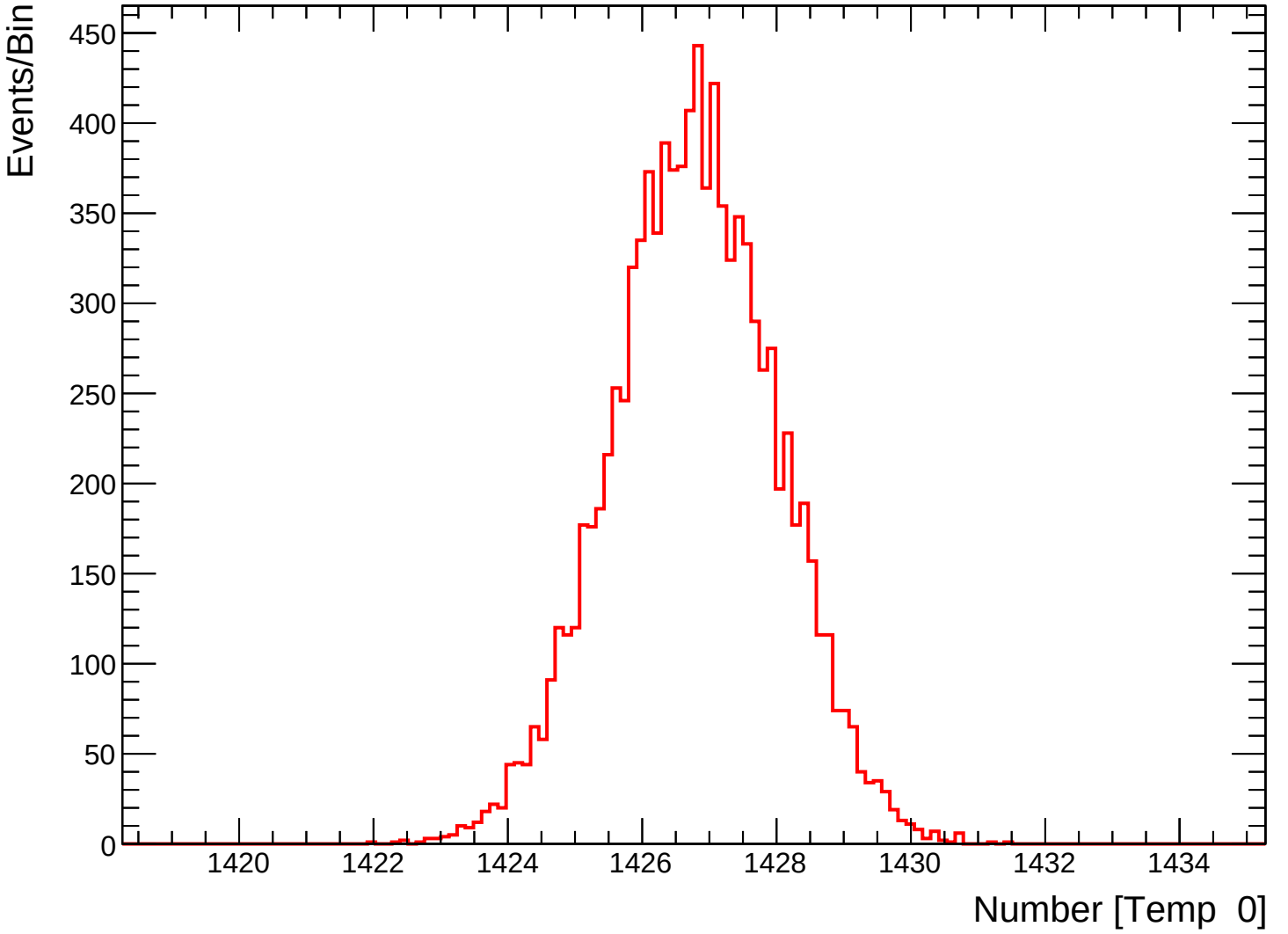

Time 12 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1643.3 ± 41.4)
e⁻+π⁻ (528.1 ± 24.3)
χ² 1.13
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

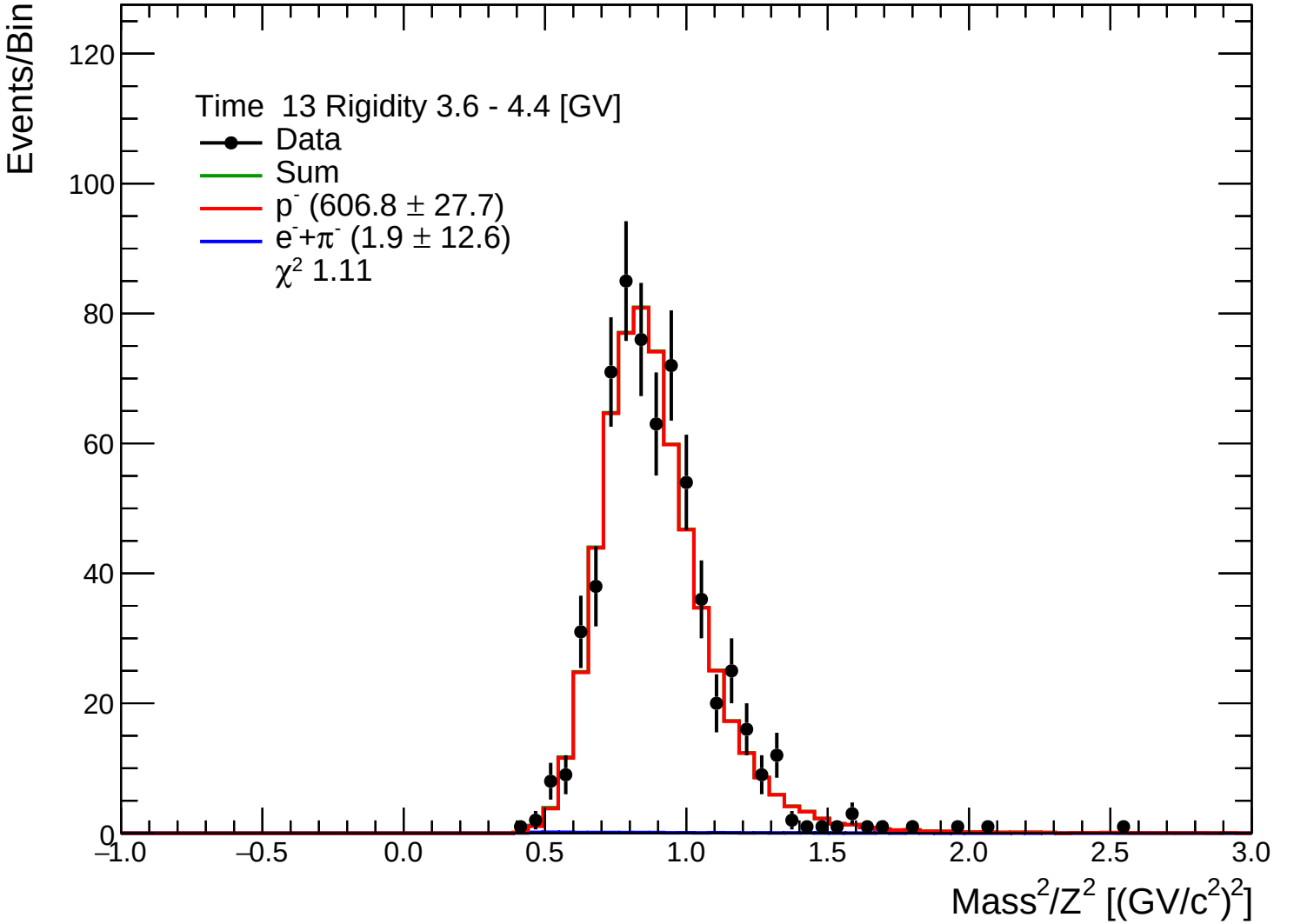

Events/Bin
400
350
300
250
200
150
100
50
0
1638
1640
1642
1644
1646
1648
Number [Temp 0]

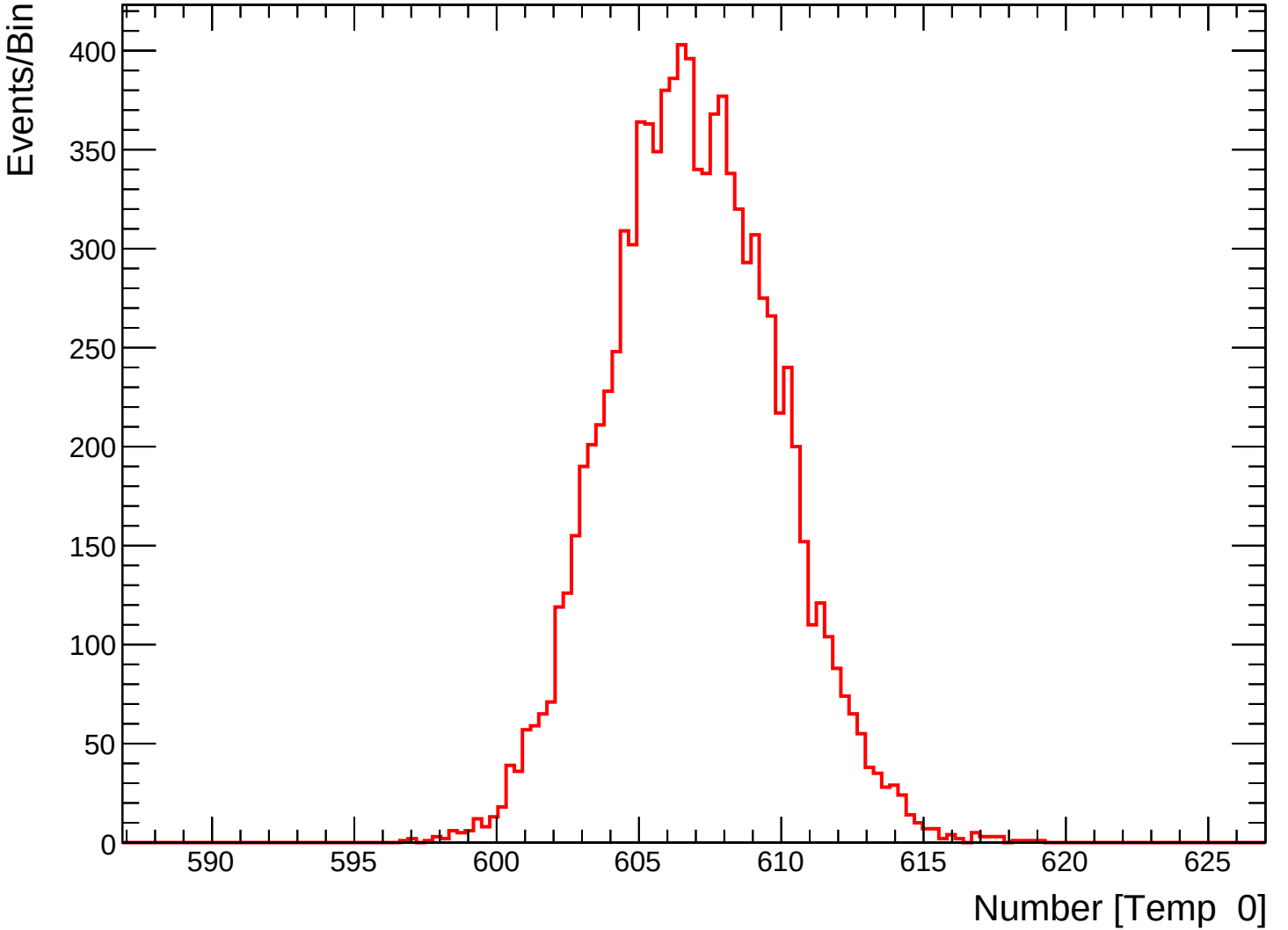

Time 12 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1619.6 ± 41.9)
e⁻+π⁻ (744.9 ± 29.5)
χ² 0.89
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

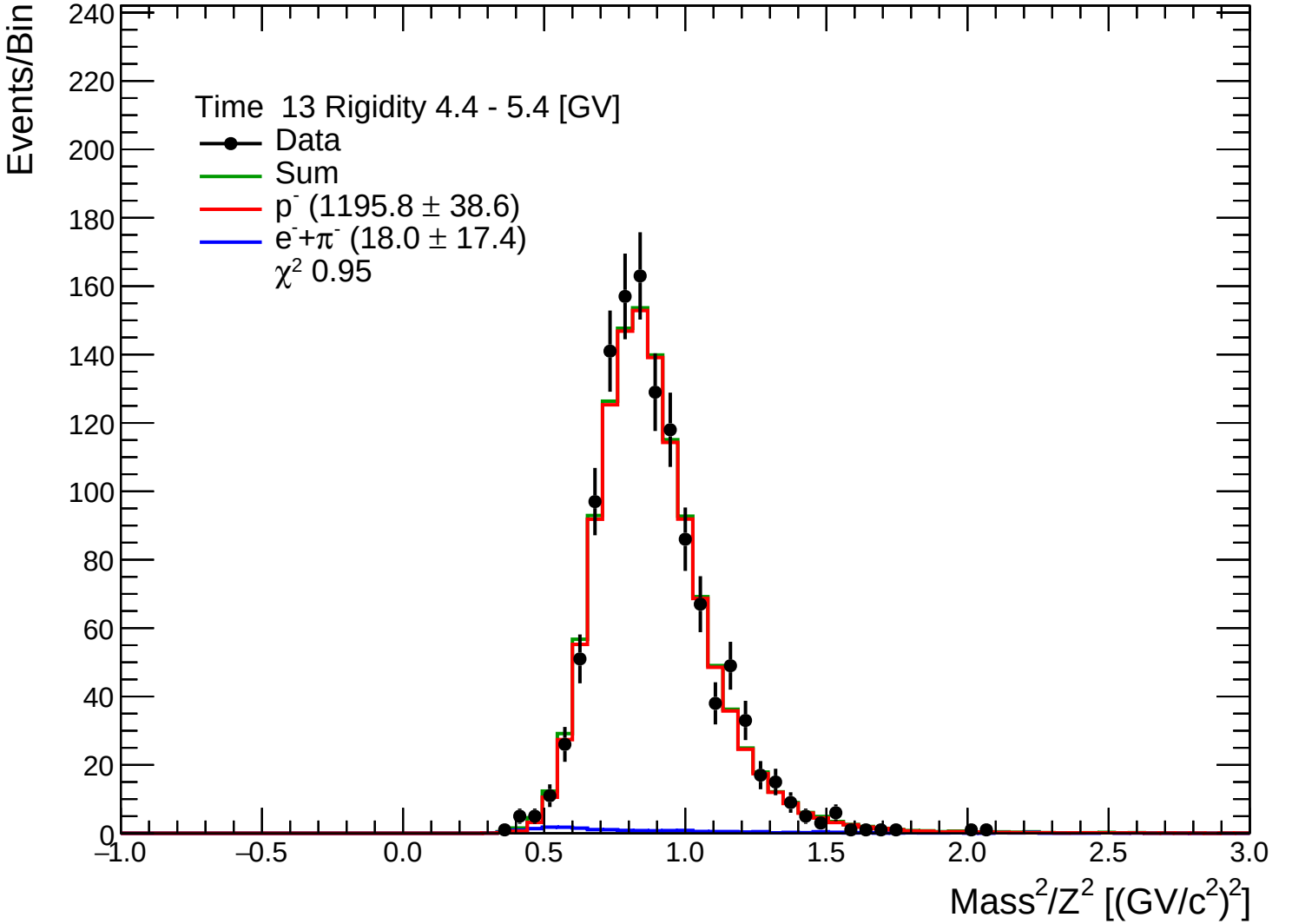

Events/Bin
400
350
300
250
200
150
100
50
0
1614
1616
1618
1620
1622
1624
1626
Number [Temp 0]

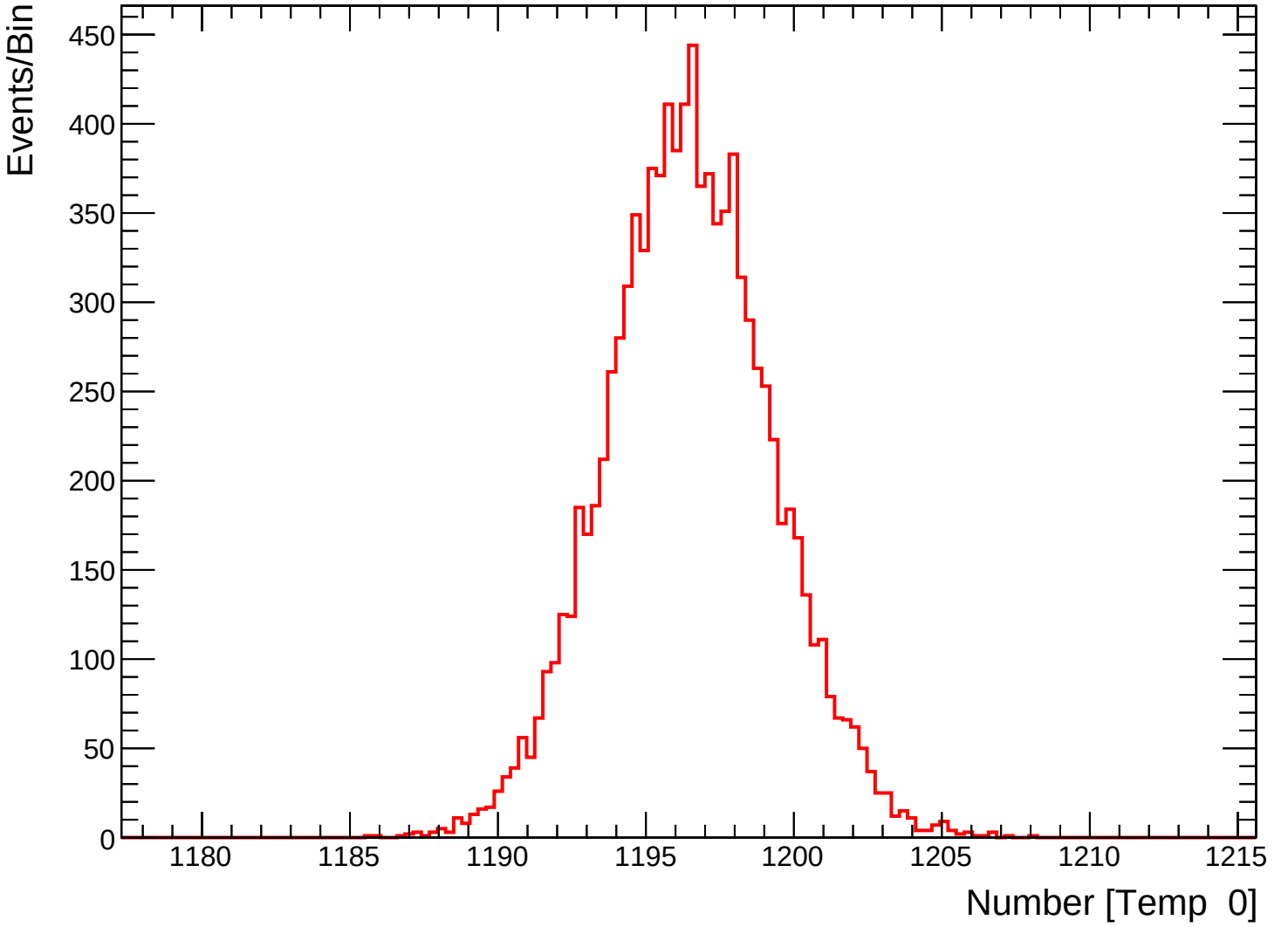

Time 12 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1426.7 ± 40.8)
e⁻+π⁻ (636.5 ± 29.4)
χ² 1.03
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

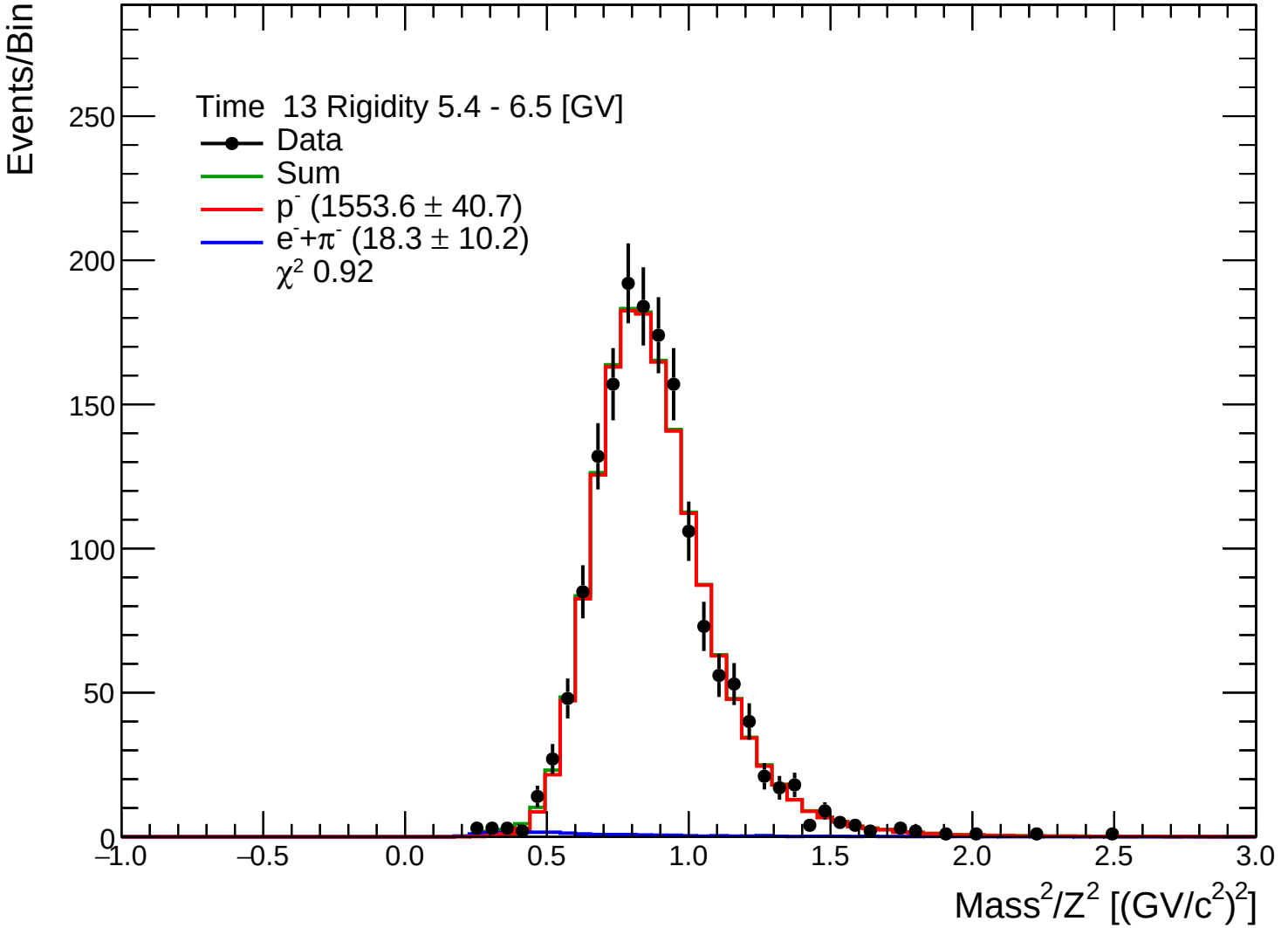

Events/Bin
450
400
350
300
250
200
150
100
50
0
1420
1422
1424
1426
1428
1430
1432
1434
Number [Temp 0]

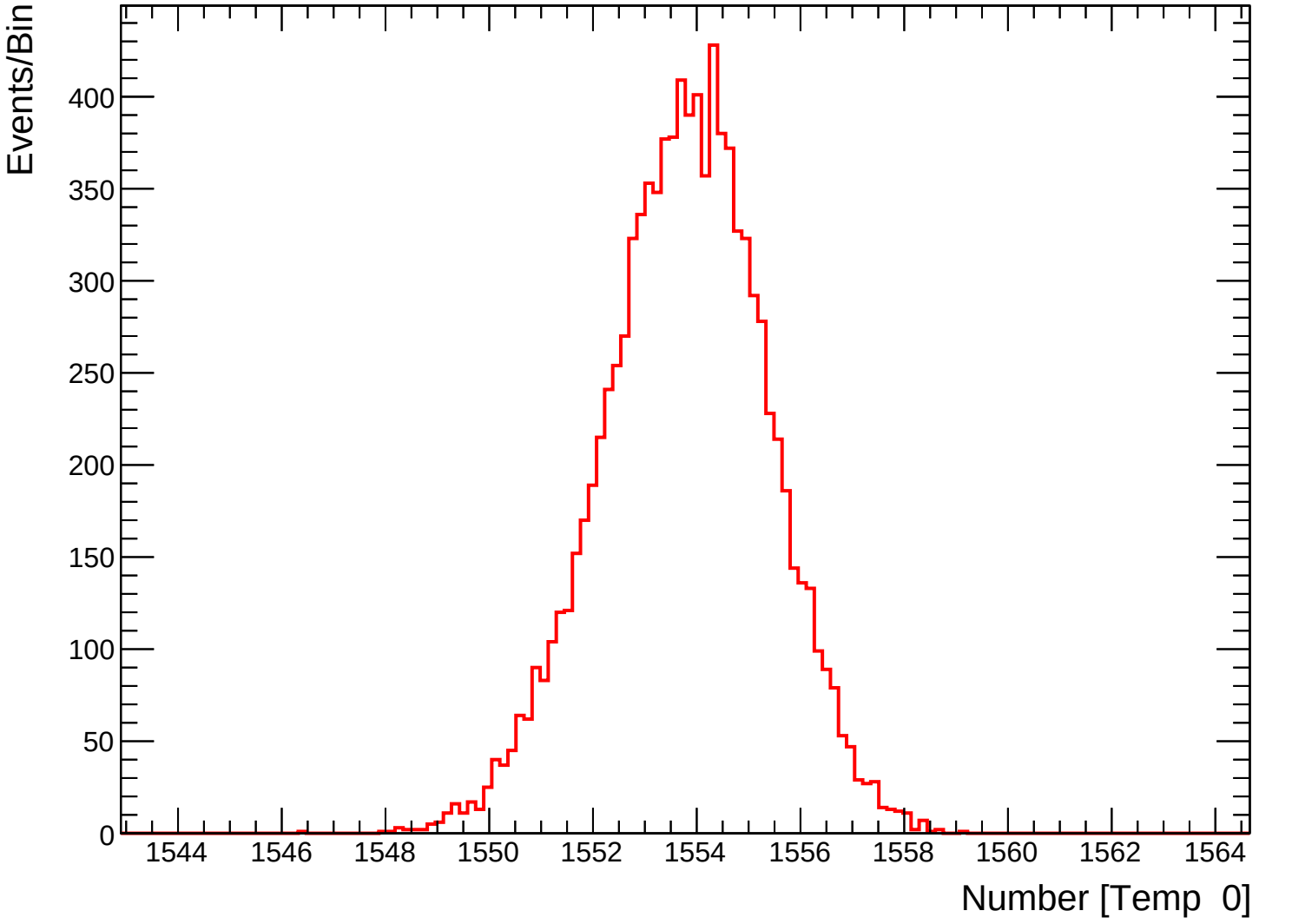

Time 13 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (606.8 ± 27.7)
e⁻+π⁻ (1.9 ± 12.6)
χ² 1.11
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

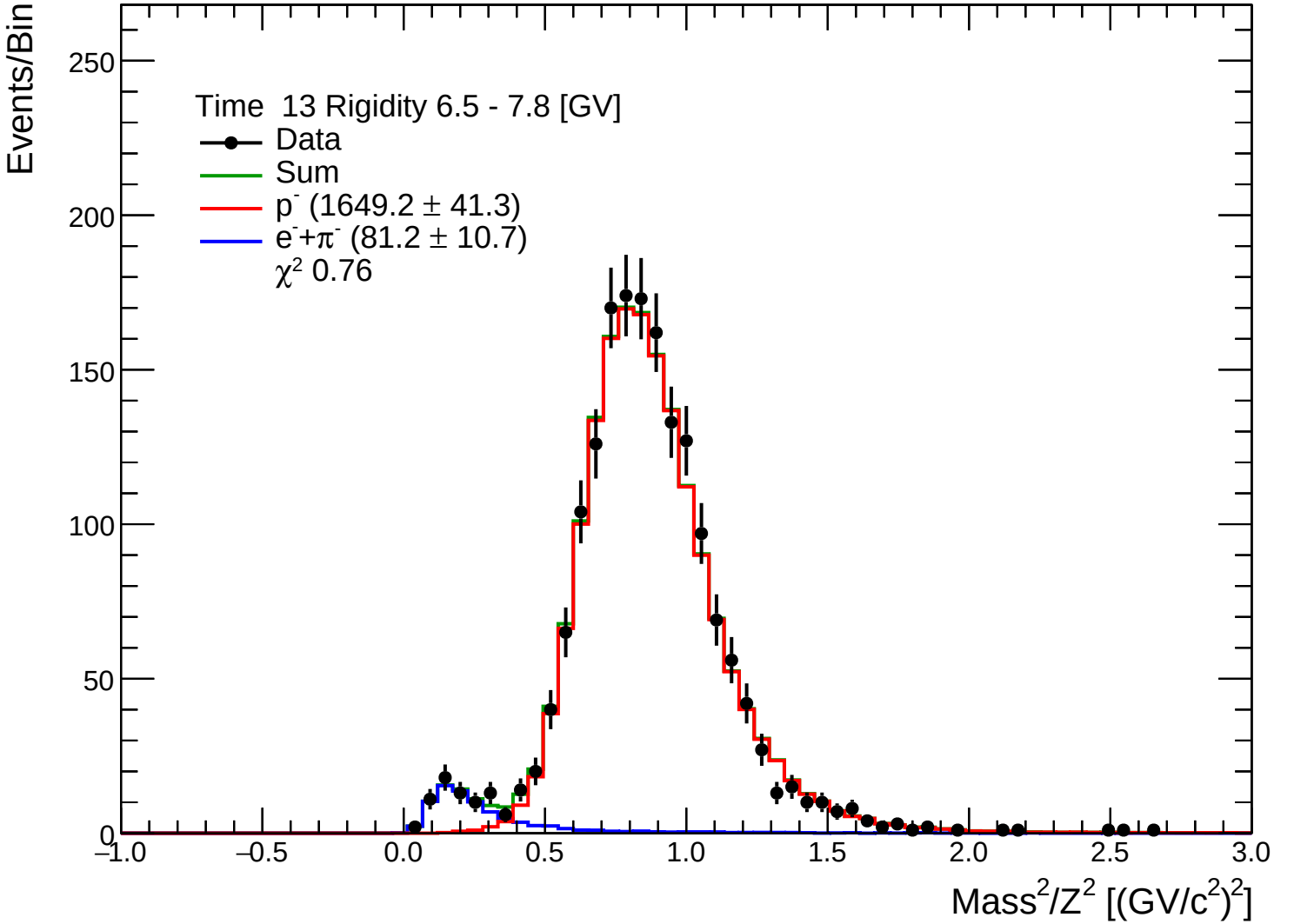

Events/Bin
400
350
300
250
200
150
100
50
0
590
595
600
605
610
615
620
625
Number [Temp 0]

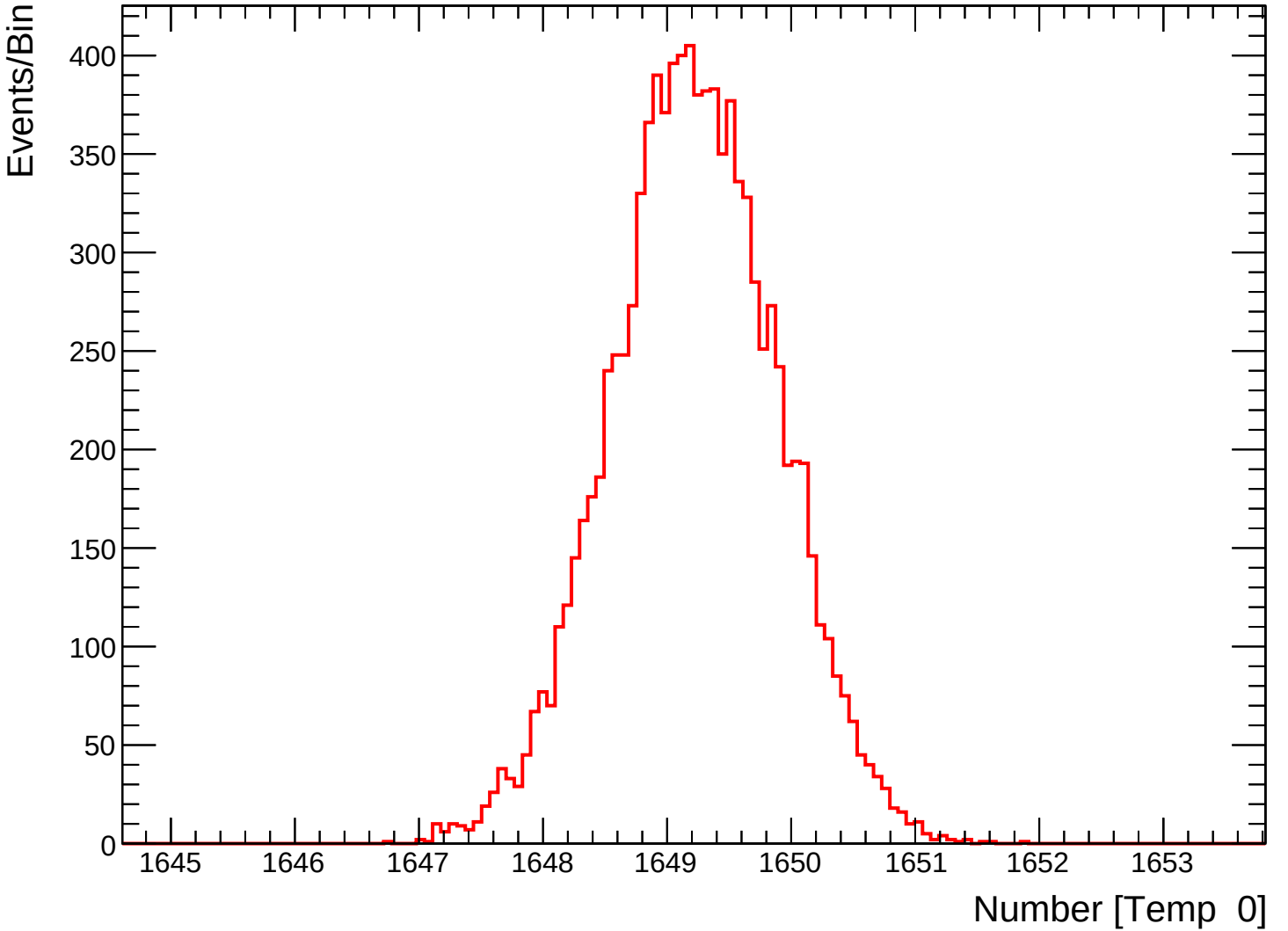

Time 13 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1195.8 ± 38.6)
e⁻+π⁻ (18.0 ± 17.4)
χ² 0.95
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

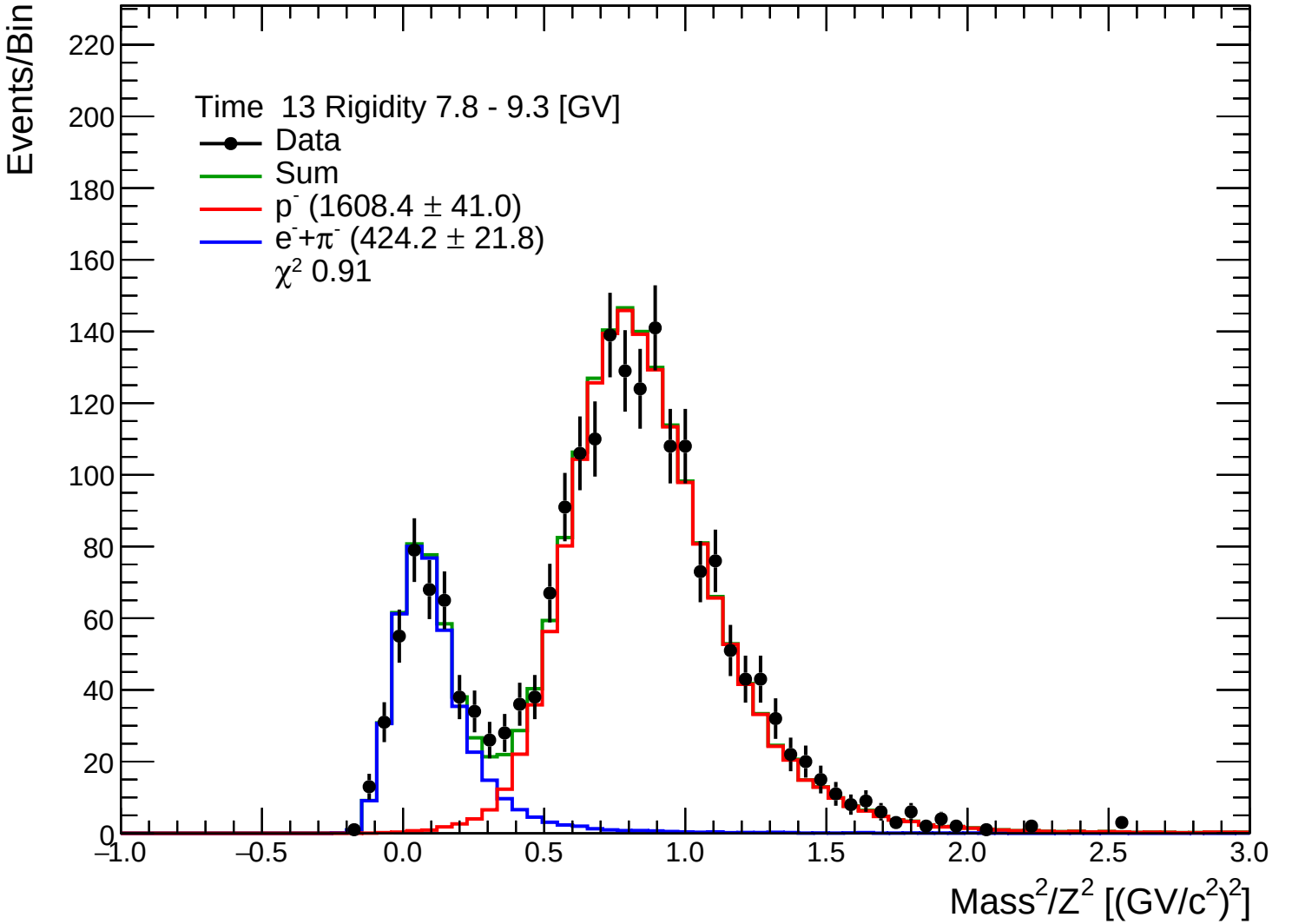

Events/Bin
450
400
350
300
250
200
150
100
50
0
1180
1185
1190
1195
1200
1205
1210
1215
Number [Temp 0]

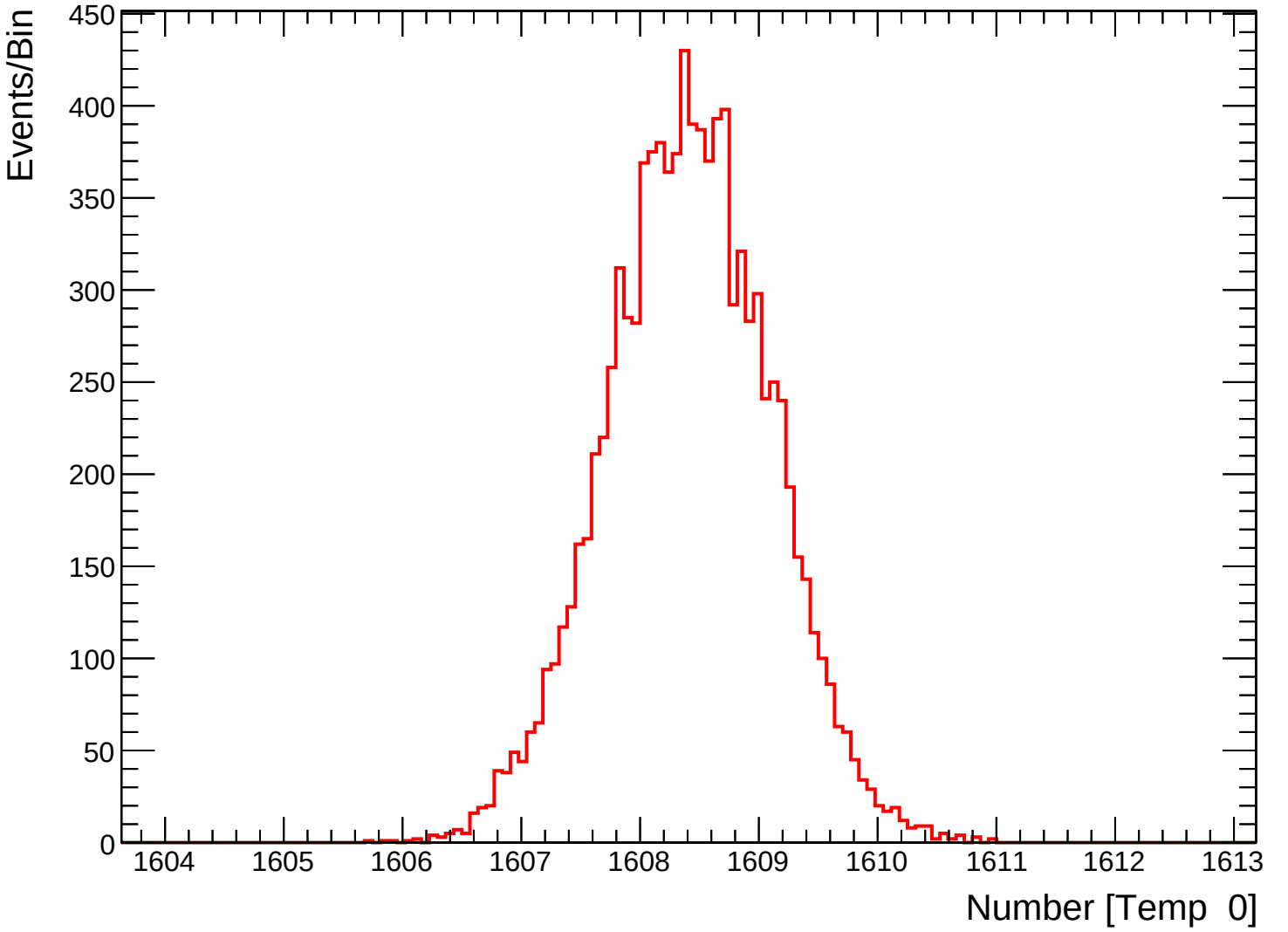

Time 13 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1553.6 ± 40.7)
e⁻+π⁻ (18.3 ± 10.2)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

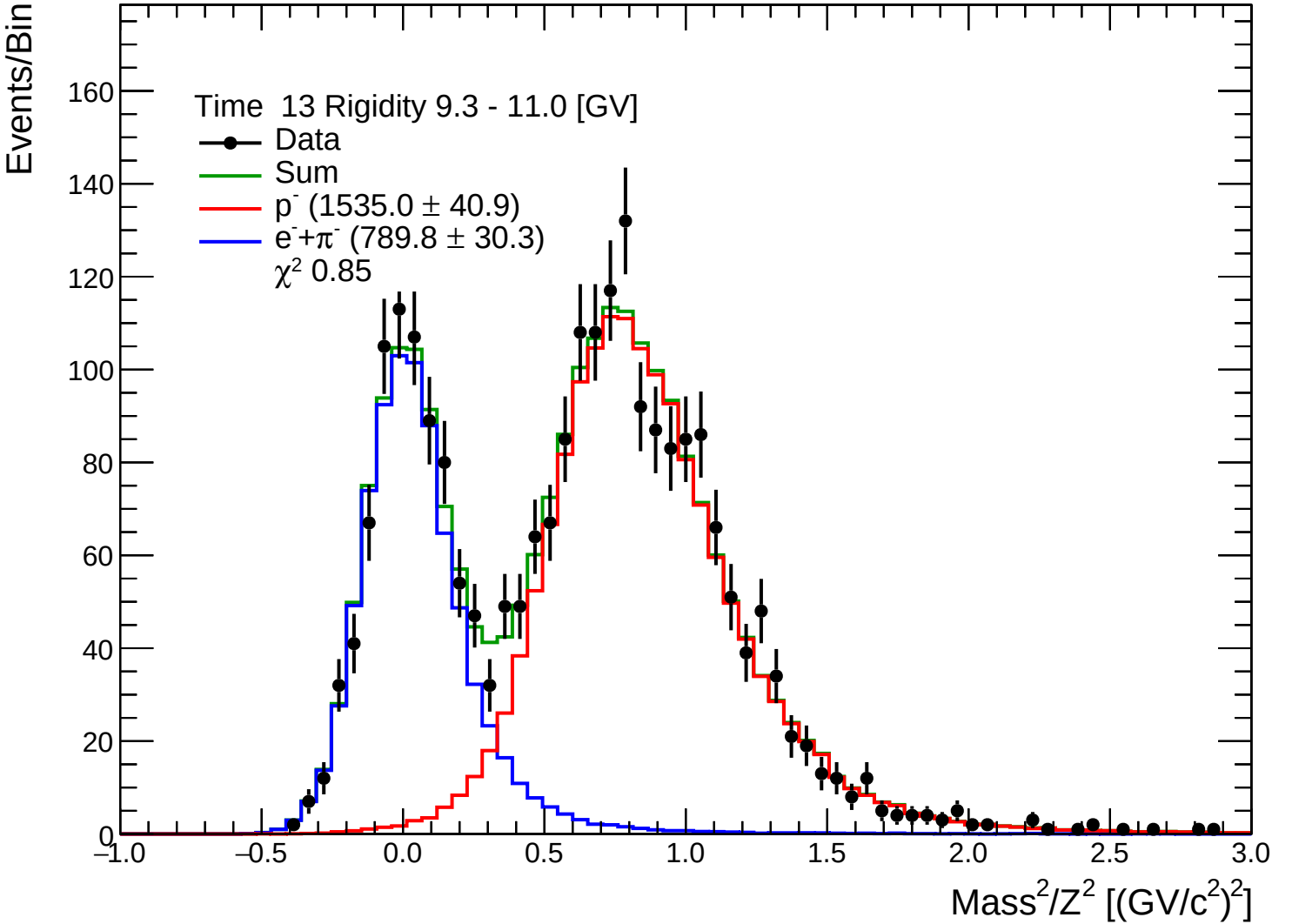

Events/Bin
400
350
300
250
200
150
100
50
0
1544
1546
1548
1550
1552
1554
1556
1558
1560
1562
1564
Number [Temp 0]

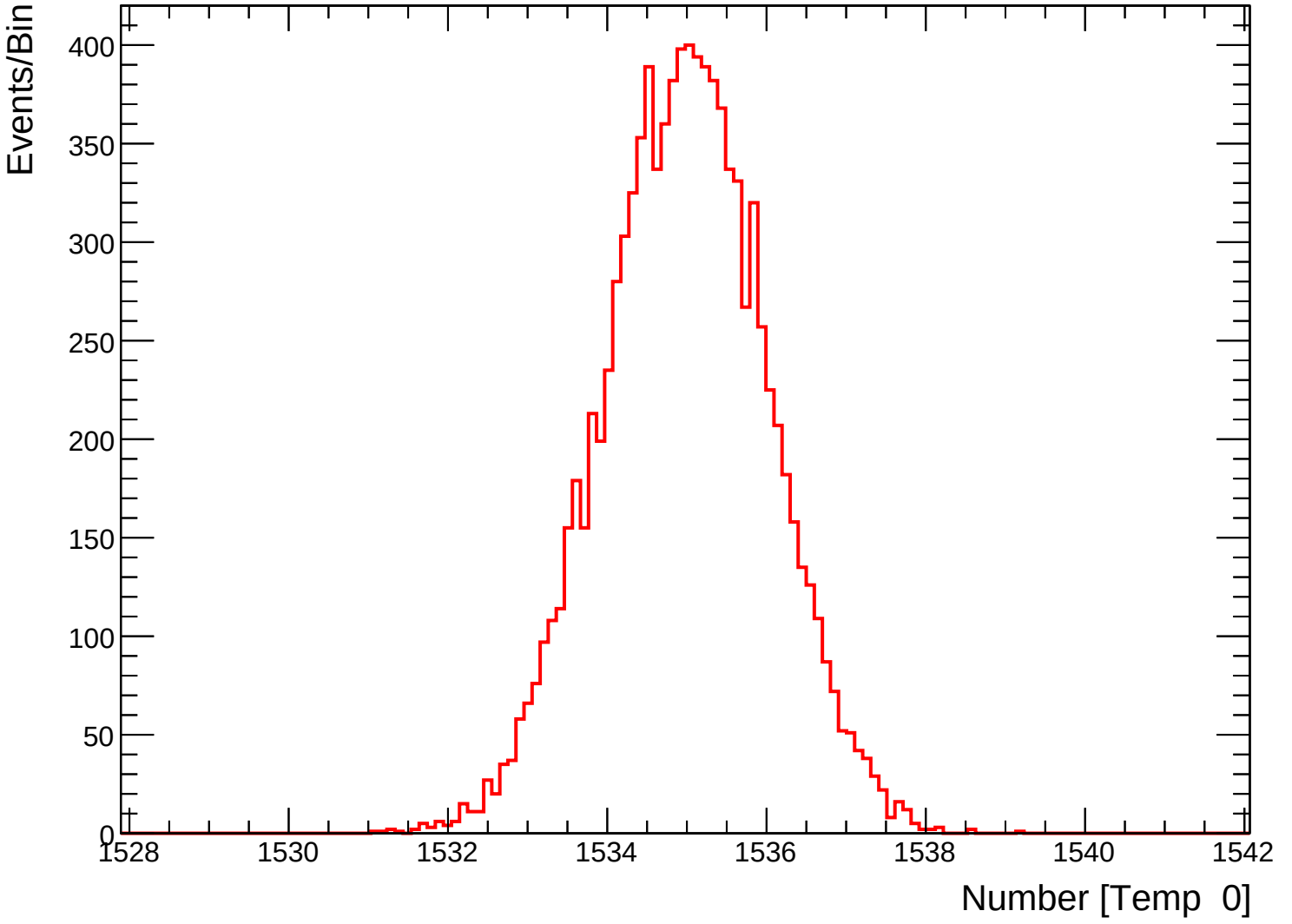

Time 13 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1649.2 ± 41.3)
e⁻+π⁻ (81.2 ± 10.7)
χ² 0.76
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

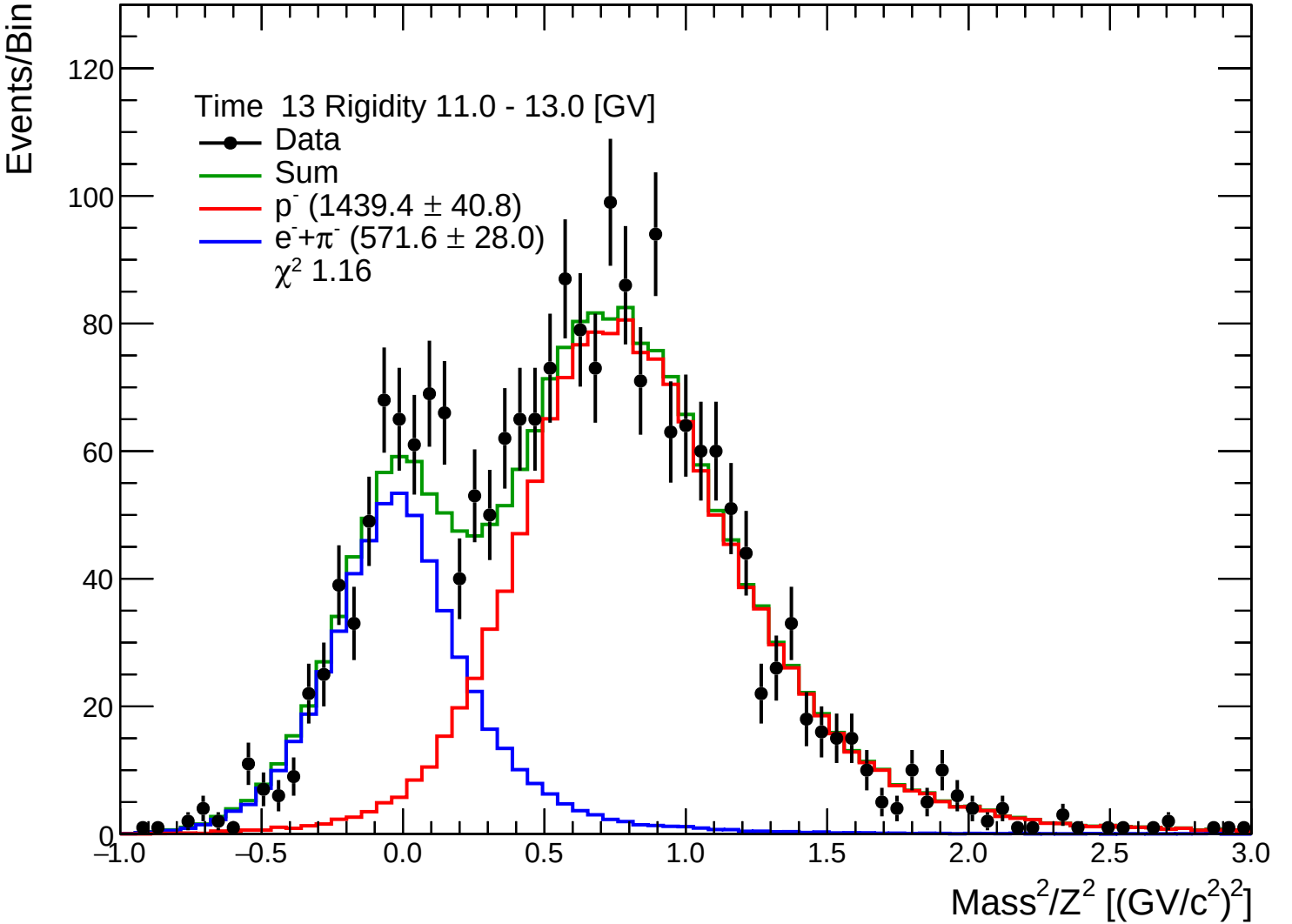

Events/Bin
400
350
300
250
200
150
100
50
0
1645
1646
1647
1648
1649
1650
1651
1652
1653
Number [Temp 0]

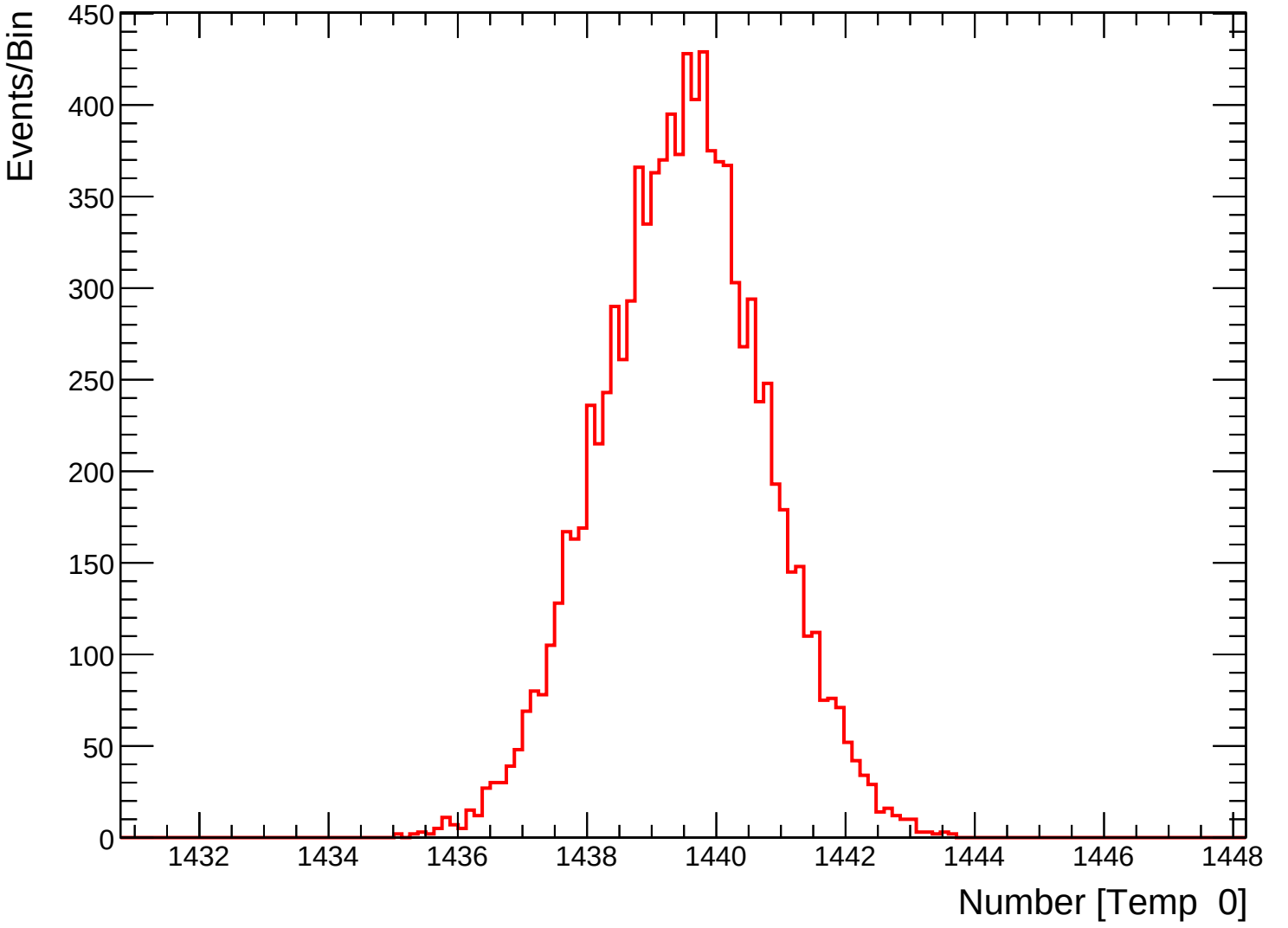

Time 13 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1608.4 ± 41.0)
e⁻+π⁻ (424.2 ± 21.8)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

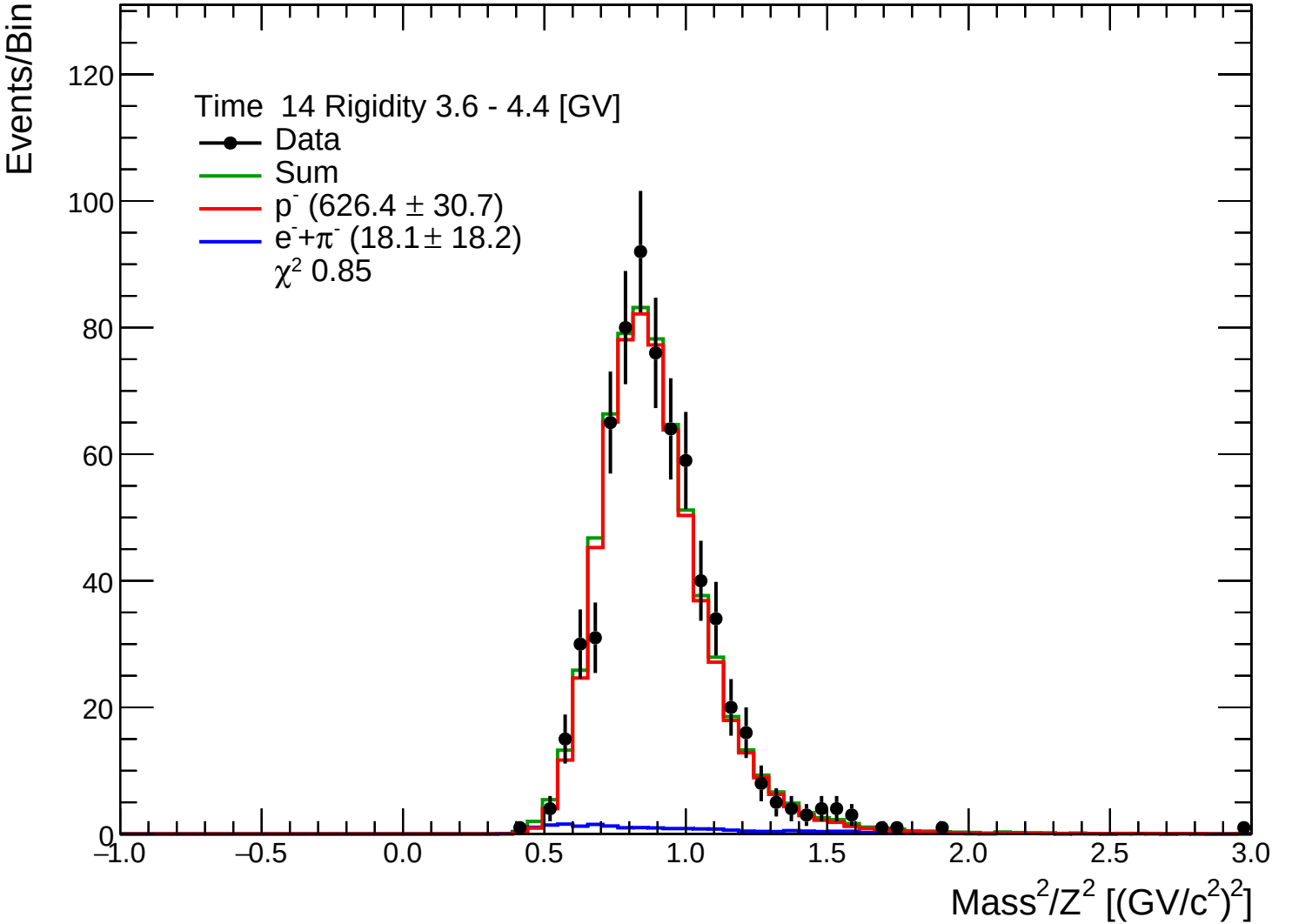

Events/Bin
450
400
350
300
250
200
150
100
50
0
1604
1605
1606
1607
1608
1609
1610
1611
1612
1613
Number [Temp 0]

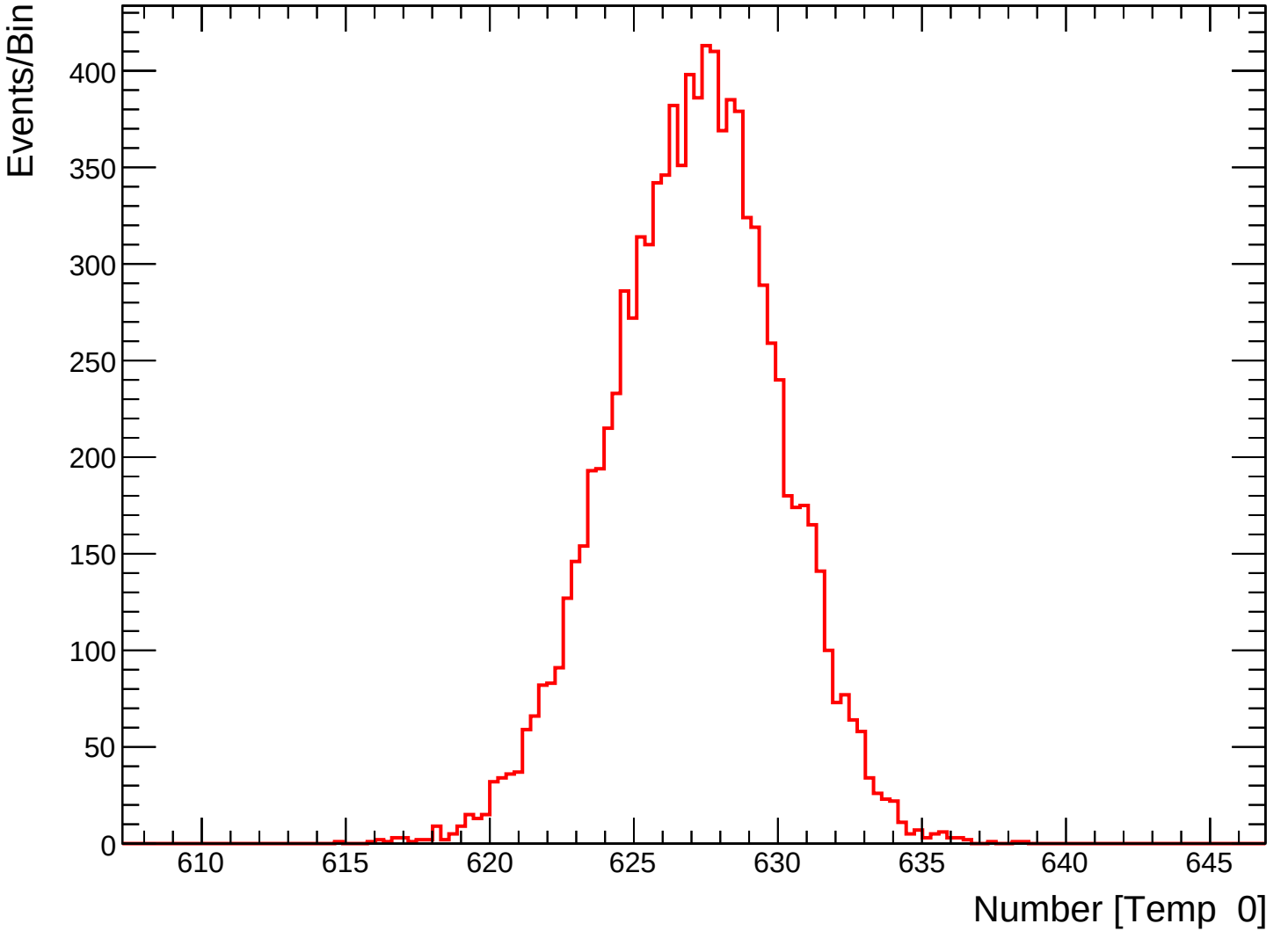

Time 13 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1535.0 ± 40.9)
e⁻+π⁻ (789.8 ± 30.3)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

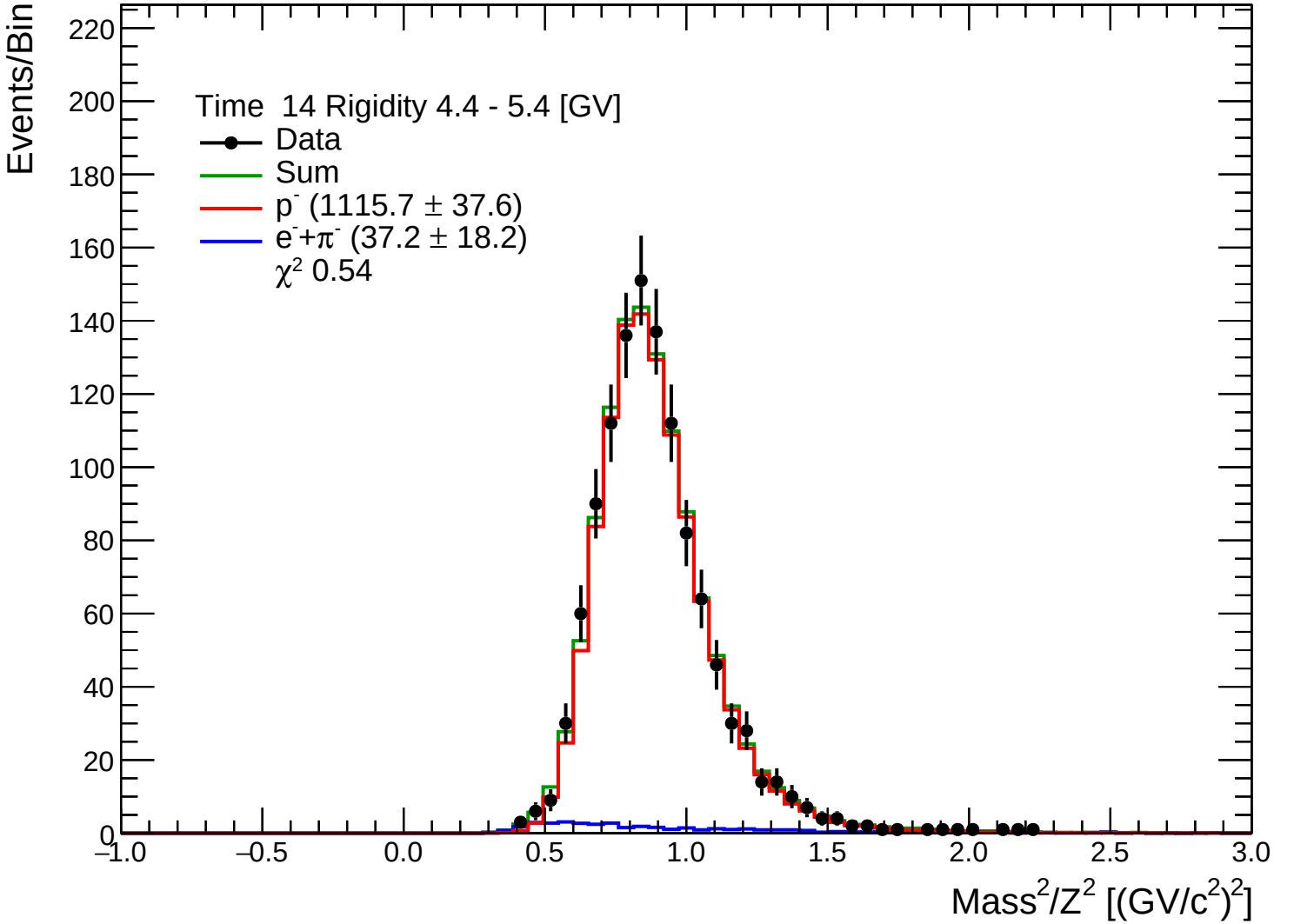

Events/Bin
400
350
300
250
200
150
100
50
0
1528
1530
1532
1534
1536
1538
1540
1542
Number [Temp 0]

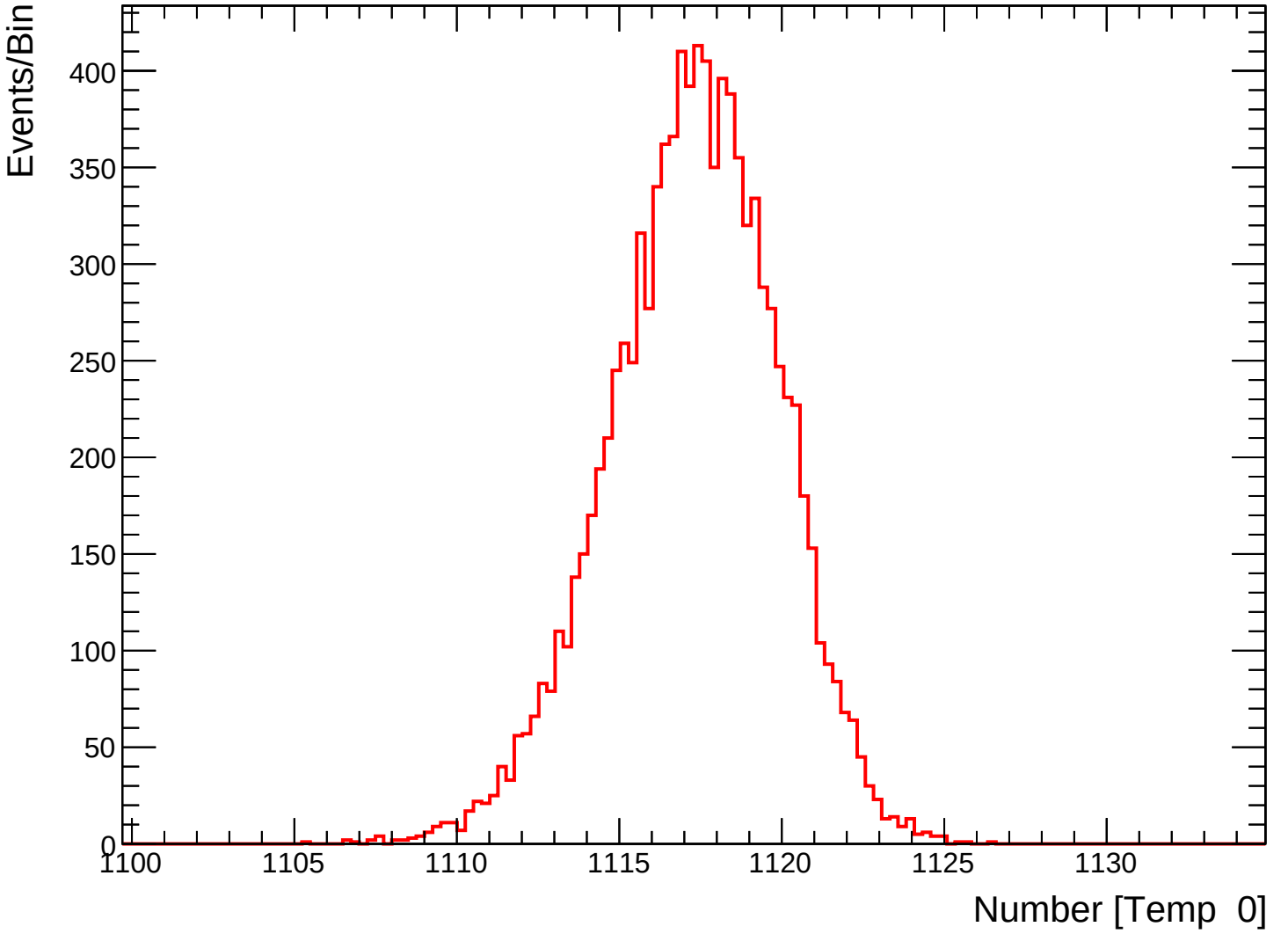

Time 13 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1439.4 ± 40.8)
e⁻+π⁻ (571.6 ± 28.0)
χ² 1.16
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

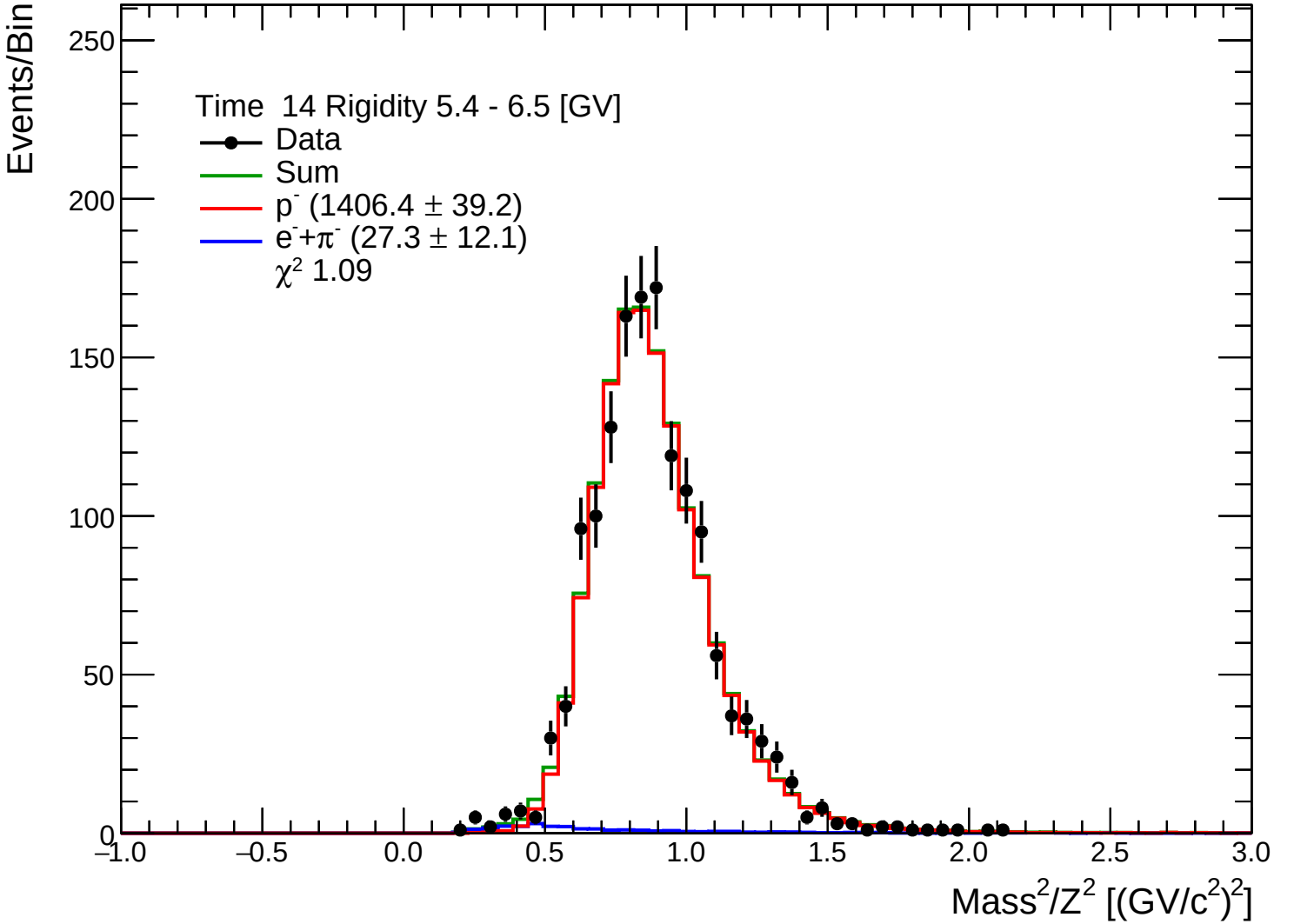

Events/Bin
450
400
350
300
250
200
150
100
50
0
1432
1434
1436
1438
1440
1442
1444
1446
1448
Number [Temp 0]

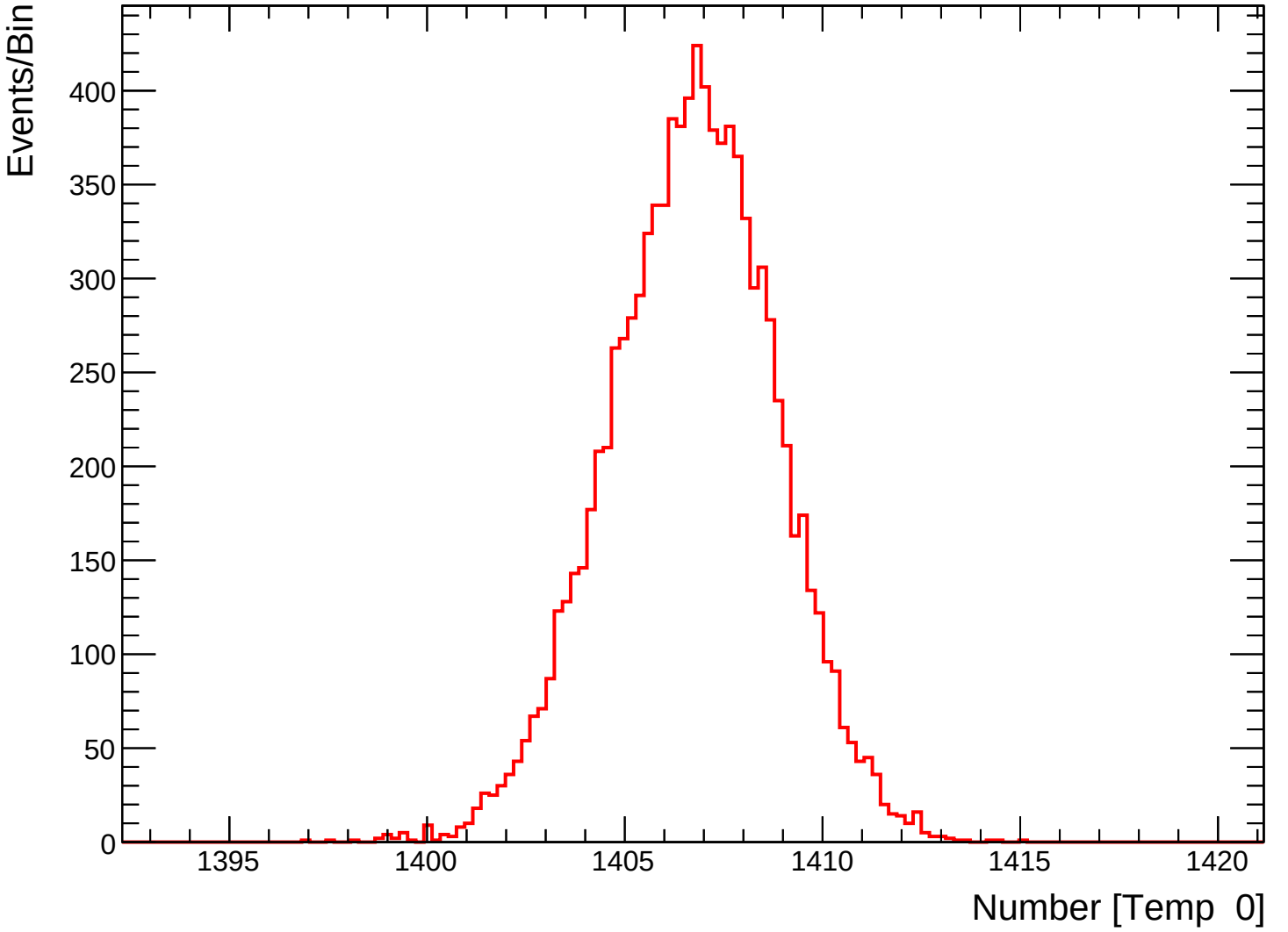

Time 14 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (626.4 ± 30.7)
e⁻+π⁻ (18.1± 18.2)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

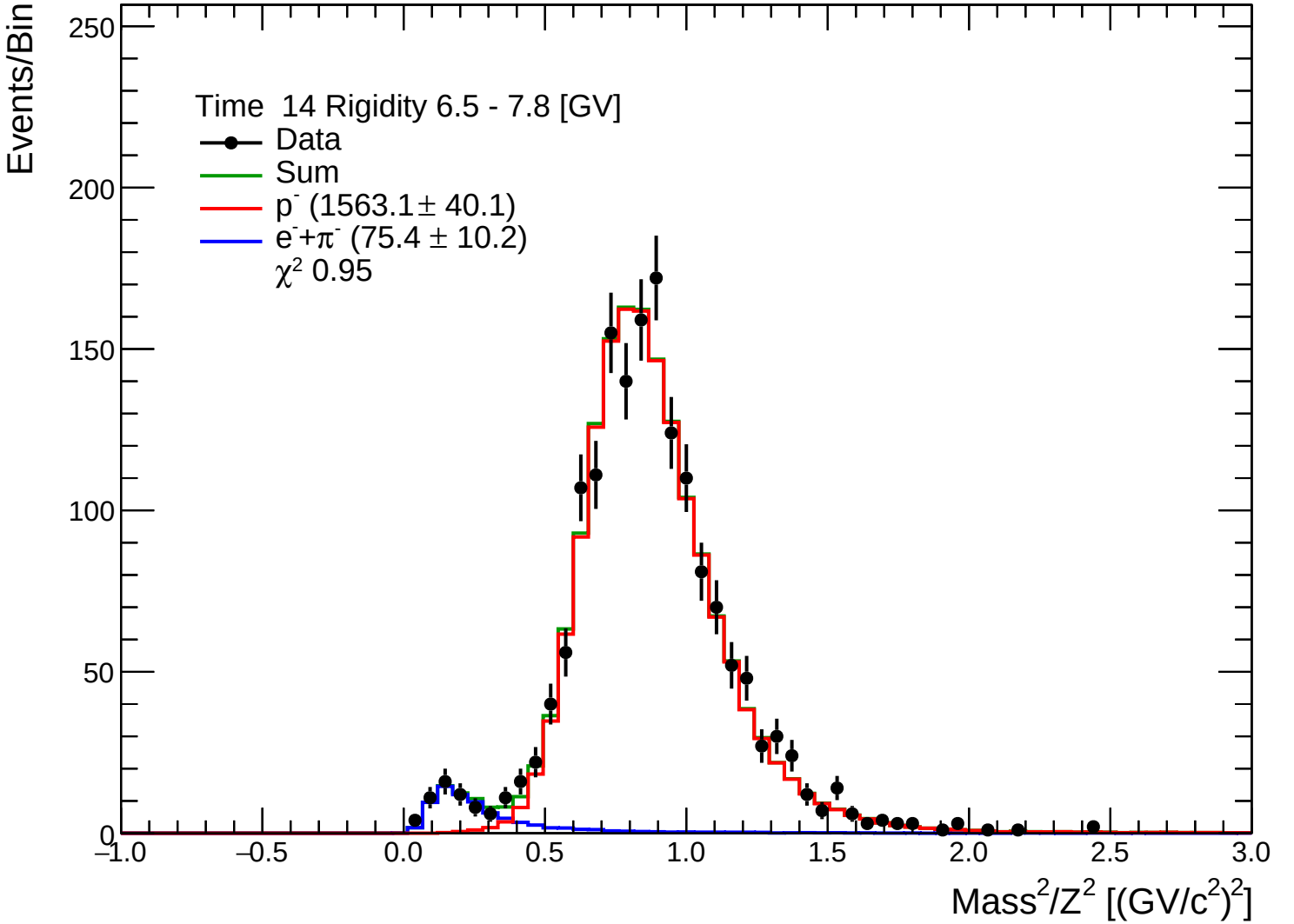

Events/Bin
400
350
300
250
200
150
100
50
0
610
615
620
625
630
635
640
645
Number [Temp 0]

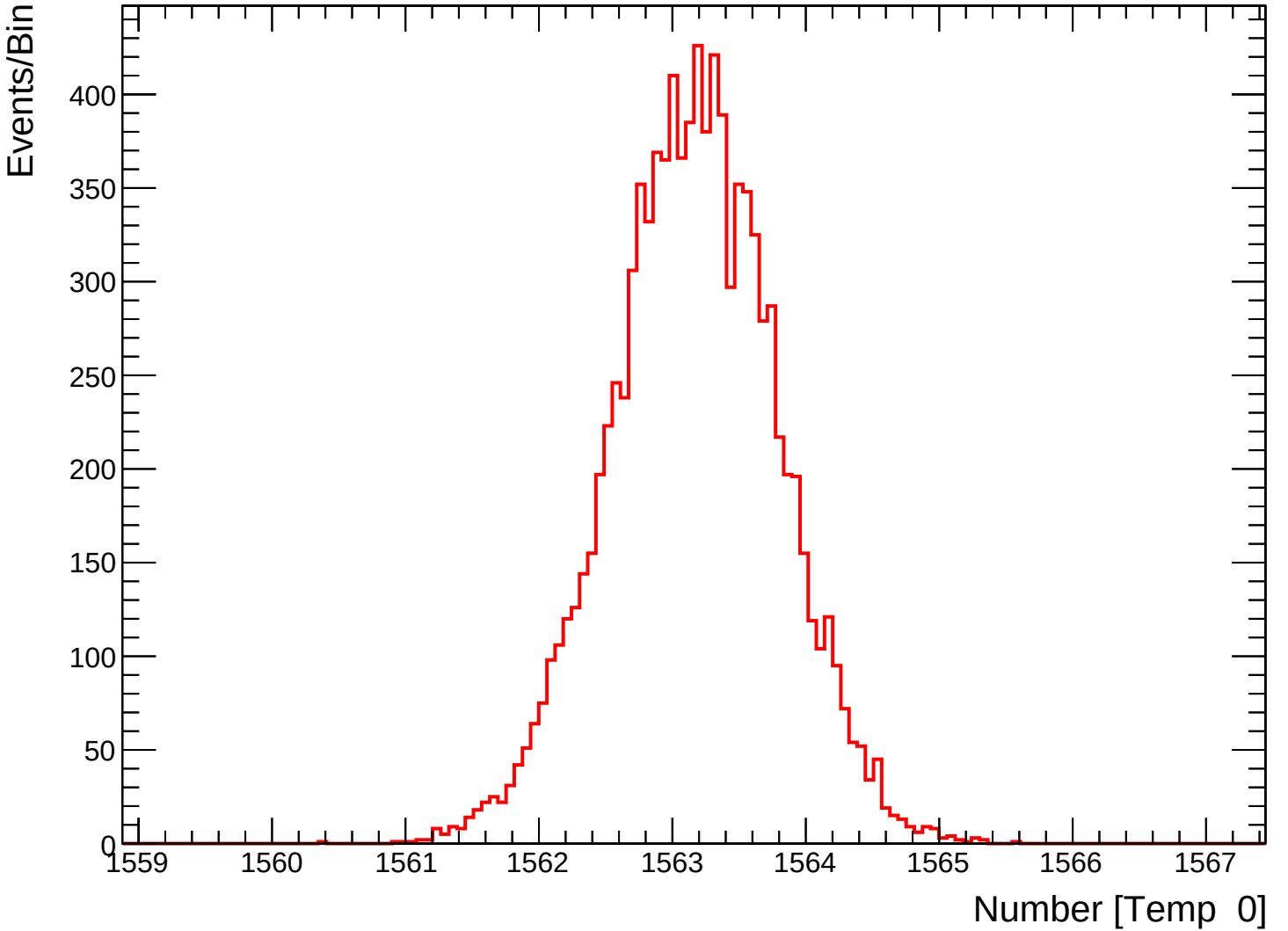

Time 14 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1115.7 ± 37.6)
e⁻+π⁻ (37.2 ± 18.2)
χ² 0.54
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

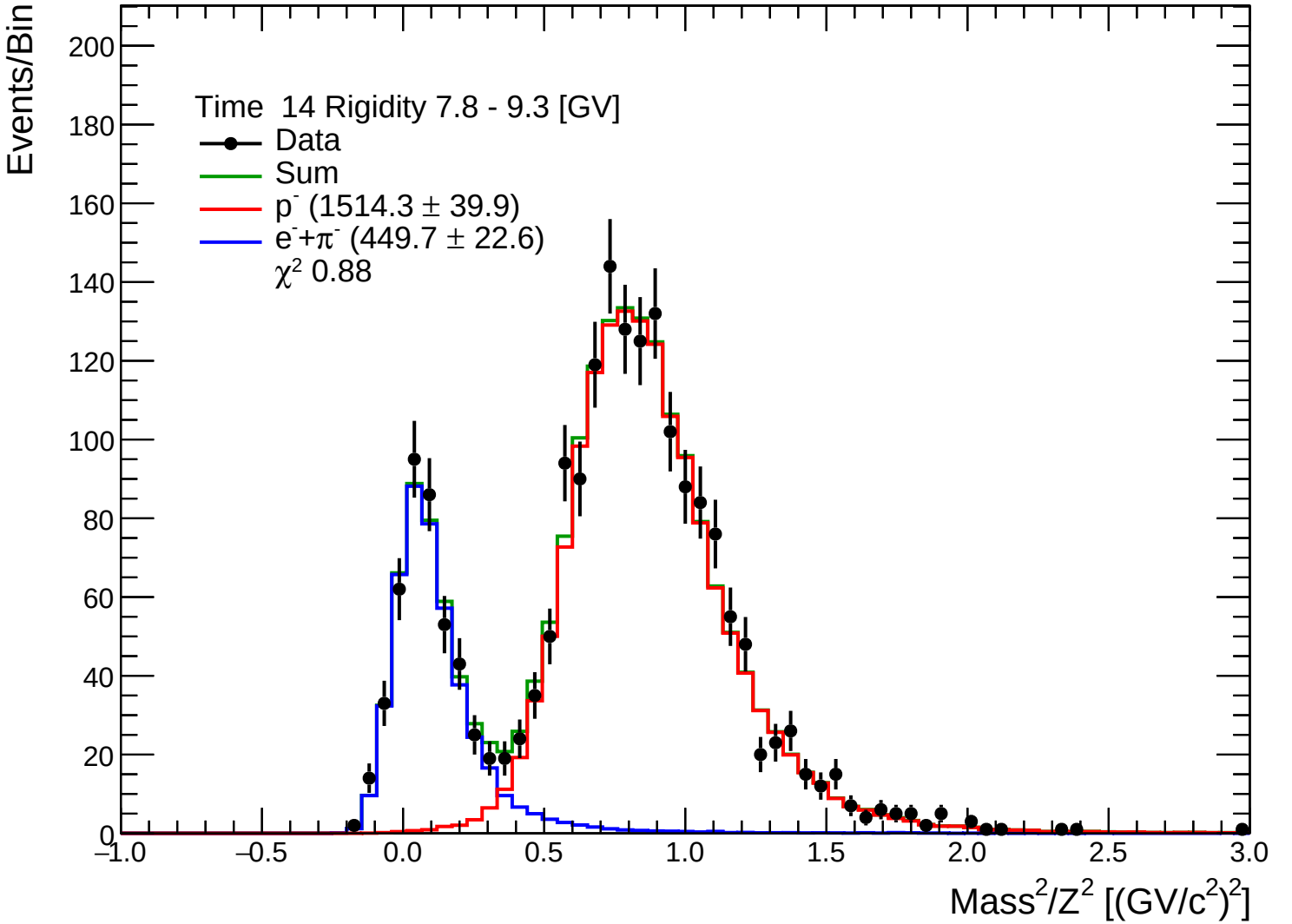

Events/Bin
400
350
300
250
200
150
100
50
0
1100
1105
1110
1115
1120
1125
1130
Number [Temp 0]

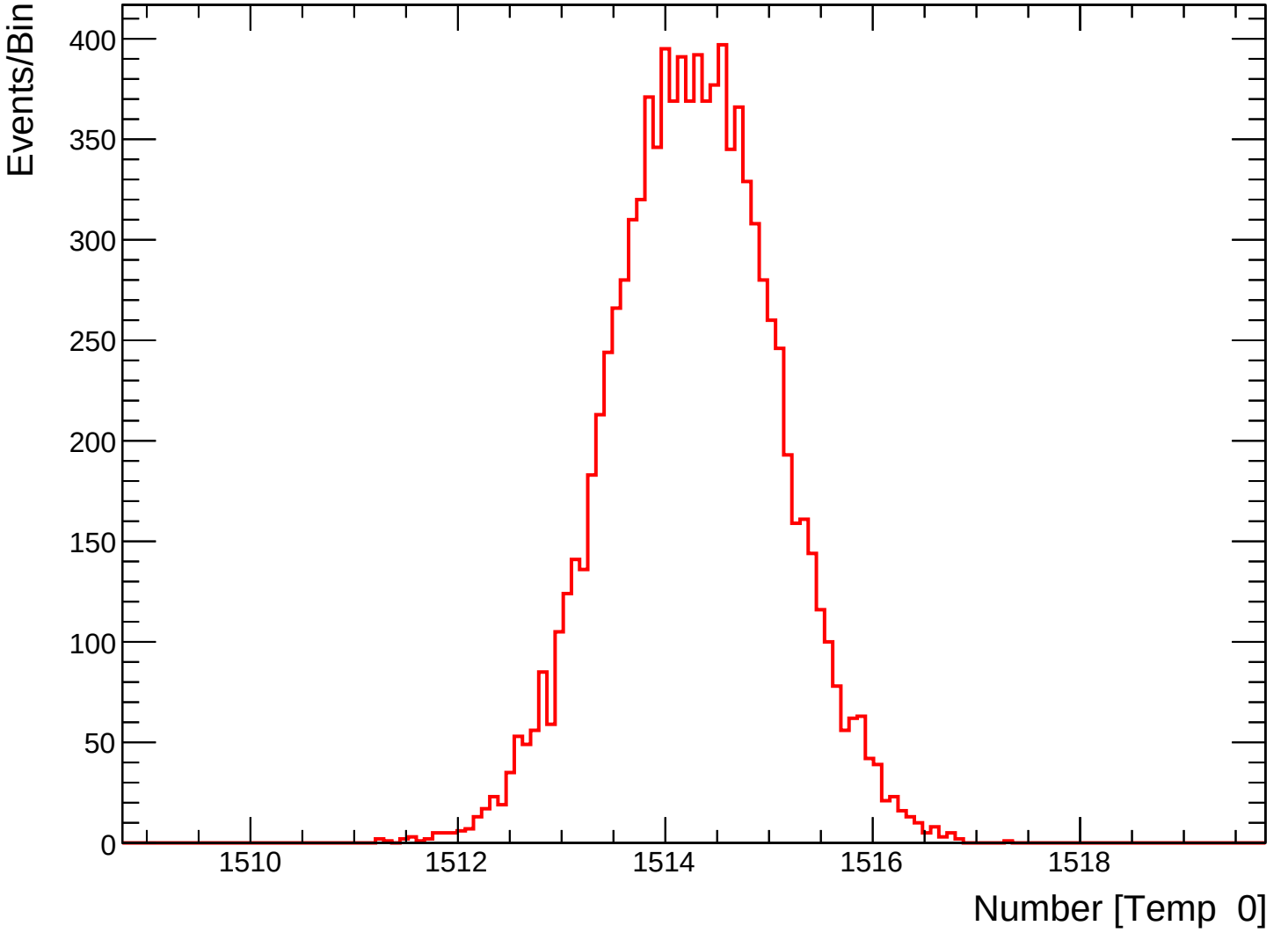

Time 14 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1406.4 ± 39.2)
e⁻+π⁻ (27.3 ± 12.1)
χ² 1.09
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

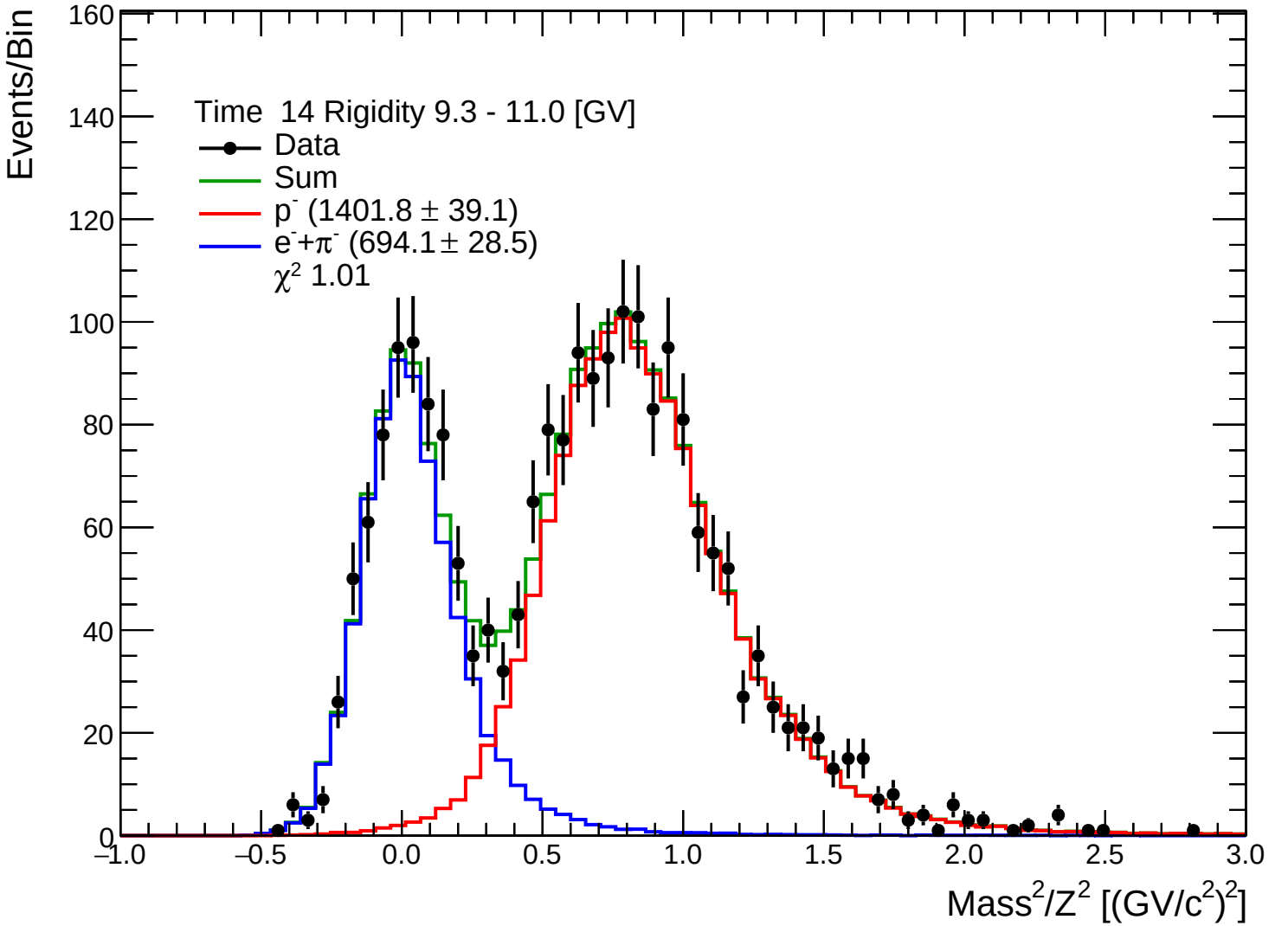

Events/Bin
400
350
300
250
200
150
100
50
0
1395
1400
1405
1410
1415
1420
Number [Temp 0]

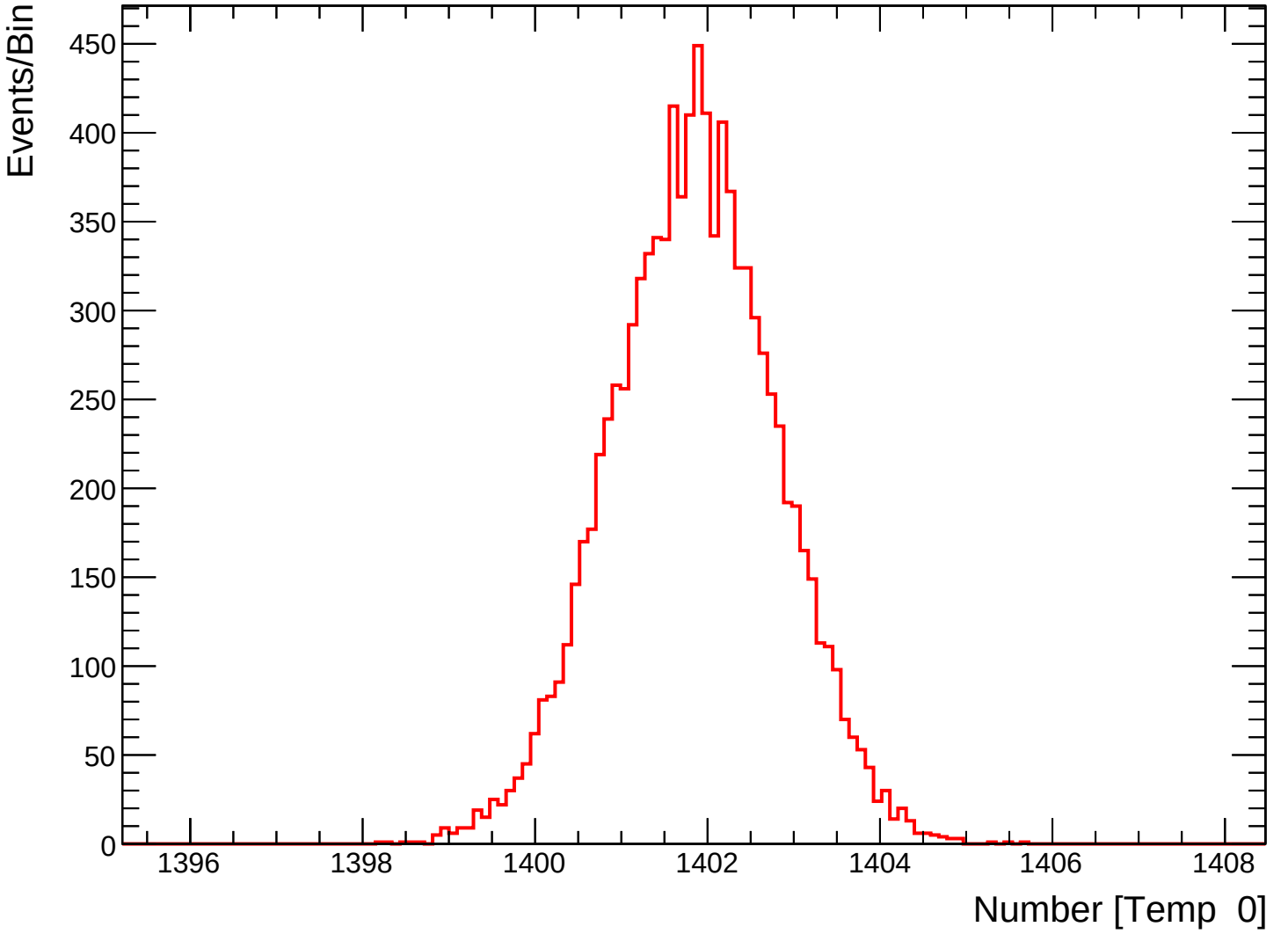

Time 14 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1563.1 ± 40.1)
e⁻+π⁻ (75.4 ± 10.2)
χ² 0.95
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

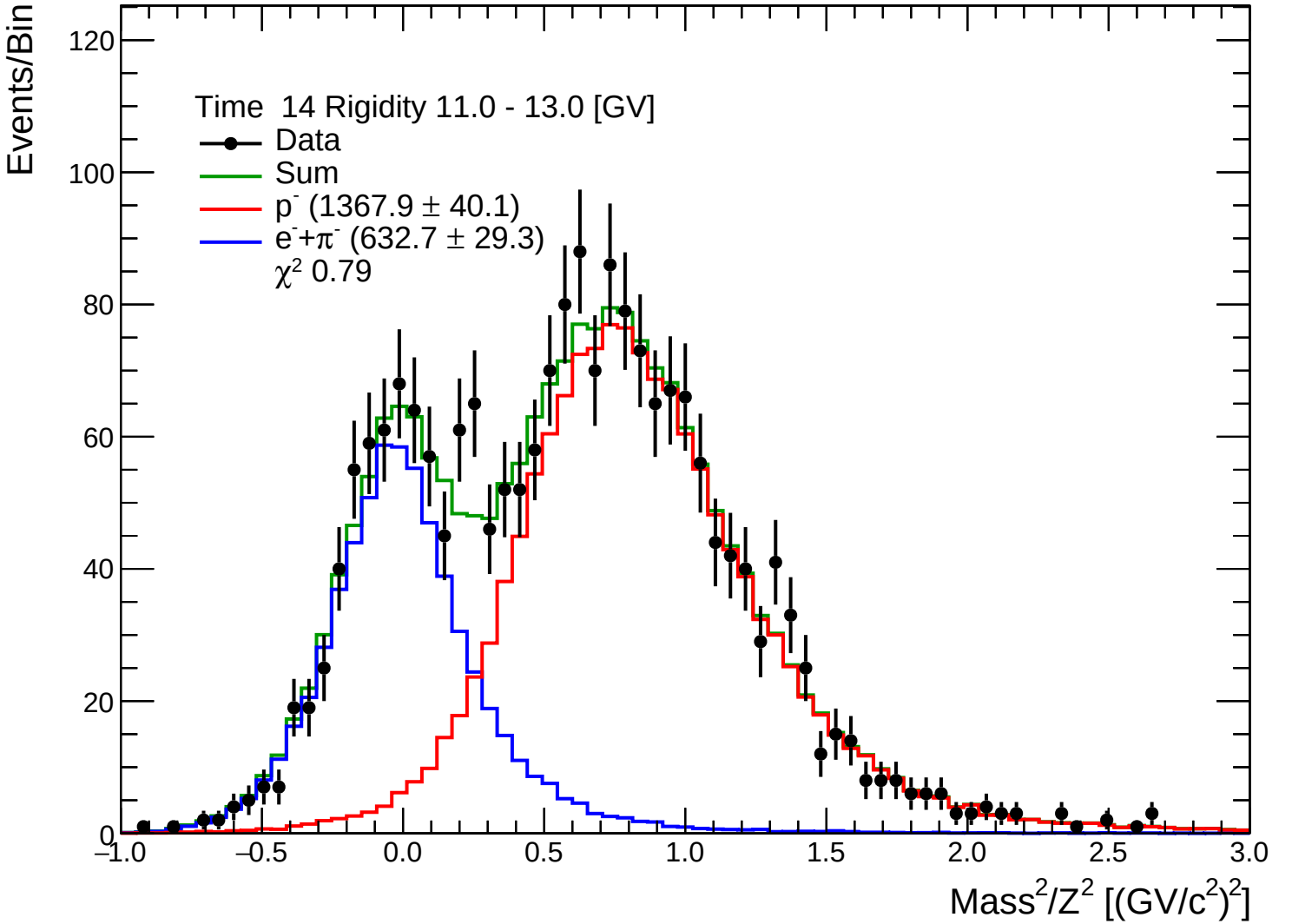

Events/Bin
400
350
300
250
200
150
100
50
0
1559
1560
1561
1562
1563
1564
1565
1566
1567
Number [Temp 0]

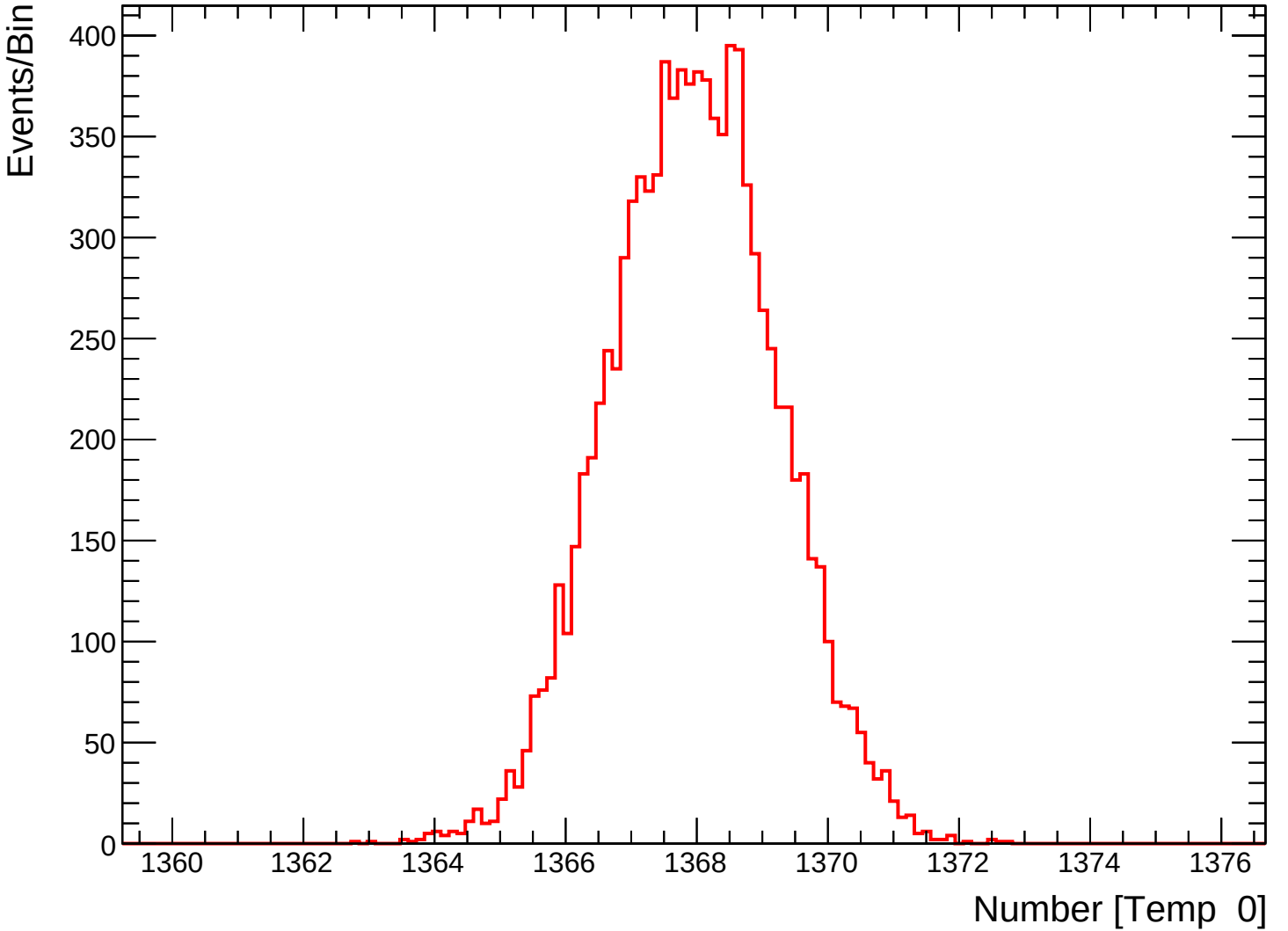

Time 14 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1514.3 ± 39.9)
e⁻+π⁻ (449.7 ± 22.6)
χ² 0.88
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

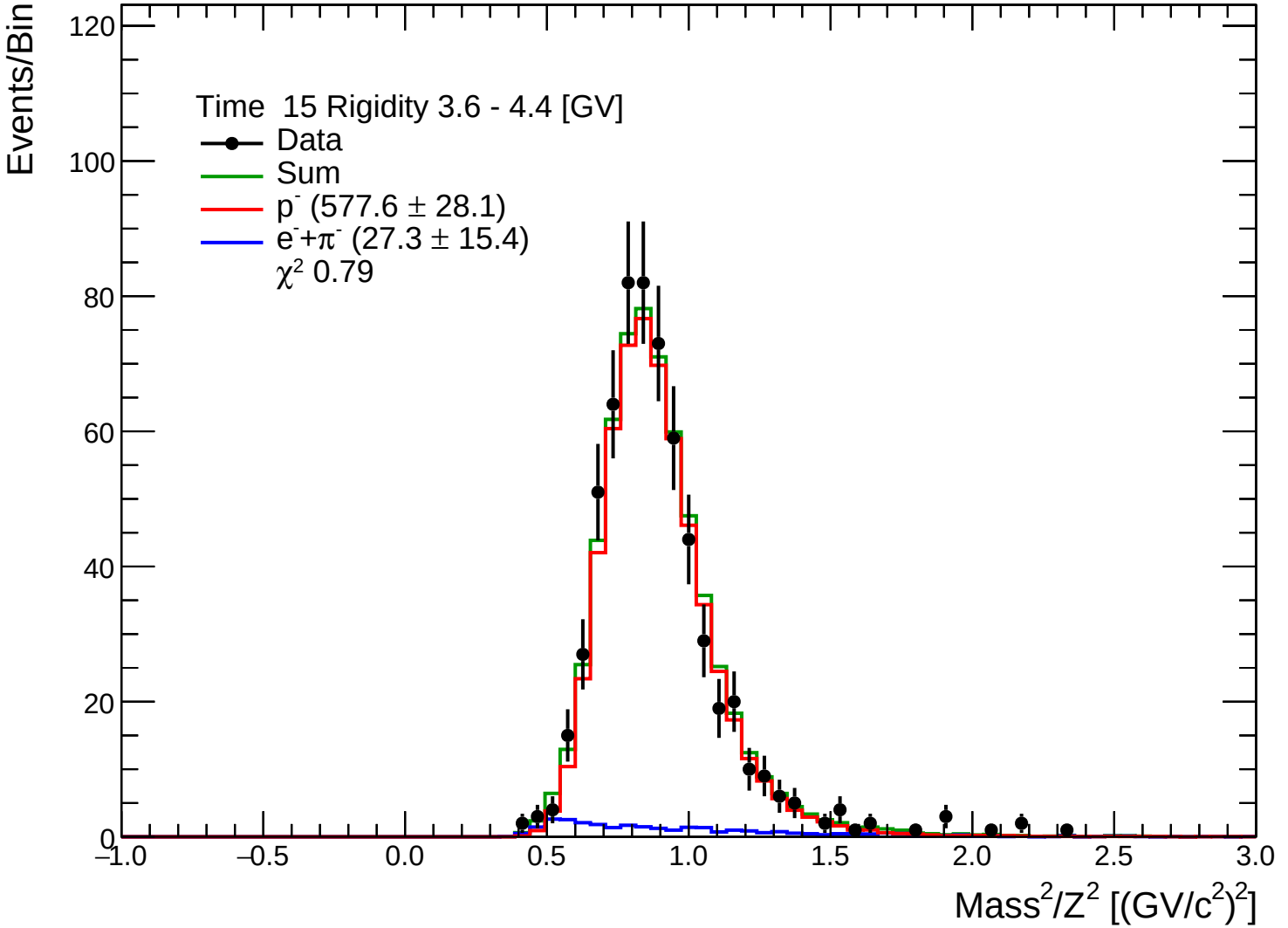

Events/Bin
400
350
300
250
200
150
100
50
0
1510
1512
1514
1516
1518
Number [Temp 0]

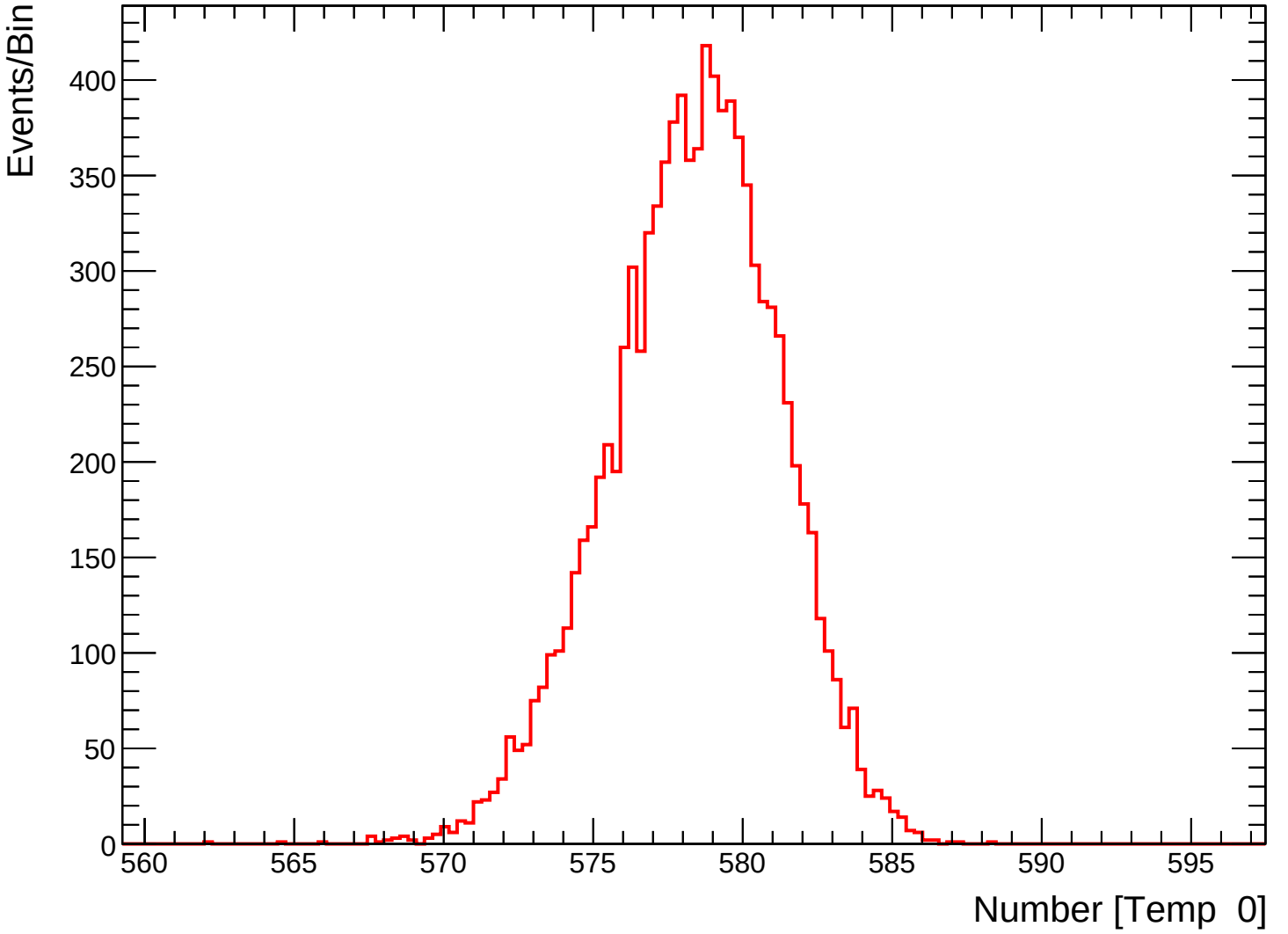

Time 14 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1401.8 ± 39.1)
e⁻+π⁻ (694.1 ± 28.5)
χ² 1.01
Events/Bin
Mass²/Z² [(GV/c²)²]
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

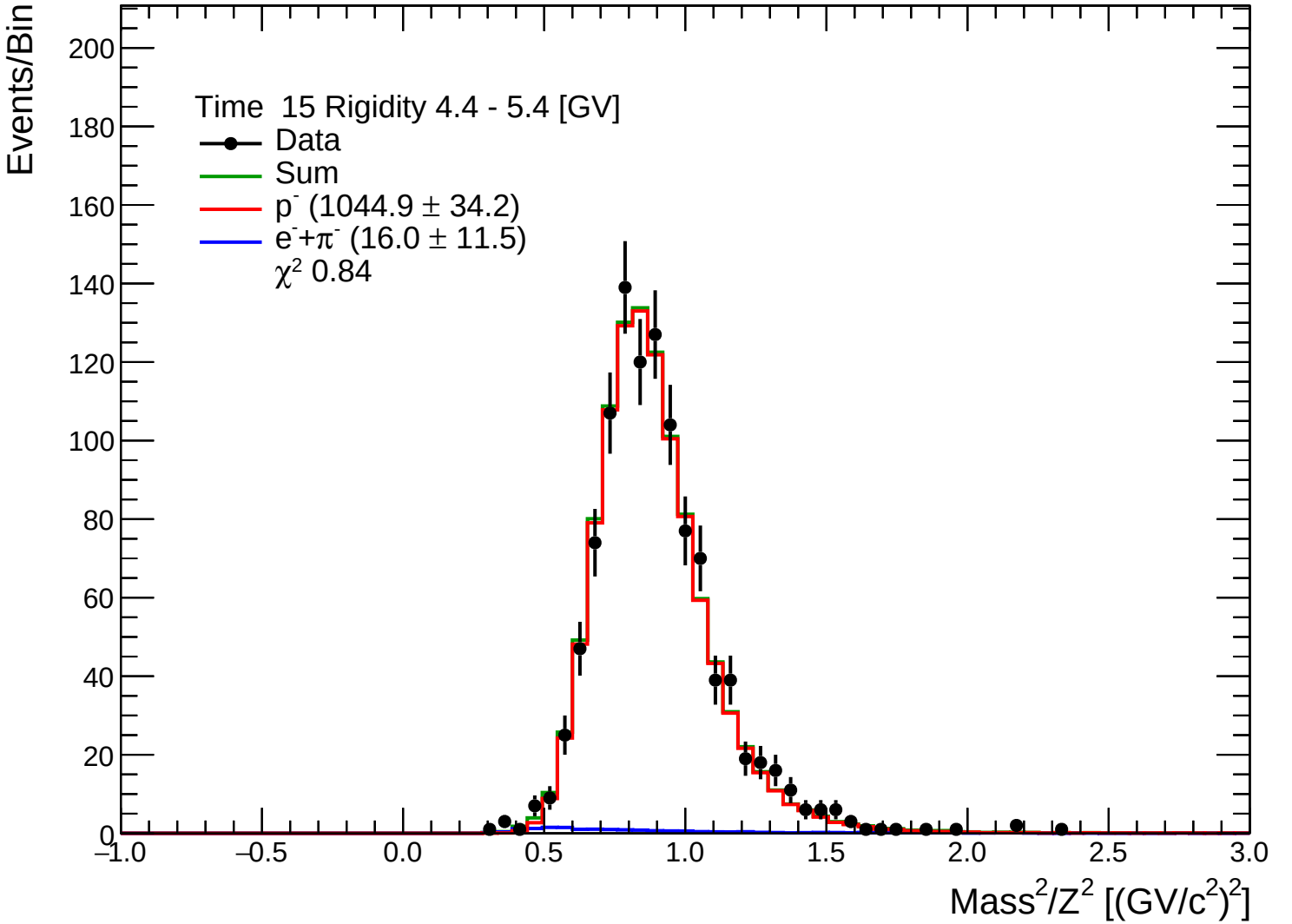

Events/Bin
450
400
350
300
250
200
150
100
50
0
1396
1398
1400
1402
1404
1406
1408
Number [Temp 0]

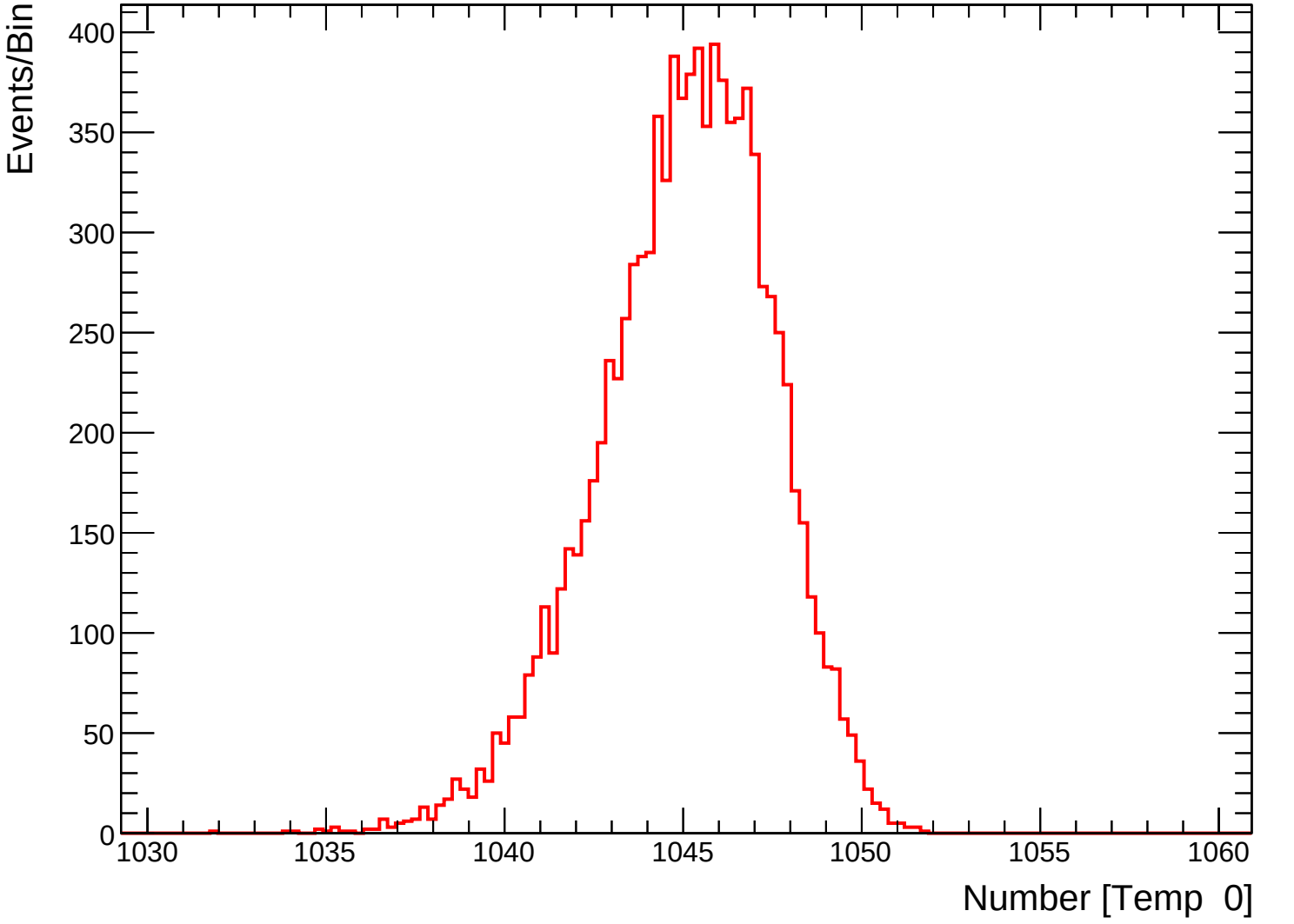

Time 14 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1367.9 ± 40.1)
e⁻+π⁻ (632.7 ± 29.3)
χ² 0.79
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

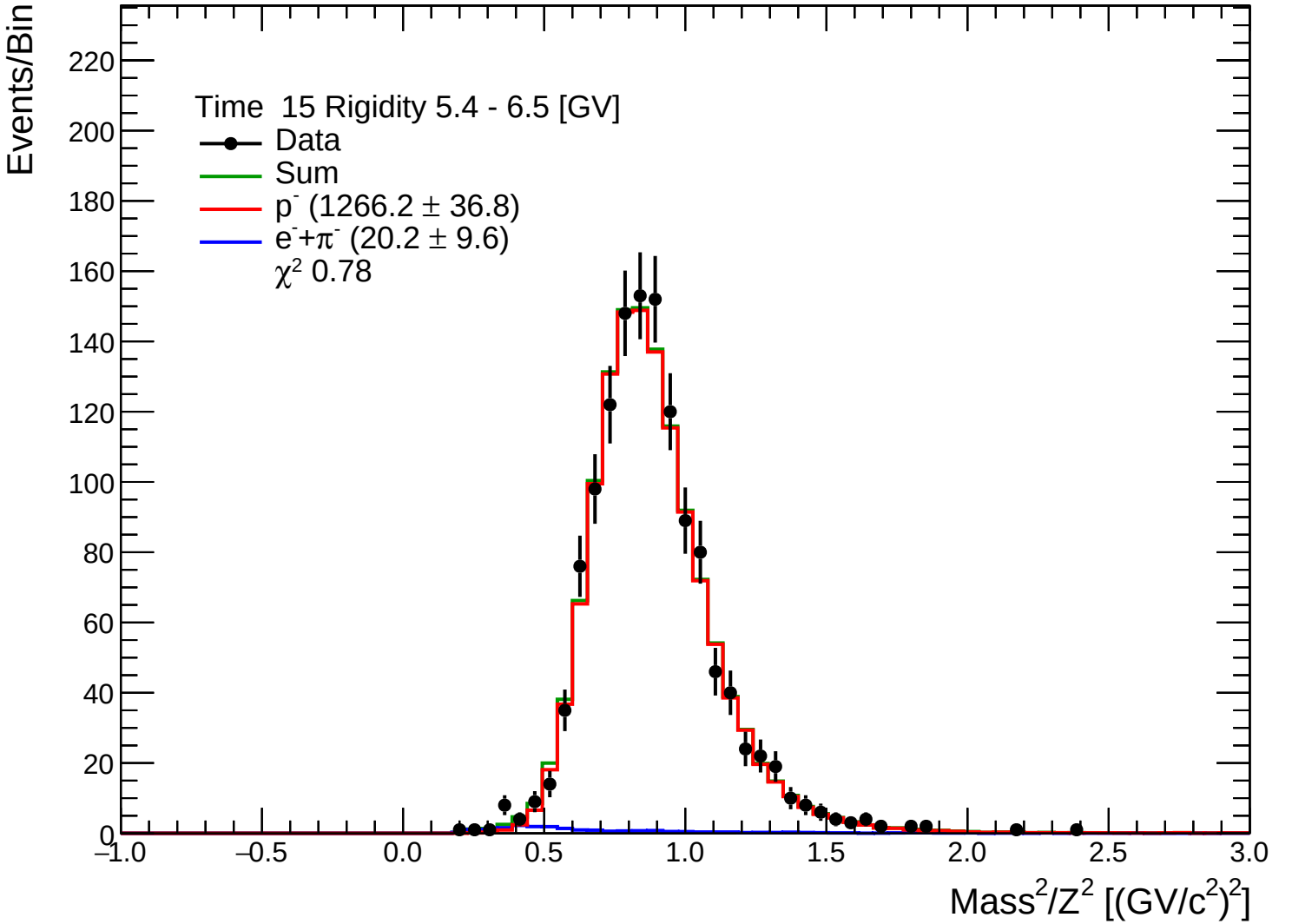

Events/Bin
400
350
300
250
200
150
100
50
0
1360
1362
1364
1366
1368
1370
1372
1374
1376
Number [Temp 0]

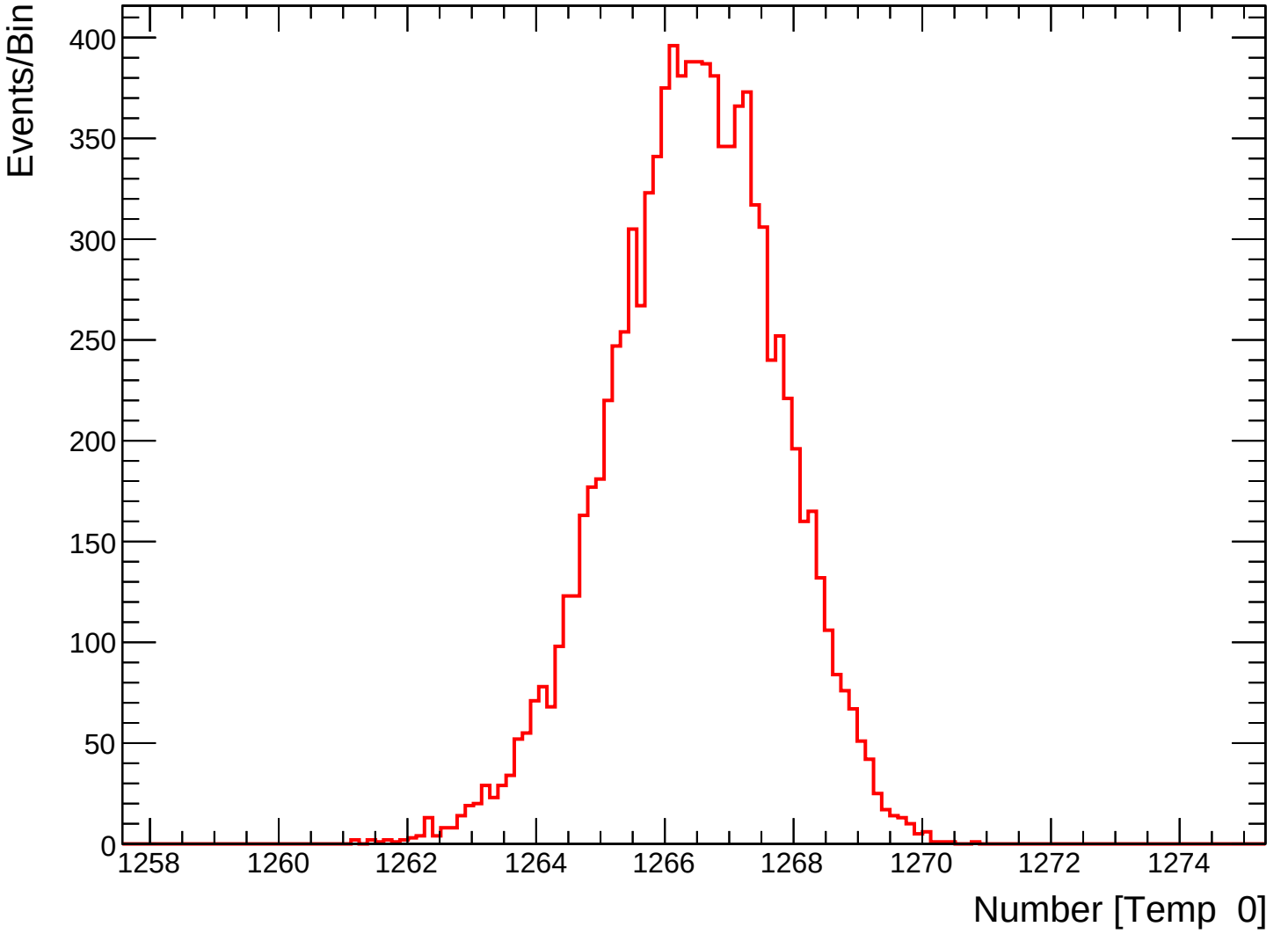

Time 15 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (577.6 ± 28.1)
e⁻+π⁻ (27.3 ± 15.4)
χ² 0.79
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

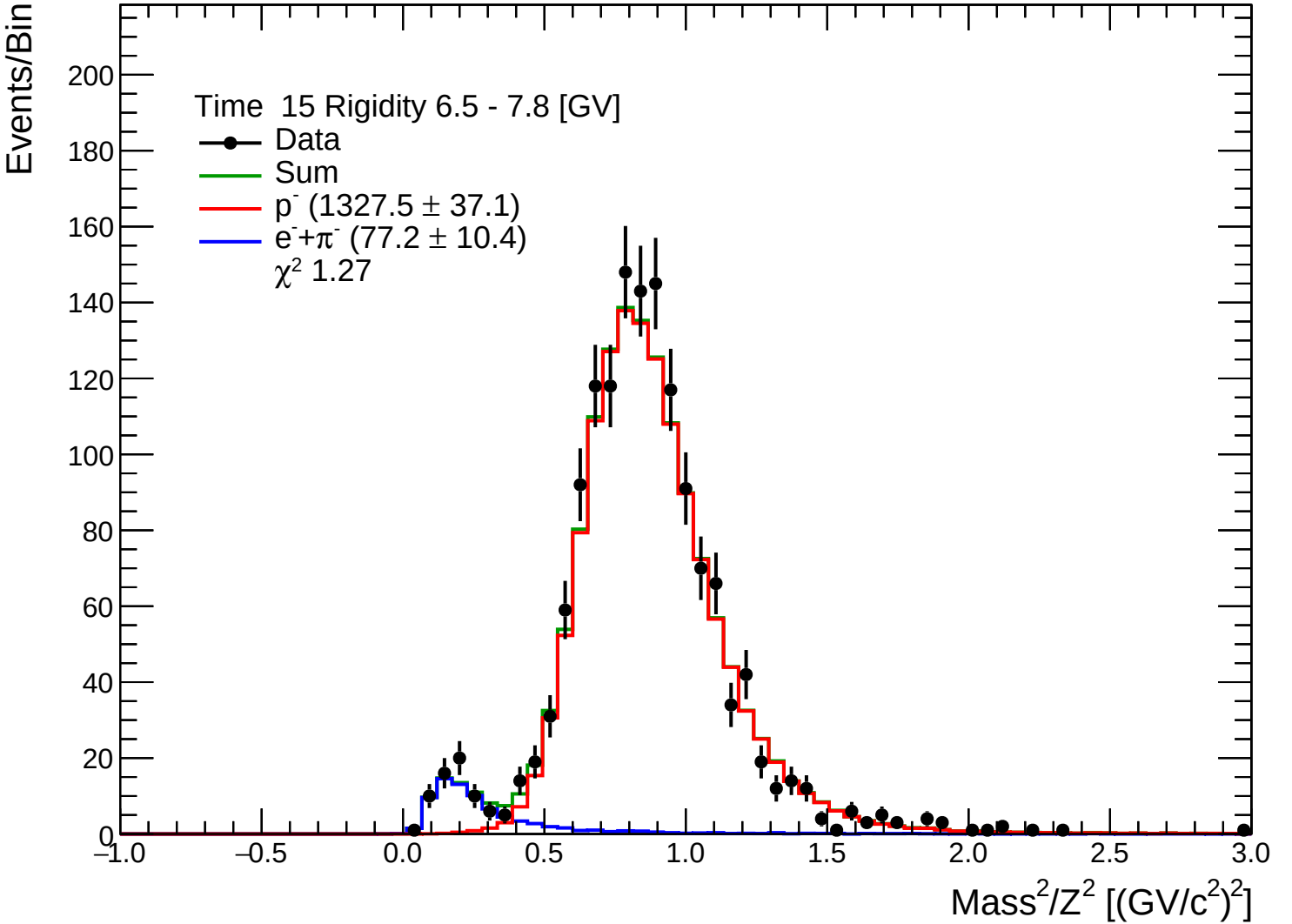

Events/Bin
400
350
300
250
200
150
100
50
0
560
565
570
575
580
585
590
595
Number [Temp 0]

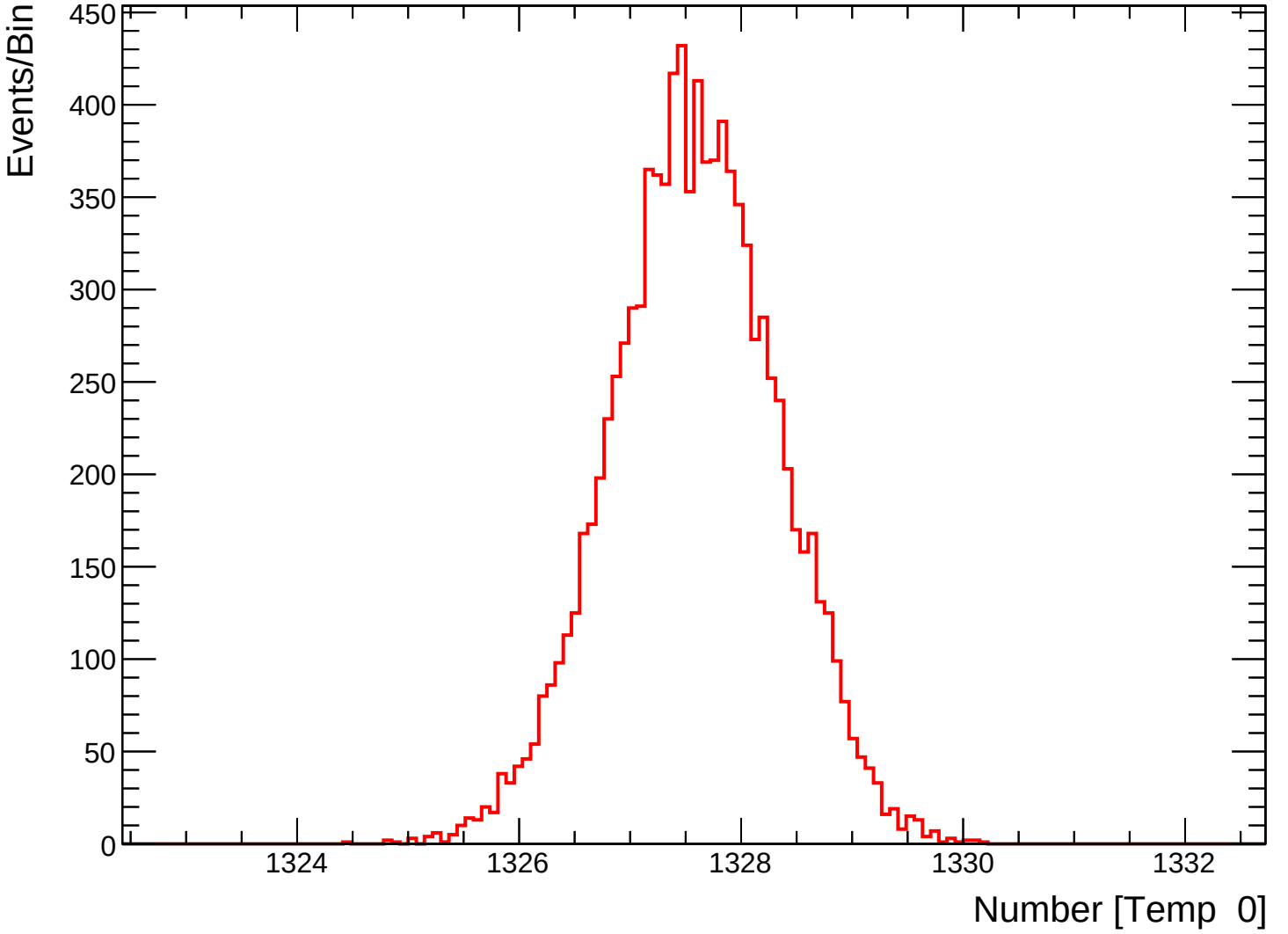

Time 15 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1044.9 ± 34.2)
e⁻+π⁻ (16.0 ± 11.5)
χ² 0.84
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

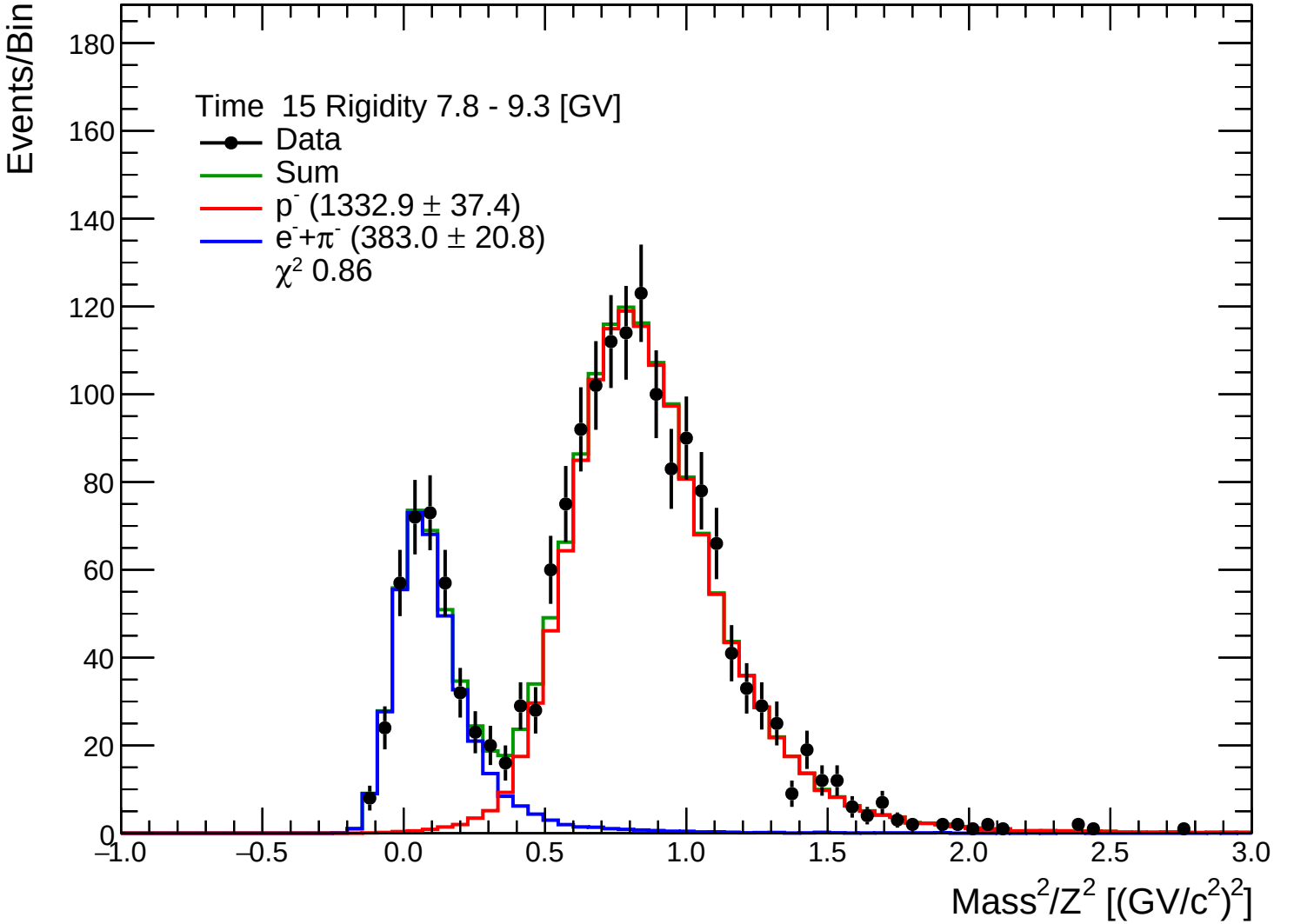

Events/Bin
400
350
300
250
200
150
100
50
0
1030
1035
1040
1045
1050
1055
1060
Number [Temp 0]

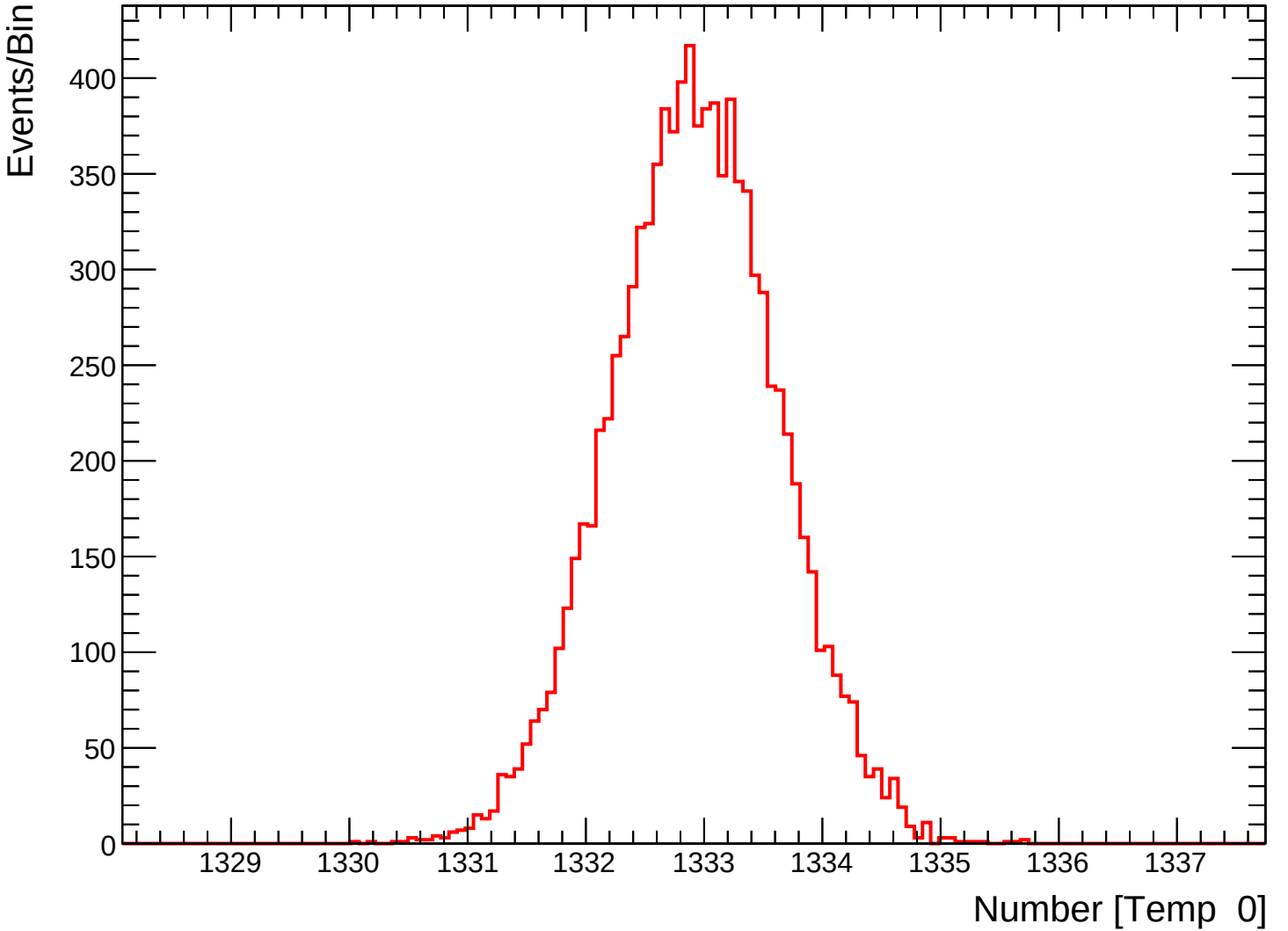

Time 15 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1266.2 ± 36.8)
e⁻+π⁻ (20.2 ± 9.6)
χ² 0.78
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

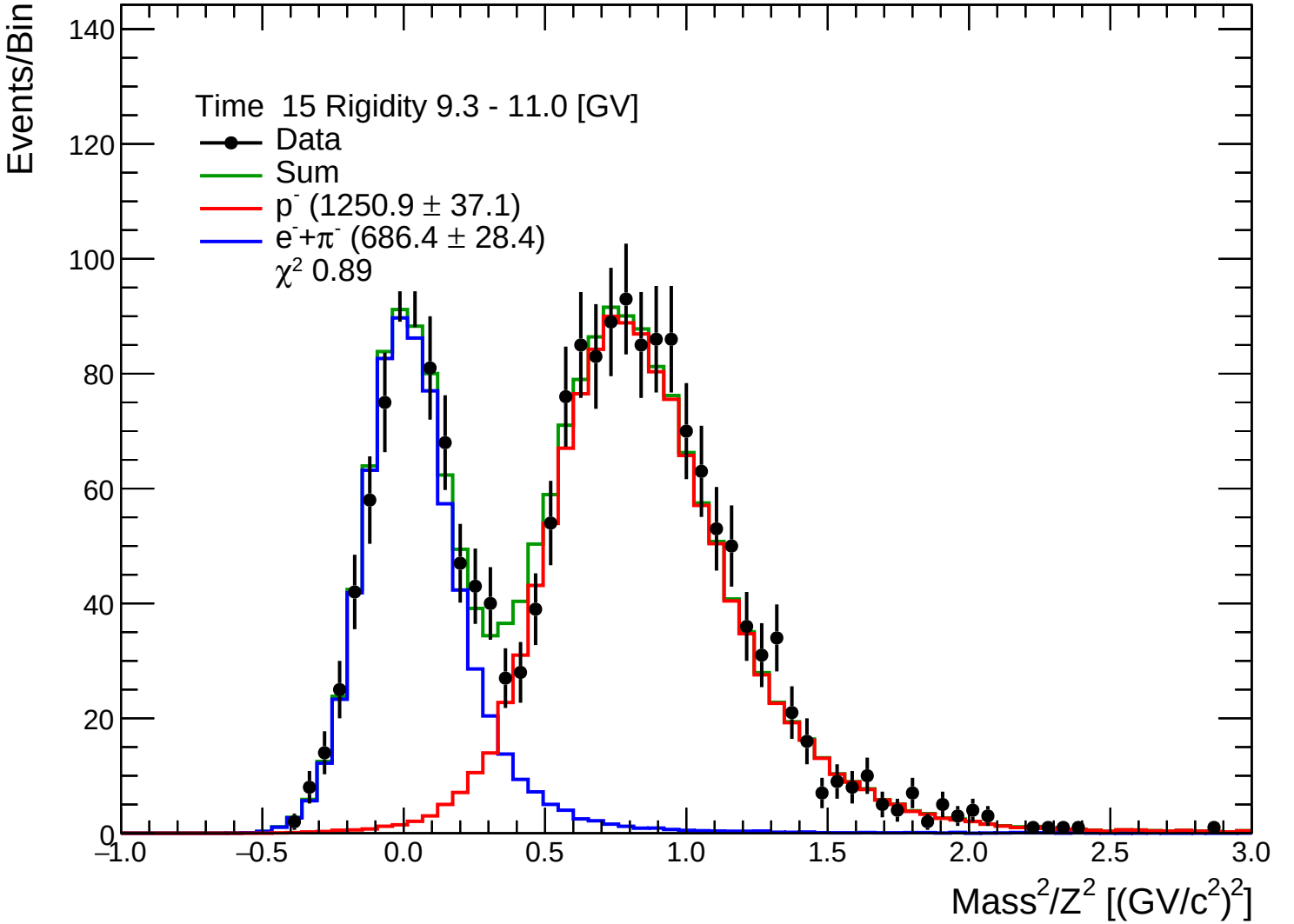

Events/Bin
400
350
300
250
200
150
100
50
0
1258
1260
1262
1264
1266
1268
1270
1272
1274
Number [Temp 0]

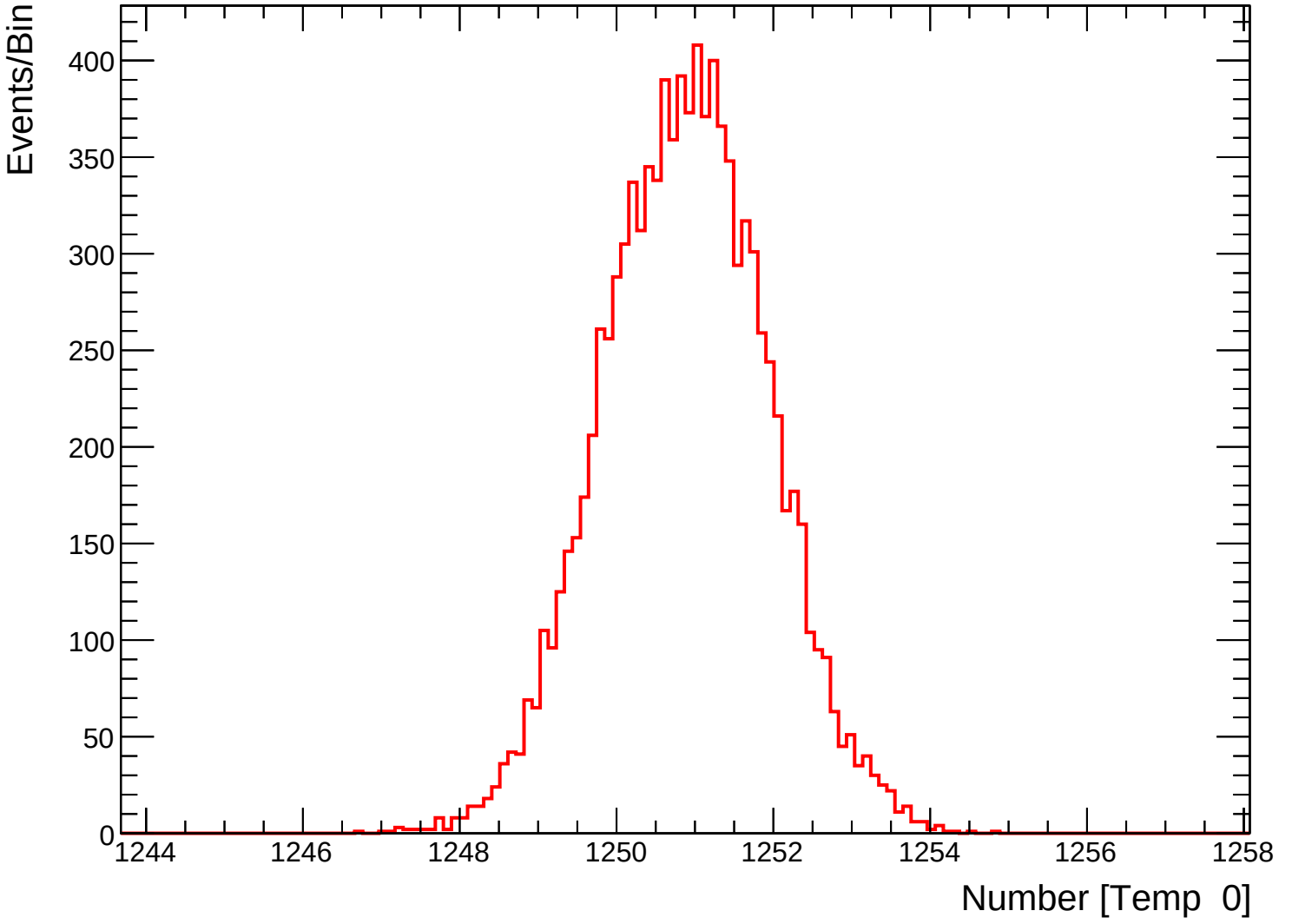

Time 15 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1327.5 ± 37.1)
e⁻+π⁻ (77.2 ± 10.4)
χ² 1.27
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

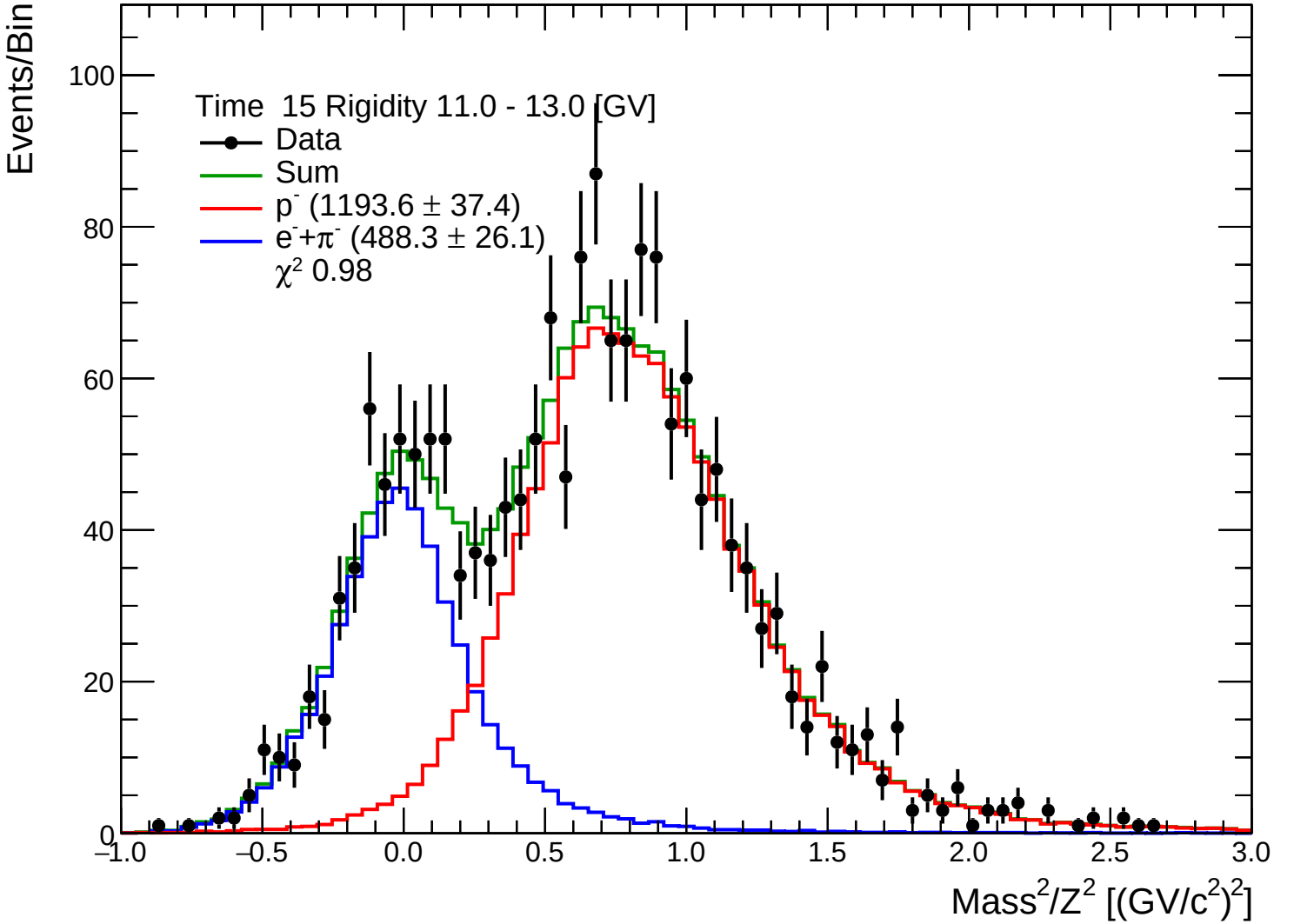

Events/Bin
450
400
350
300
250
200
150
100
50
0
1324
1326
1328
1330
1332
Number [Temp 0]

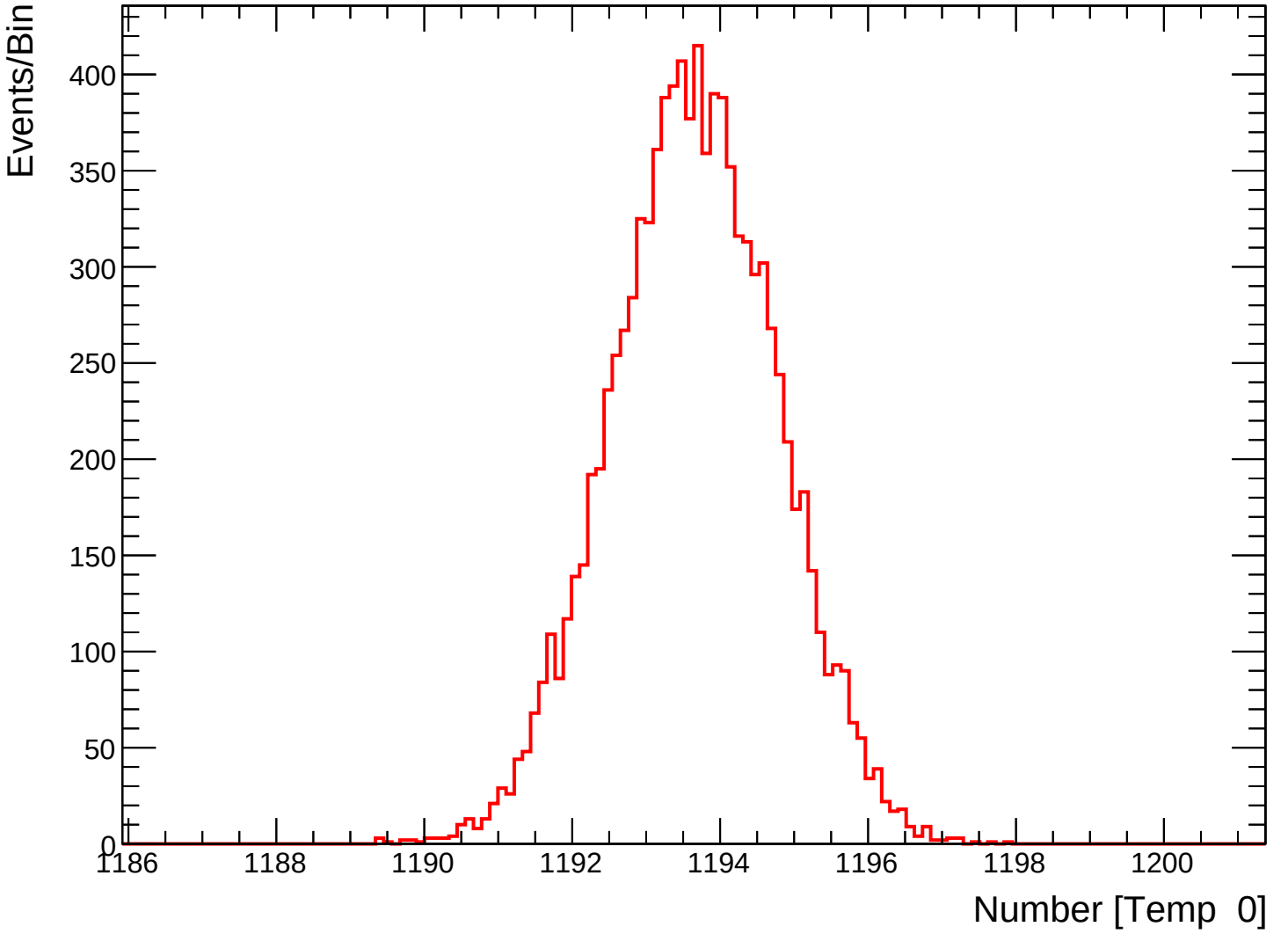

Time 15 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1332.9 ± 37.4)
e⁻+π⁻ (383.0 ± 20.8)
χ² 0.86
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

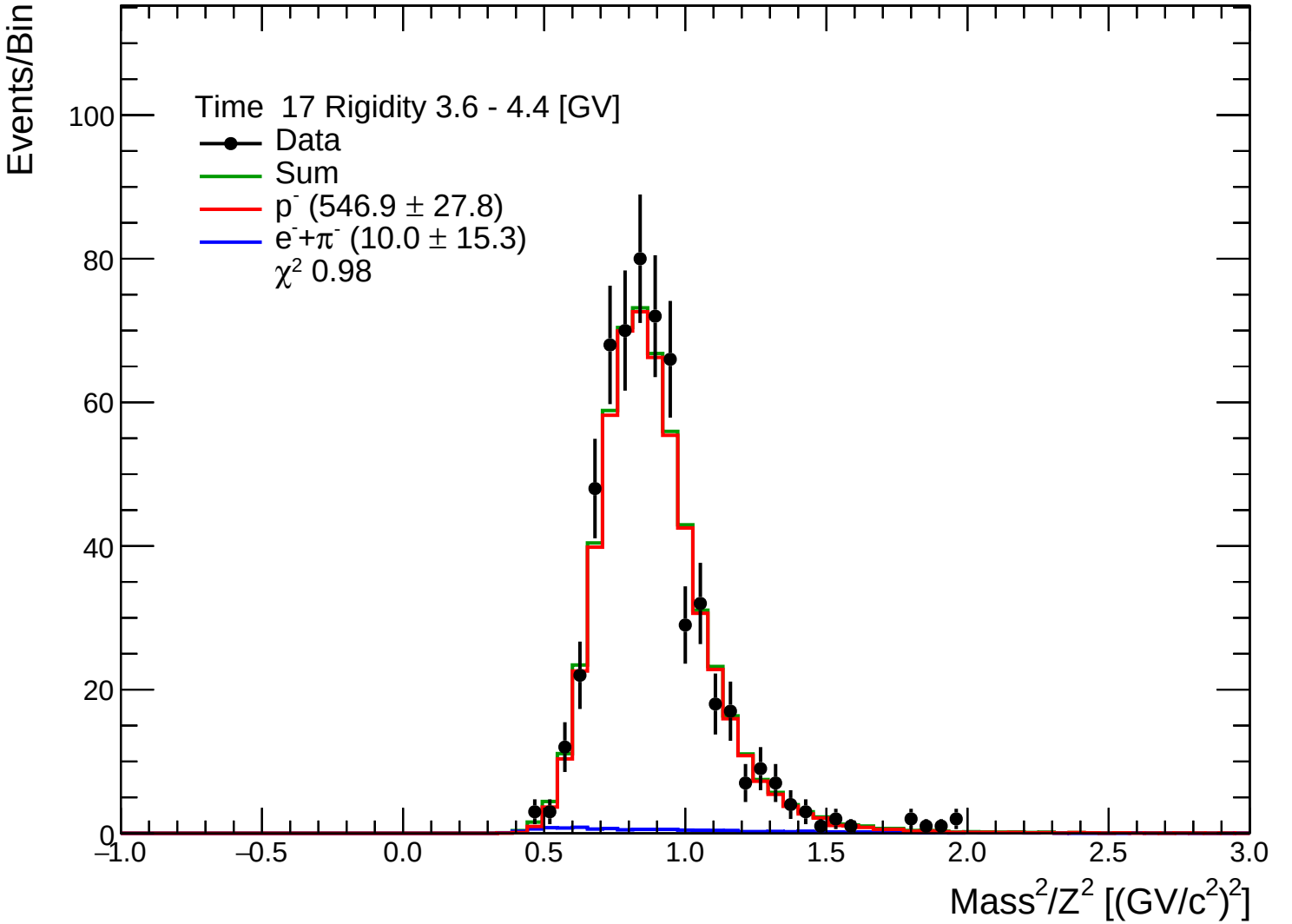

Events/Bin
400
350
300
250
200
150
100
50
0
1329
1330
1331
1332
1333
1334
1335
1336
1337
Number [Temp 0]

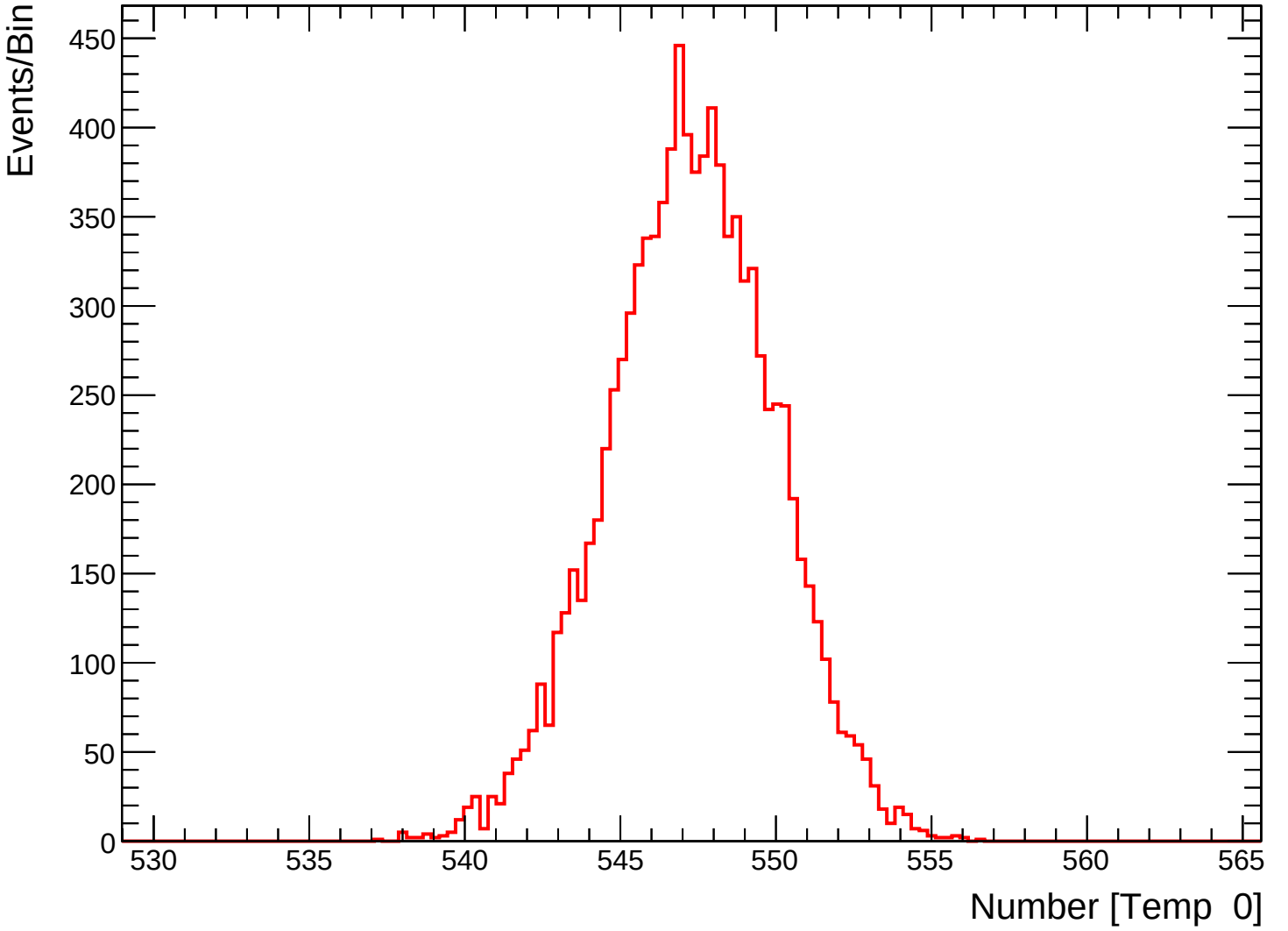

Time 15 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1250.9 ± 37.1)
e⁻+π⁻ (686.4 ± 28.4)
χ² 0.89
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

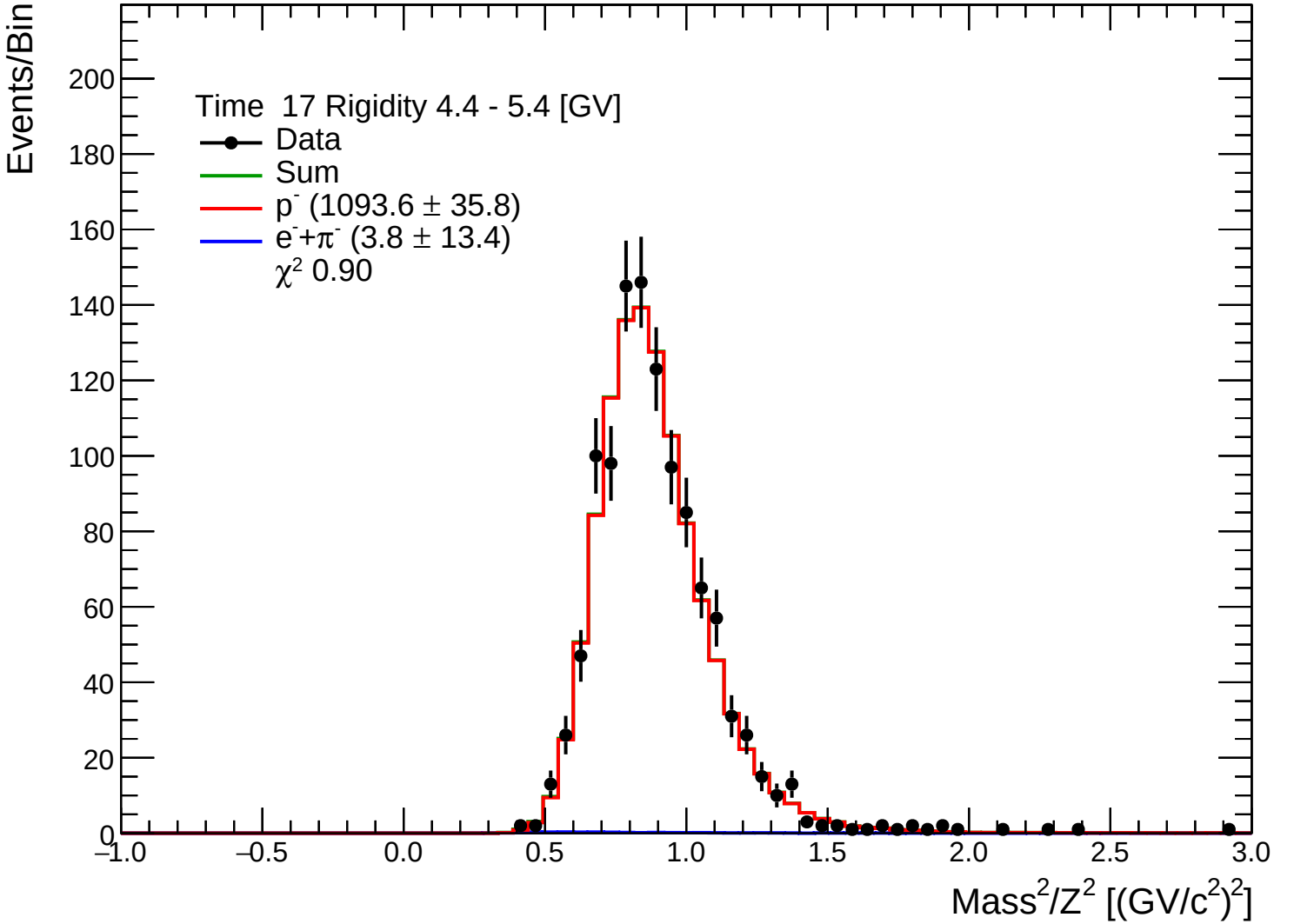

Events/Bin
400
350
300
250
200
150
100
50
0
1244
1246
1248
1250
1252
1254
1256
1258
Number [Temp 0]

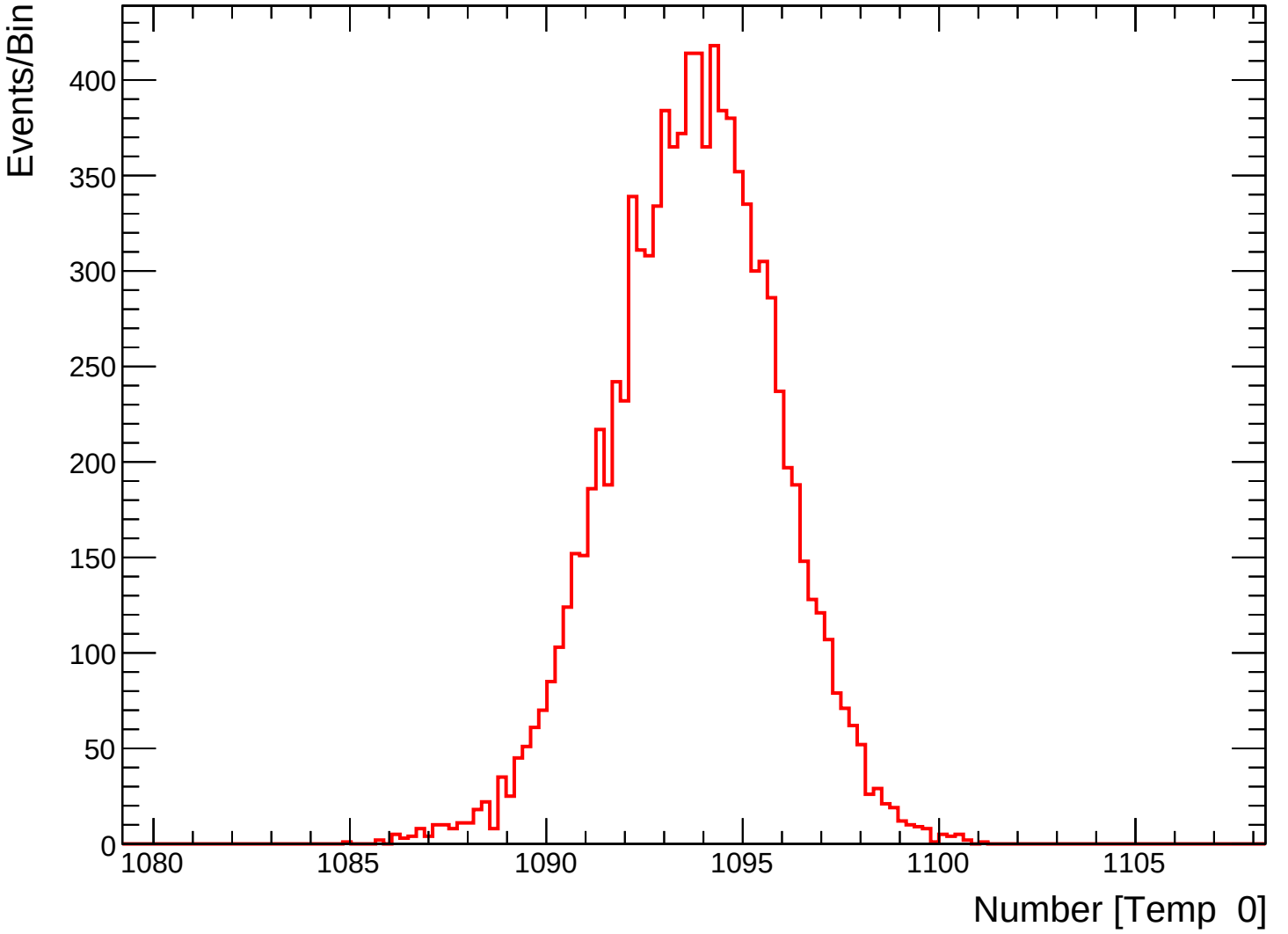

Time 15 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1193.6 ± 37.4)
e⁻+π⁻ (488.3 ± 26.1)
χ² 0.98
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

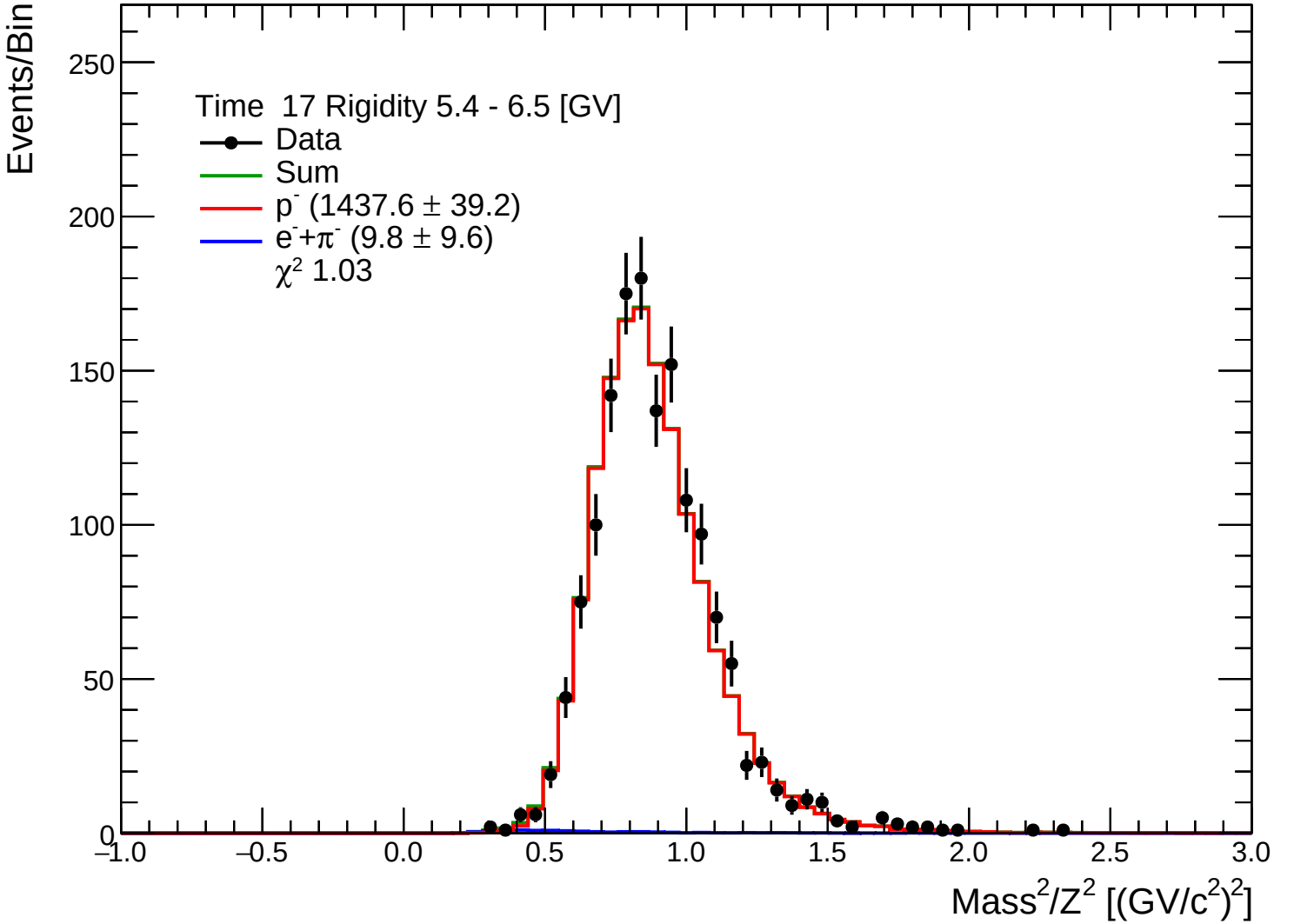

Events/Bin
400
350
300
250
200
150
100
50
0
1186
1188
1190
1192
1194
1196
1198
1200
Number [Temp 0]

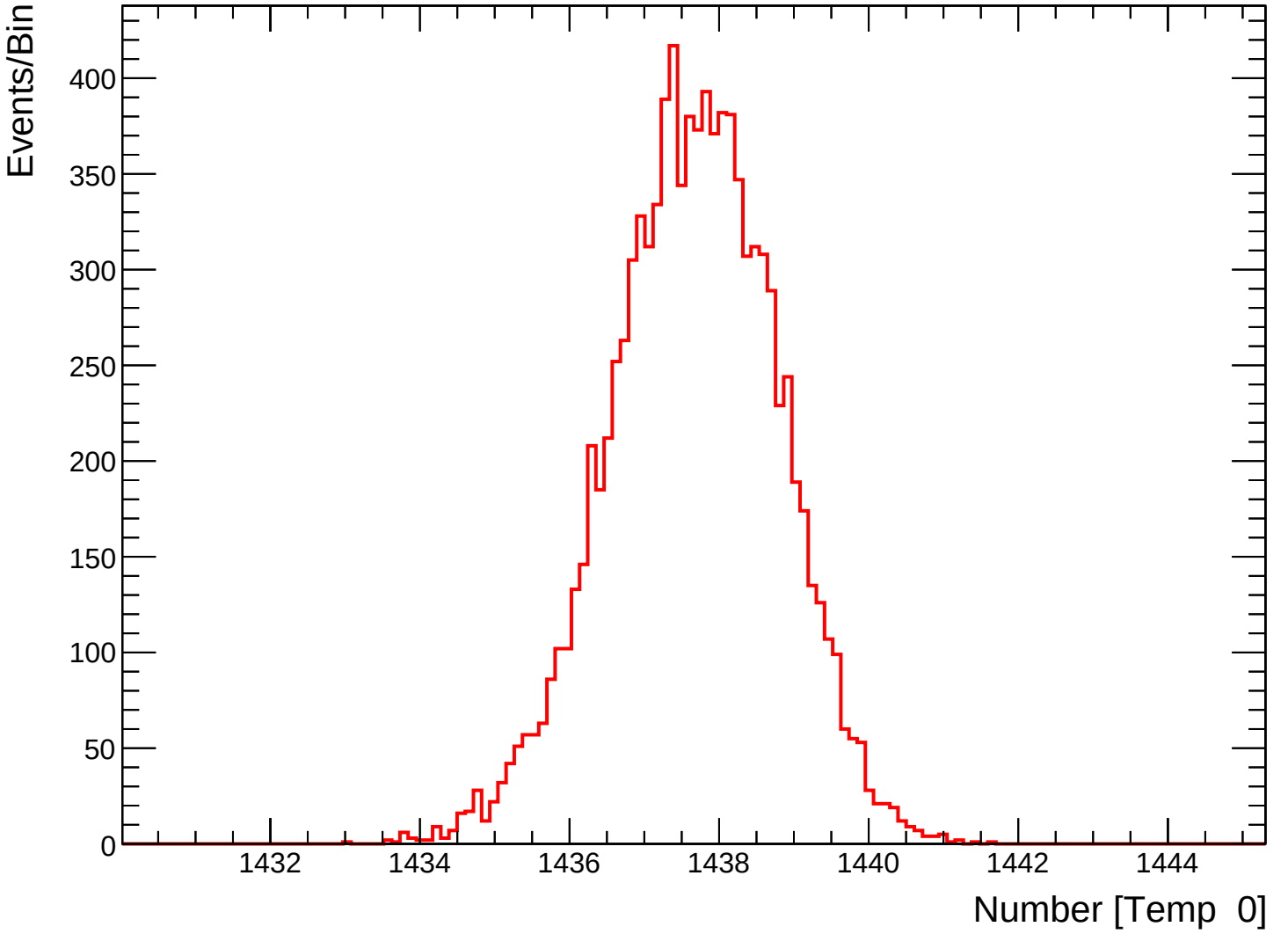

Time 17 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (546.9 ± 27.8)
e⁻+π⁻ (10.0 ± 15.3)
χ² 0.98
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

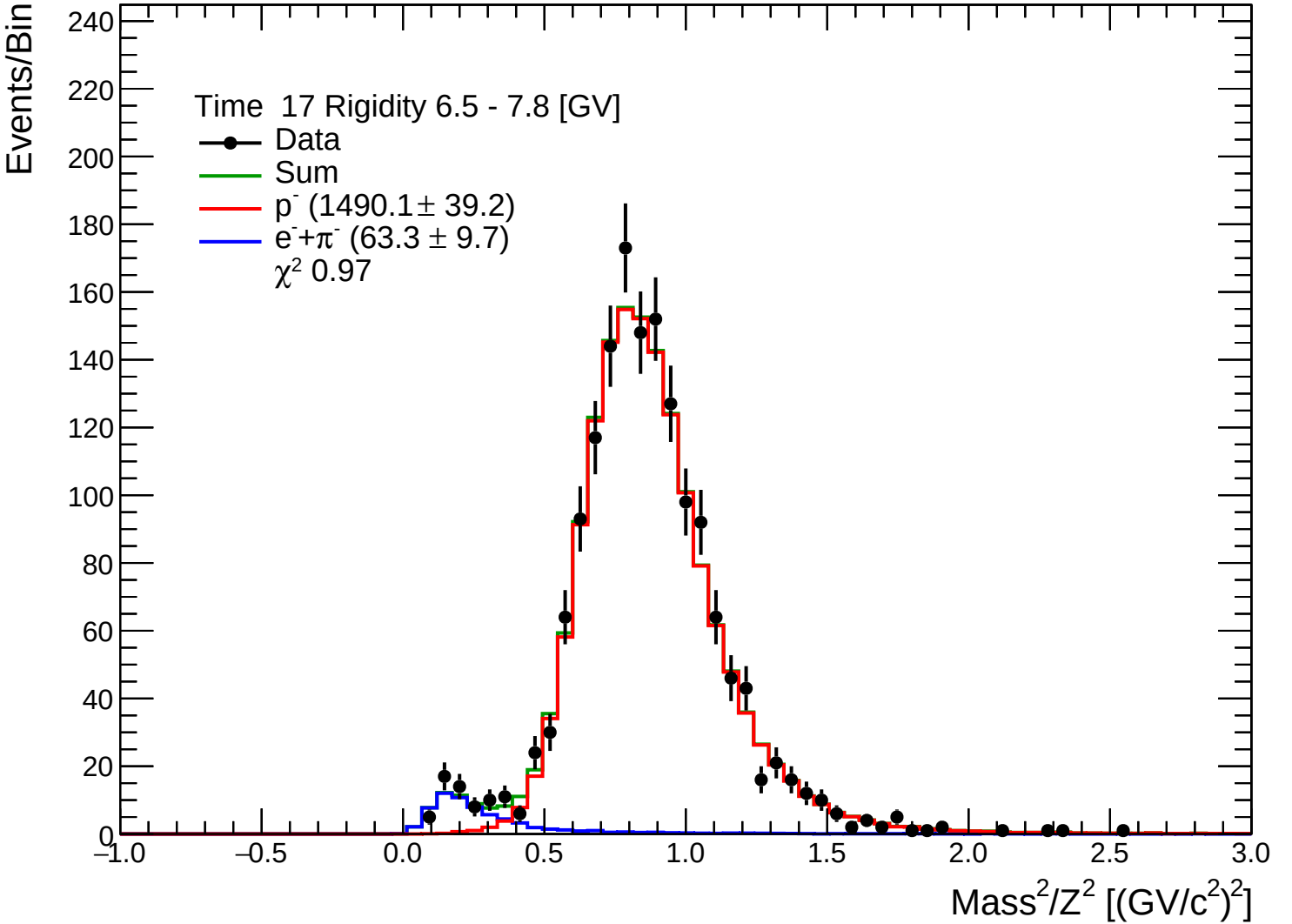

Events/Bin
450
400
350
300
250
200
150
100
50
0
530
535
540
545
550
555
560
565
Number [Temp 0]

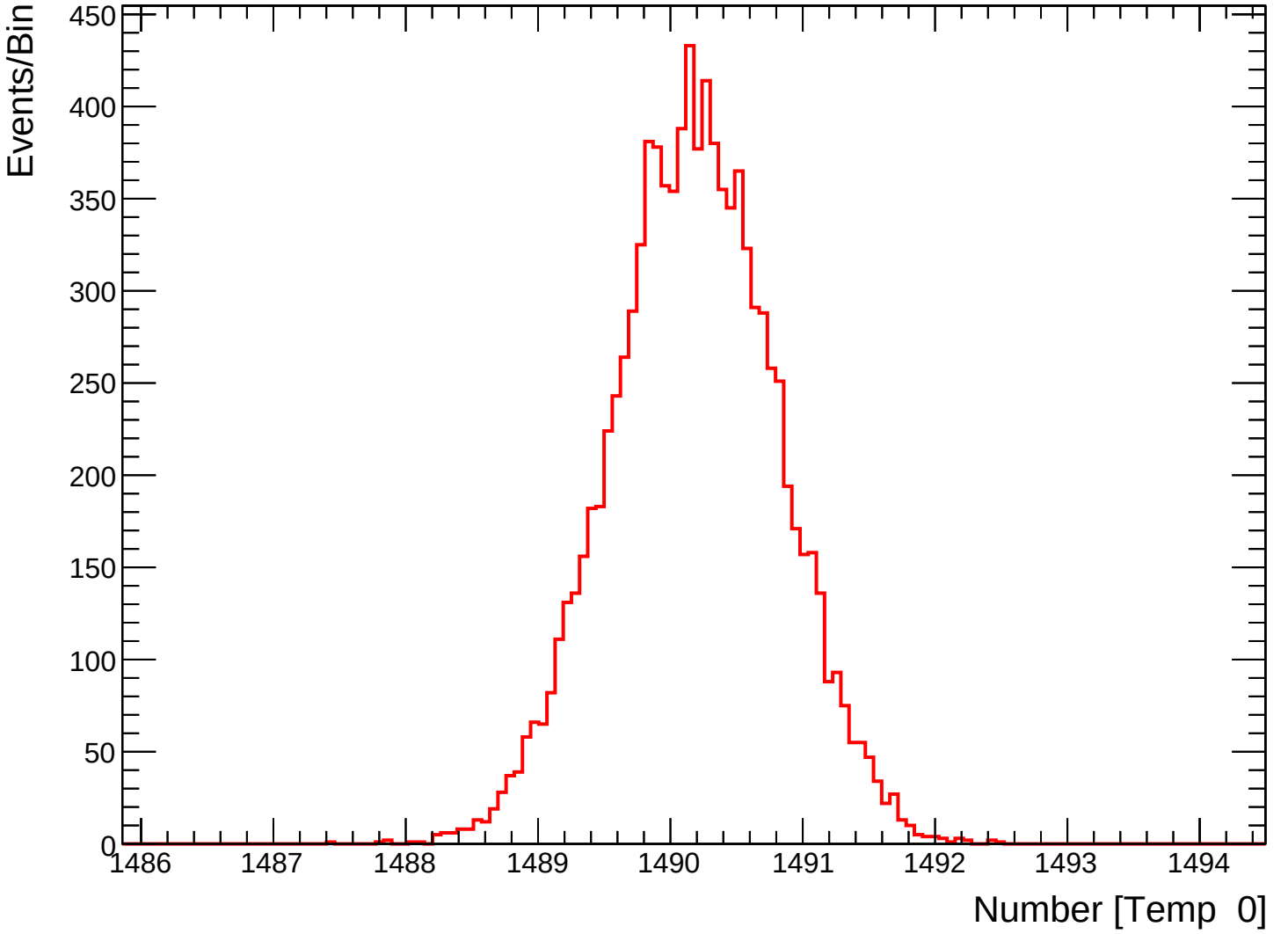

Time 17 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1093.6 ± 35.8)
e⁻+π⁻ (3.8 ± 13.4)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

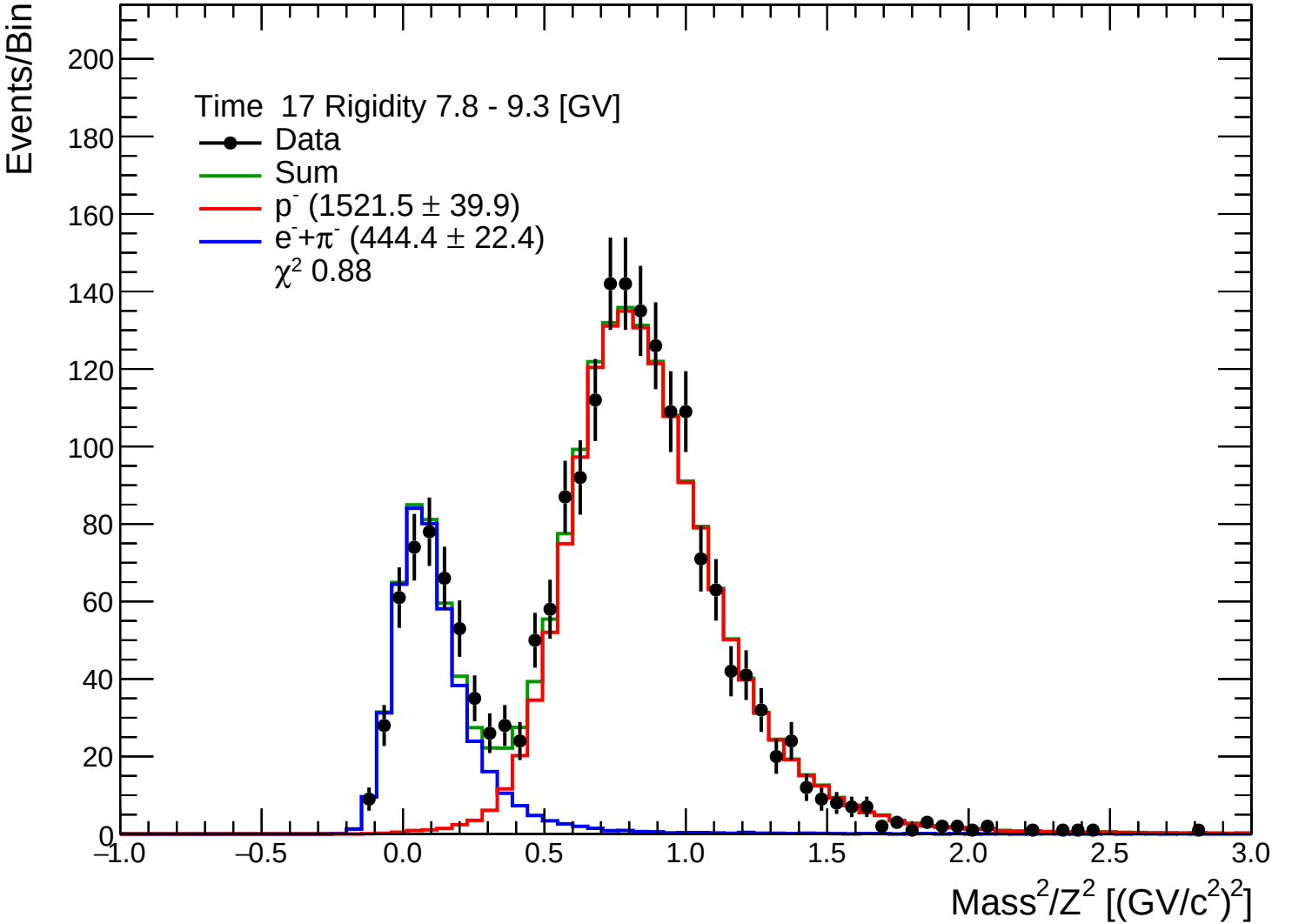

Events/Bin
400
350
300
250
200
150
100
50
0
1080
1085
1090
1095
1100
1105
Number [Temp 0]

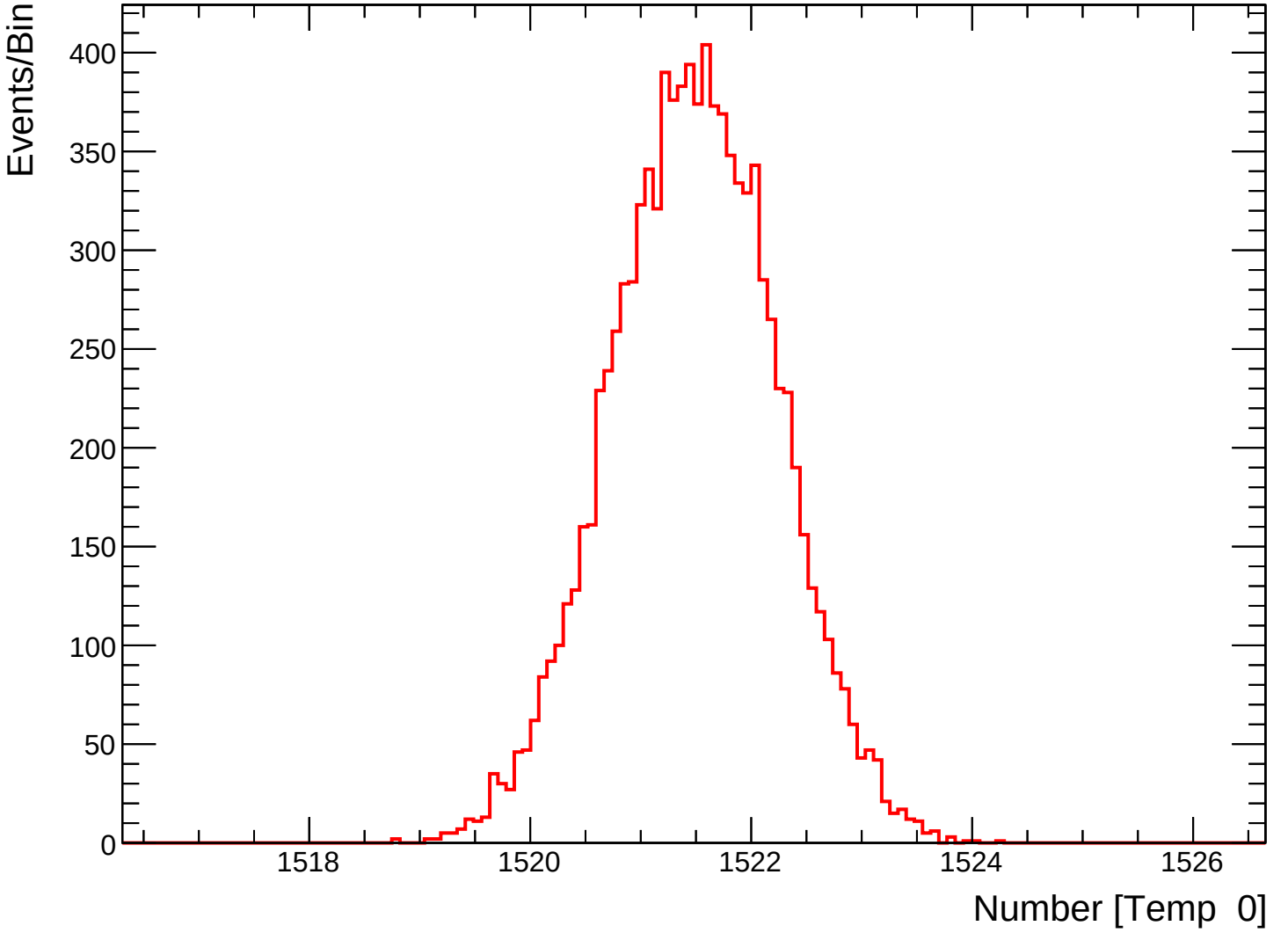

Time 17 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1437.6 ± 39.2)
e⁻+π⁻ (9.8 ± 9.6)
χ² 1.03
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

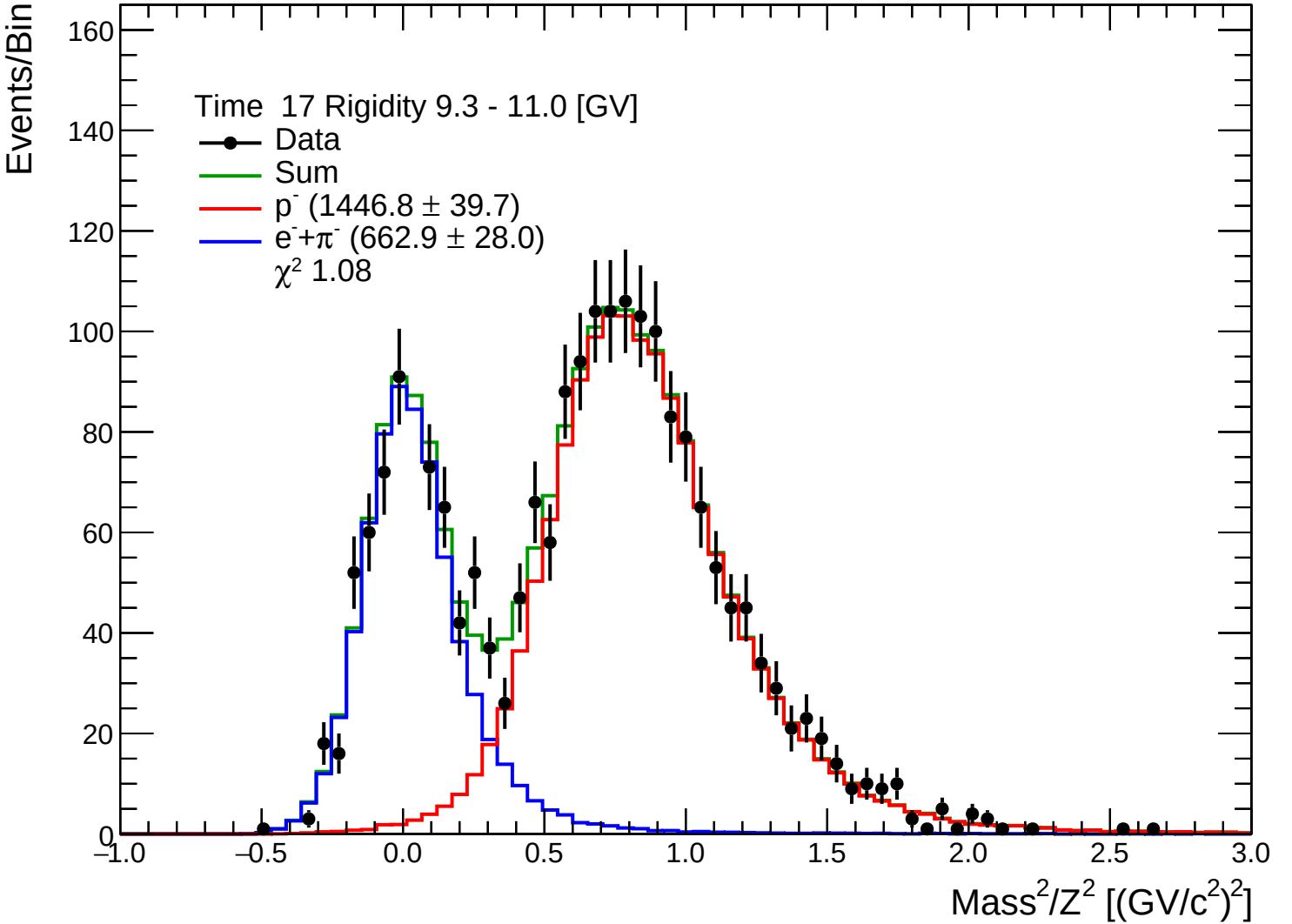

Events/Bin
400
350
300
250
200
150
100
50
0
1432
1434
1436
1438
1440
1442
1444
Number [Temp 0]

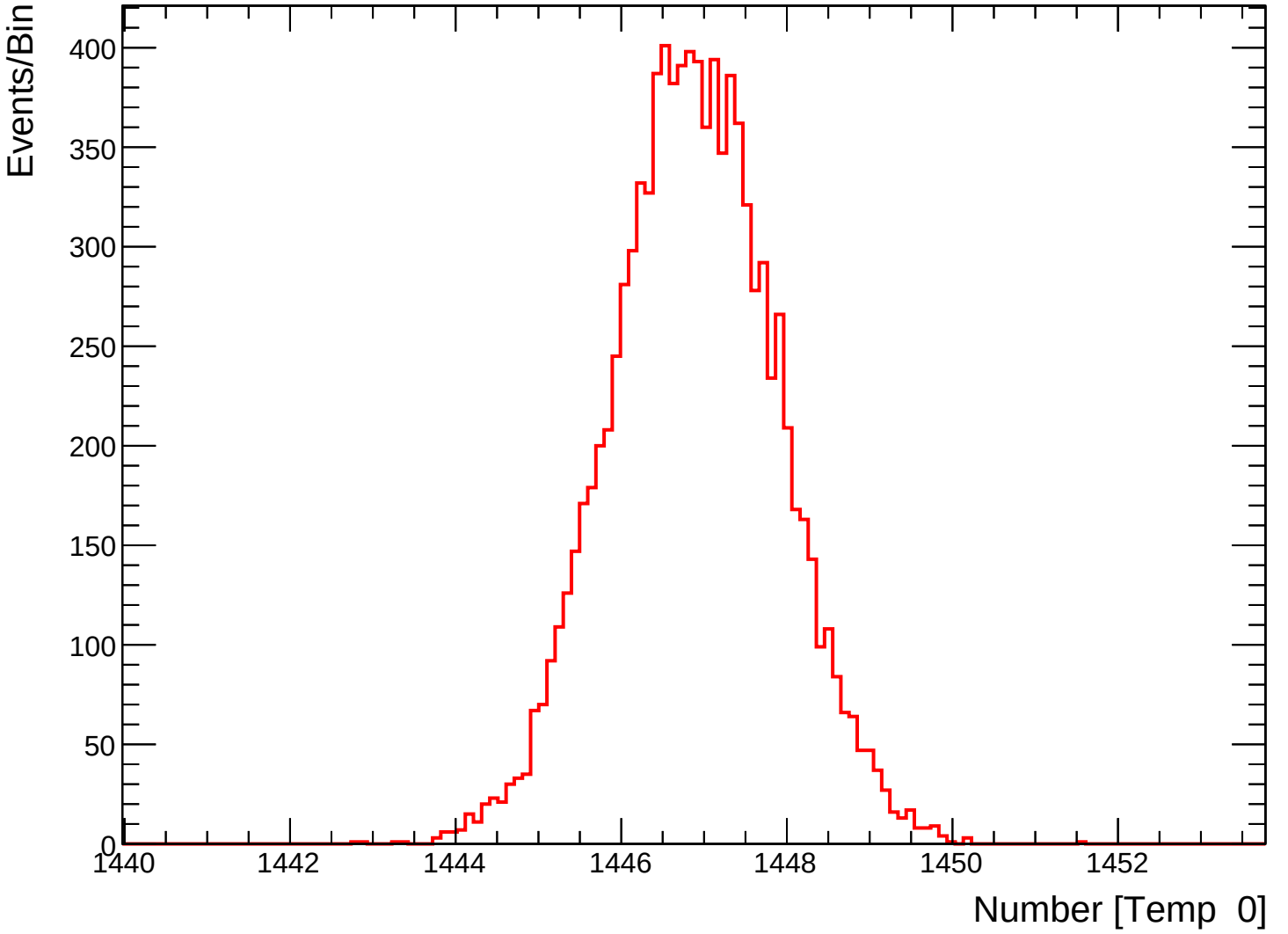

Time 17 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1490.1± 39.2)
e⁻+π⁻ (63.3 ± 9.7)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

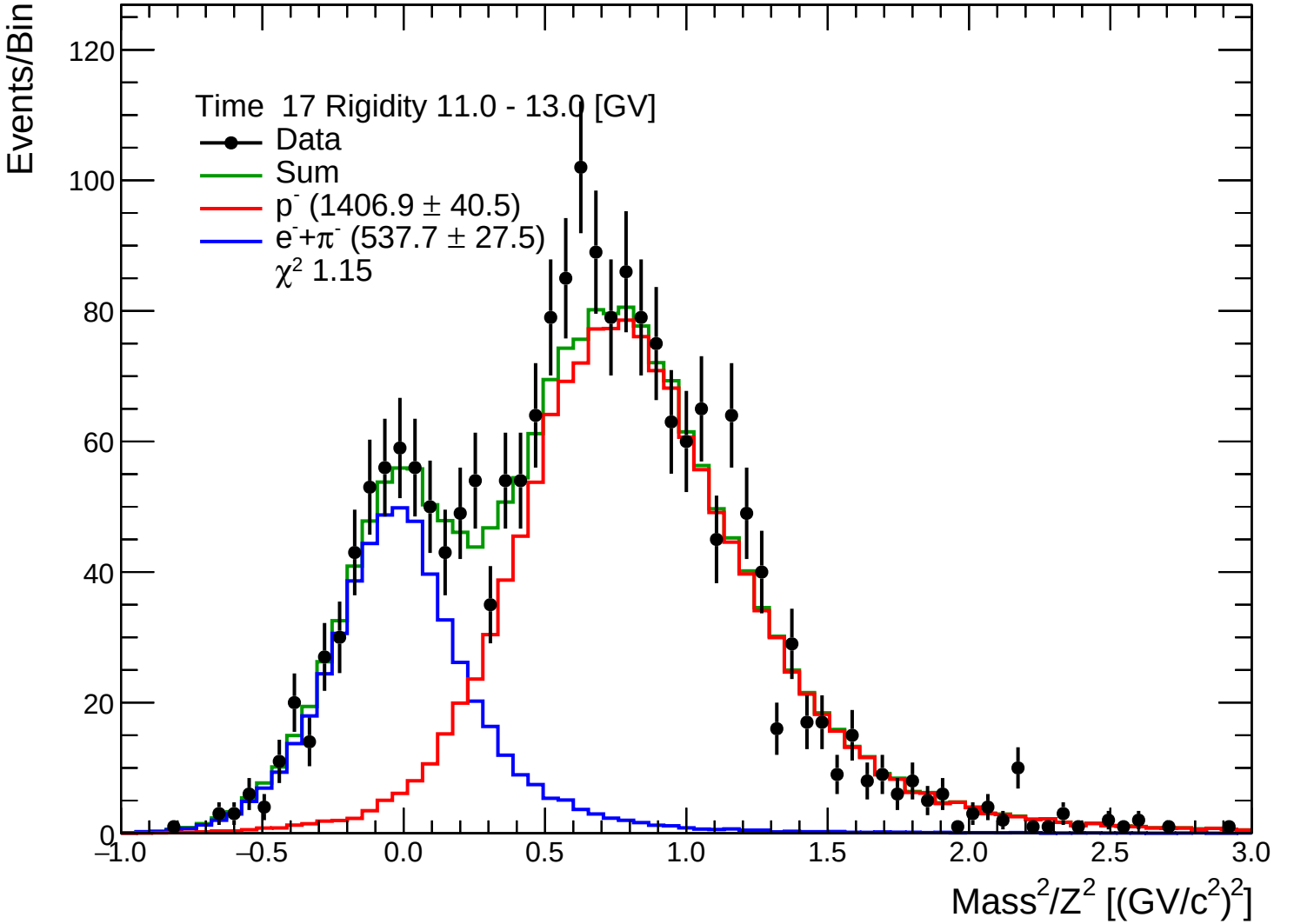

Events/Bin
450
400
350
300
250
200
150
100
50
0
1486
1487
1488
1489
1490
1491
1492
1493
1494
Number [Temp 0]

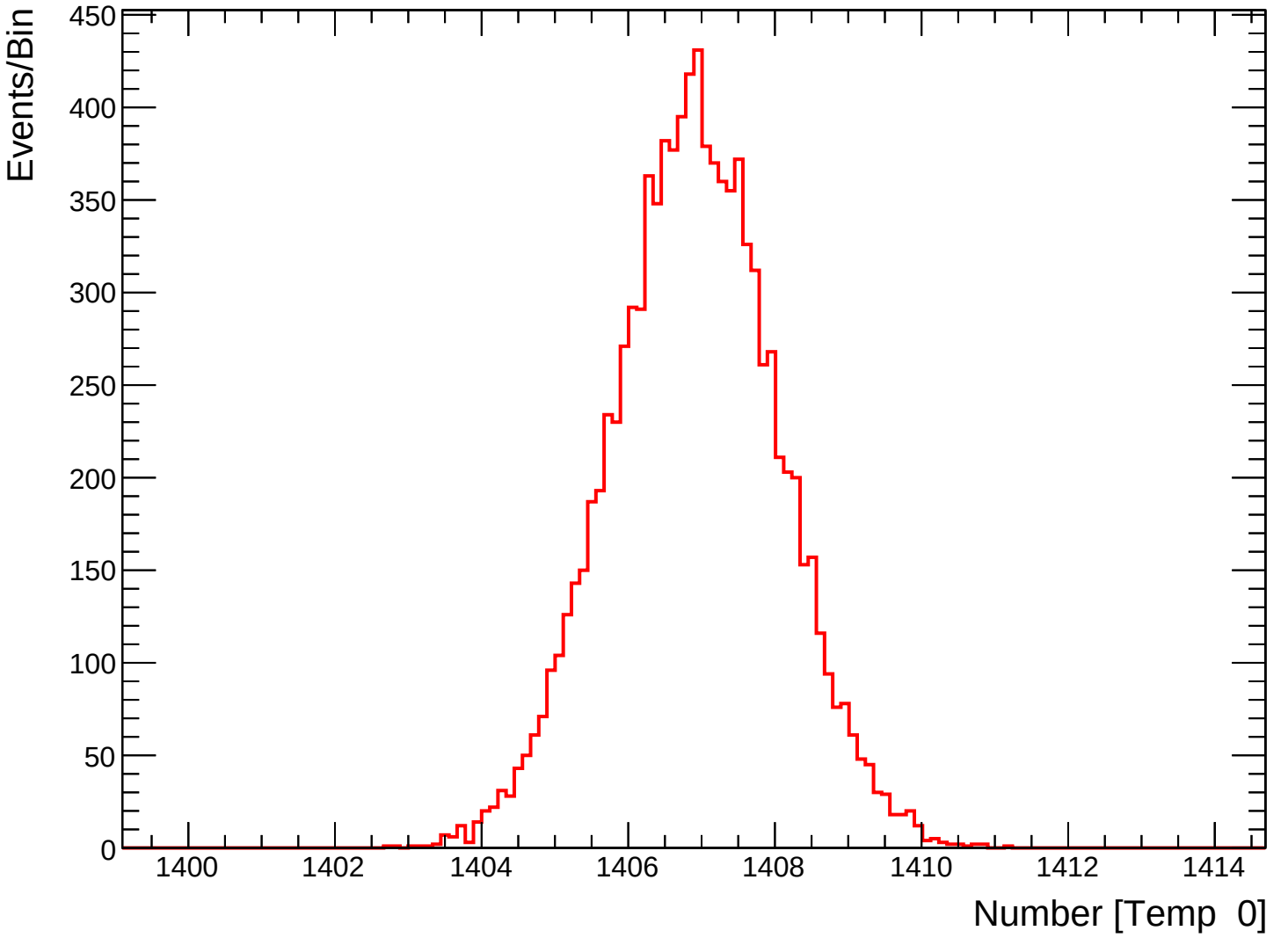

Time 17 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1521.5 ± 39.9)
e⁻+π⁻ (444.4 ± 22.4)
χ² 0.88
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

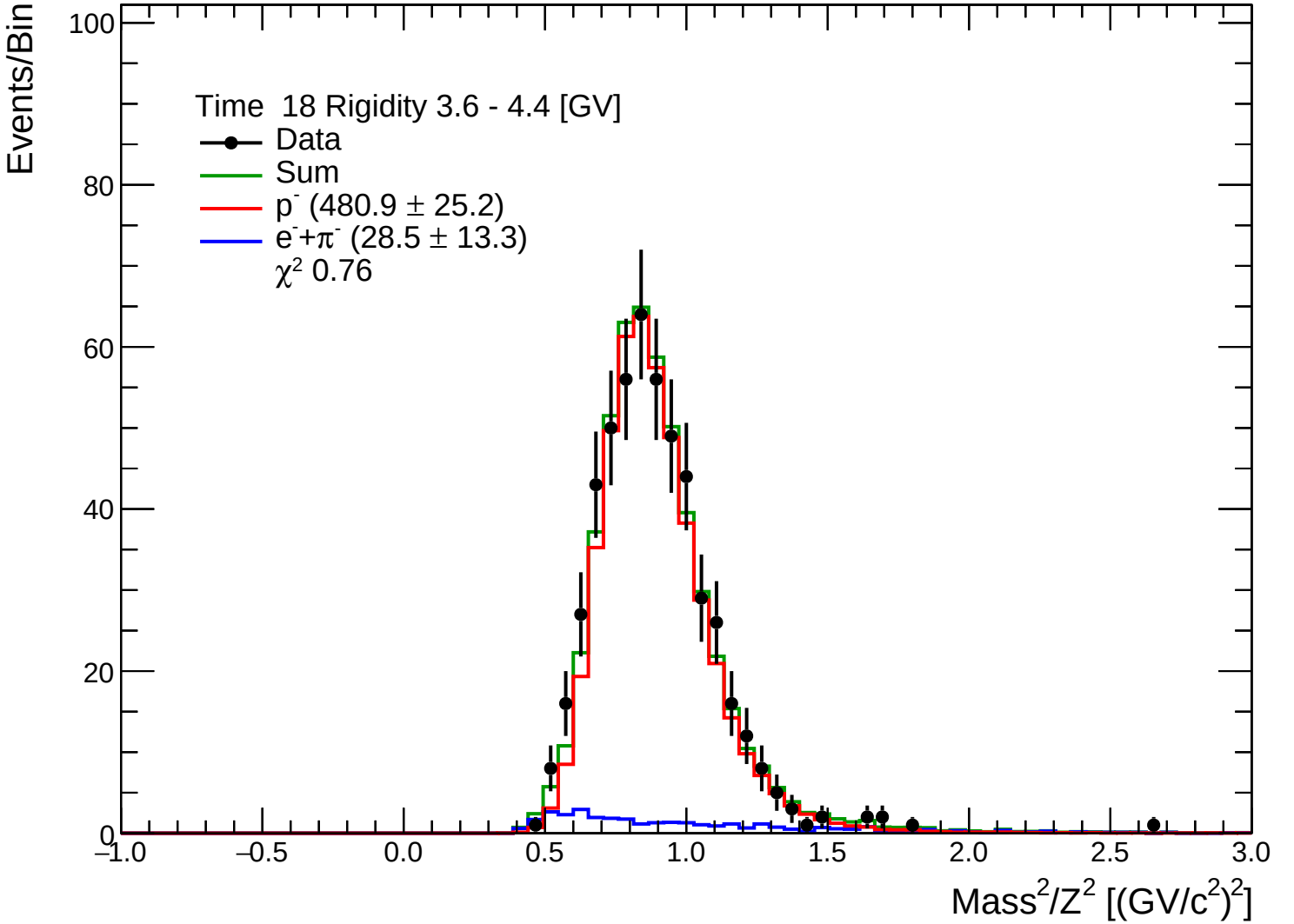

Events/Bin
400
350
300
250
200
150
100
50
0
1518
1520
1522
1524
1526
Number [Temp 0]

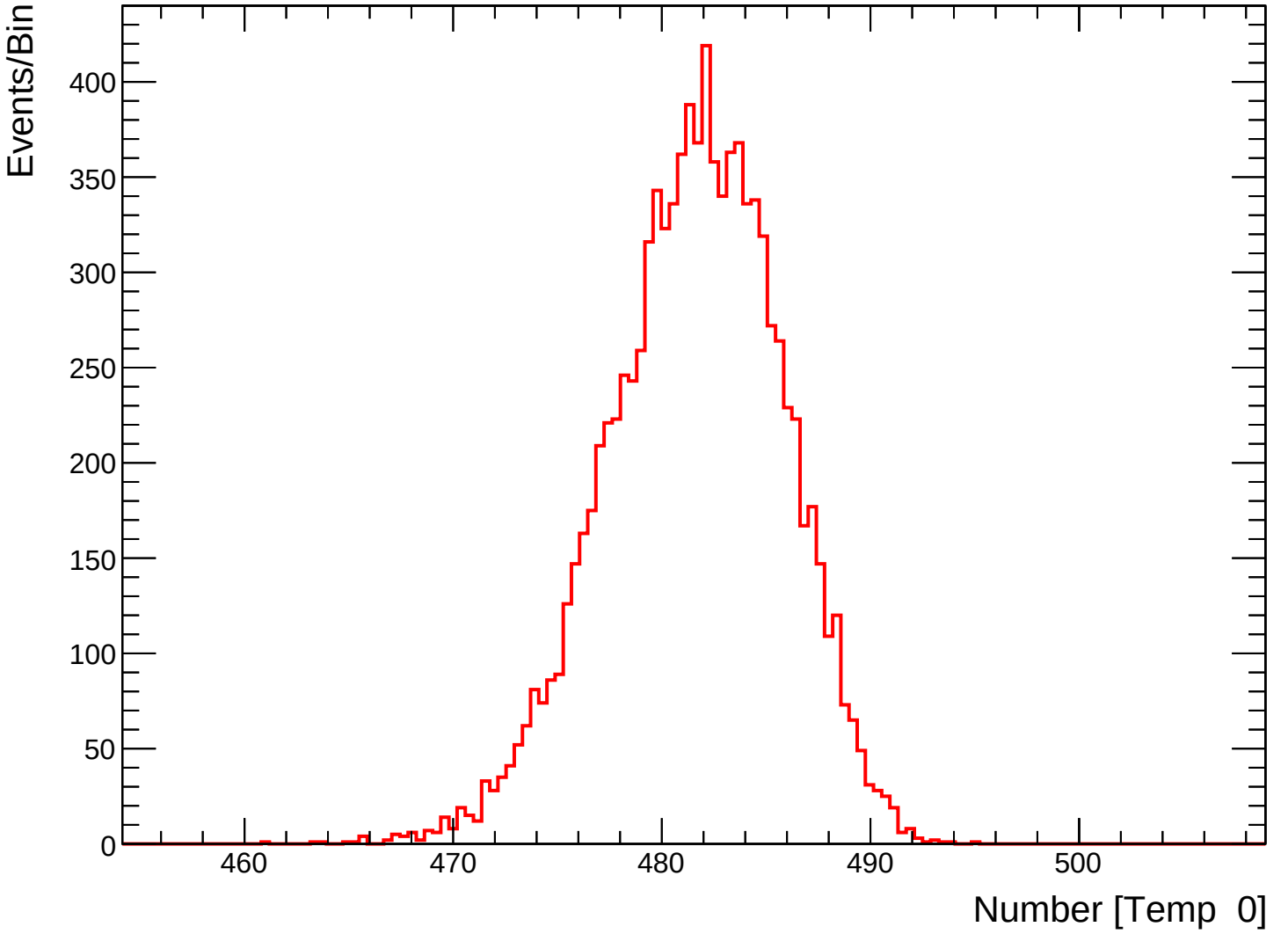

Time 17 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1446.8 ± 39.7)
e⁻+π⁻ (662.9 ± 28.0)
χ² 1.08
Events/Bin
Mass²/Z² [(GV/c²)²]
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

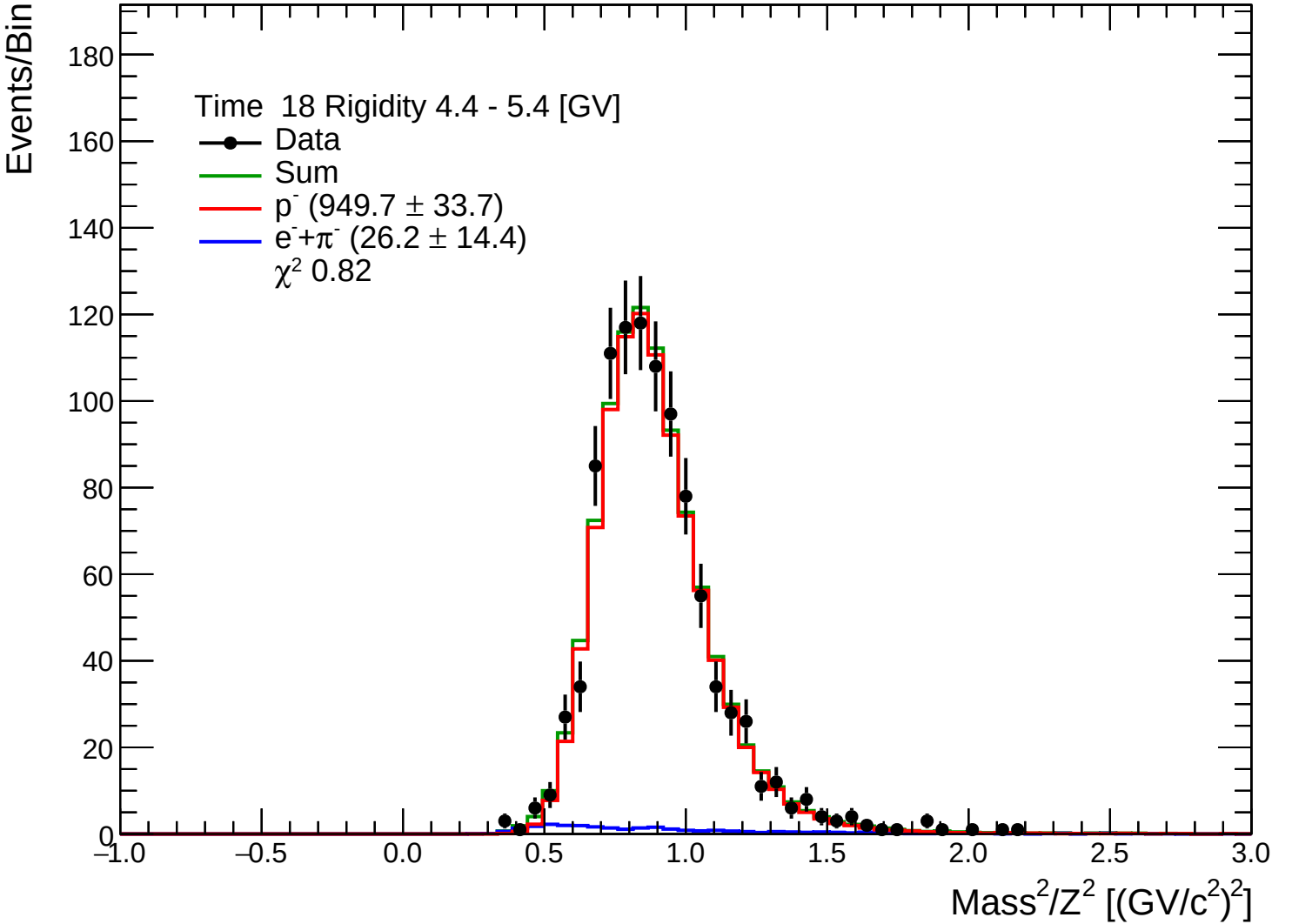

Events/Bin
400
350
300
250
200
150
100
50
0
1440
1442
1444
1446
1448
1450
1452
Number [Temp 0]

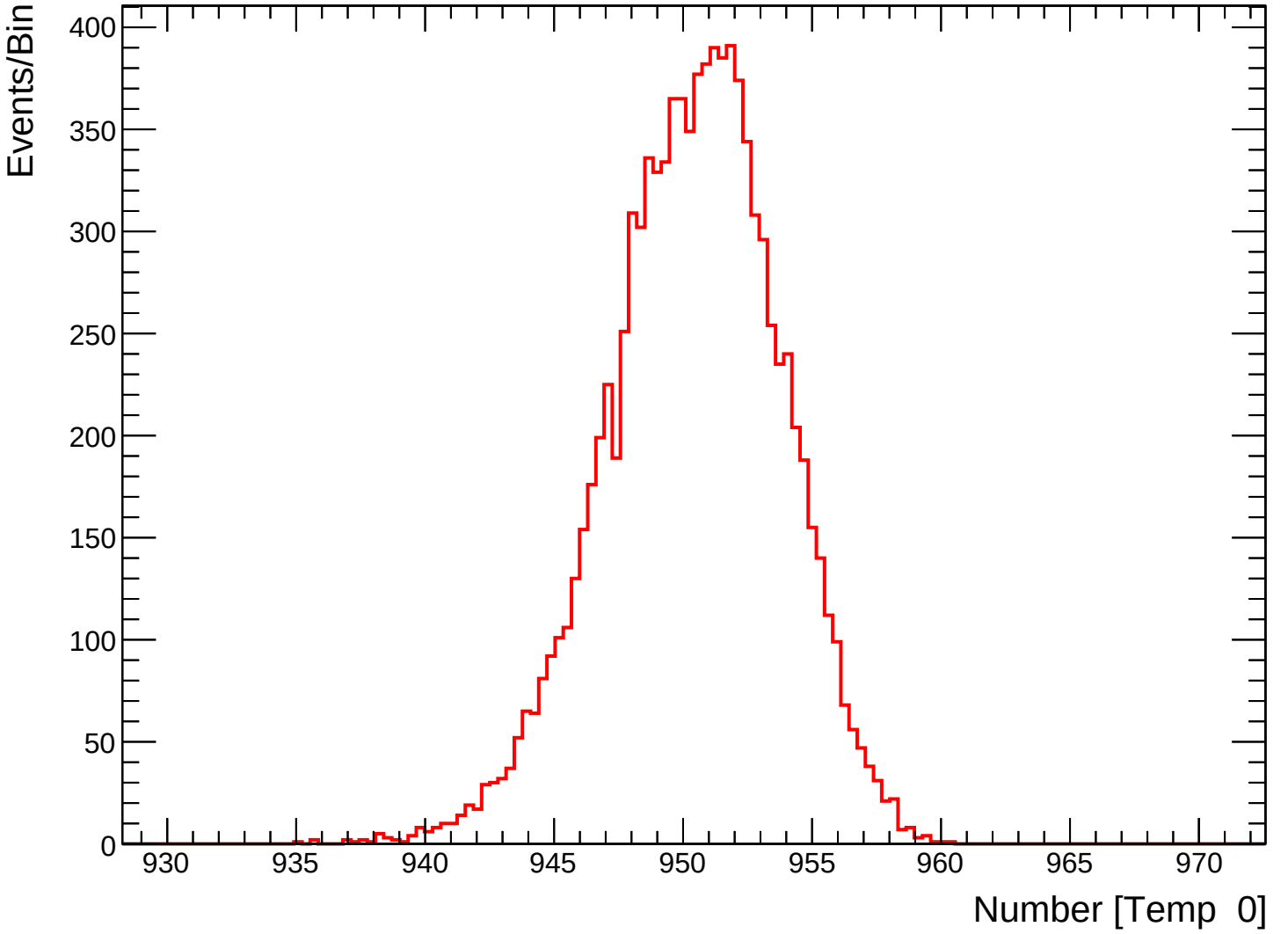

Time 17 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1406.9 ± 40.5)
e⁻+π⁻ (537.7 ± 27.5)
χ² 1.15
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

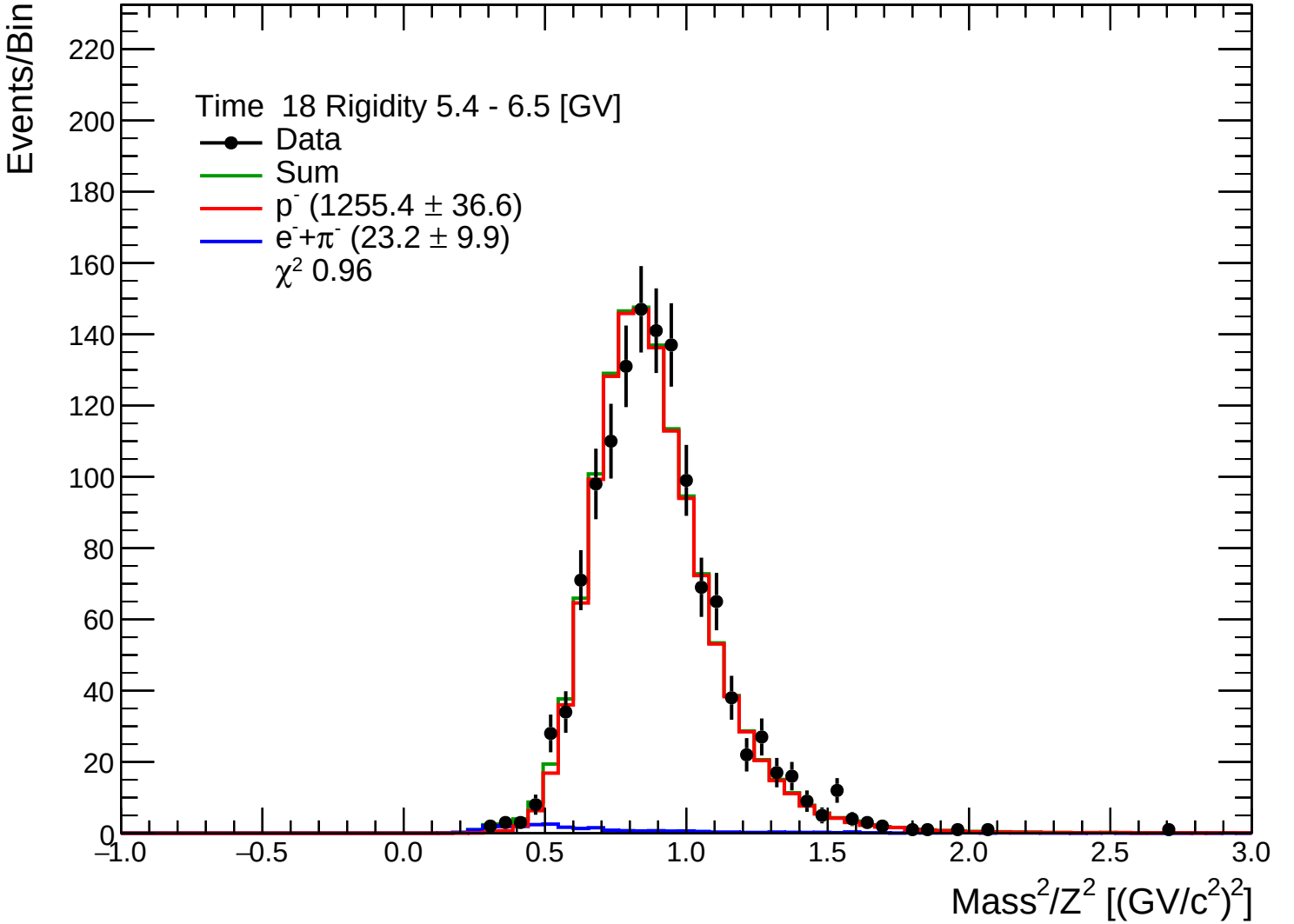

Events/Bin
450
400
350
300
250
200
150
100
50
0
1400
1402
1404
1406
1408
1410
1412
1414
Number [Temp 0]

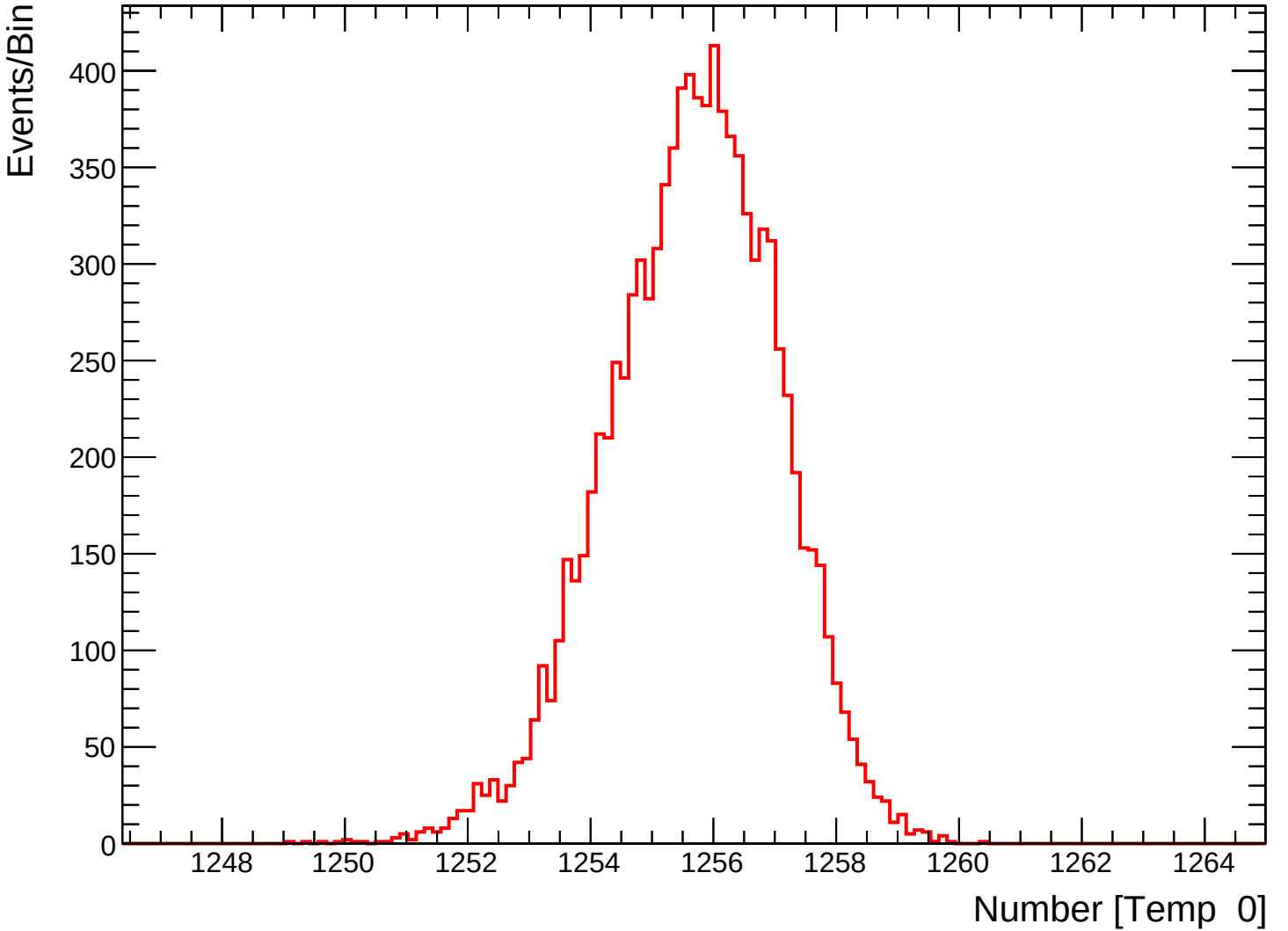

Time 18 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (480.9 ± 25.2)
e⁻+π⁻ (28.5 ± 13.3)
χ² 0.76
Events/Bin
Mass²/Z² [(GV/c²)²]
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

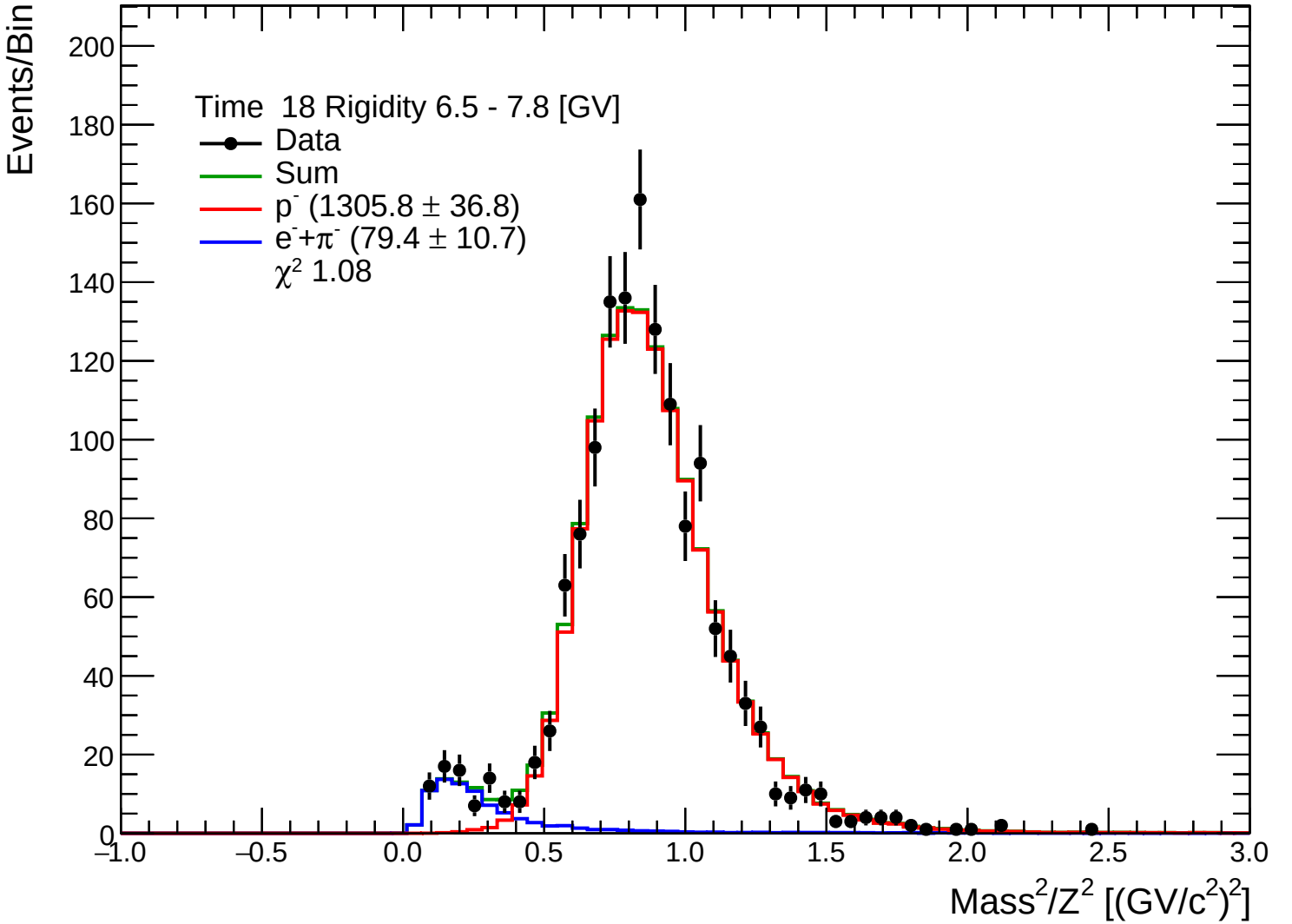

Events/Bin
400
350
300
250
200
150
100
50
0
460
470
480
490
500
Number [Temp 0]

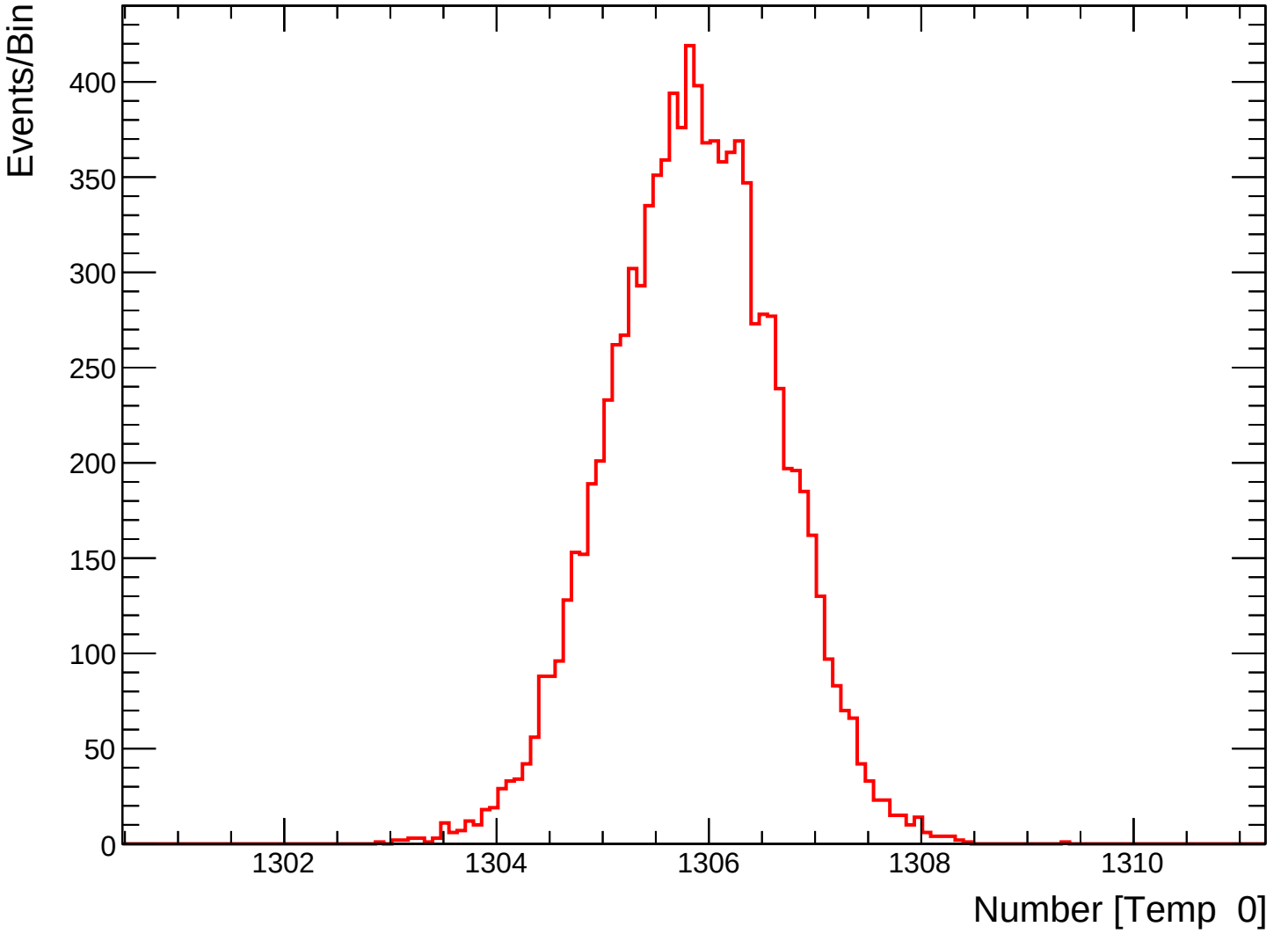

Time 18 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (949.7 ± 33.7)
e⁻+π⁻ (26.2 ± 14.4)
χ² 0.82
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

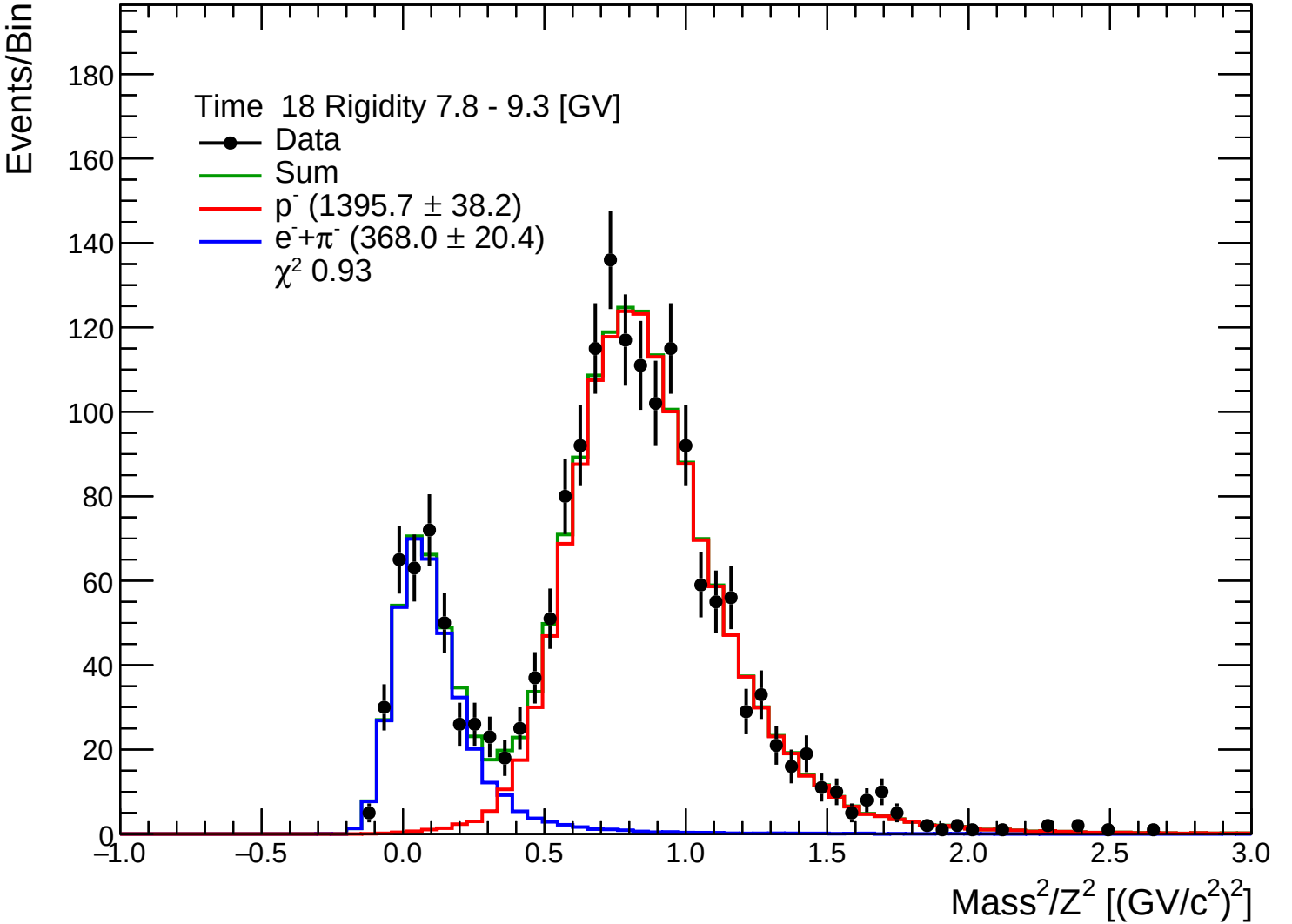

Events/Bin
400
350
300
250
200
150
100
50
0
930
935
940
945
950
955
960
965
970
Number [Temp 0]

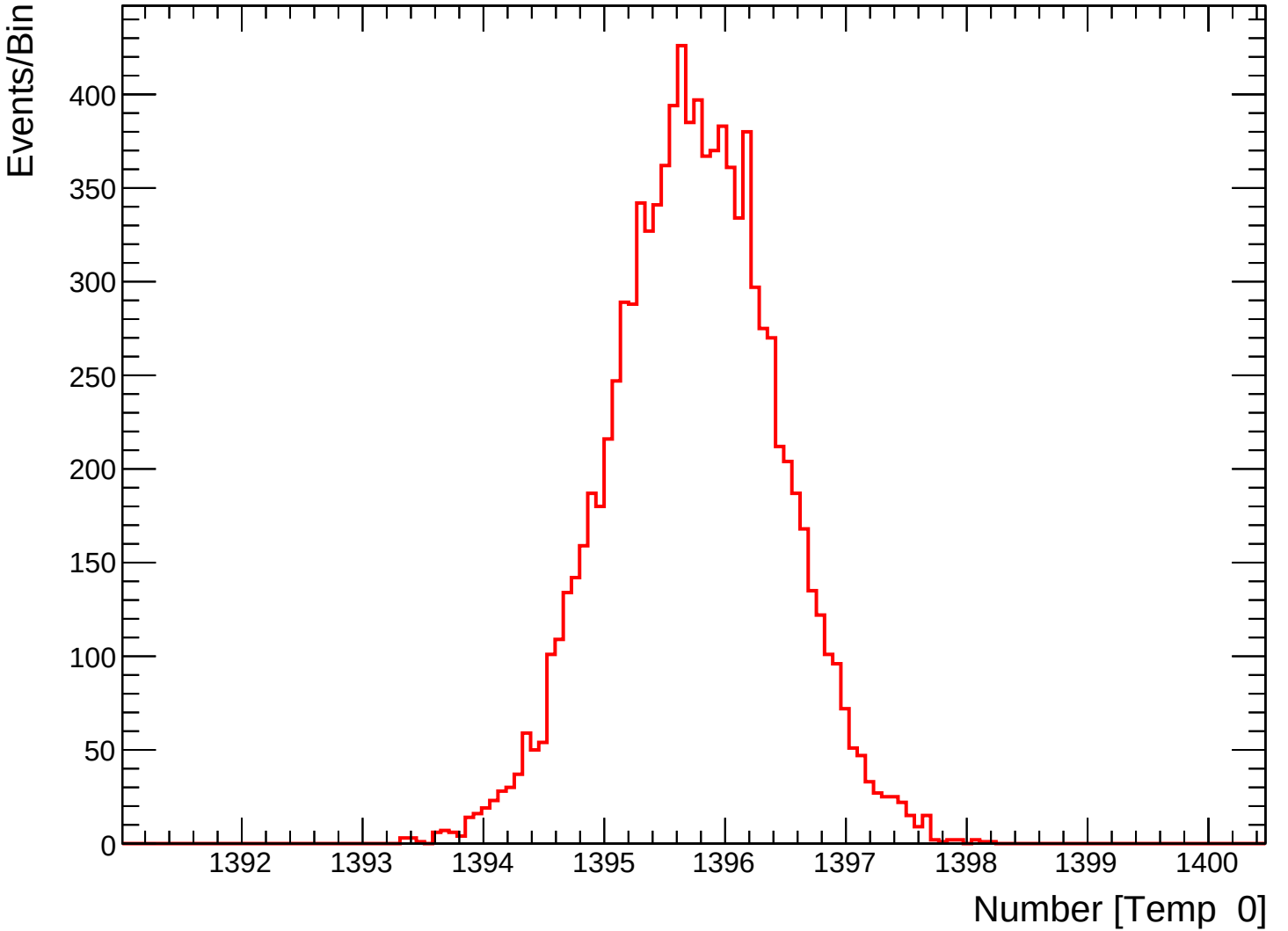

Time 18 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1255.4 ± 36.6)
e⁻+π⁻ (23.2 ± 9.9)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

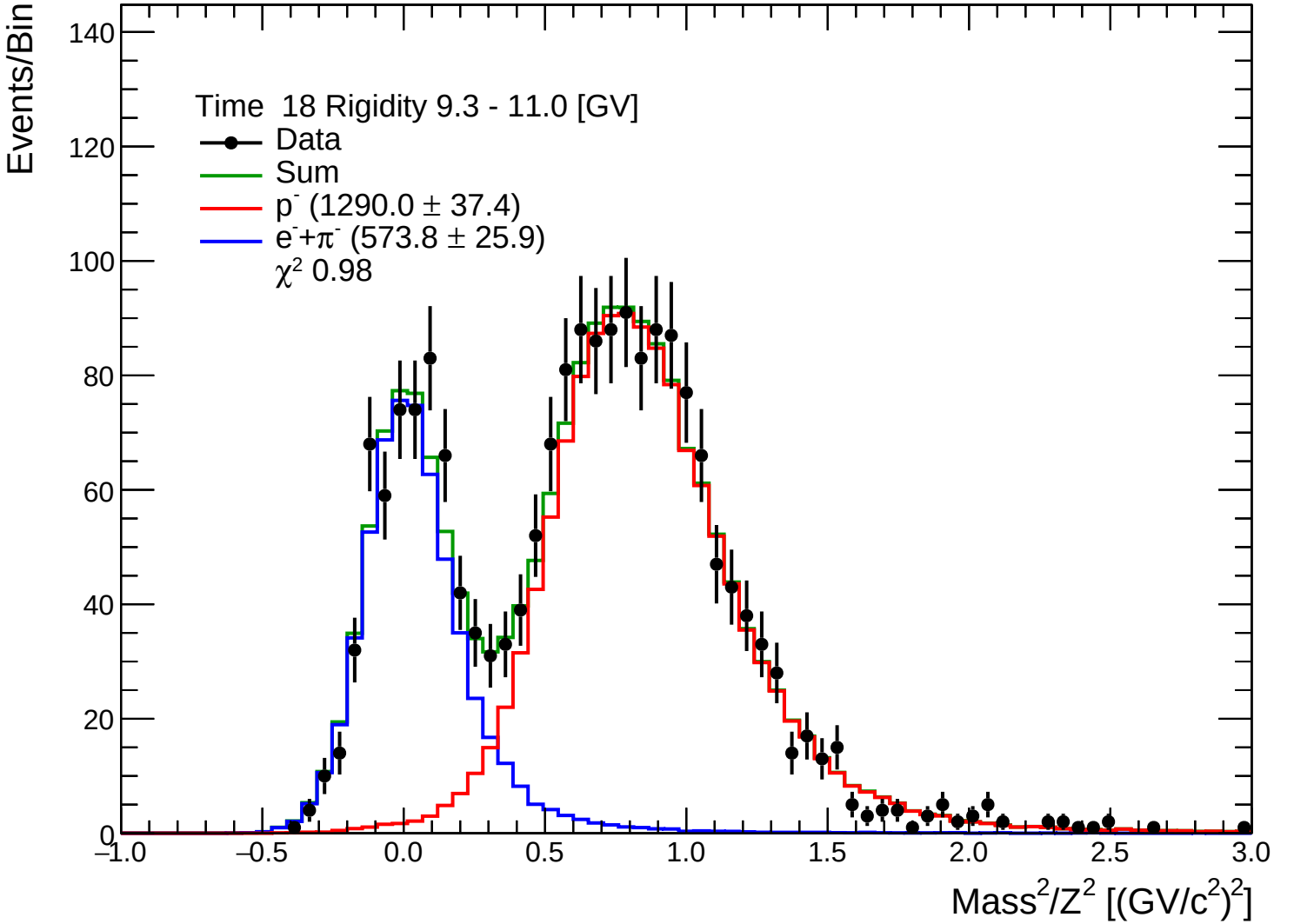

Events/Bin
400
350
300
250
200
150
100
50
0
1248
1250
1252
1254
1256
1258
1260
1262
1264
Number [Temp 0]

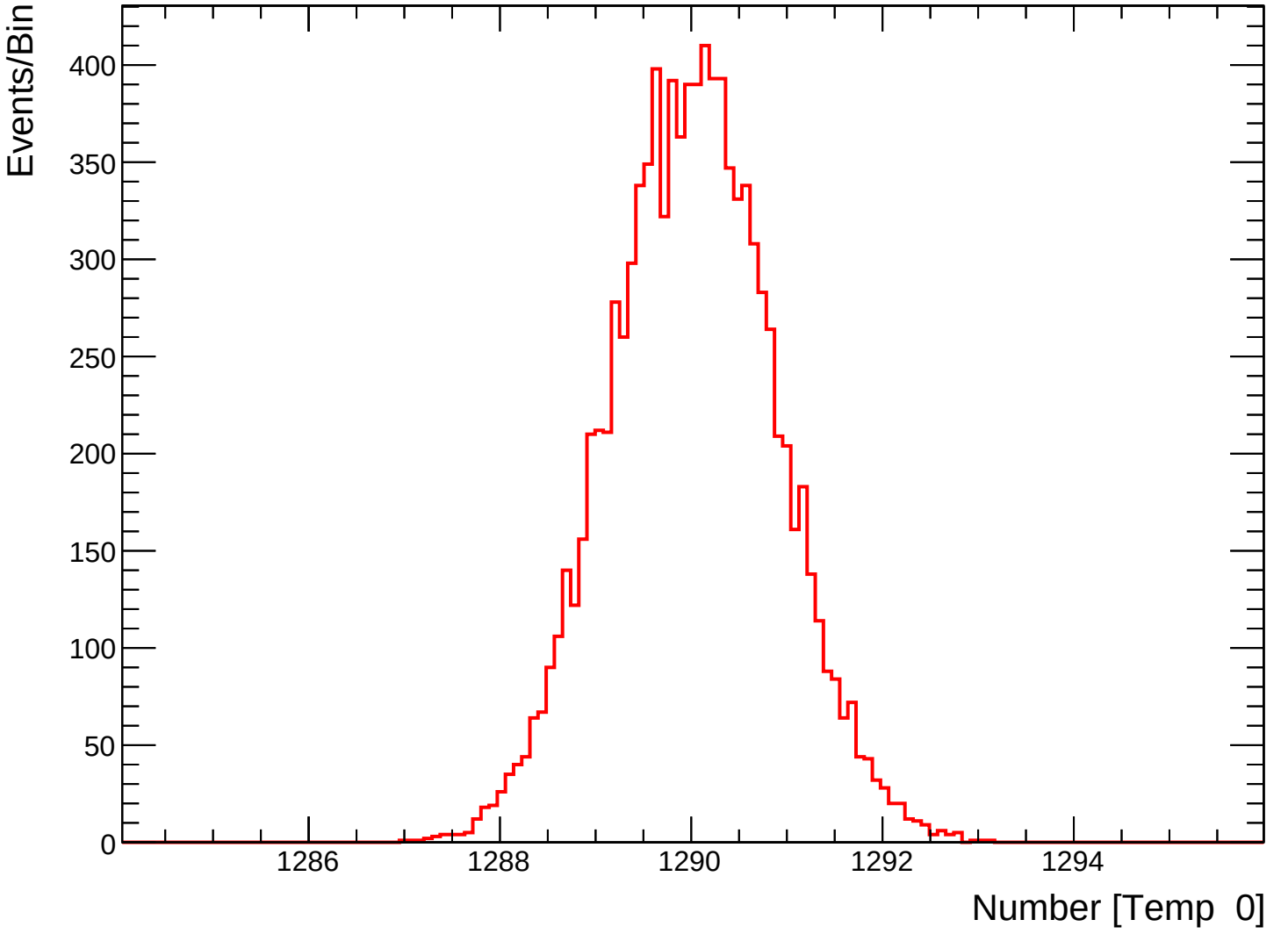

Time 18 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1305.8 ± 36.8)
e⁻+π⁻ (79.4 ± 10.7)
χ² 1.08
Events/Bin
Mass²/Z² [(GV/c²)²]
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

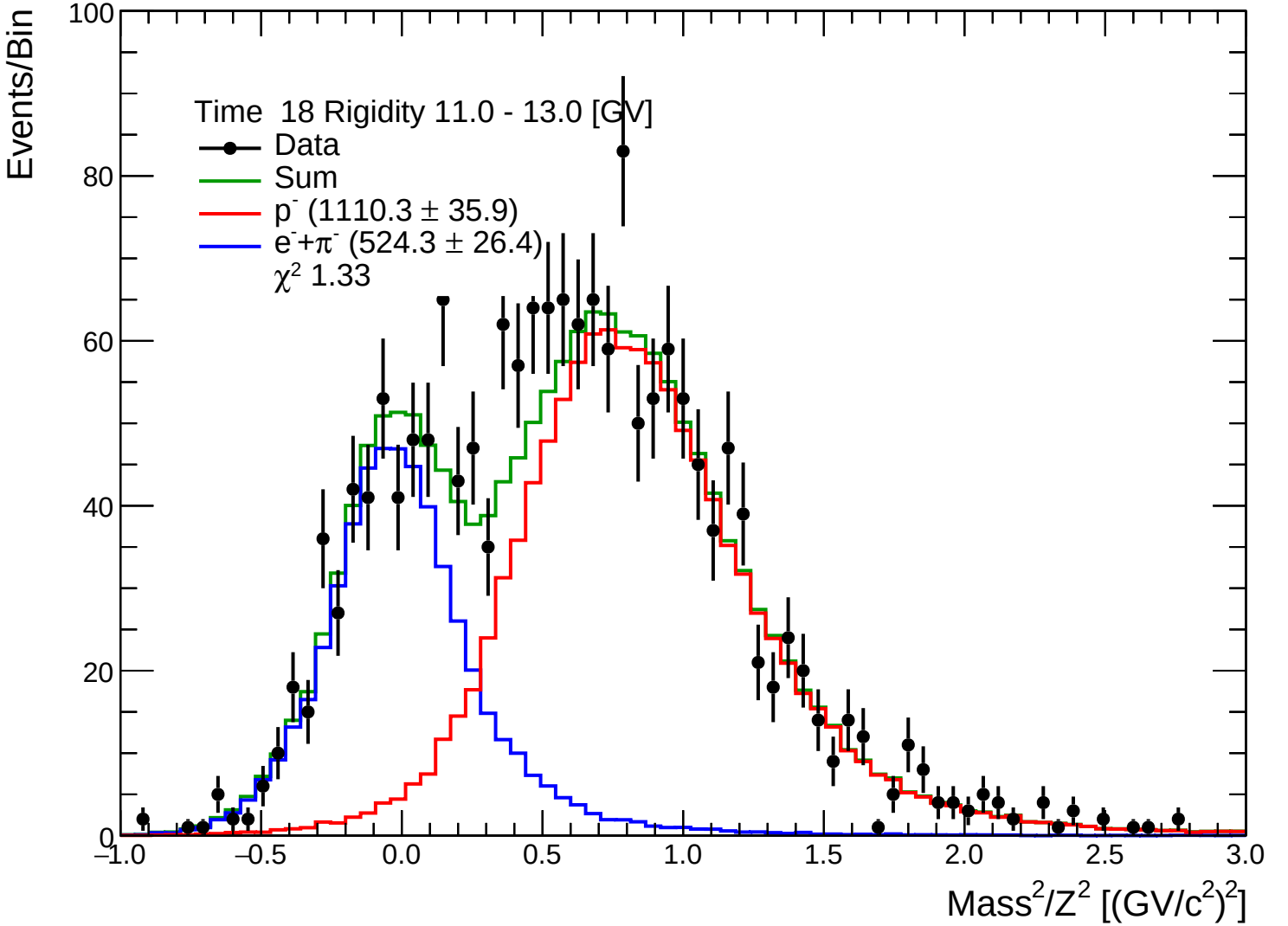

Events/Bin
400
350
300
250
200
150
100
50
0
1302
1304
1306
1308
1310
Number [Temp 0]

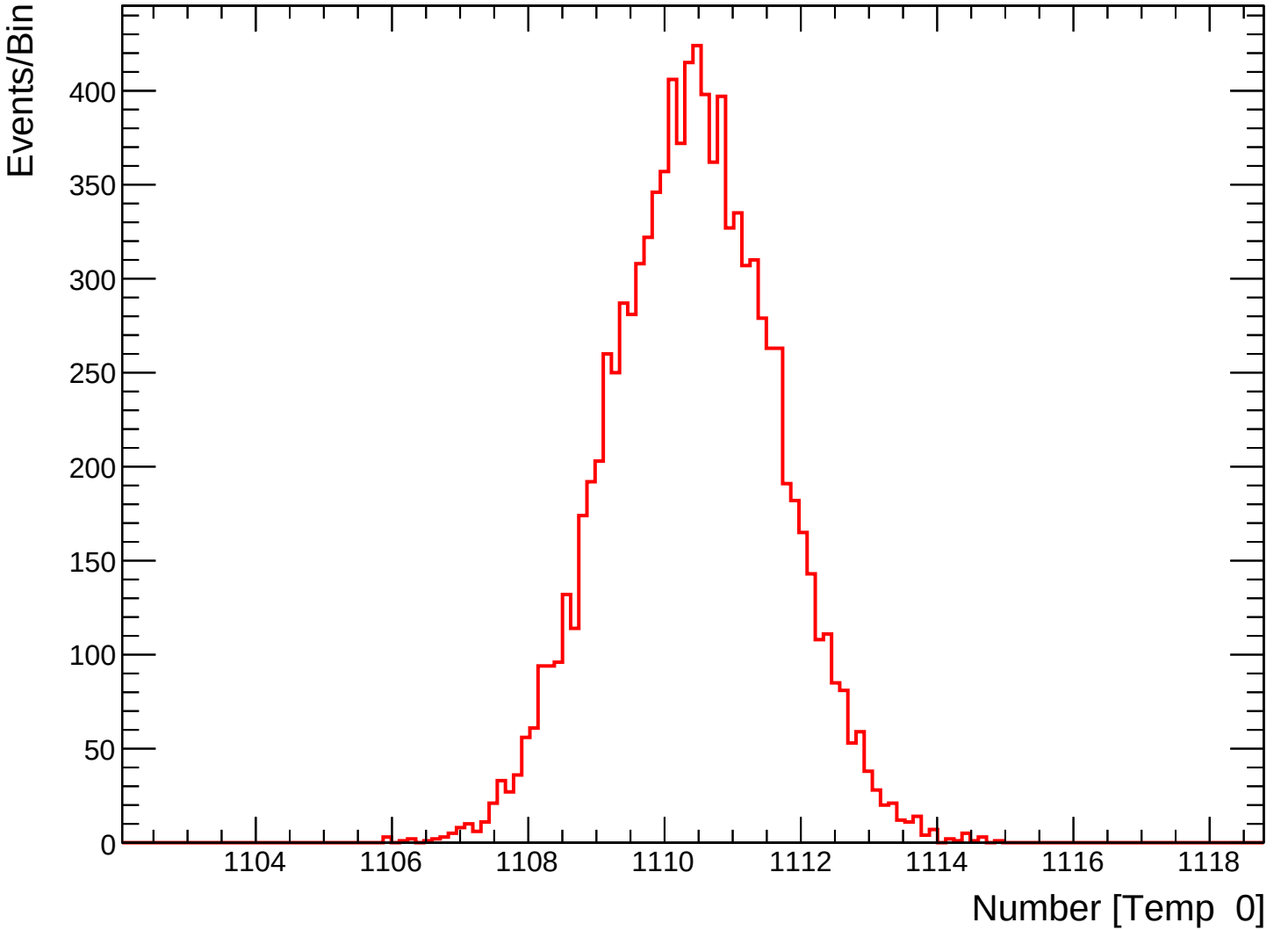

Time 18 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1395.7 ± 38.2)
e⁻+π⁻ (368.0 ± 20.4)
χ² 0.93
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

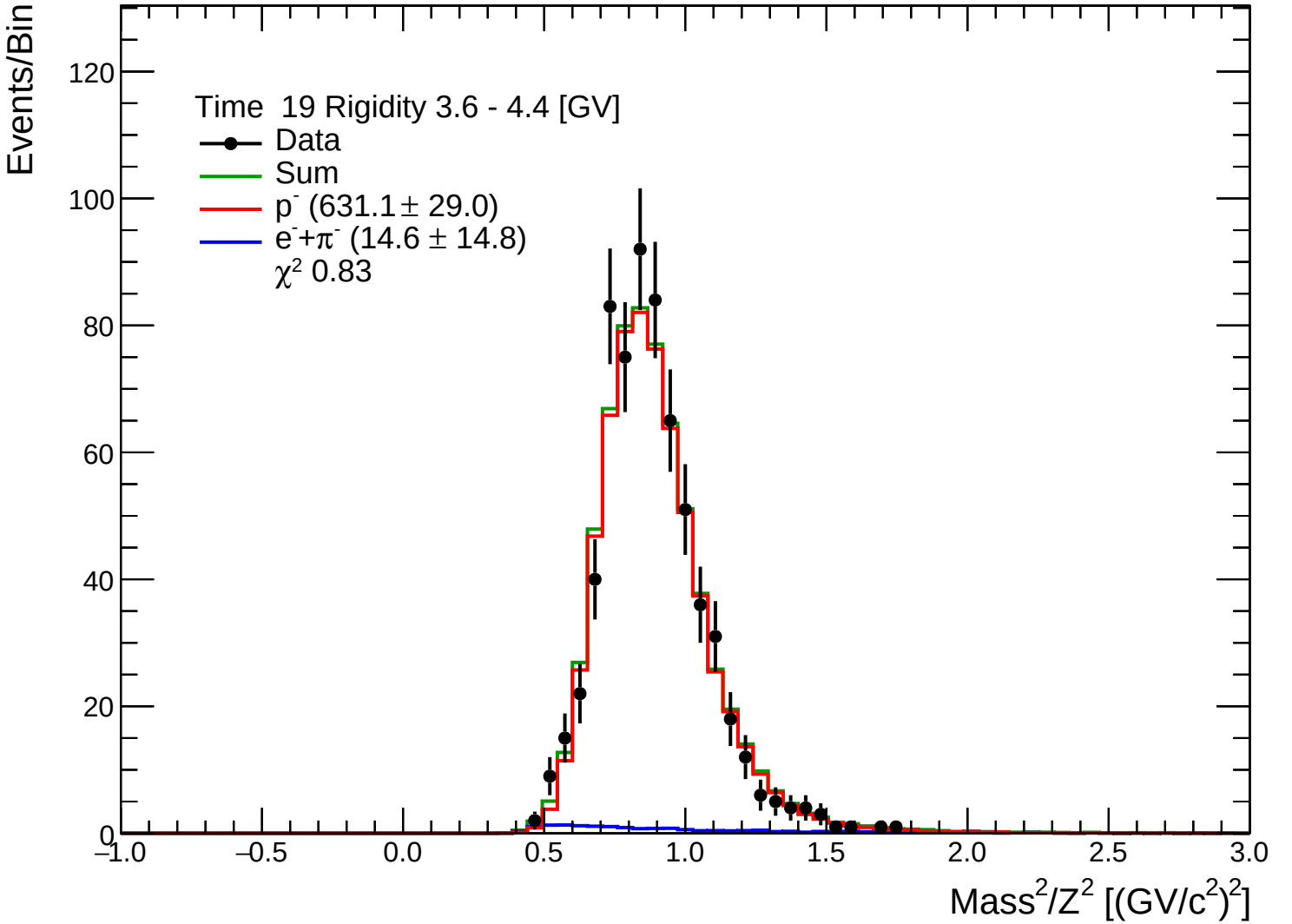

Events/Bin
400
350
300
250
200
150
100
50
0
1392
1393
1394
1395
1396
1397
1398
1399
1400
Number [Temp 0]

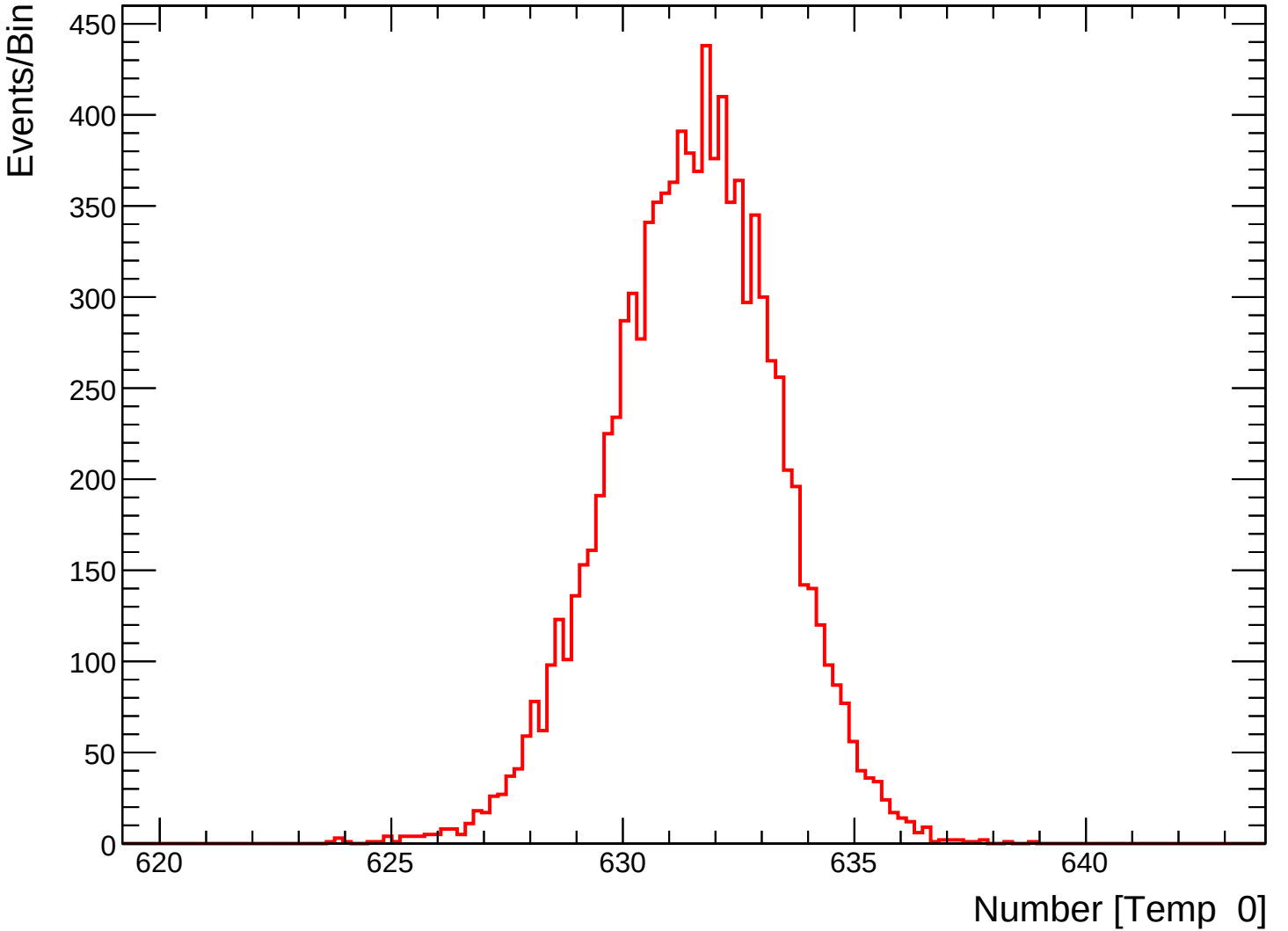

Time 18 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1290.0 ± 37.4)
e⁻+π⁻ (573.8 ± 25.9)
χ² 0.98
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

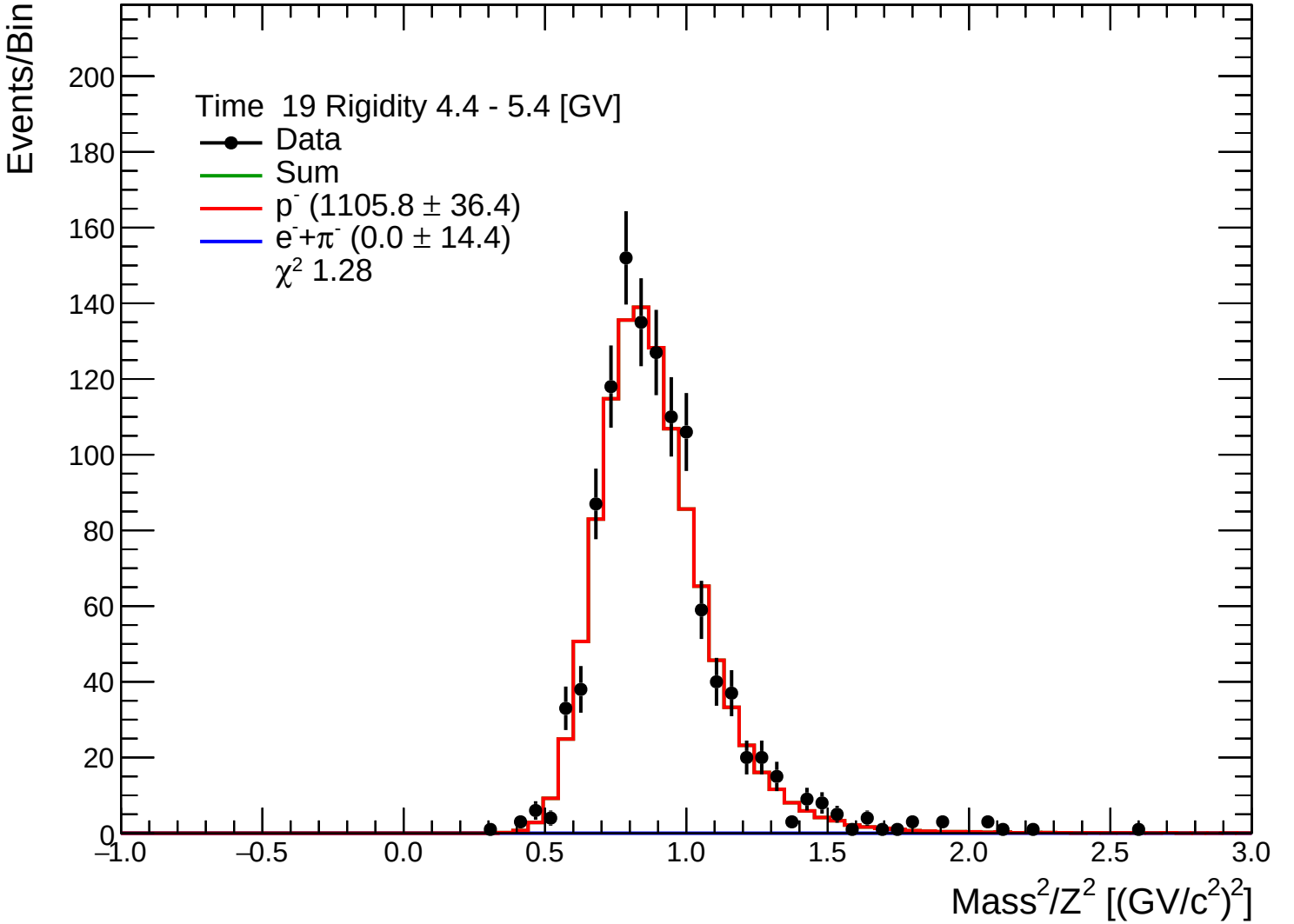

Events/Bin
400
350
300
250
200
150
100
50
0
1286
1288
1290
1292
1294
Number [Temp 0]

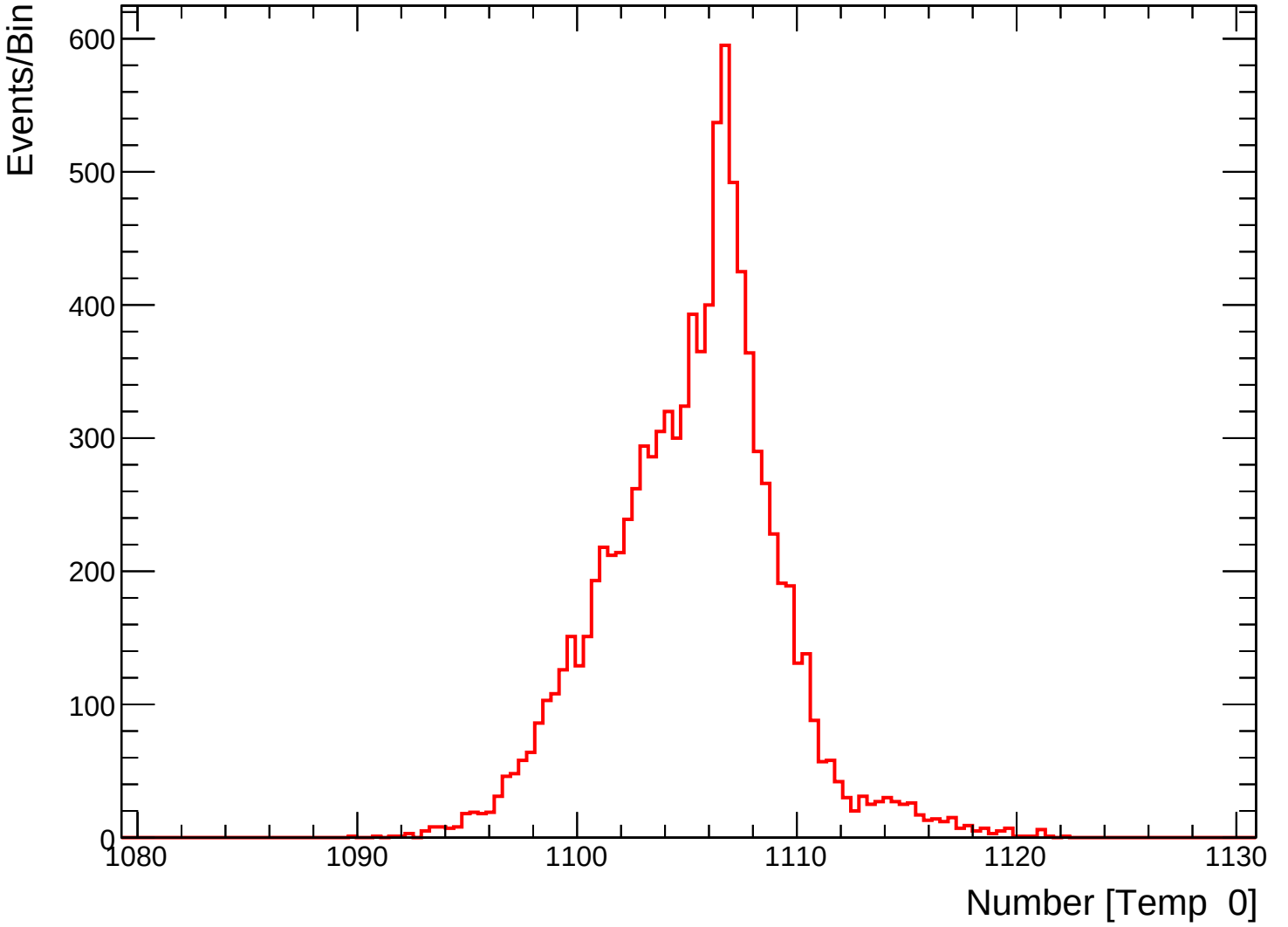

Time 18 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1110.3 ± 35.9)
e⁻+π⁻ (524.3 ± 26.4)
χ² 1.33
Events/Bin
Mass²/Z² [(GV/c²)²]
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

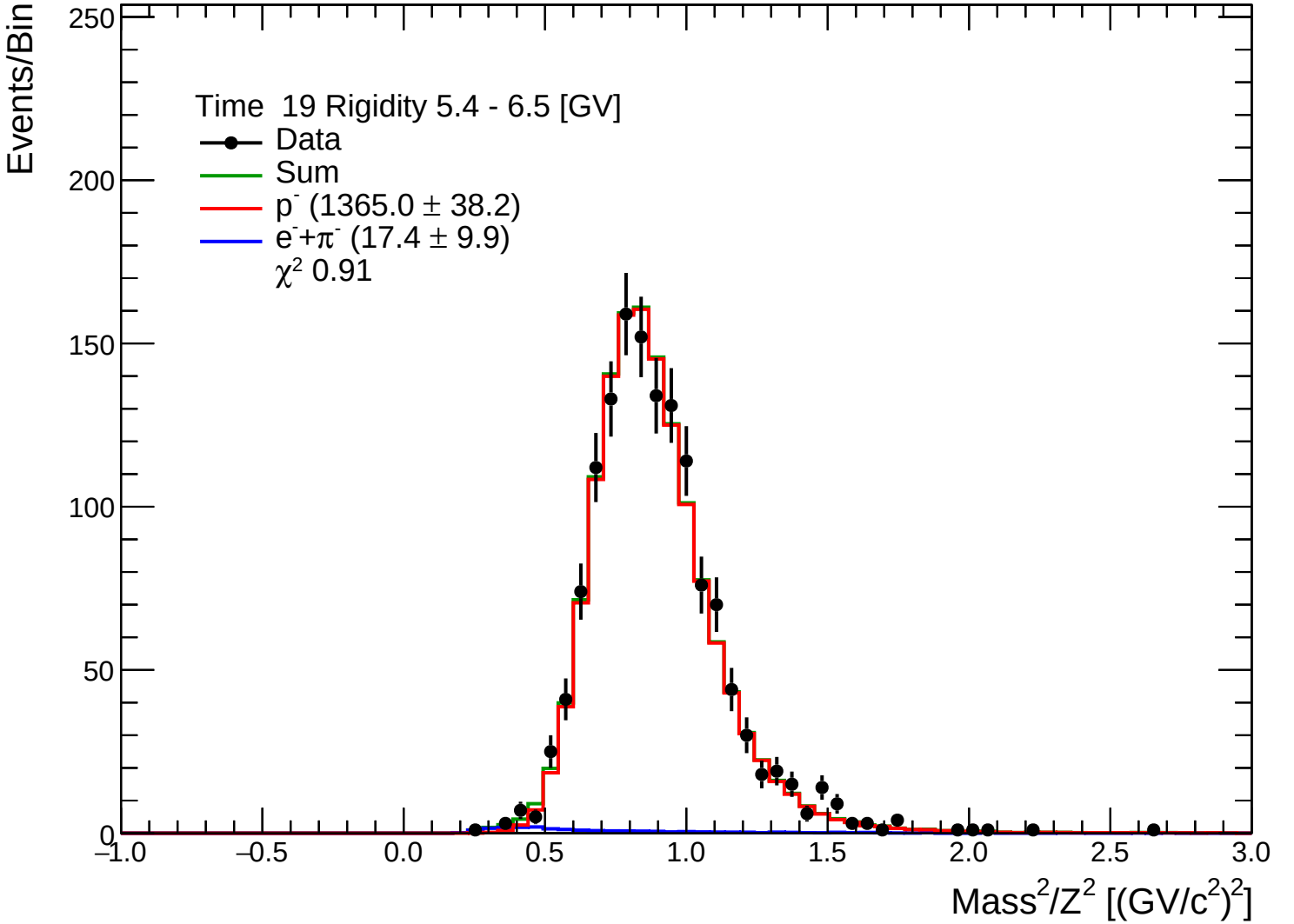

Events/Bin
400
350
300
250
200
150
100
50
0
1104
1106
1108
1110
1112
1114
1116
1118
Number [Temp 0]

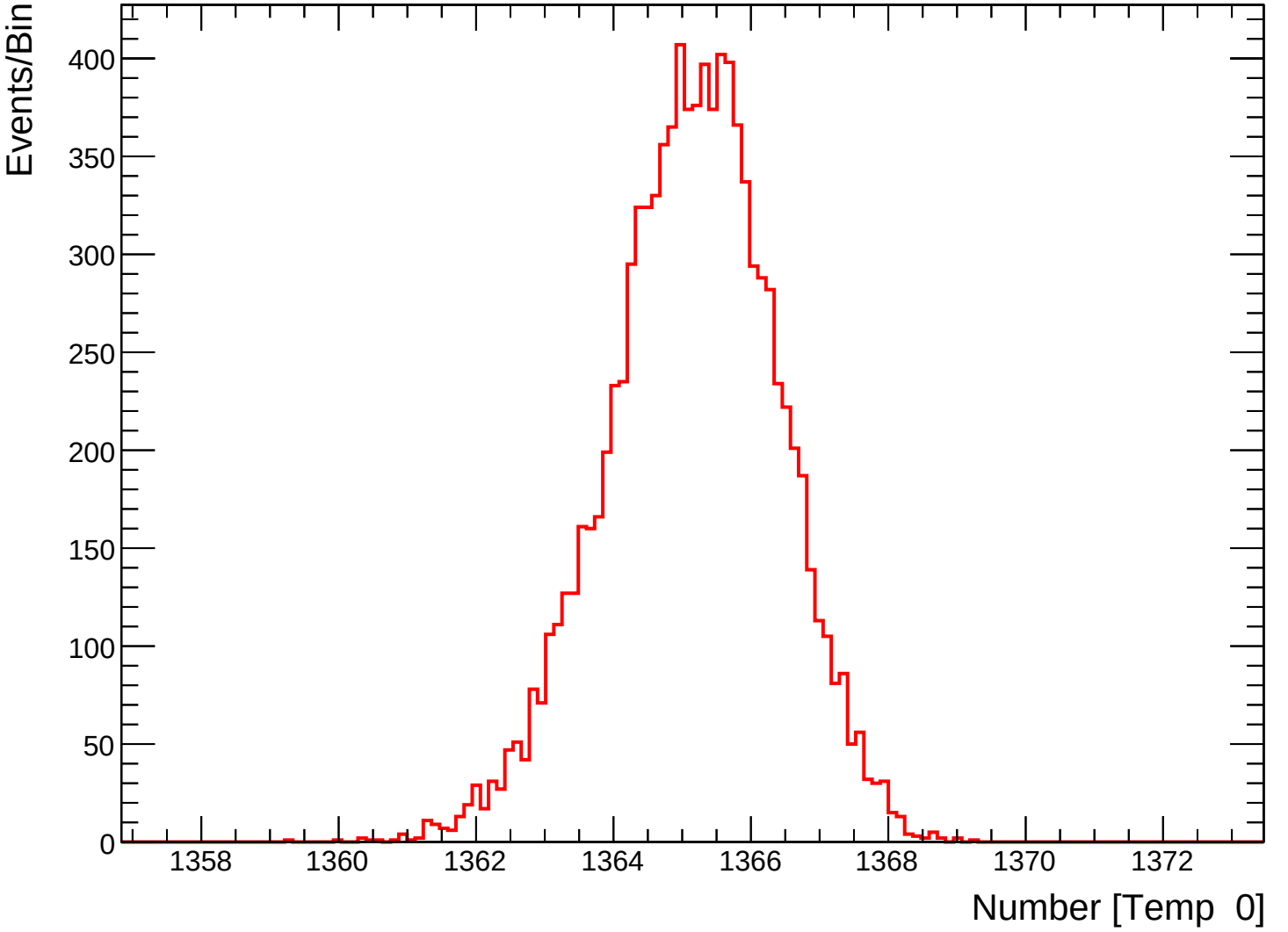

Time 19 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (631.1 ± 29.0)
e⁻+π⁻ (14.6 ± 14.8)
χ² 0.83
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

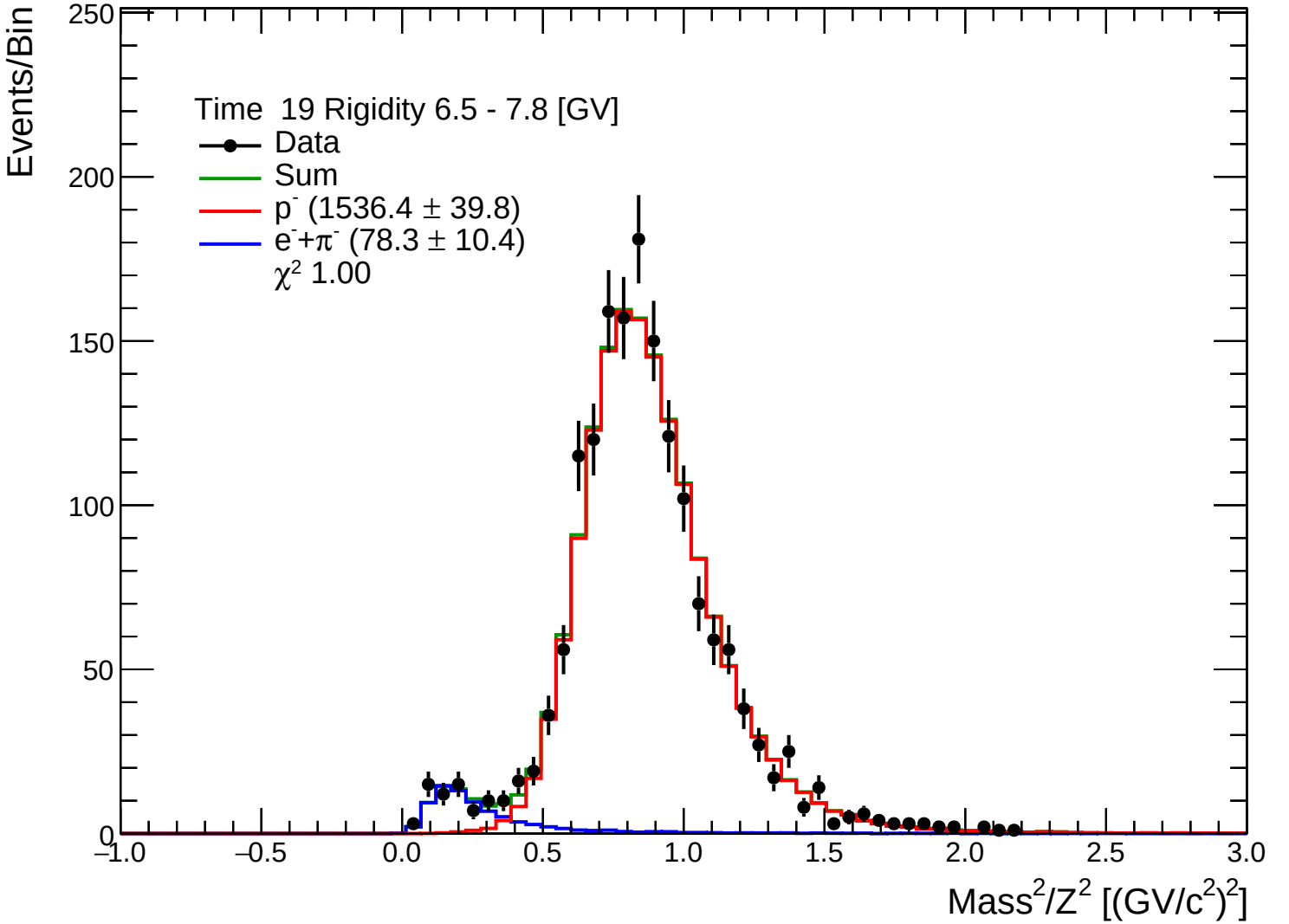

Events/Bin
450
400
350
300
250
200
150
100
50
0
620
625
630
635
640
Number [Temp 0]

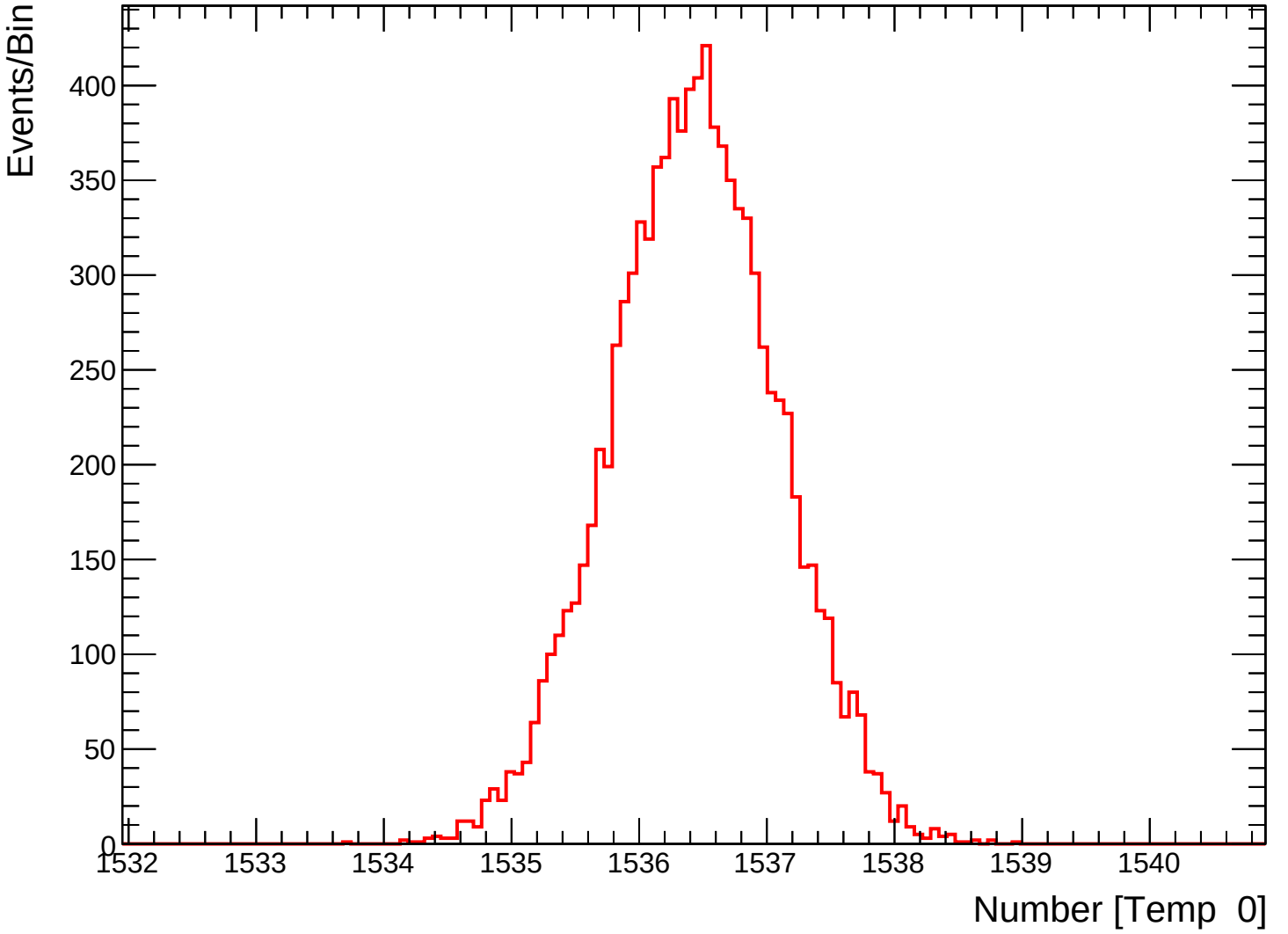

Time 19 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1105.8 ± 36.4)
e⁻+π⁻ (0.0 ± 14.4)
χ² 1.28
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

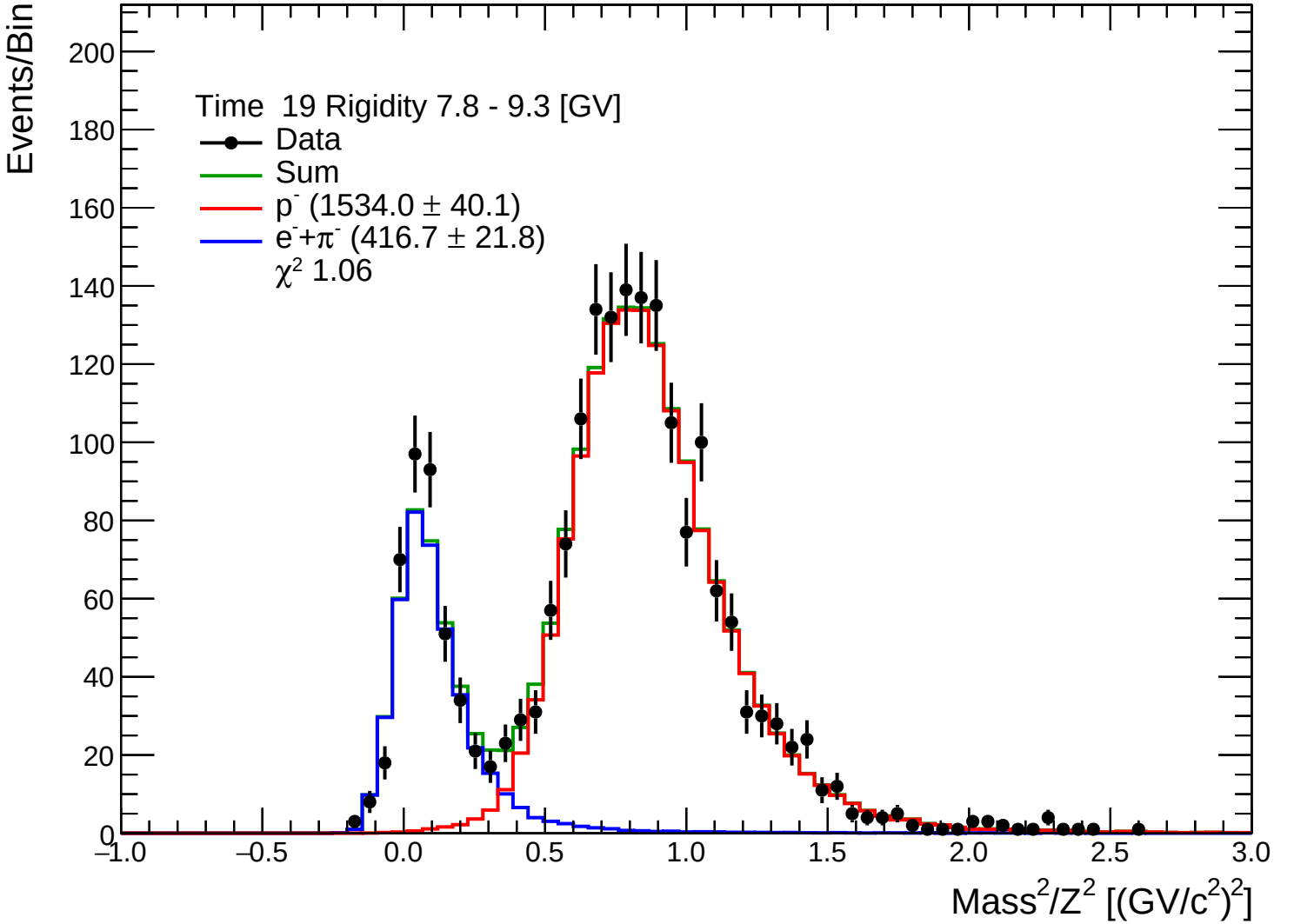

Events/Bin
600
500
400
300
200
100
0
1080
1090
1100
1110
1120
1130
Number [Temp 0]

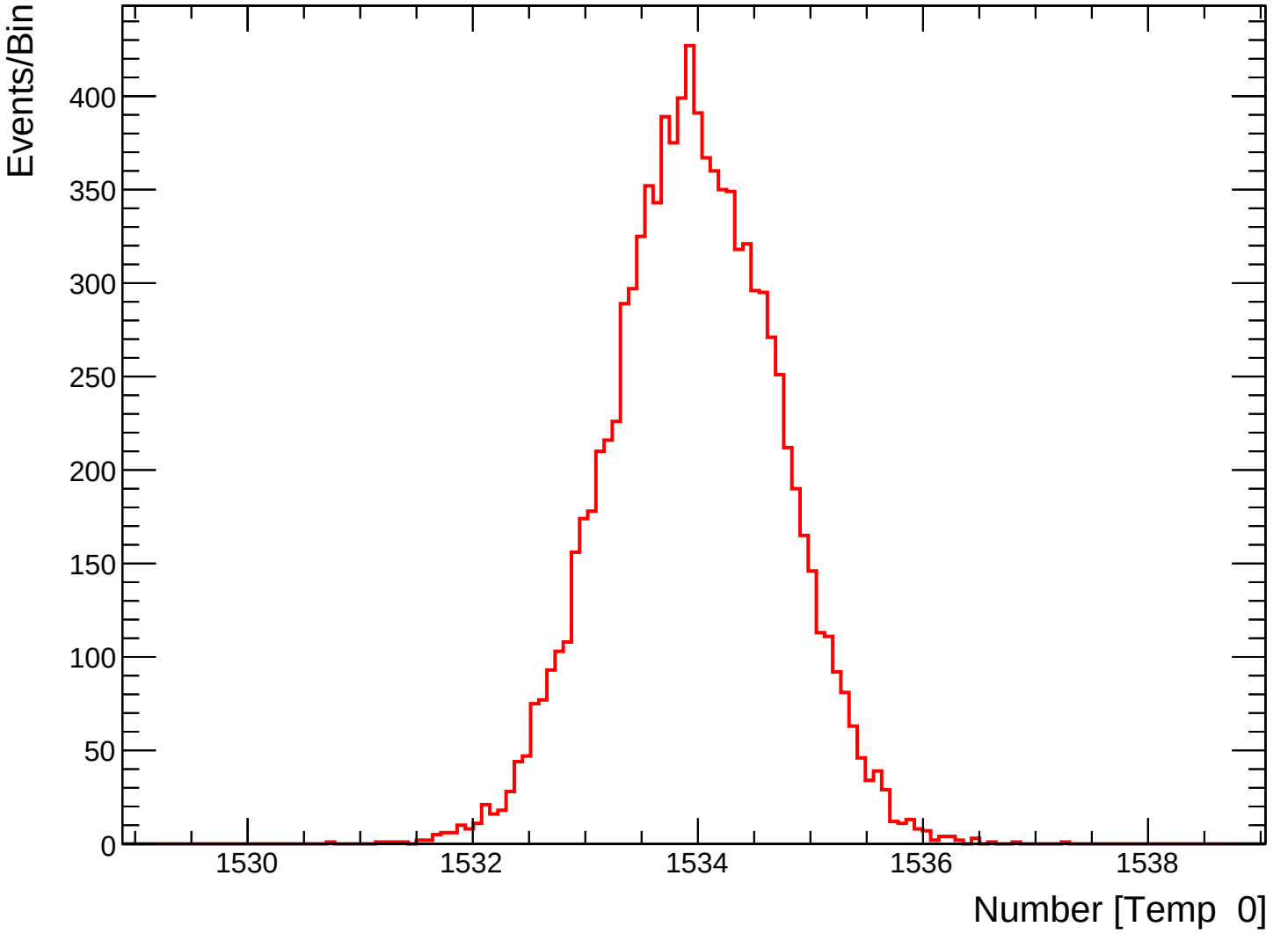

Time 19 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1365.0 ± 38.2)
e⁻+π⁻ (17.4 ± 9.9)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

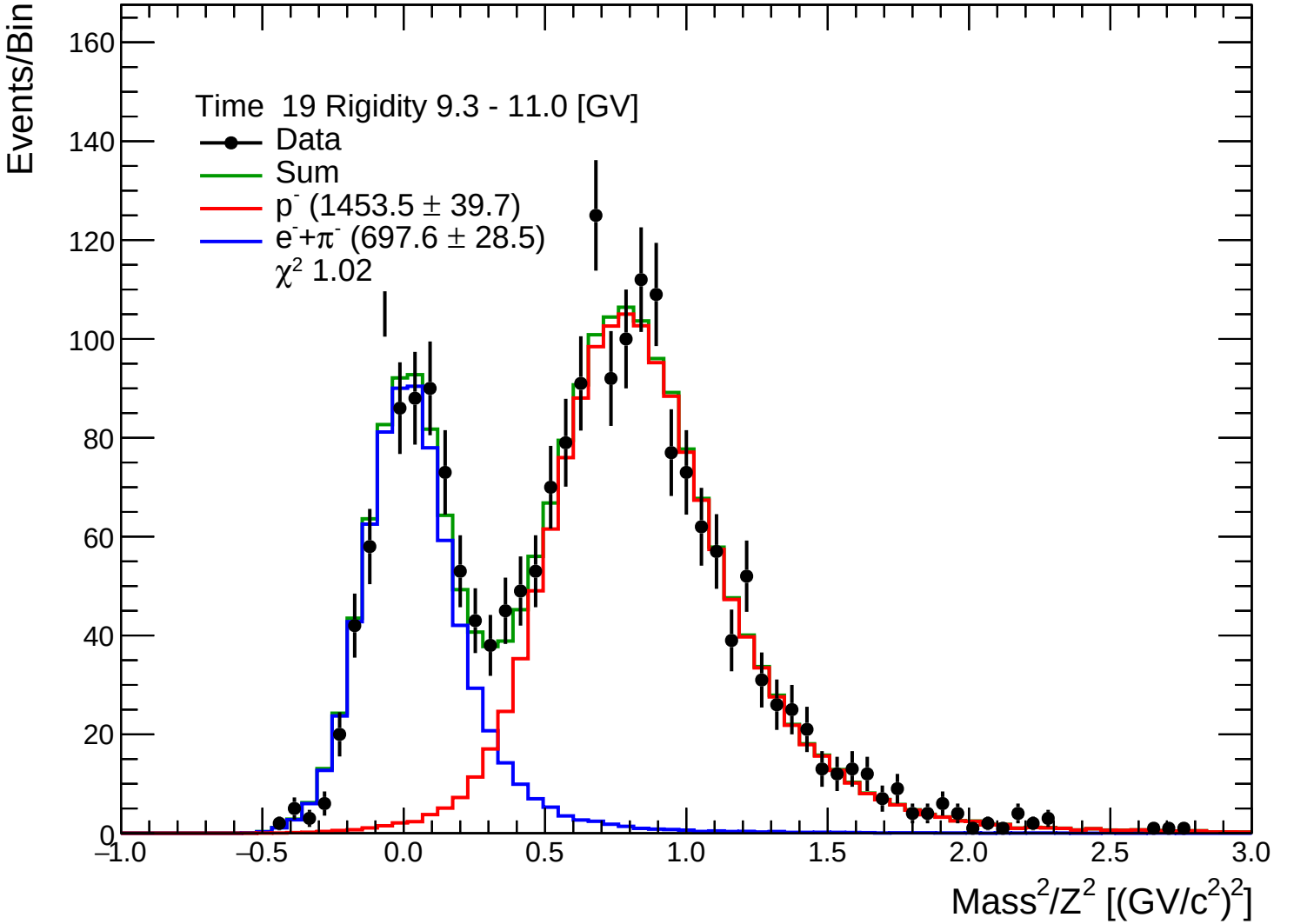

Events/Bin
400
350
300
250
200
150
100
50
0
1358
1360
1362
1364
1366
1368
1370
1372
Number [Temp 0]

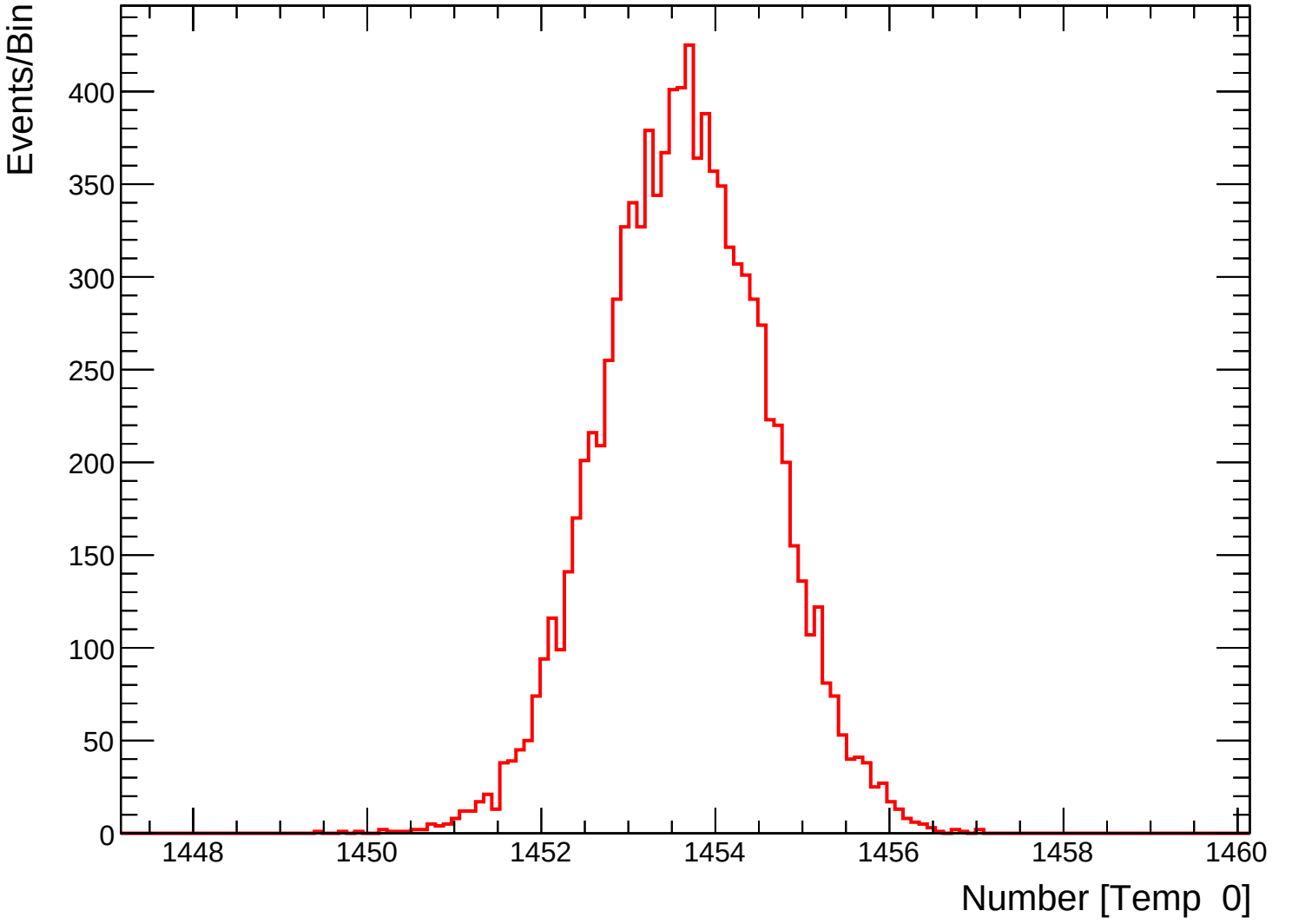

Time 19 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1536.4 ± 39.8)
e⁻+π⁻ (78.3 ± 10.4)
χ² 1.00
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

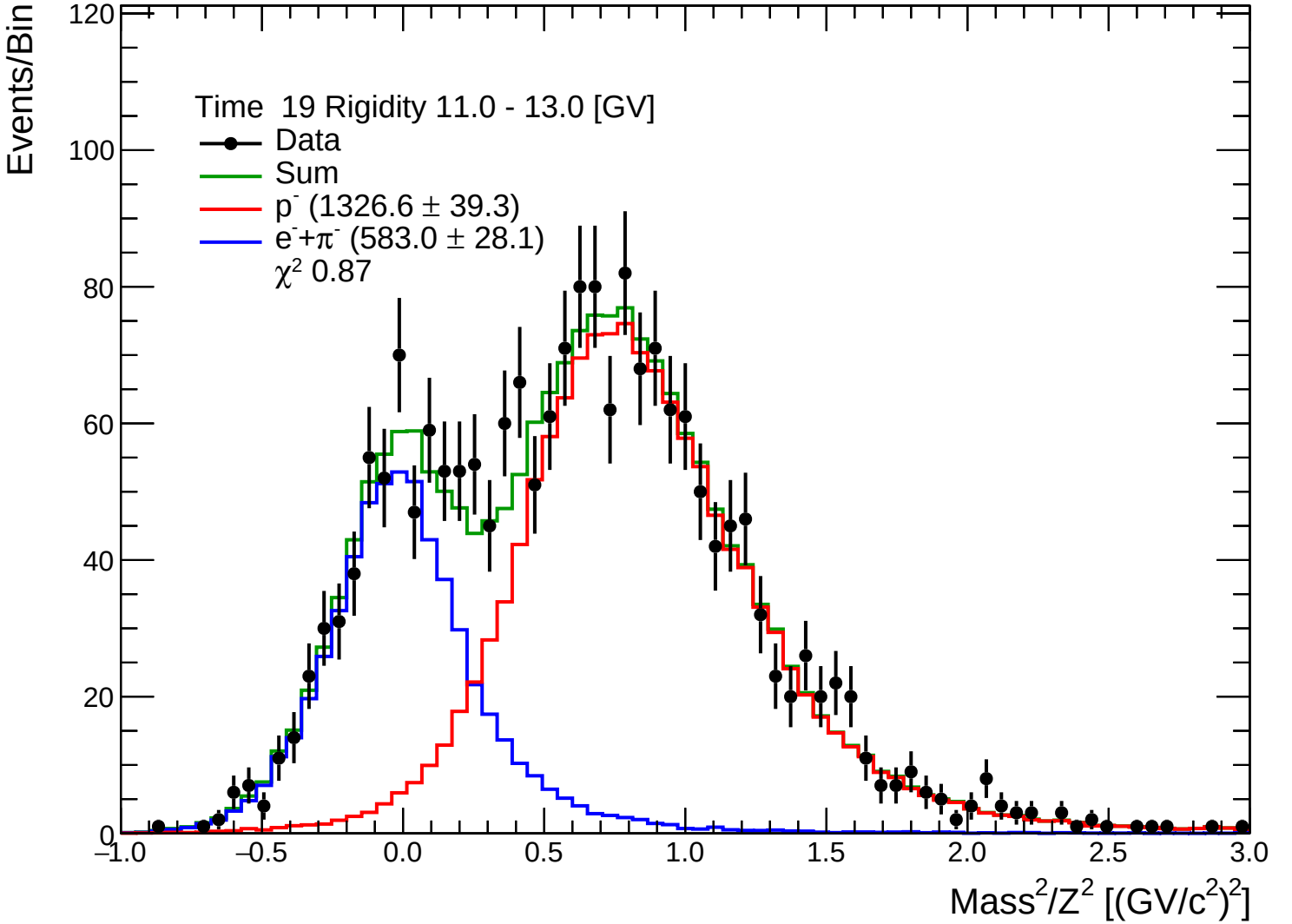

Events/Bin
400
350
300
250
200
150
100
50
0
1532
1533
1534
1535
1536
1537
1538
1539
1540
Number [Temp 0]

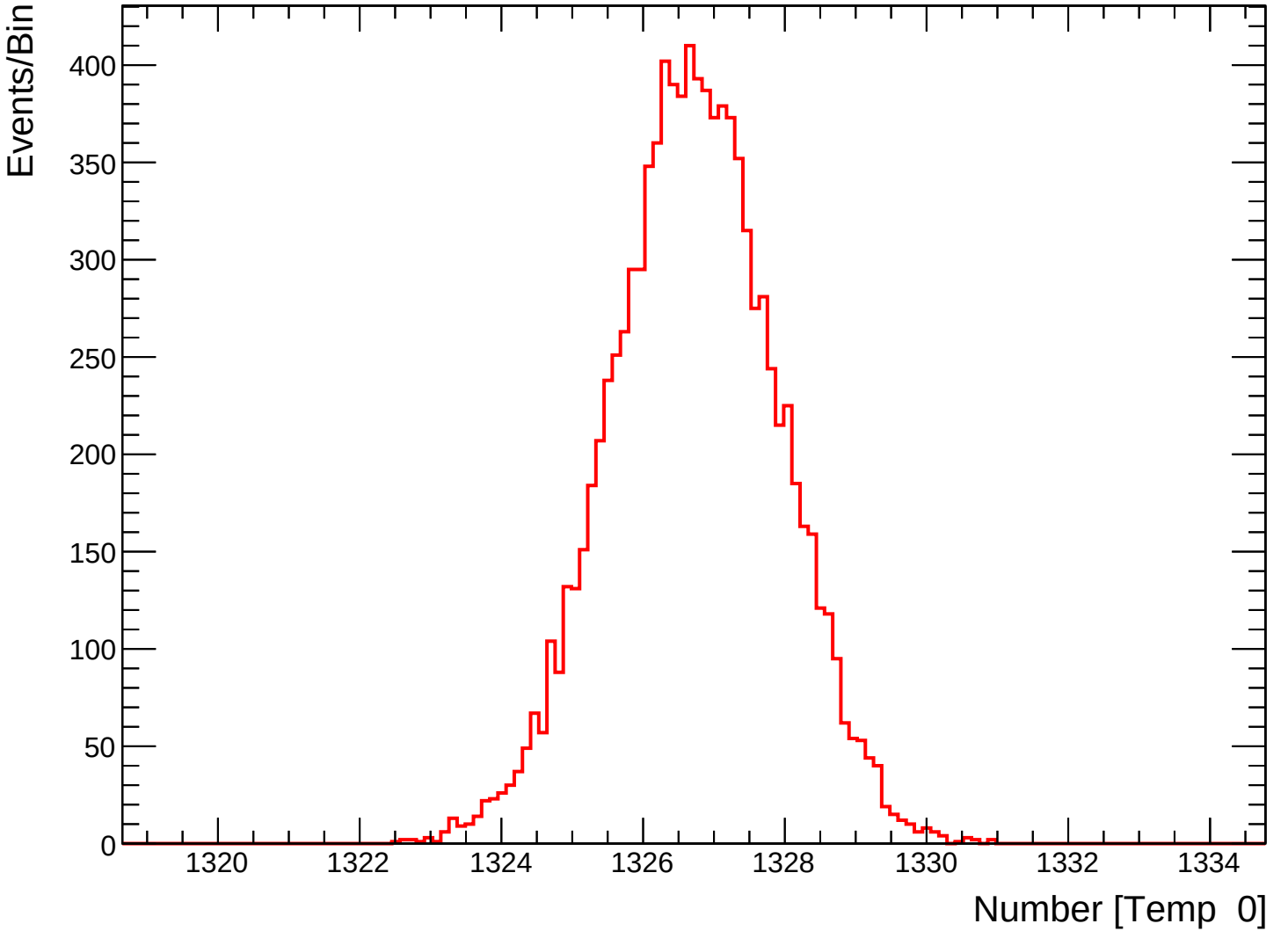

Time 19 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1534.0 ± 40.1)
e⁻+π⁻ (416.7 ± 21.8)
χ² 1.06
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

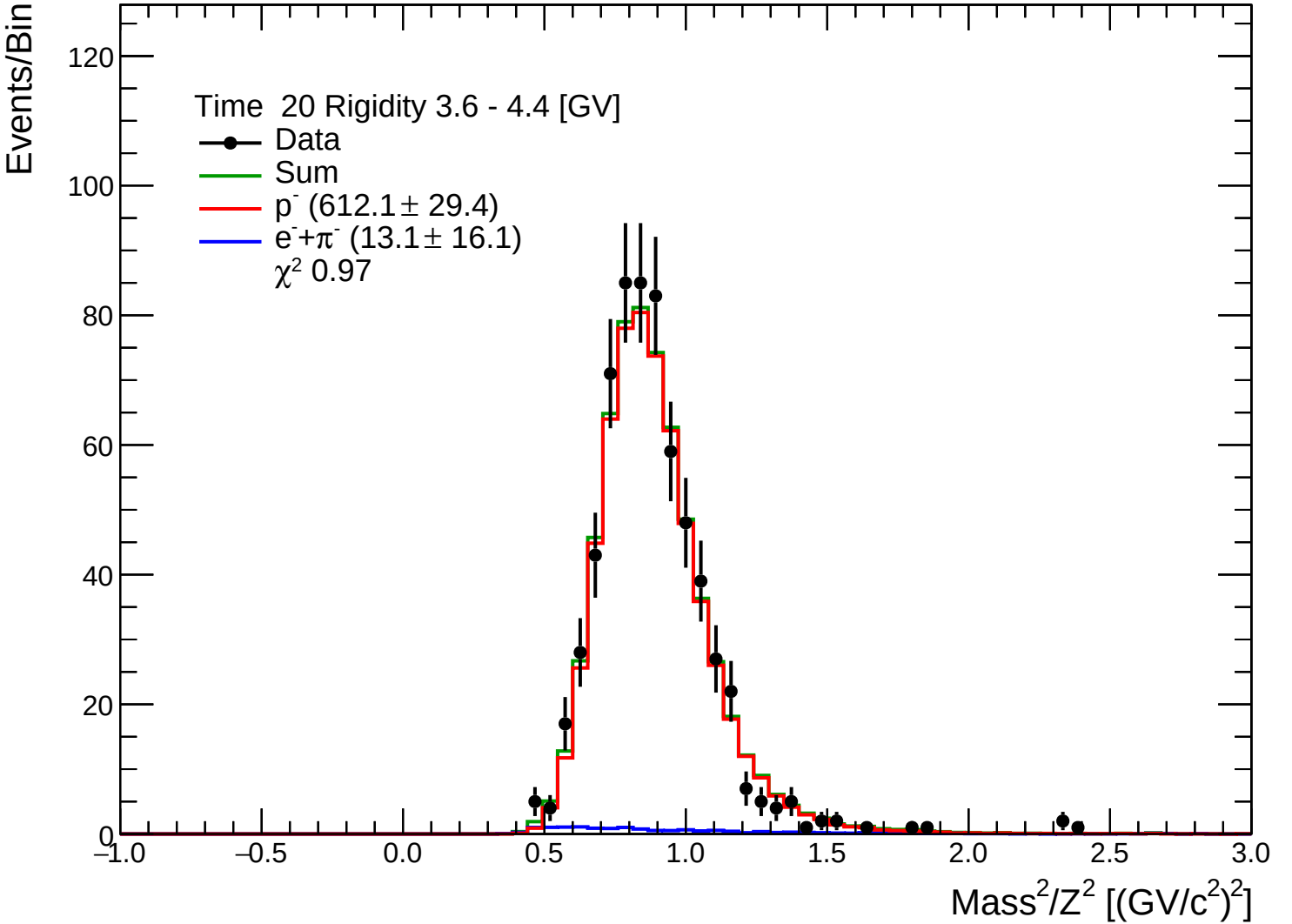

Events/Bin
400
350
300
250
200
150
100
50
0
1530
1532
1534
1536
1538
Number [Temp 0]

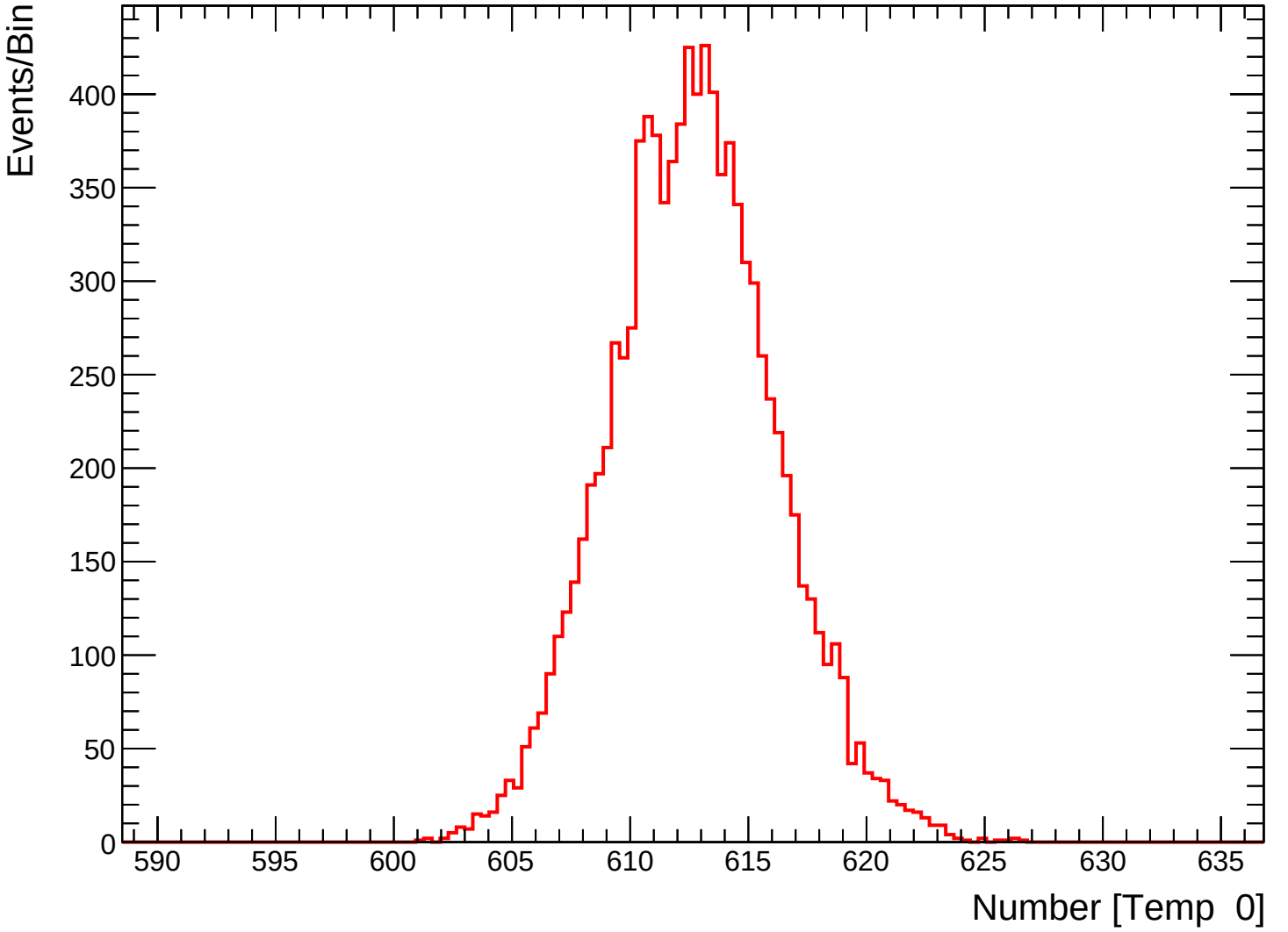

Time 19 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1453.5 ± 39.7)
e⁻+π⁻ (697.6 ± 28.5)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

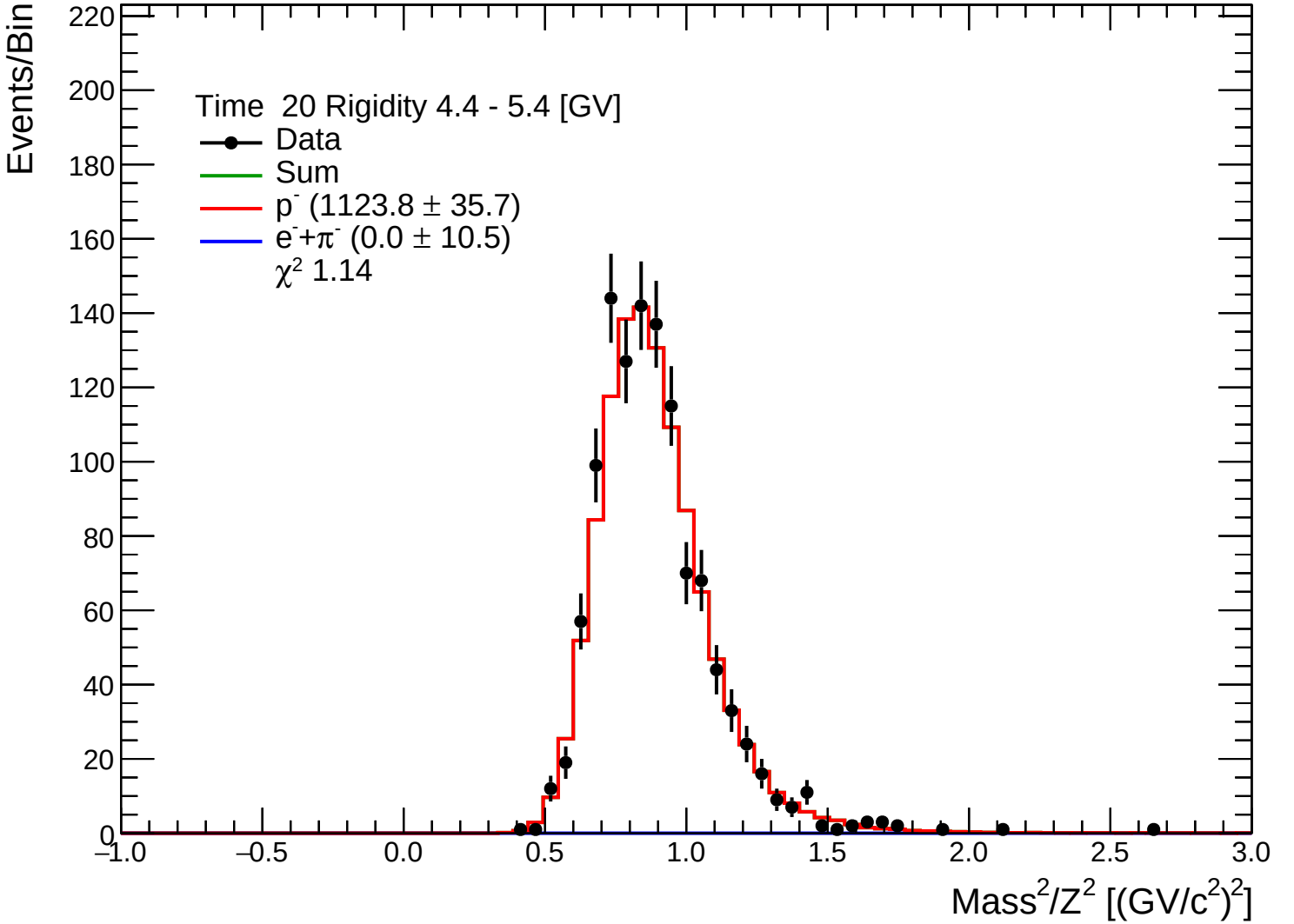

Events/Bin
400
350
300
250
200
150
100
50
0
1448
1450
1452
1454
1456
1458
1460
Number [Temp 0]

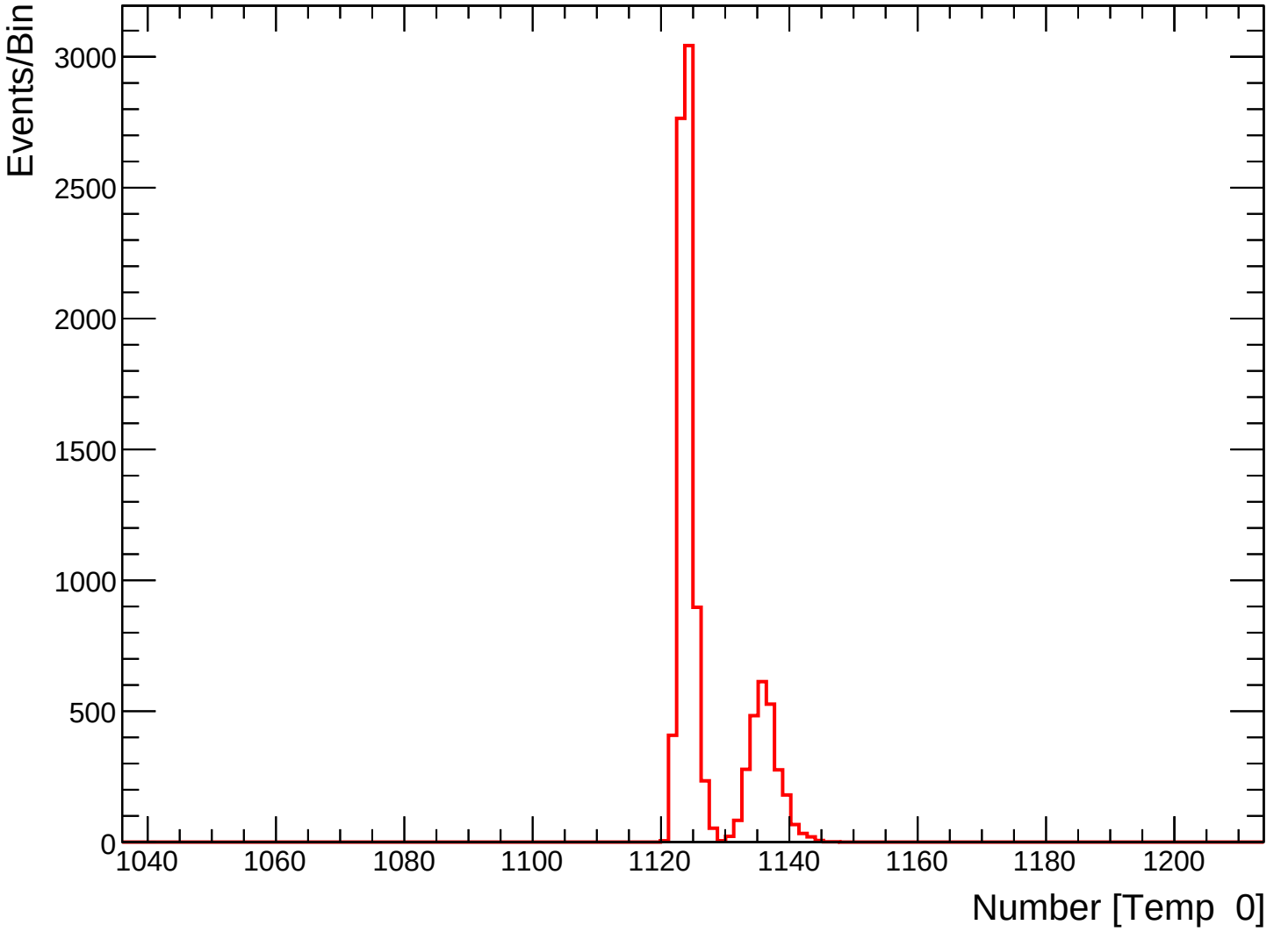

Time 19 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1326.6 ± 39.3)
e⁻+π⁻ (583.0 ± 28.1)
χ² 0.87
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

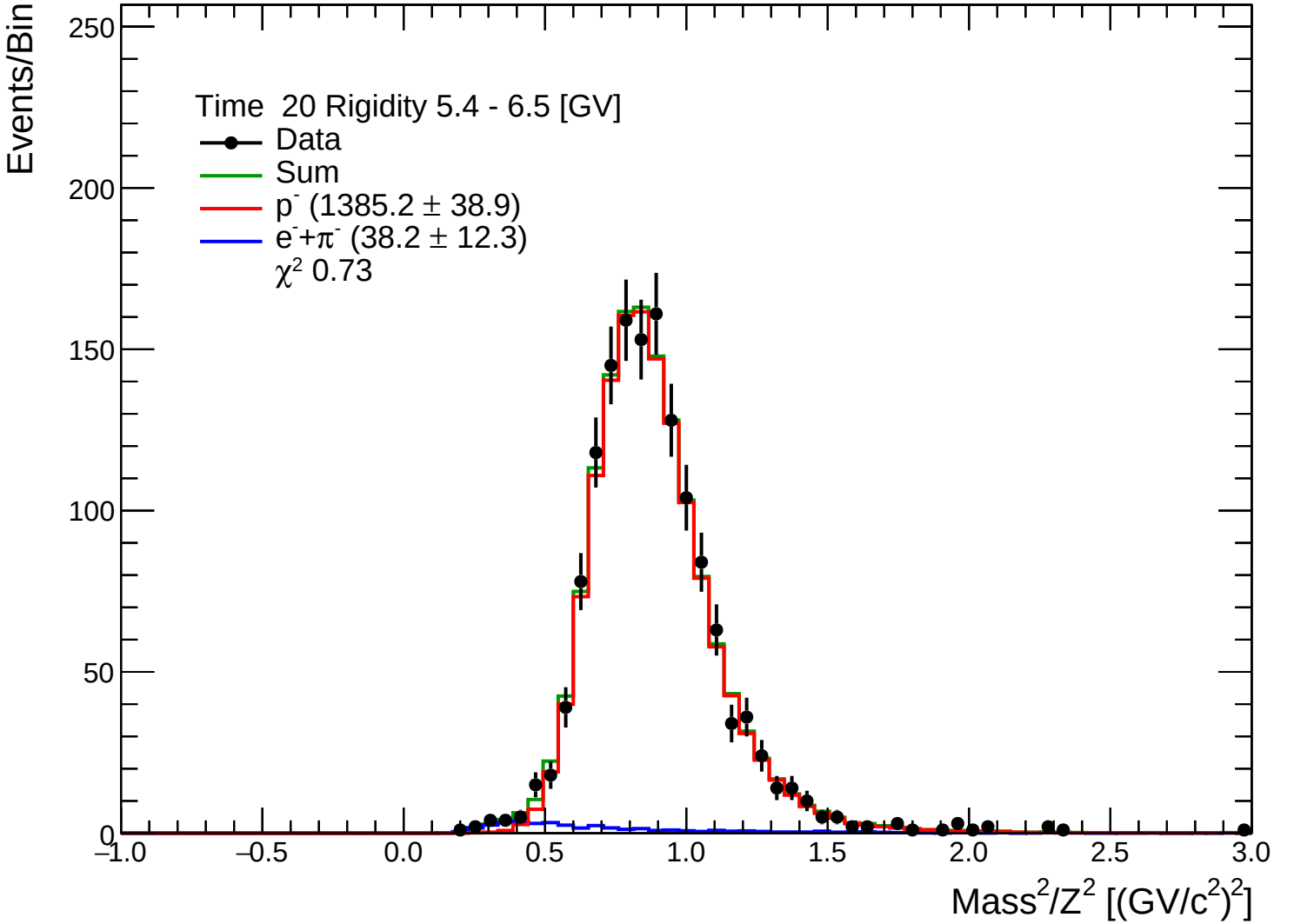

Events/Bin
400
350
300
250
200
150
100
50
0
1320
1322
1324
1326
1328
1330
1332
1334
Number [Temp 0]

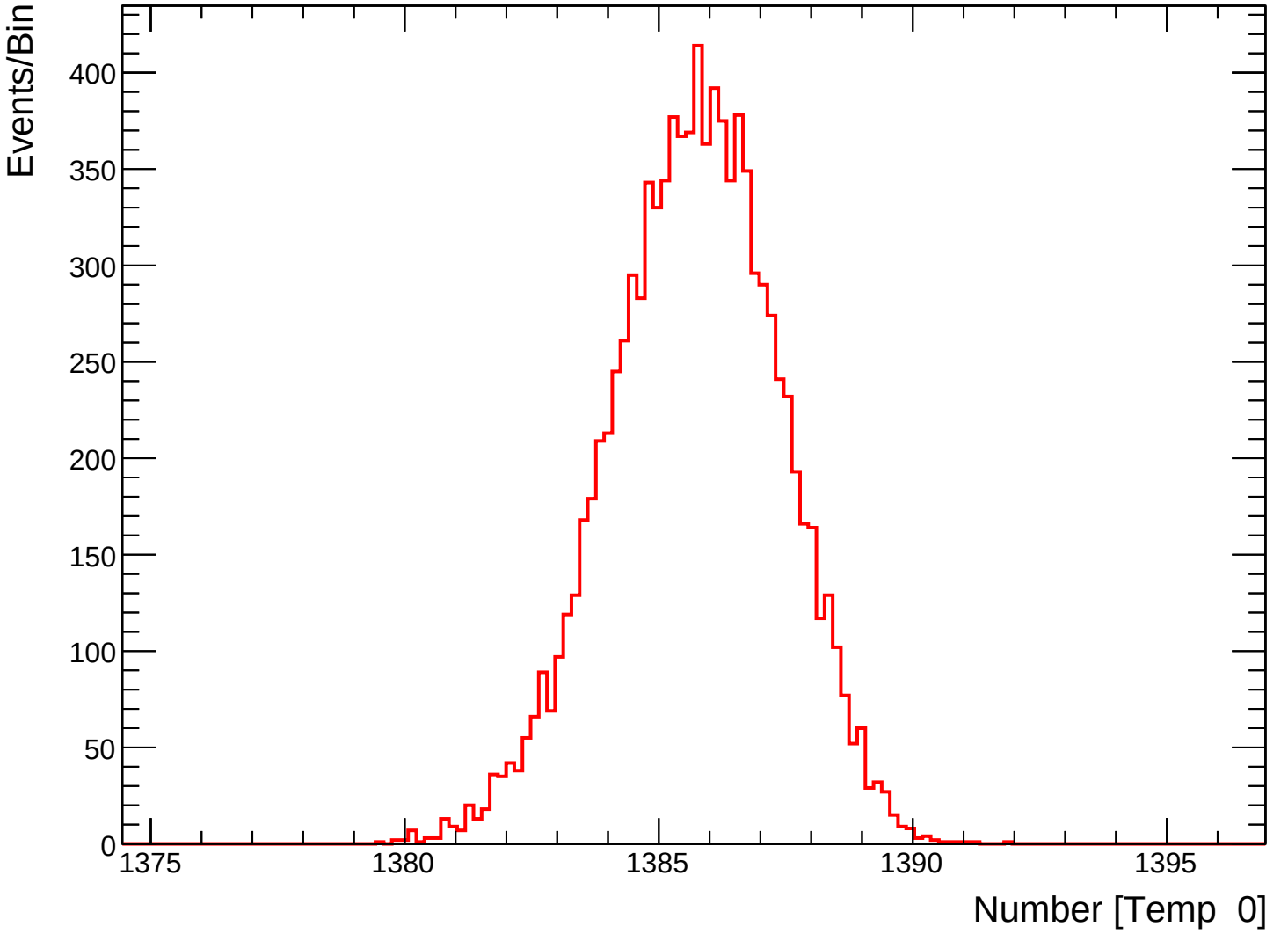

Time 20 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (612.1 ± 29.4)
e⁻+π⁻ (13.1 ± 16.1)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

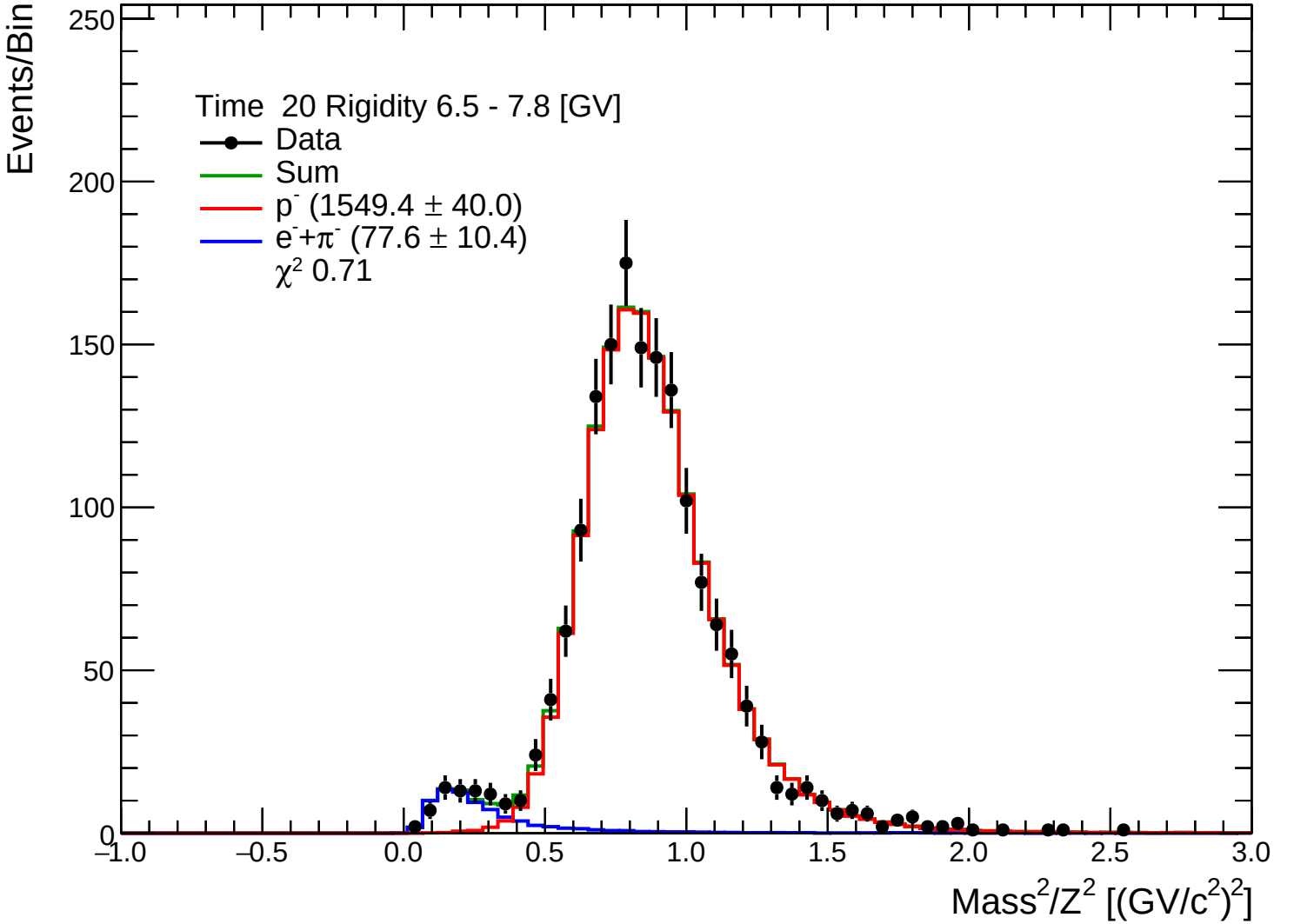

Events/Bin
0
50
100
150
200
250
300
350
400
590
595
600
605
610
615
620
625
630
635
Number [Temp 0]

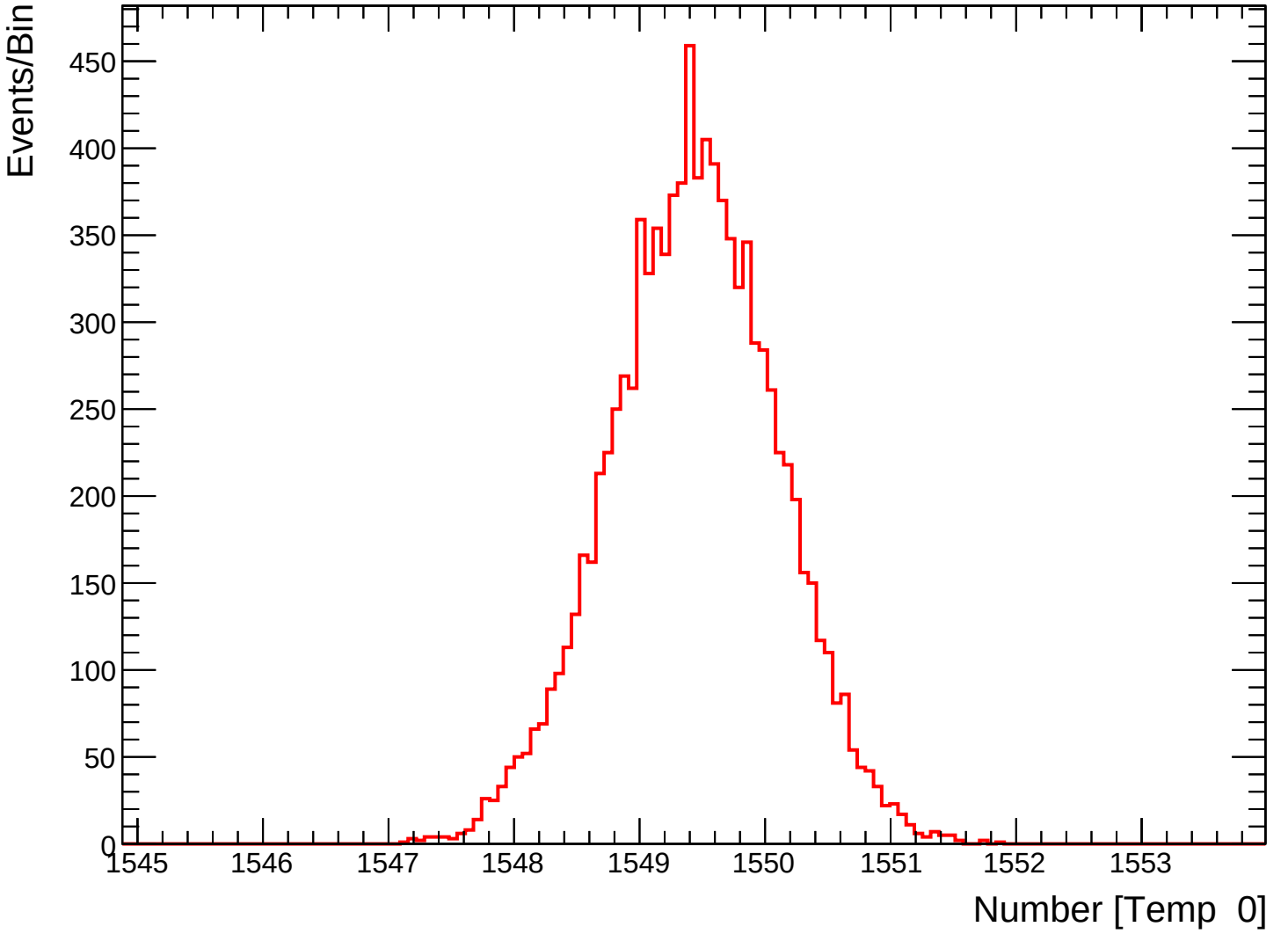

Time 20 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1123.8 ± 35.7)
e⁻+π⁻ (0.0 ± 10.5)
χ² 1.14
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

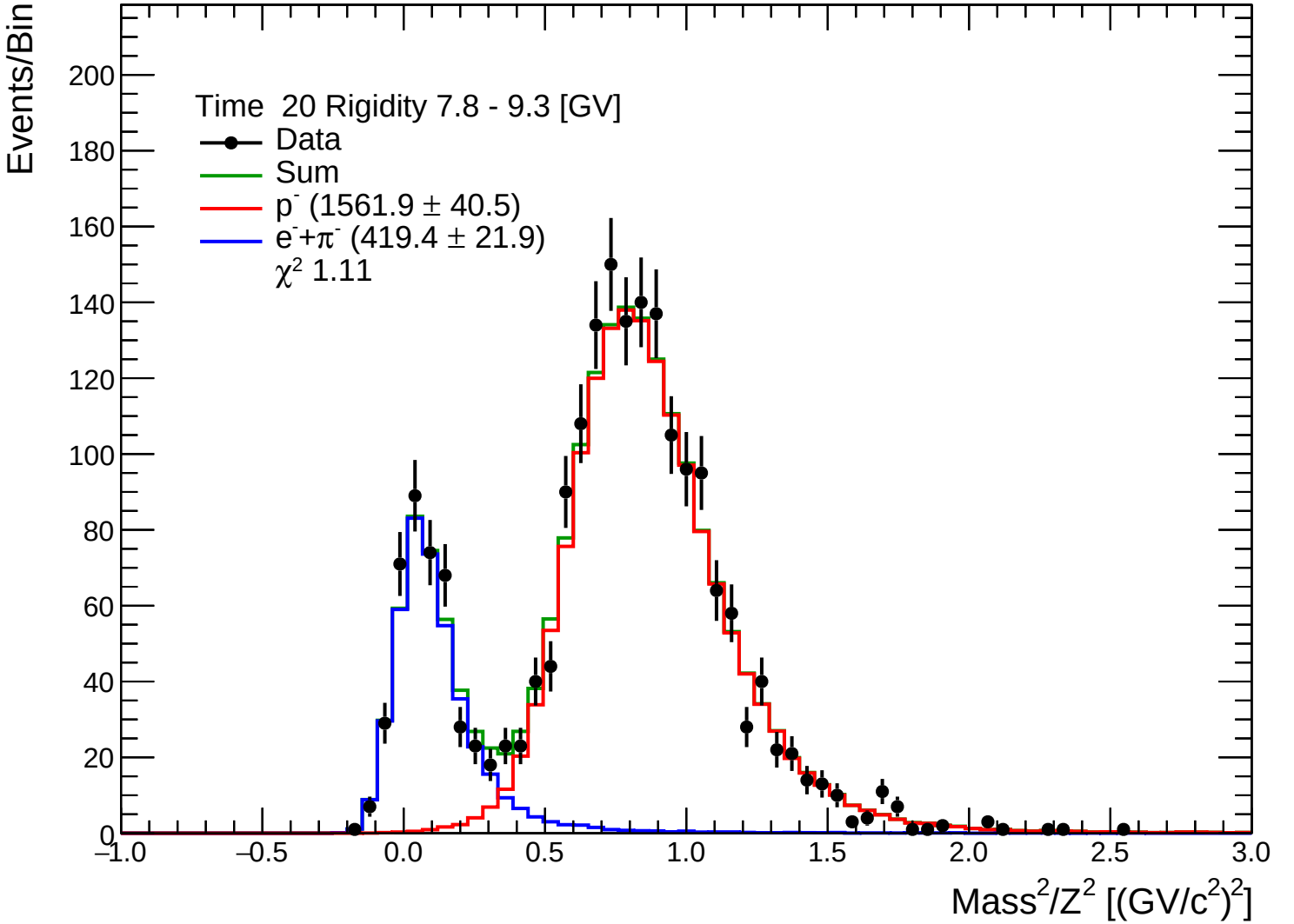

Events/Bin
3000
2500
2000
1500
1000
500
0
1040
1060
1080
1100
1120
1140
1160
1180
1200
Number [Temp 0]

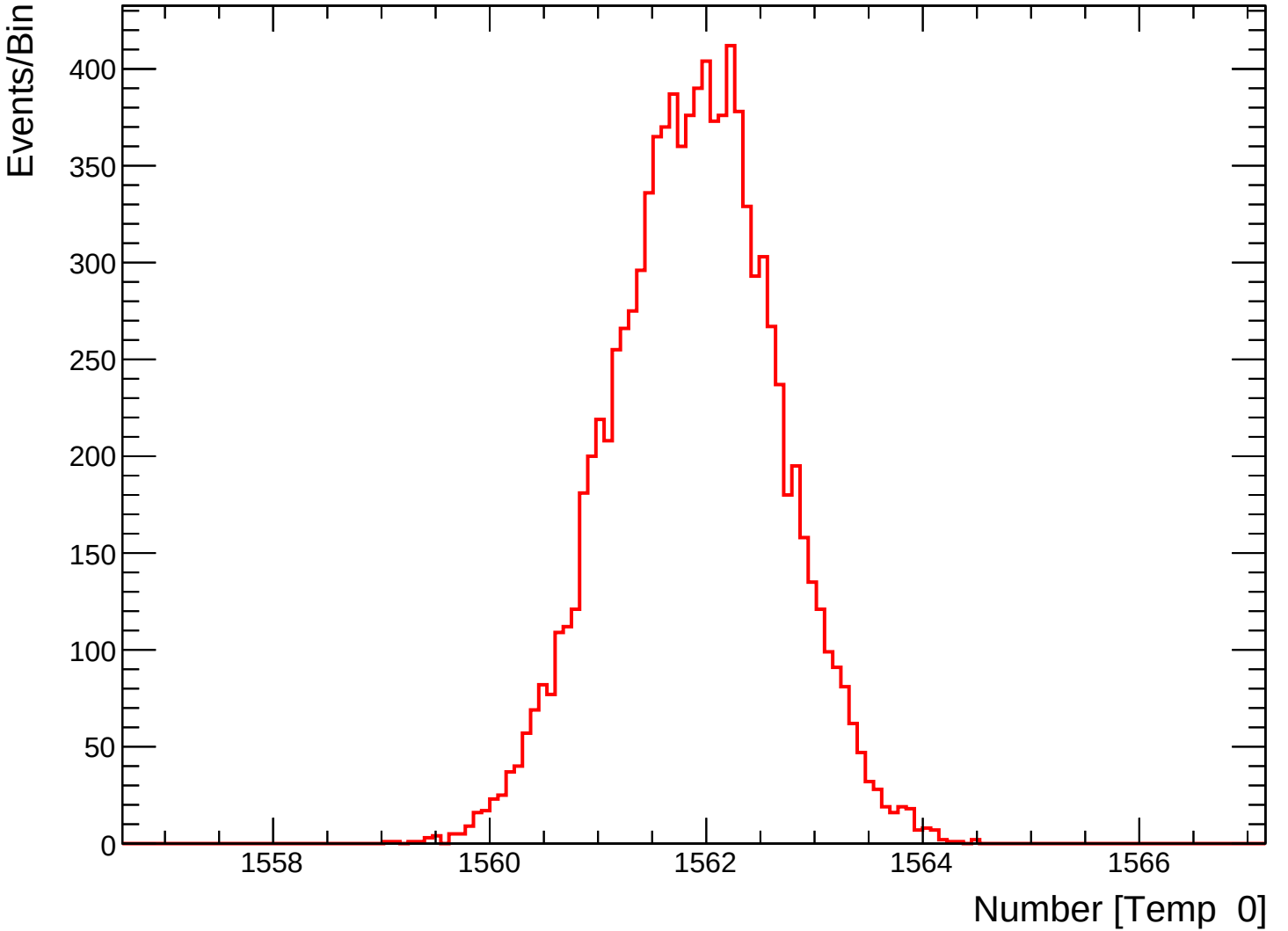

Time 20 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1385.2 ± 38.9)
e⁻+π⁻ (38.2 ± 12.3)
χ² 0.73
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

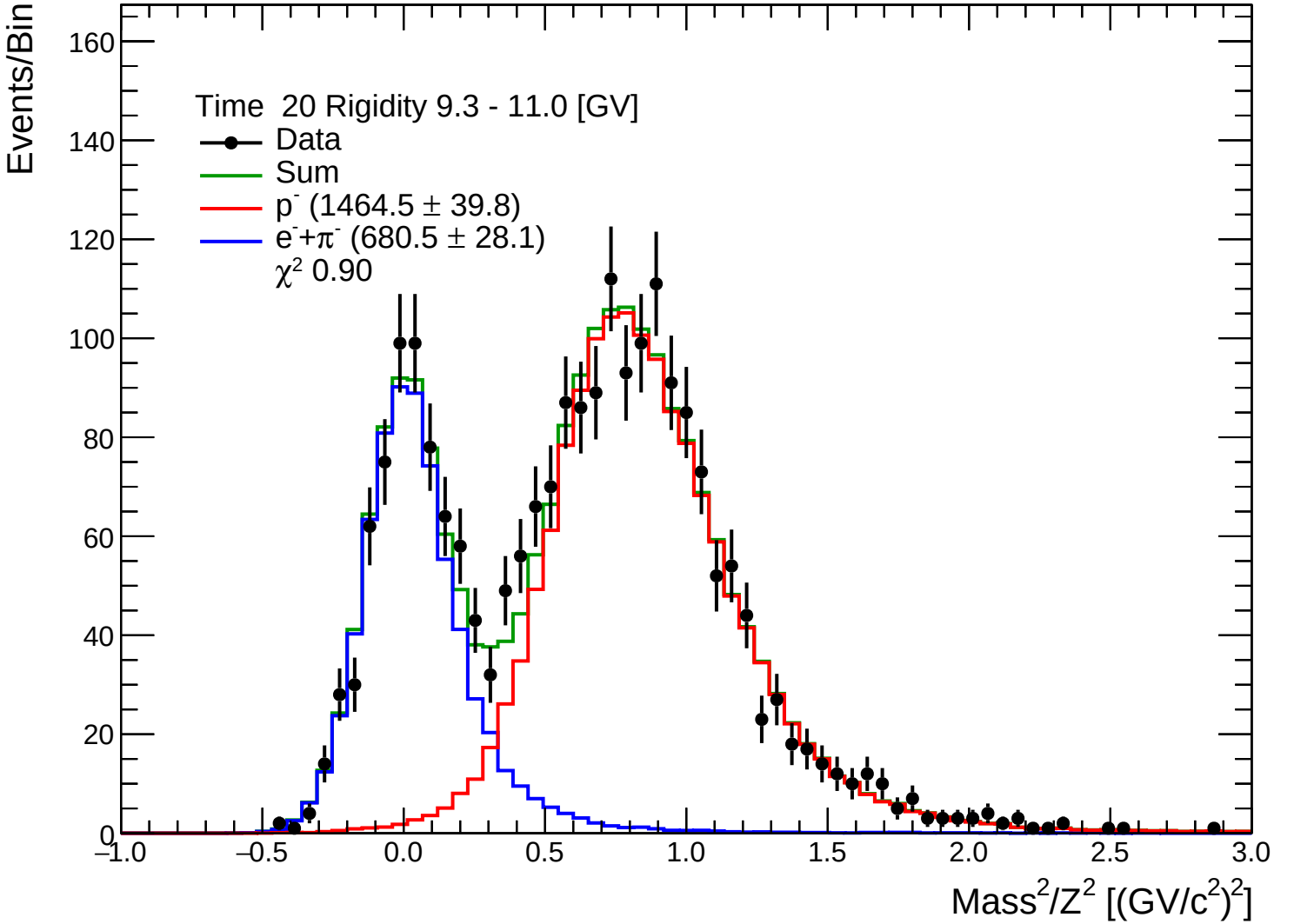

Events/Bin
400
350
300
250
200
150
100
50
0
1375
1380
1385
1390
1395
Number [Temp 0]

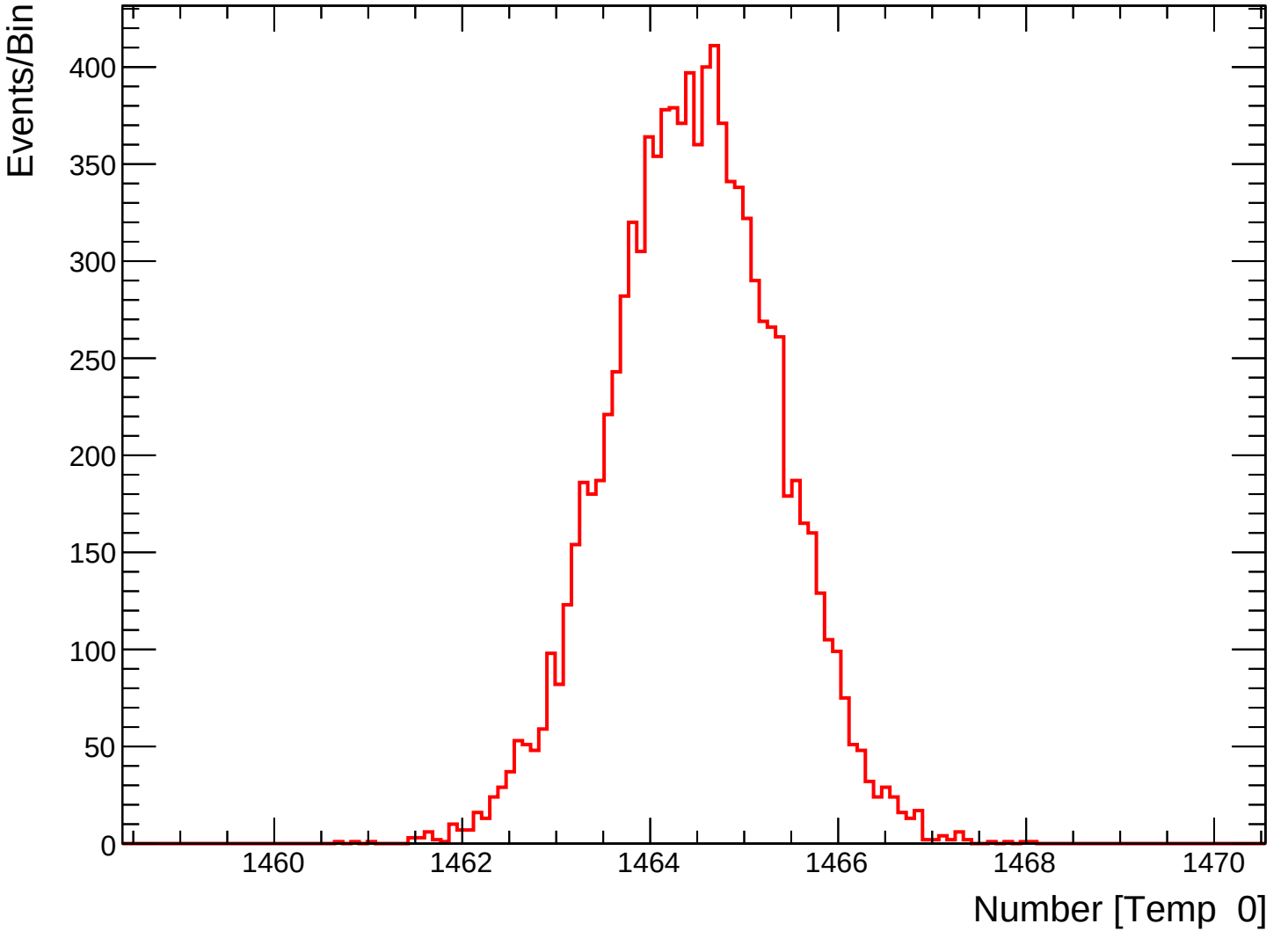

Time 20 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1549.4 ± 40.0)
e⁻+π⁻ (77.6 ± 10.4)
χ² 0.71
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

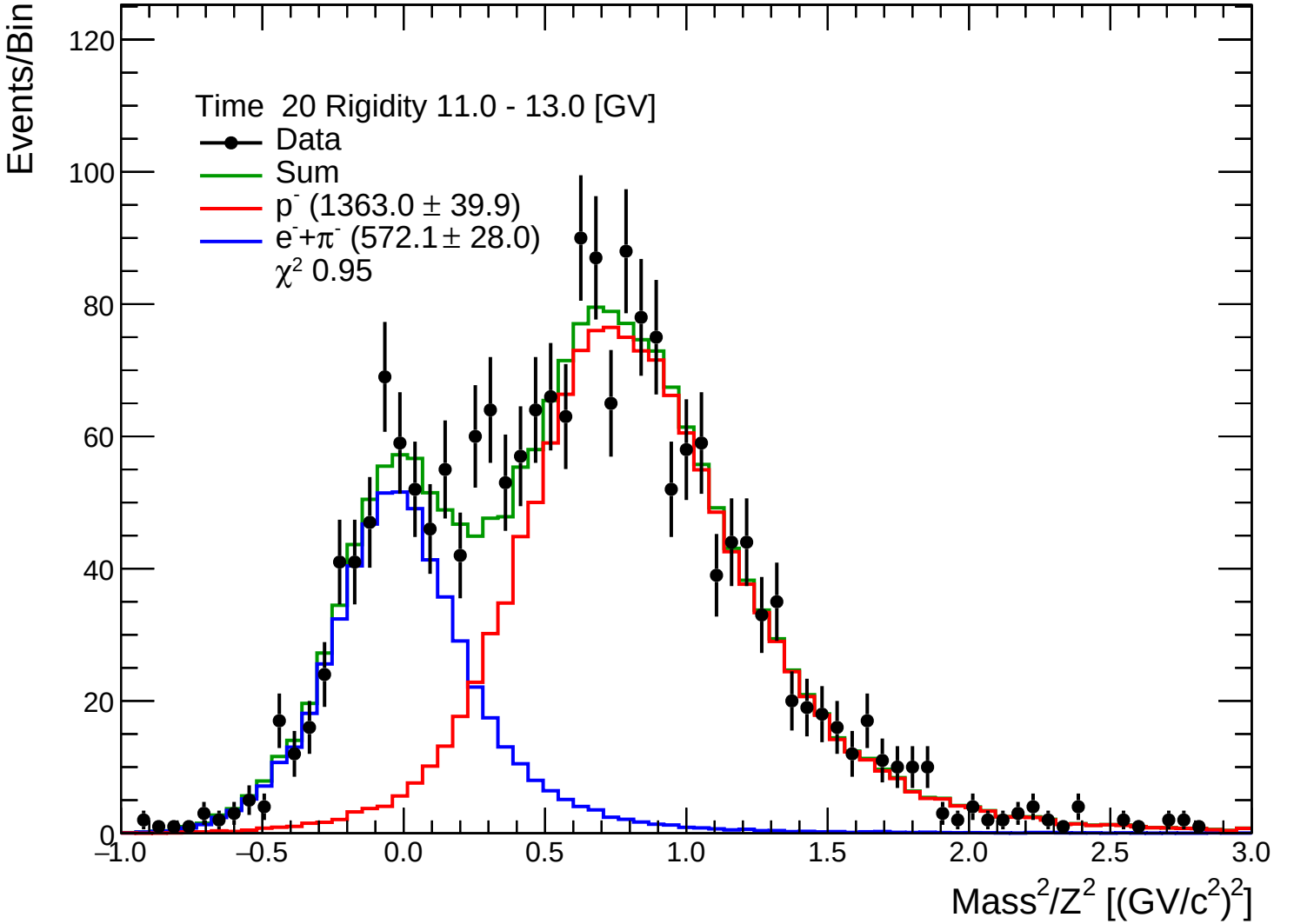

Events/Bin
450
400
350
300
250
200
150
100
50
0
1545
1546
1547
1548
1549
1550
1551
1552
1553
Number [Temp 0]

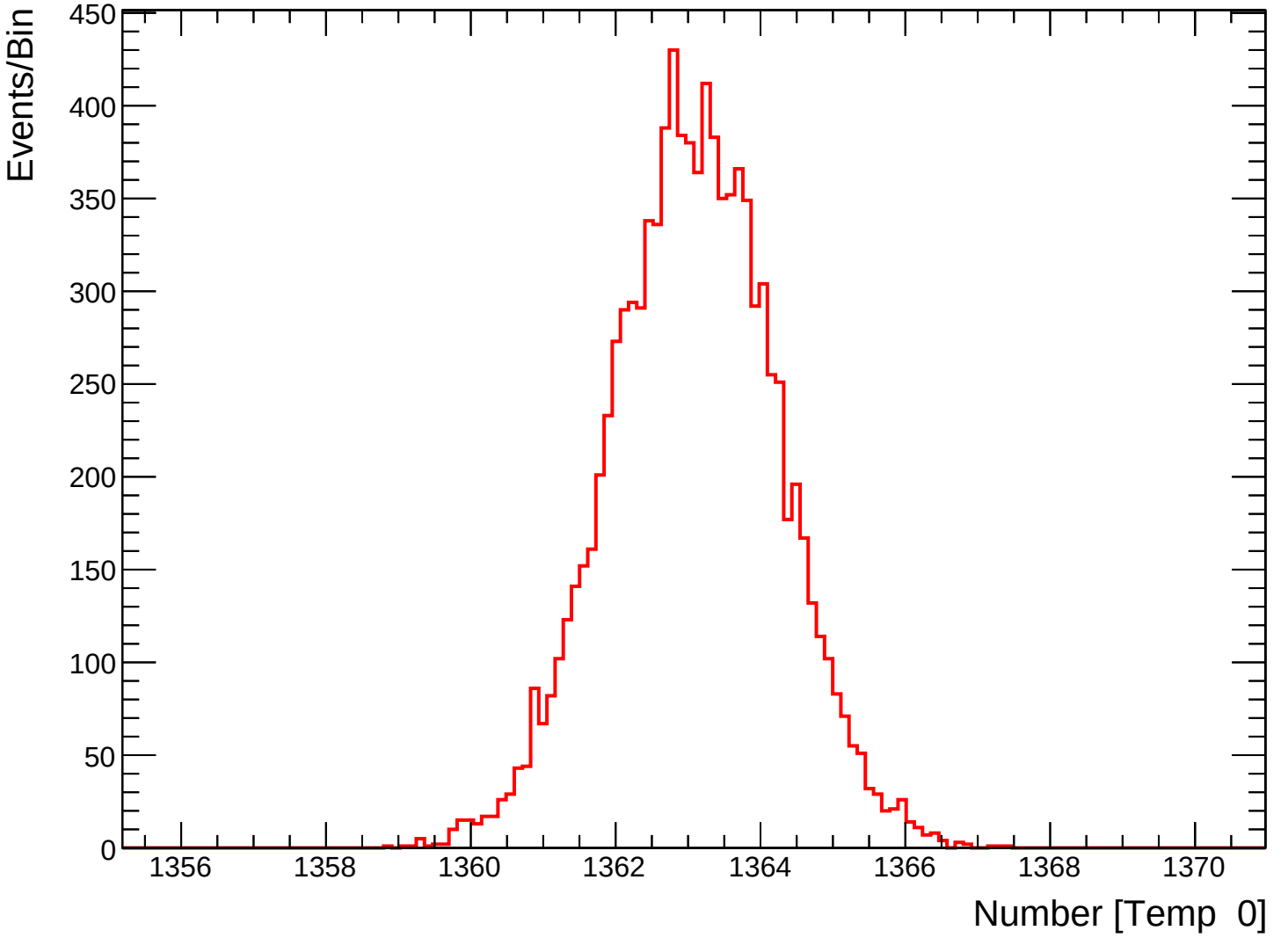

Time 20 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1561.9 ± 40.5)
e⁻+π⁻ (419.4 ± 21.9)
χ² 1.11
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

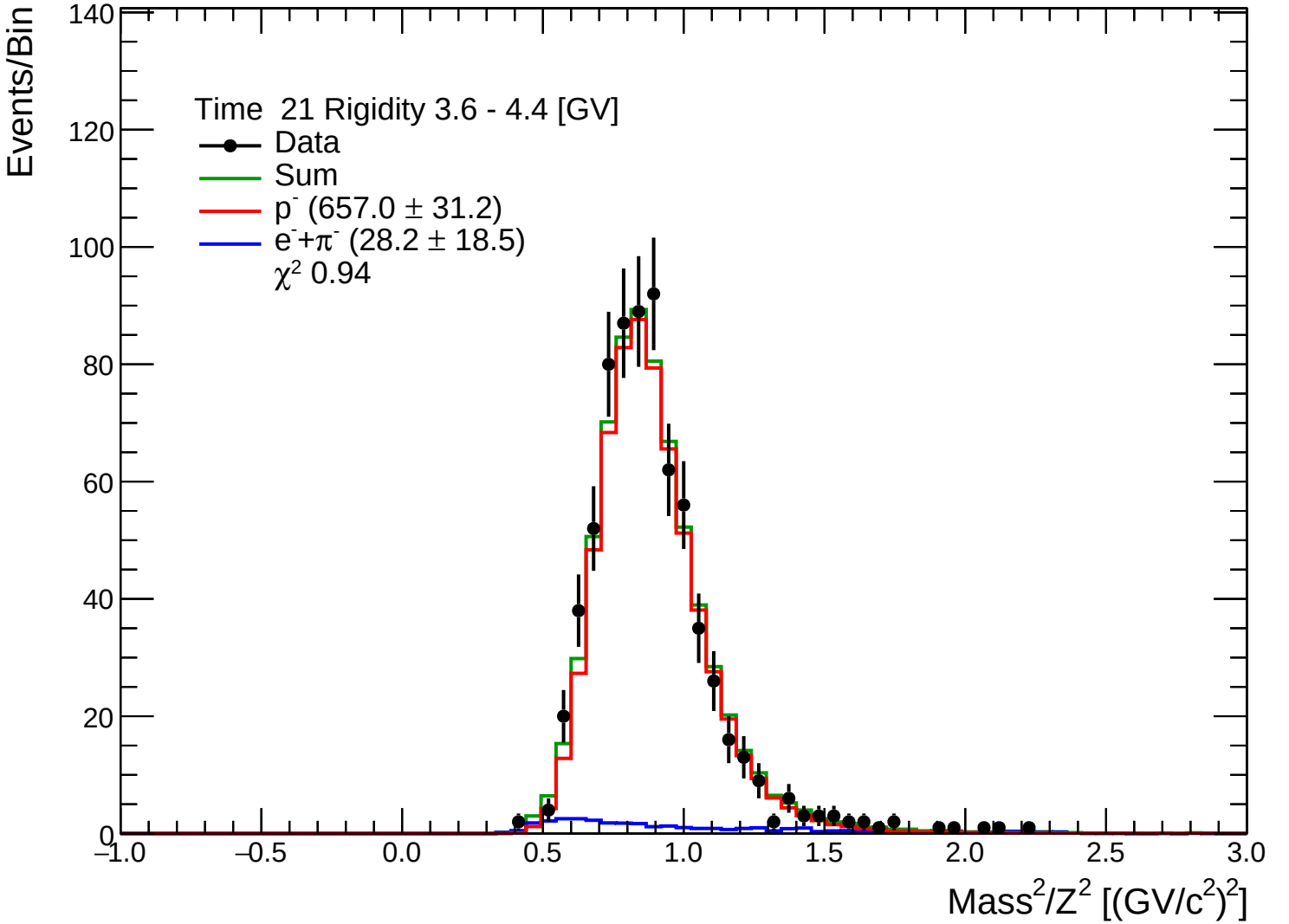

Events/Bin
400
350
300
250
200
150
100
50
0
1558
1560
1562
1564
1566
Number [Temp 0]

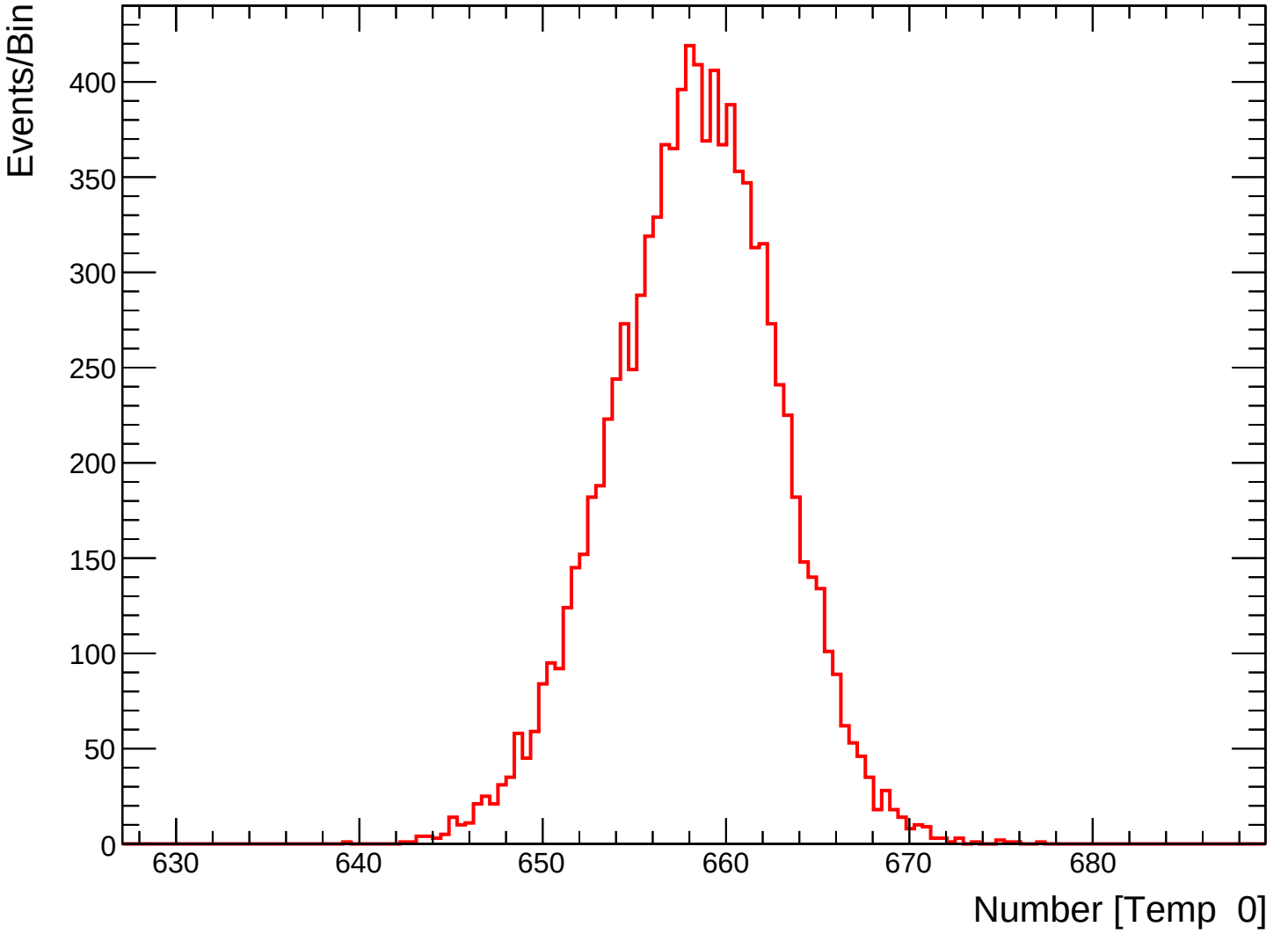

Time 20 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1464.5 ± 39.8)
e⁻+π⁻ (680.5 ± 28.1)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

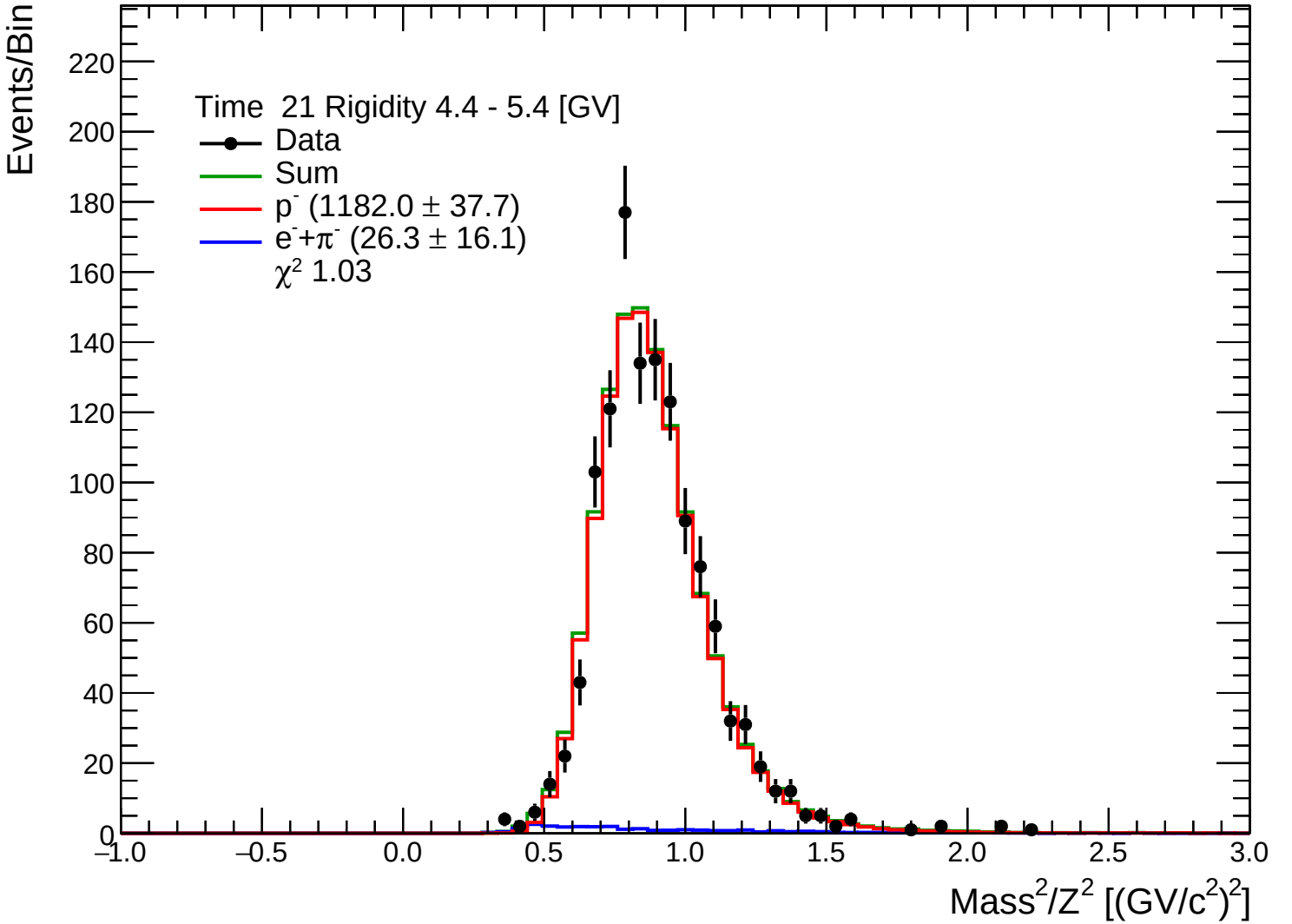

Events/Bin
400
350
300
250
200
150
100
50
0
1460
1462
1464
1466
1468
1470
Number [Temp 0]

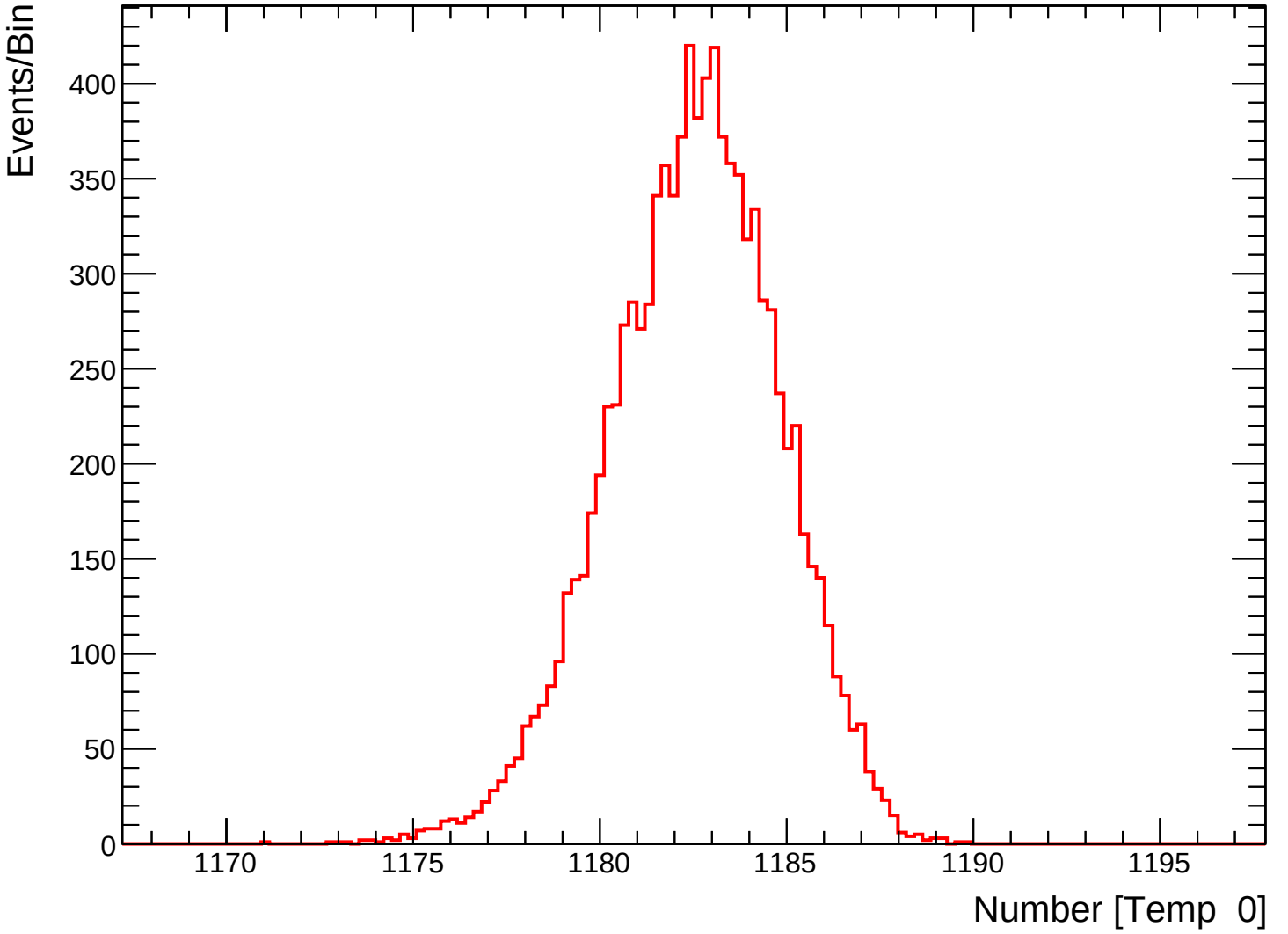

Time 20 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1363.0 ± 39.9)
e⁻+π⁻ (572.1 ± 28.0)
χ² 0.95
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

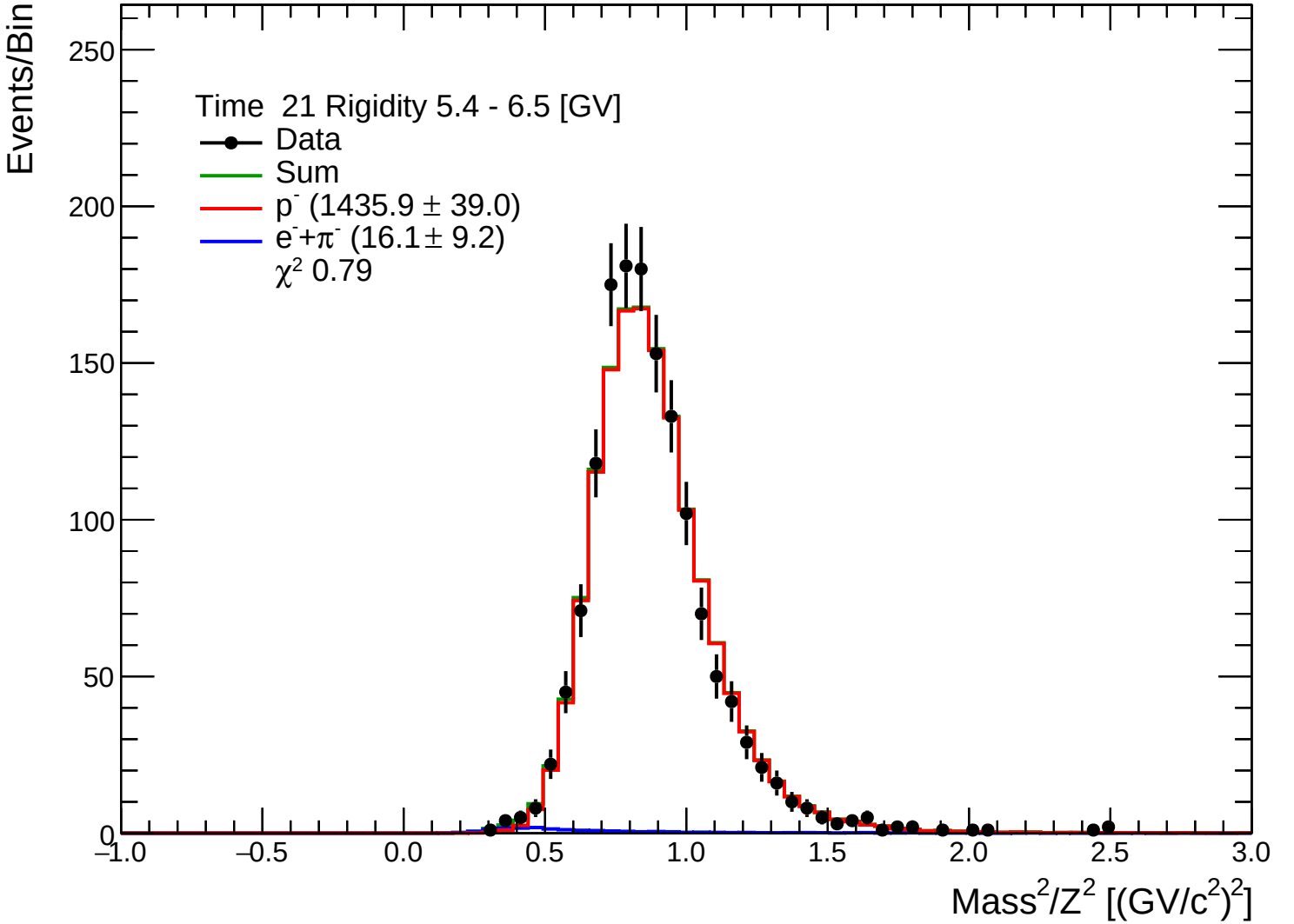

Events/Bin
450
400
350
300
250
200
150
100
50
0
1356
1358
1360
1362
1364
1366
1368
1370
Number [Temp 0]

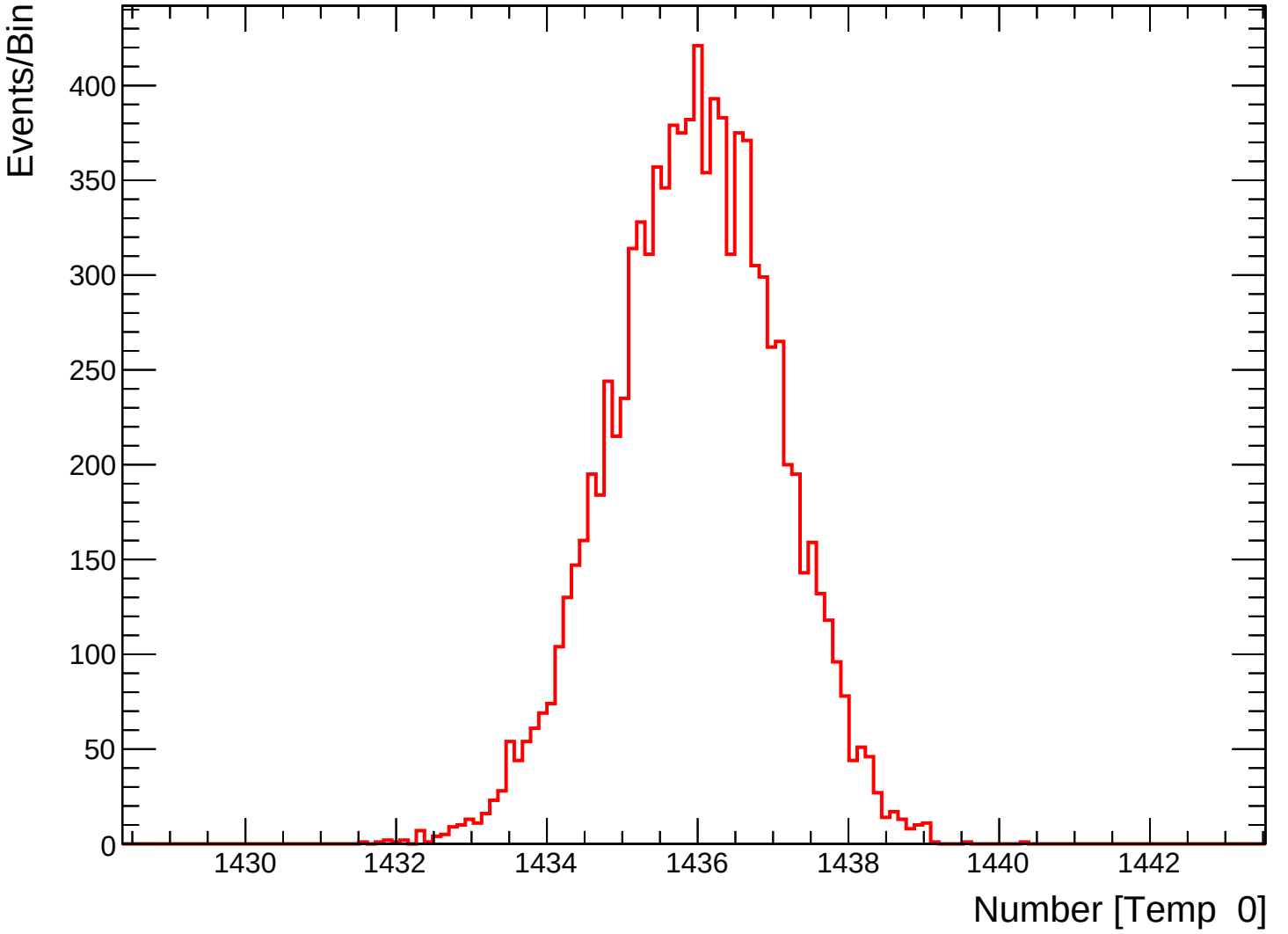

Time 21 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (657.0 ± 31.2)
e⁻+π⁻ (28.2 ± 18.5)
χ² 0.94
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

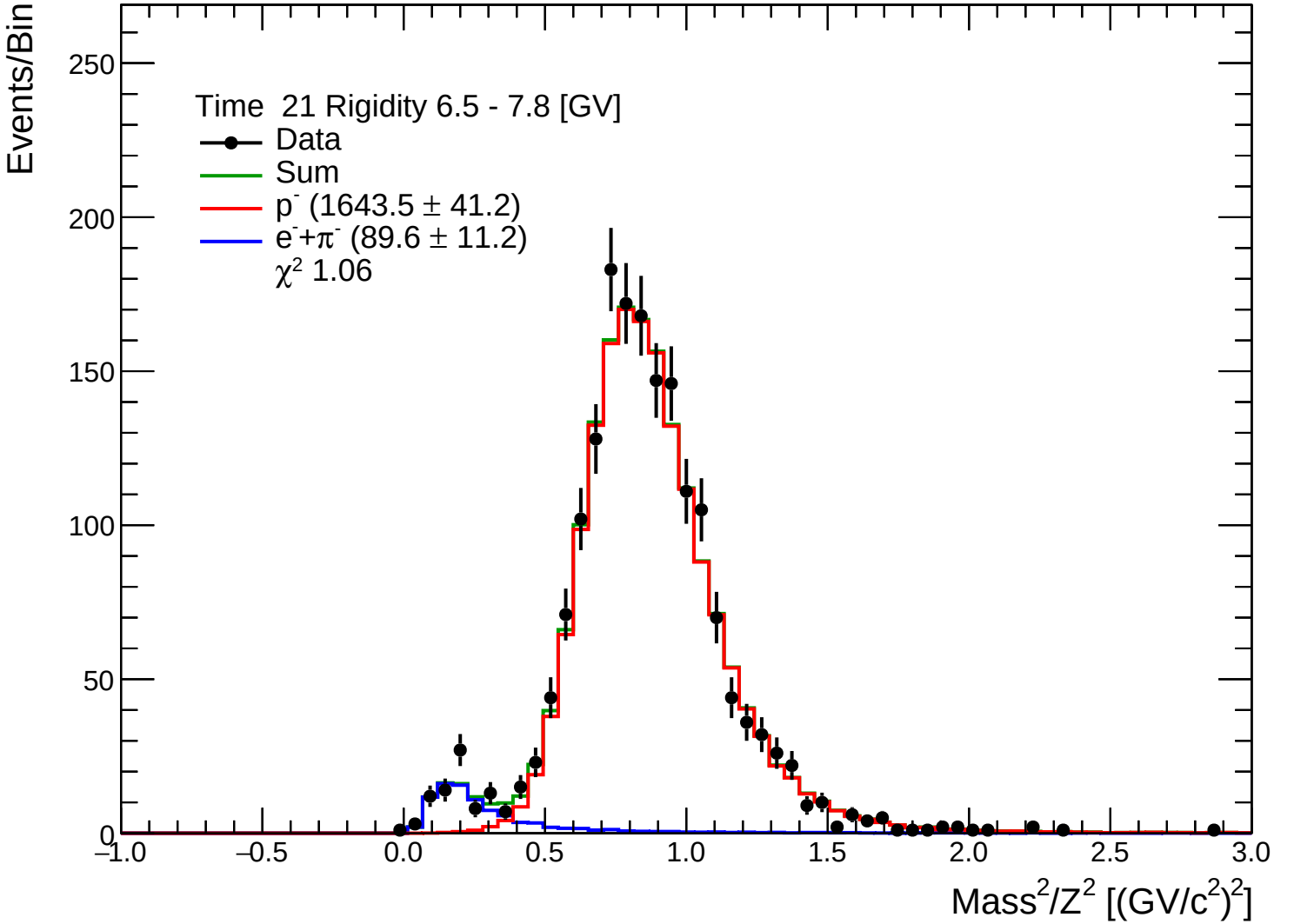

Events/Bin
400
350
300
250
200
150
100
50
0
630
640
650
660
670
680
Number [Temp 0]

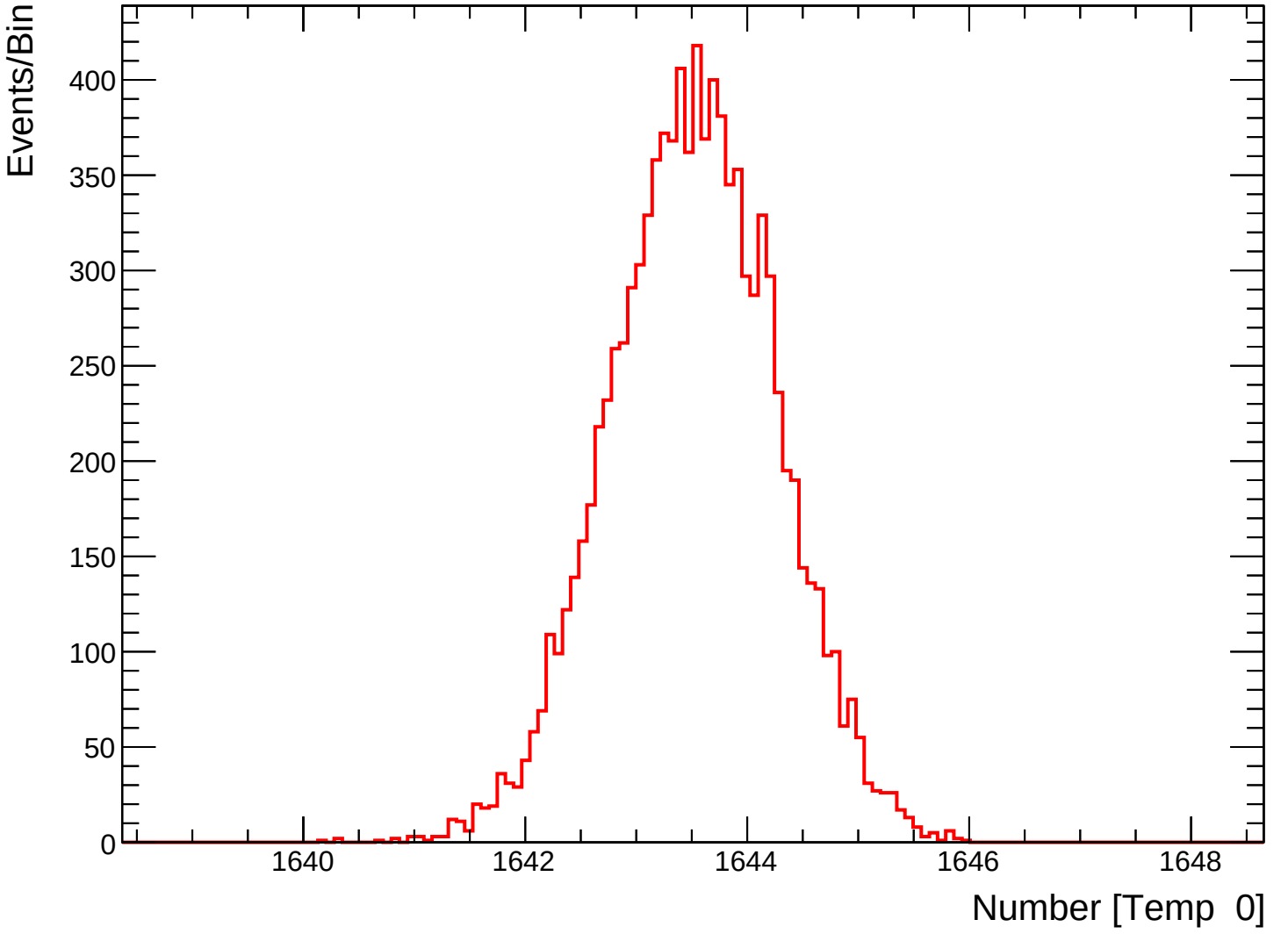

Time 21 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1182.0 ± 37.7)
e⁻+π⁻ (26.3 ± 16.1)
χ² 1.03
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

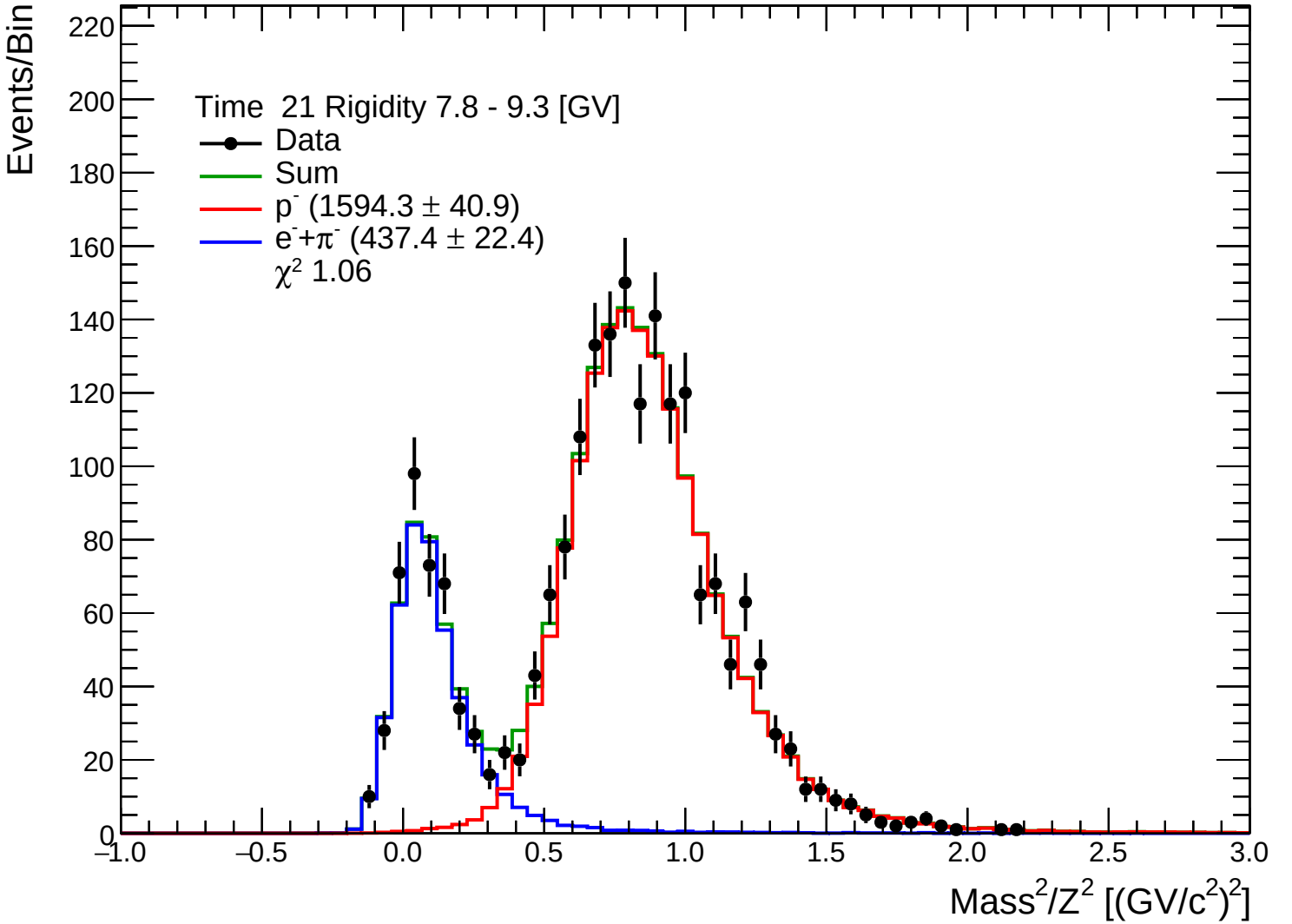

Events/Bin
400
350
300
250
200
150
100
50
0
1170
1175
1180
1185
1190
1195
Number [Temp 0]

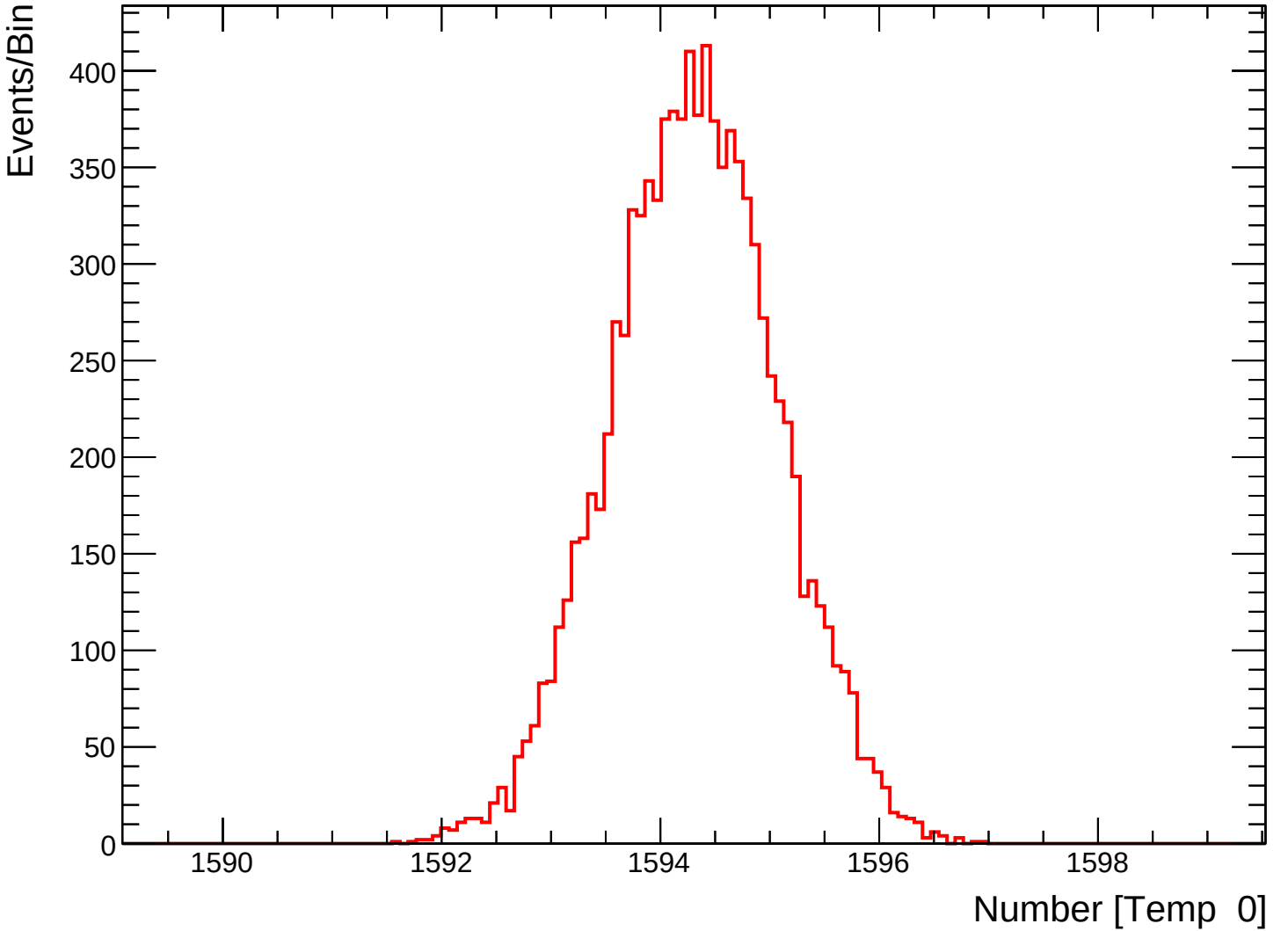

Time 21 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1435.9 ± 39.0)
e⁻+π⁻ (16.1± 9.2)
χ² 0.79
Events/Bin
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Mass²/Z² [(GV/c²)²]

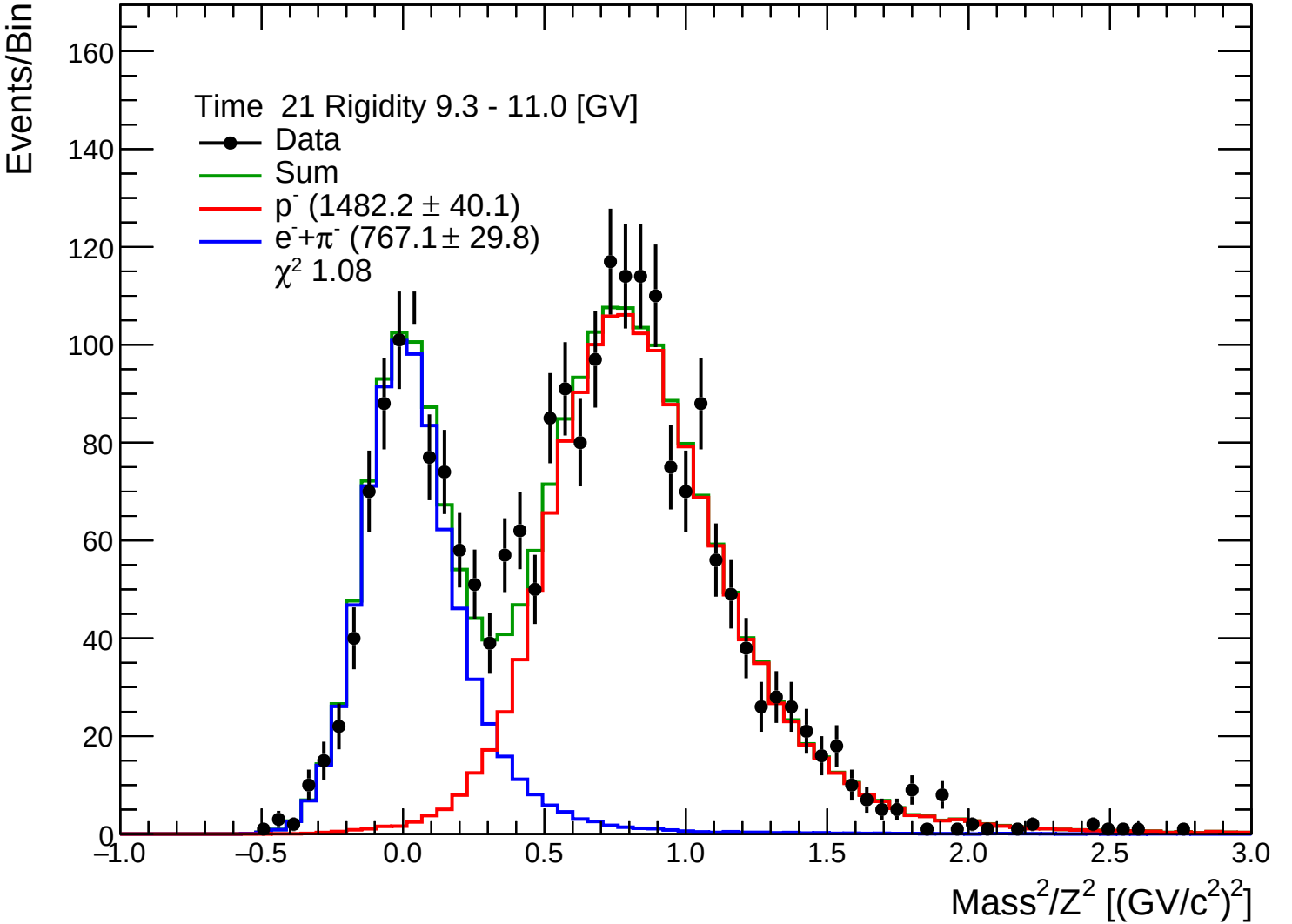

Events/Bin
400
350
300
250
200
150
100
50
0
1430
1432
1434
1436
1438
1440
1442
Number [Temp 0]

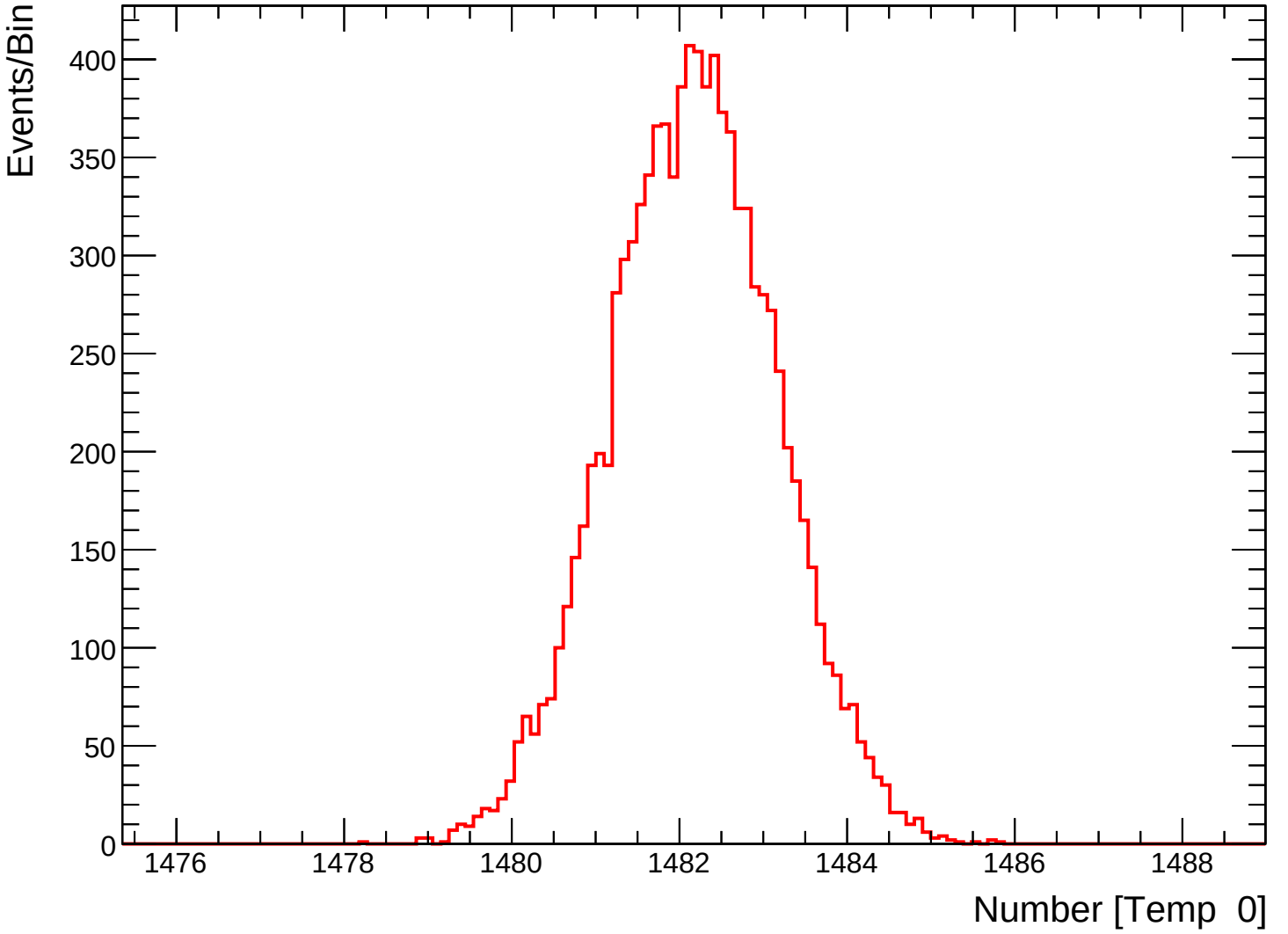

Time 21 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1643.5 ± 41.2)
e⁻+π⁻ (89.6 ± 11.2)
χ² 1.06
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

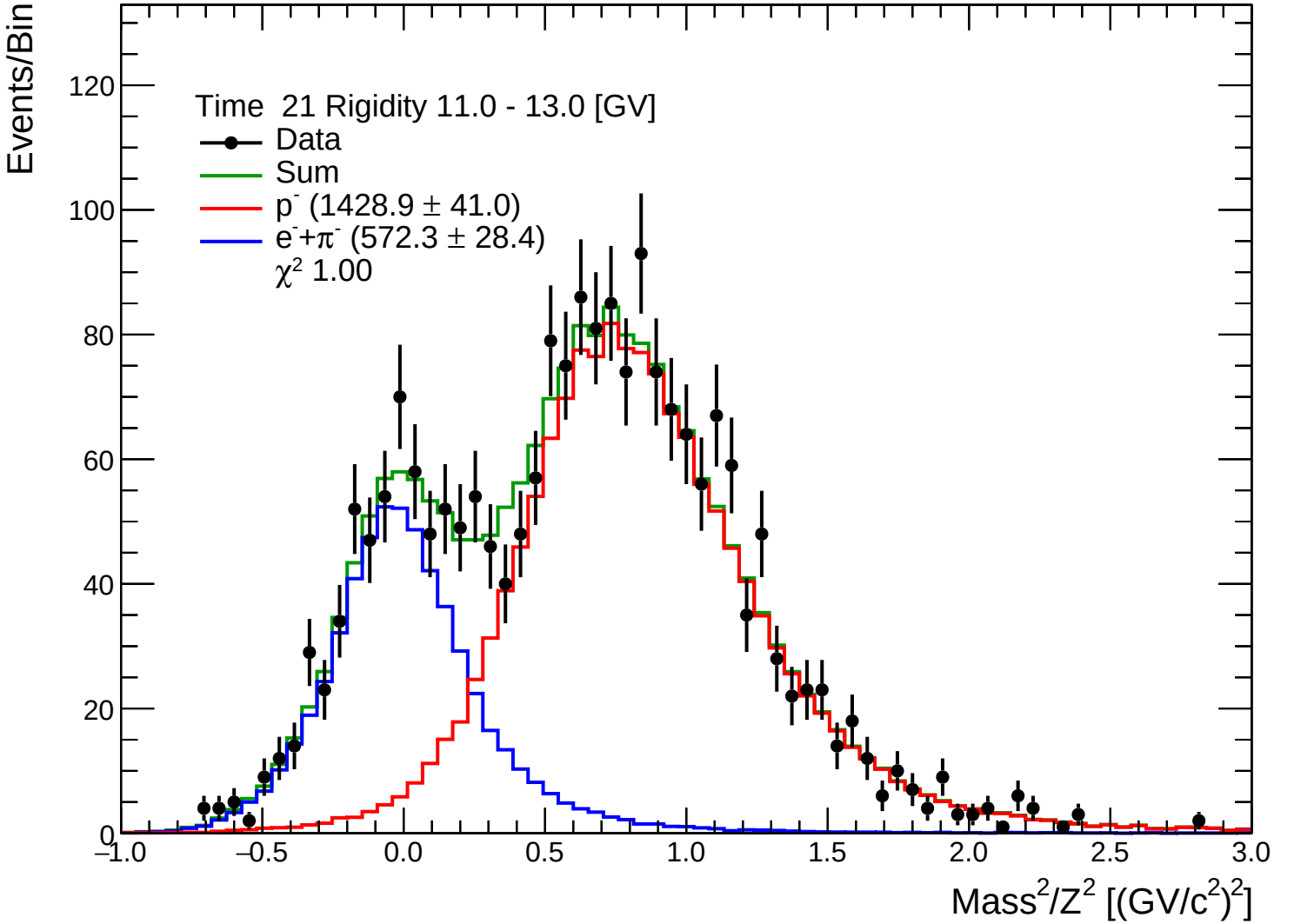

Events/Bin
400
350
300
250
200
150
100
50
0
1640
1642
1644
1646
1648
Number [Temp 0]

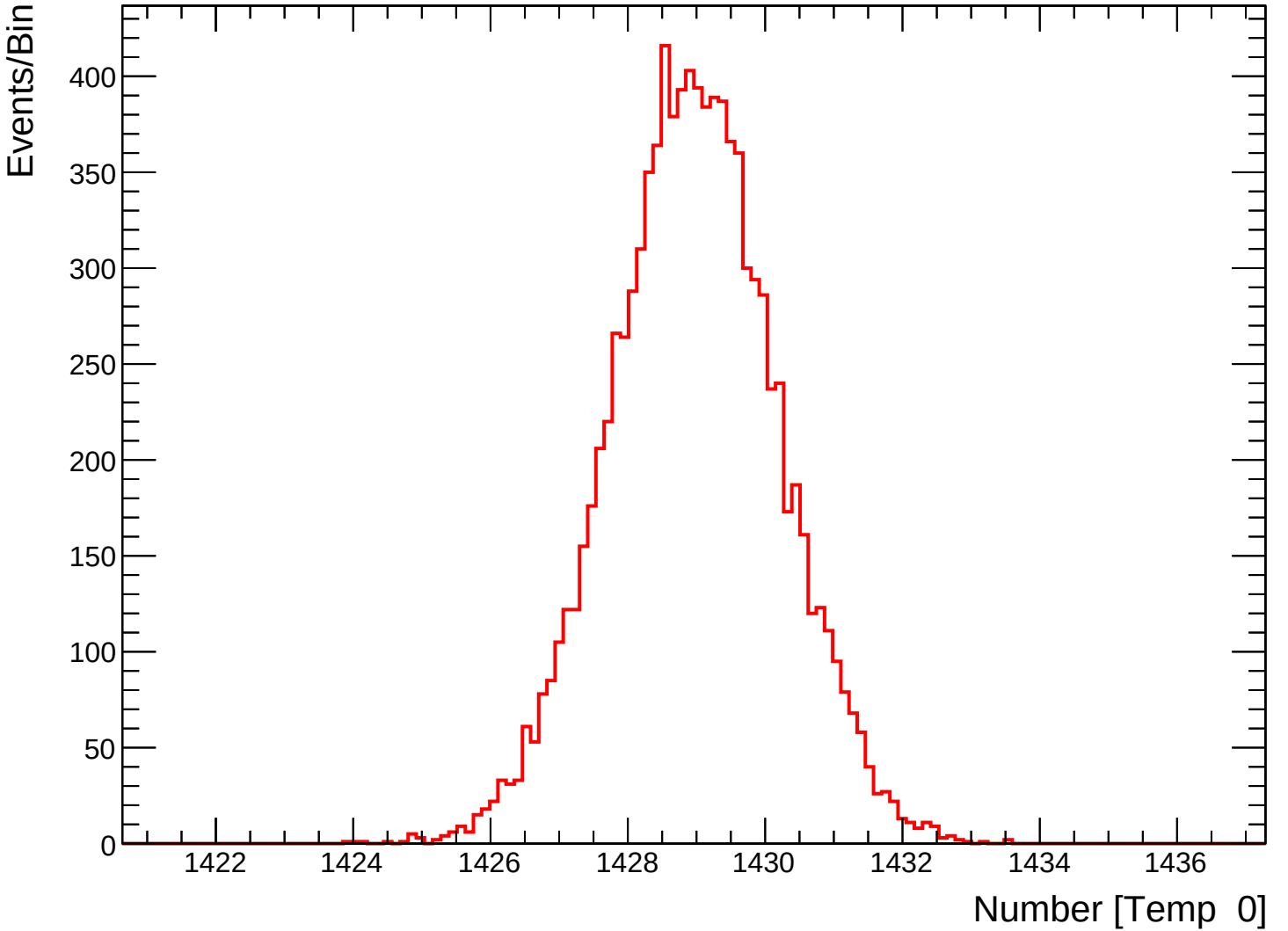

Time 21 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1594.3 ± 40.9)
e⁻+π⁻ (437.4 ± 22.4)
χ² 1.06
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

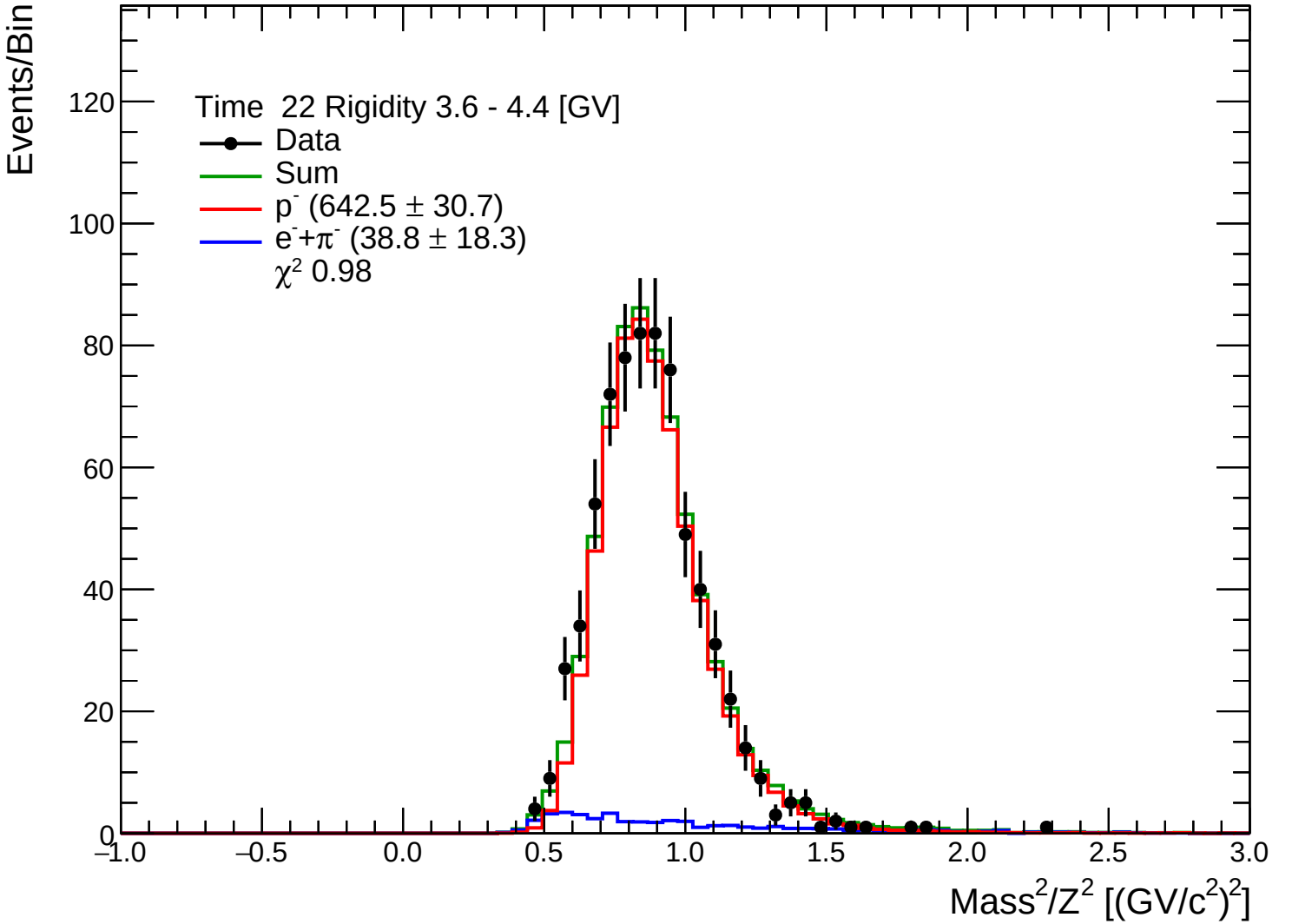

Events/Bin
400
350
300
250
200
150
100
50
0
1590
1592
1594
1596
1598
Number [Temp 0]

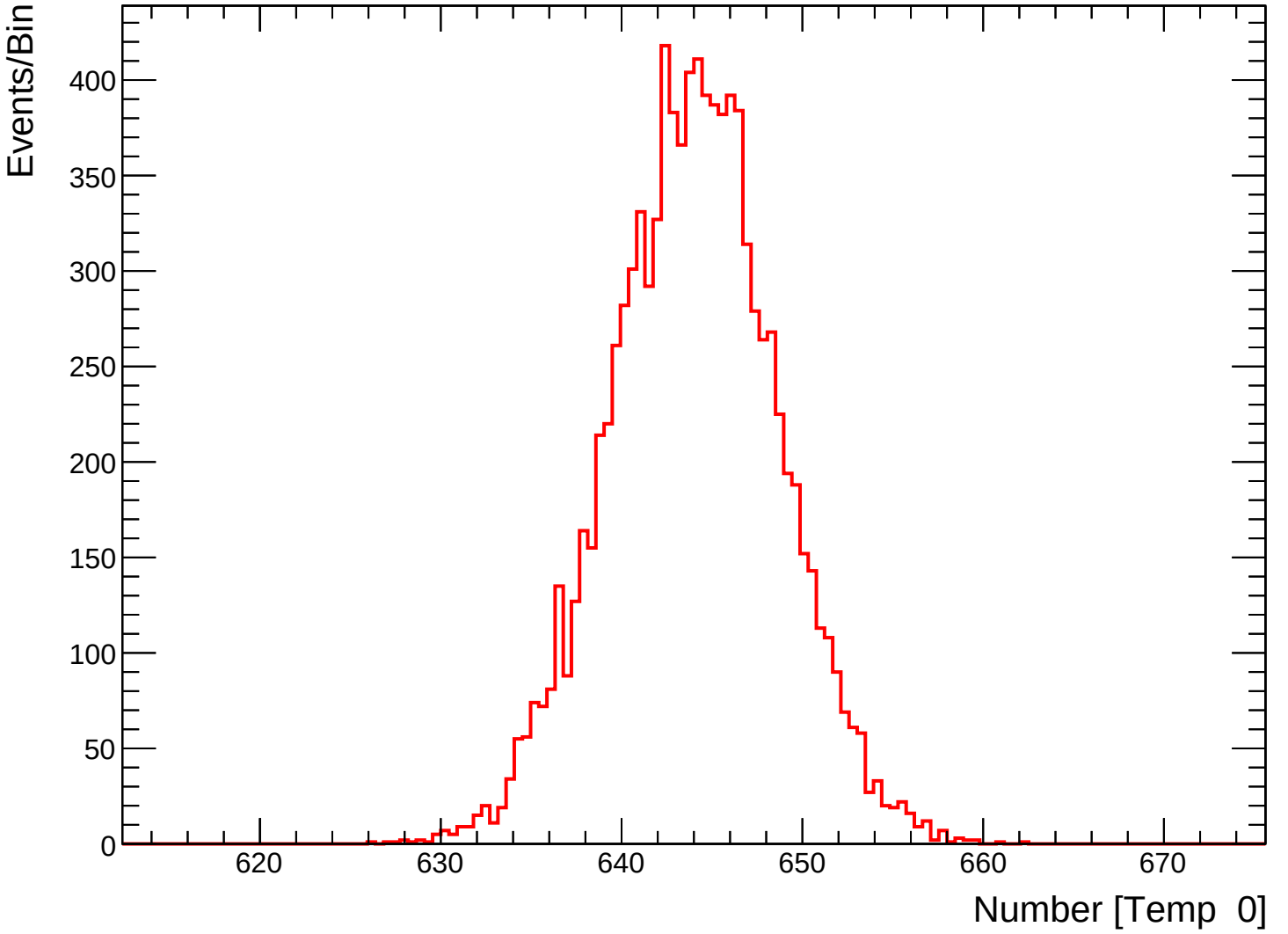

Time 21 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1482.2 ± 40.1)
e⁻+π⁻ (767.1 ± 29.8)
χ² 1.08
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

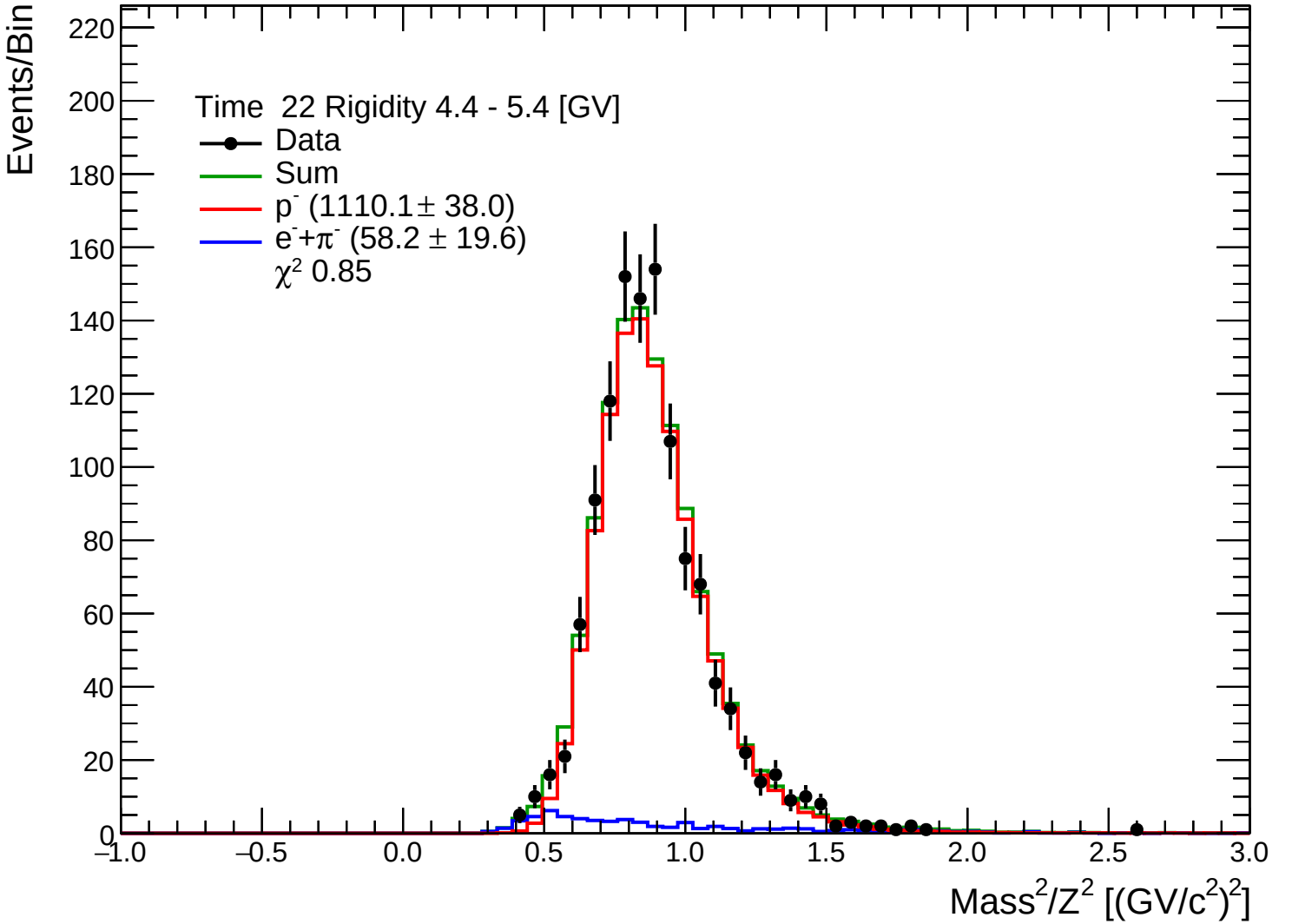

Events/Bin
400
350
300
250
200
150
100
50
0
1476
1478
1480
1482
1484
1486
1488
Number [Temp 0]

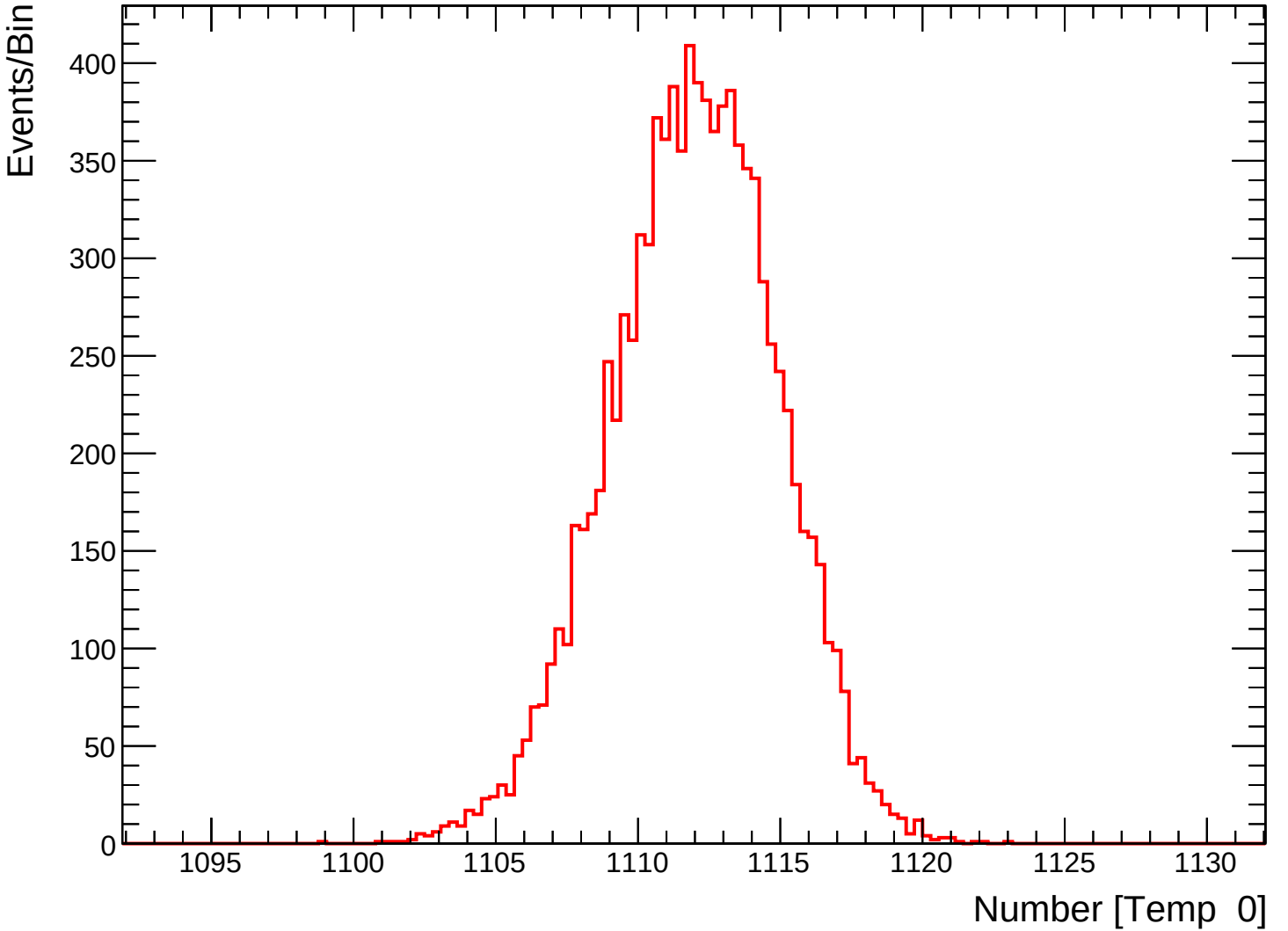

Time 21 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1428.9 ± 41.0)
e⁻+π⁻ (572.3 ± 28.4)
χ² 1.00
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

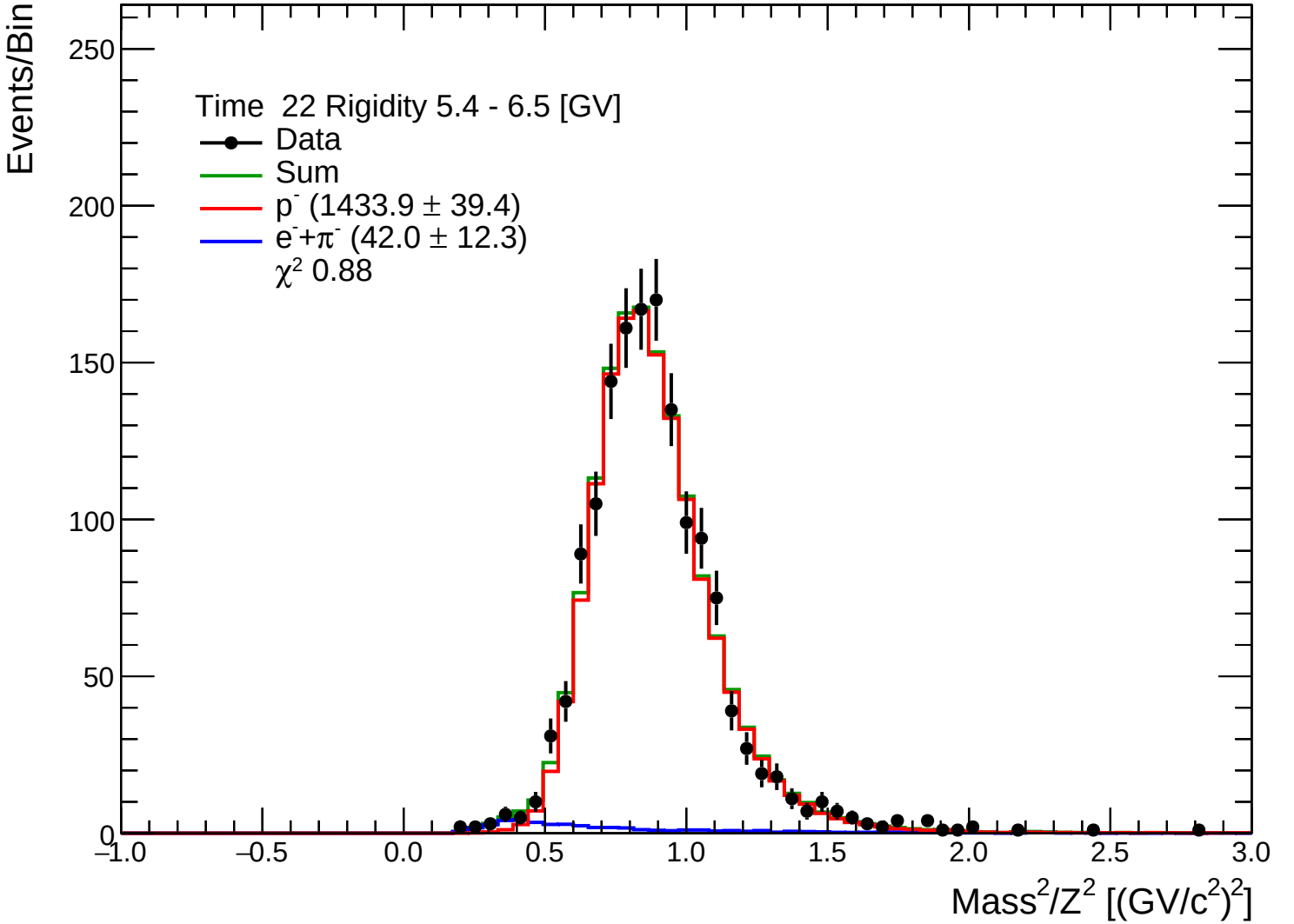

Events/Bin
400
350
300
250
200
150
100
50
0
1422
1424
1426
1428
1430
1432
1434
1436
Number [Temp 0]

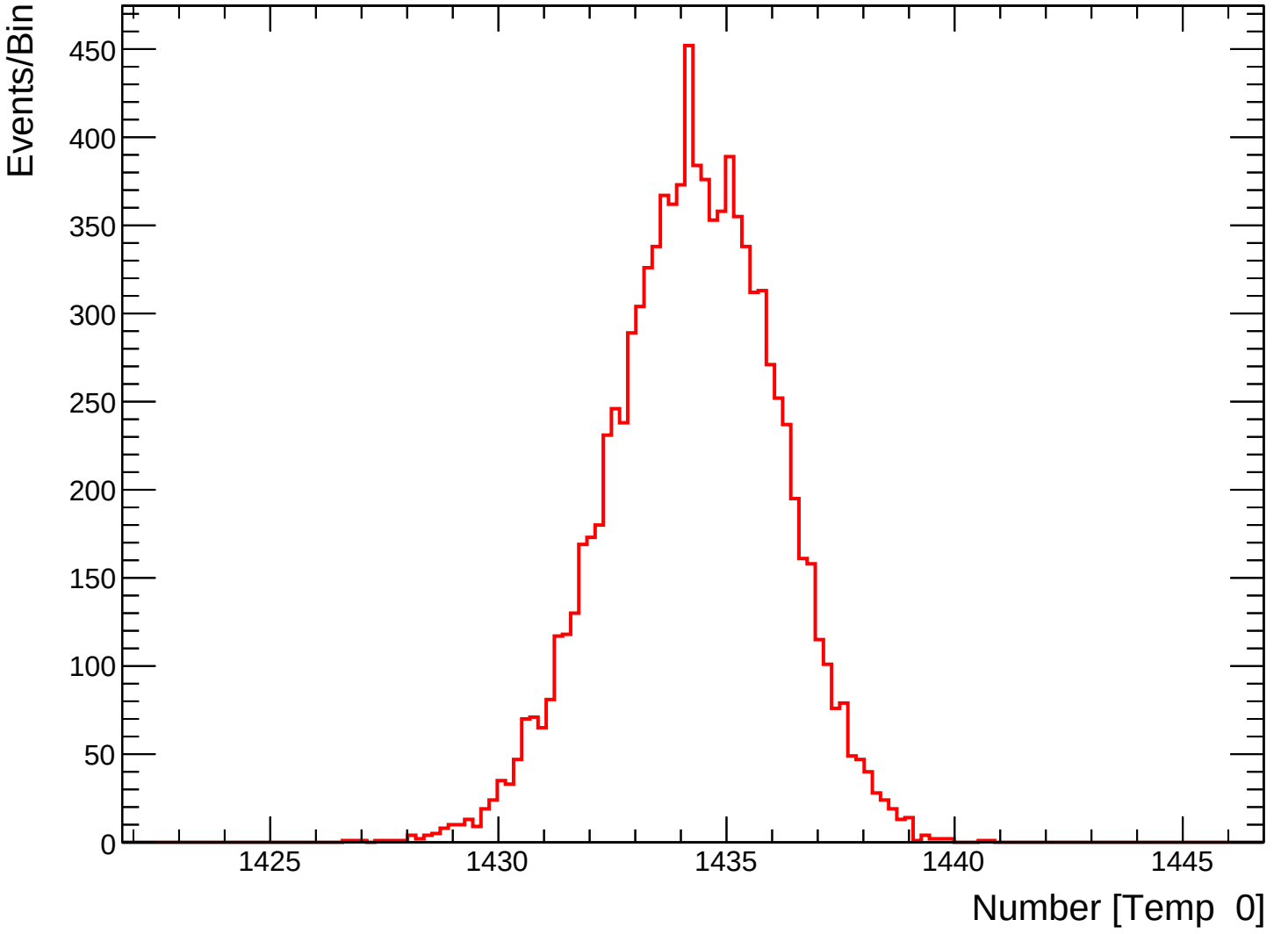

Time 22 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (642.5 ± 30.7)
e⁻+π⁻ (38.8 ± 18.3)
χ² 0.98
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

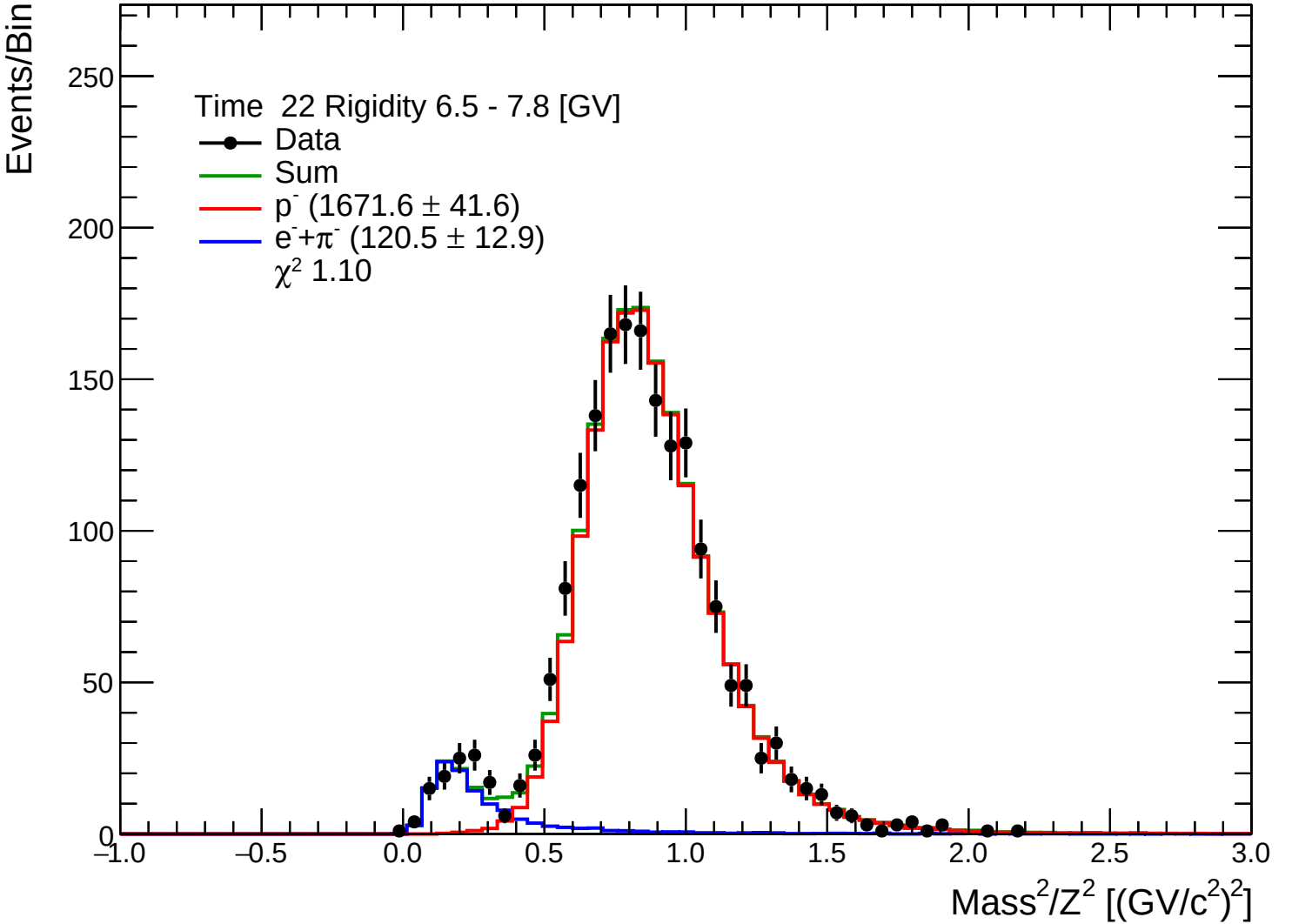

Events/Bin
400
350
300
250
200
150
100
50
0
620
630
640
650
660
670
Number [Temp 0]

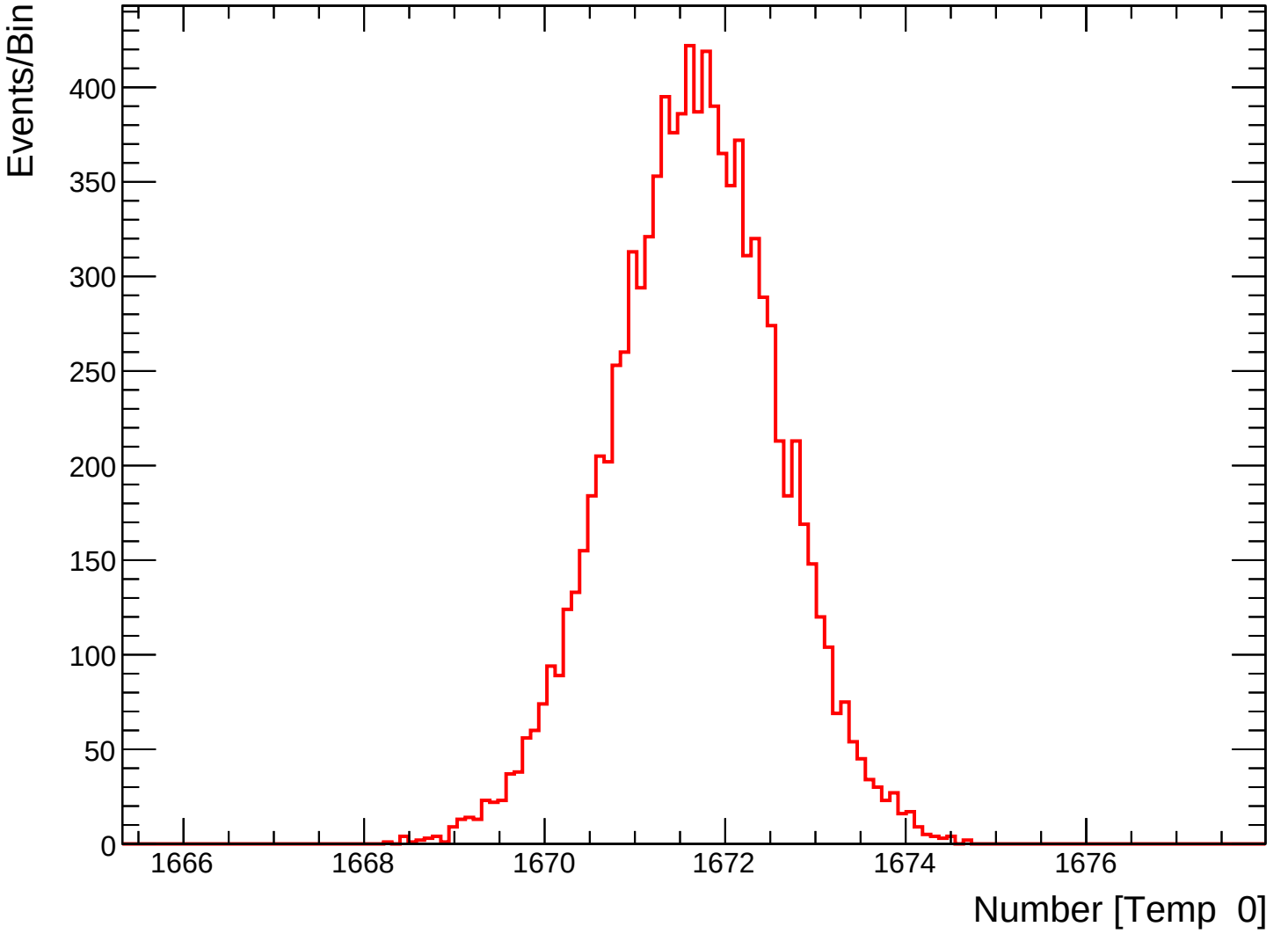

Time 22 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1110.1± 38.0)
e⁻+π⁻ (58.2 ± 19.6)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

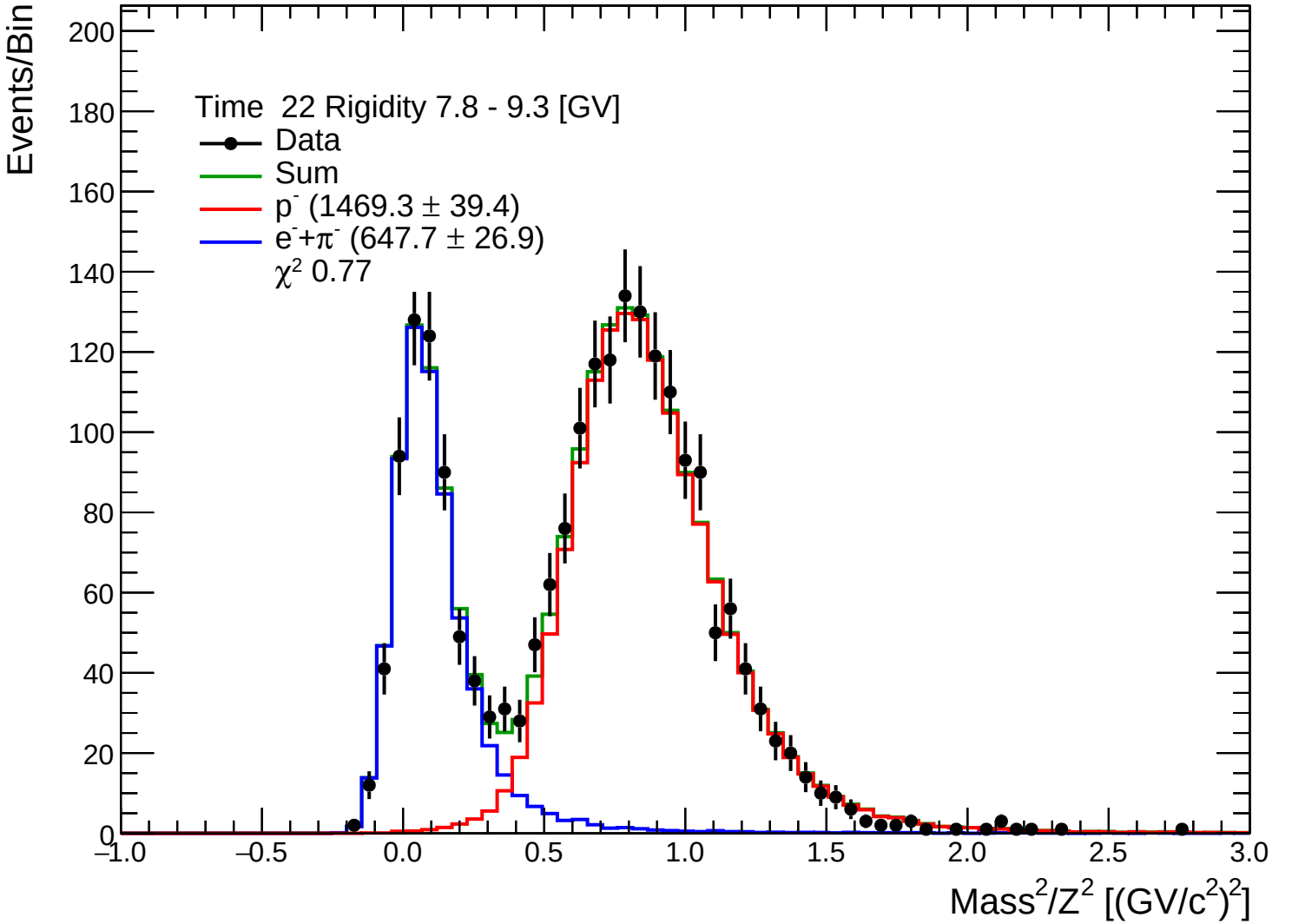

Events/Bin
400
350
300
250
200
150
100
50
0
1095
1100
1105
1110
1115
1120
1125
1130
Number [Temp 0]

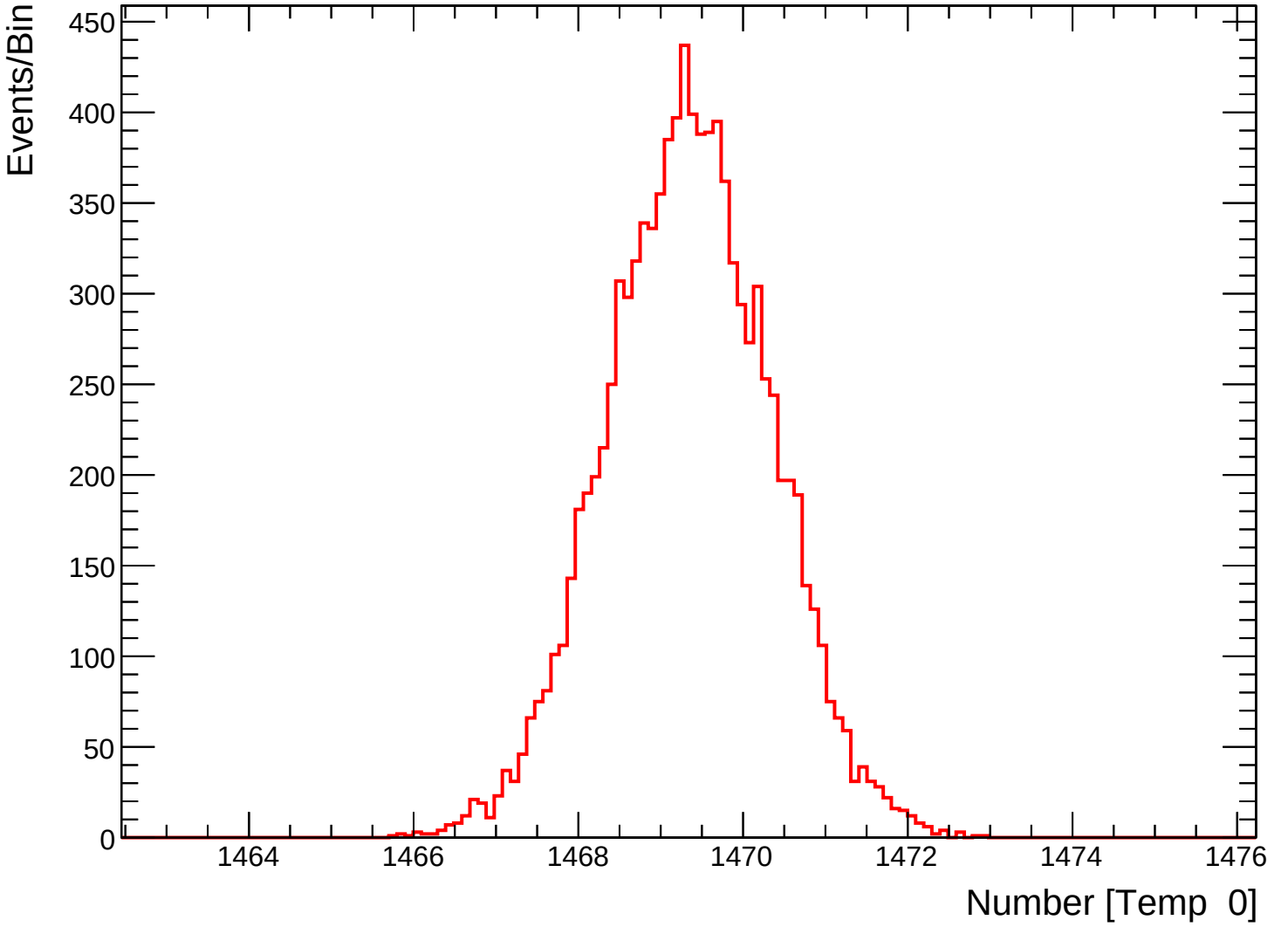

Time 22 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1433.9 ± 39.4)
e⁻+π⁻ (42.0 ± 12.3)
χ² 0.88
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

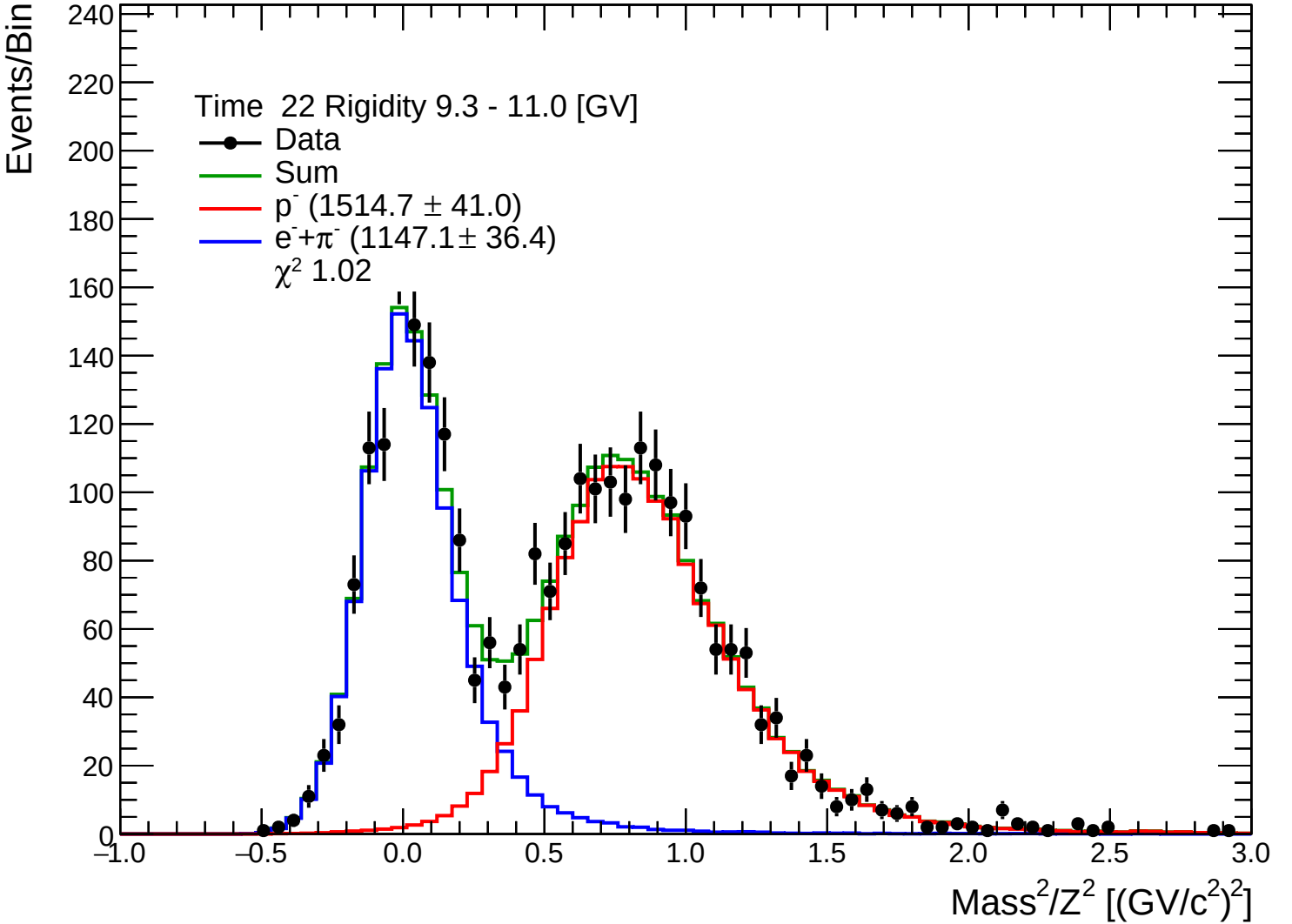

Events/Bin
450
400
350
300
250
200
150
100
50
0
1425
1430
1435
1440
1445
Number [Temp 0]

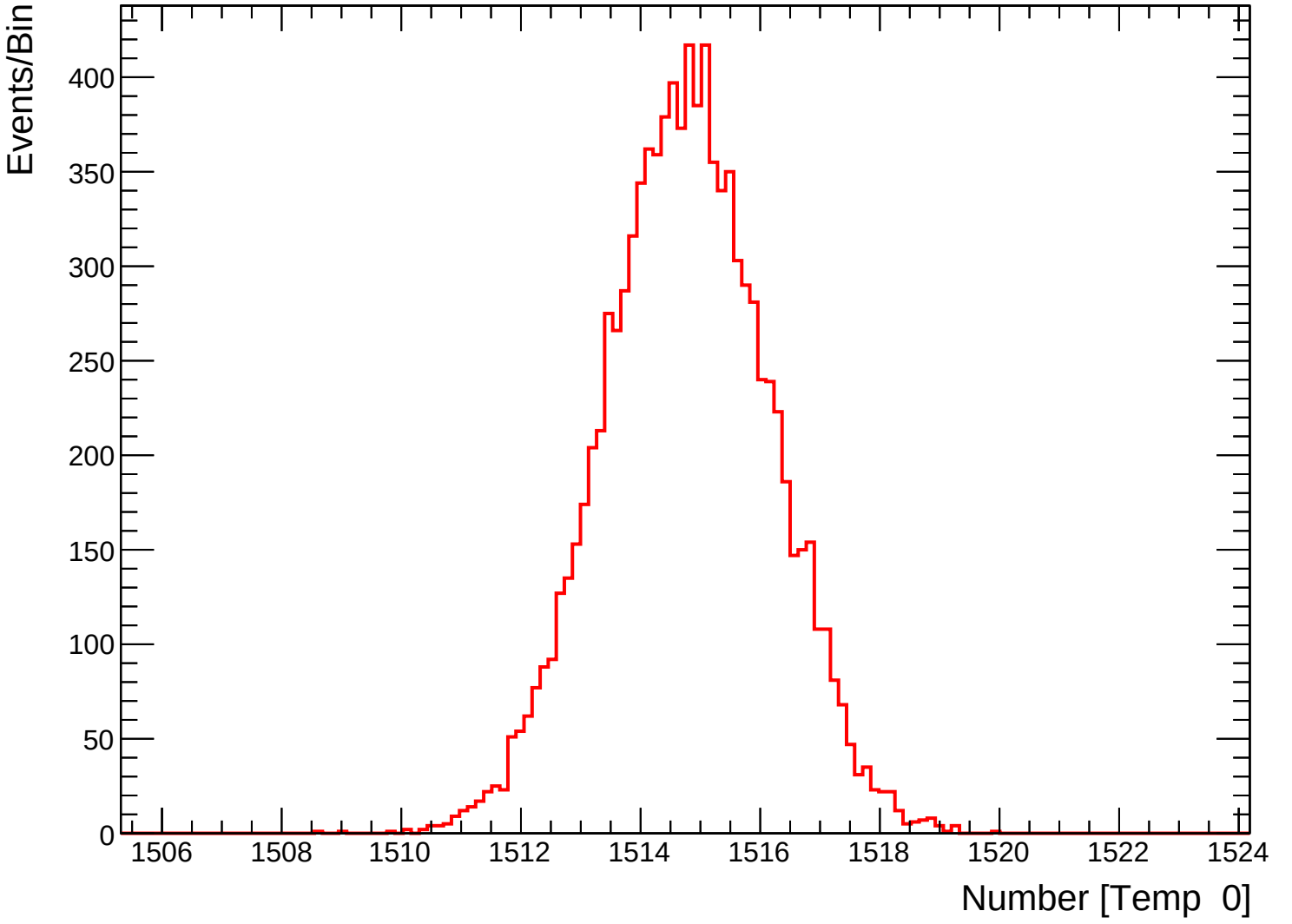

Time 22 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1671.6 ± 41.6)
e⁻+π⁻ (120.5 ± 12.9)
χ² 1.10
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

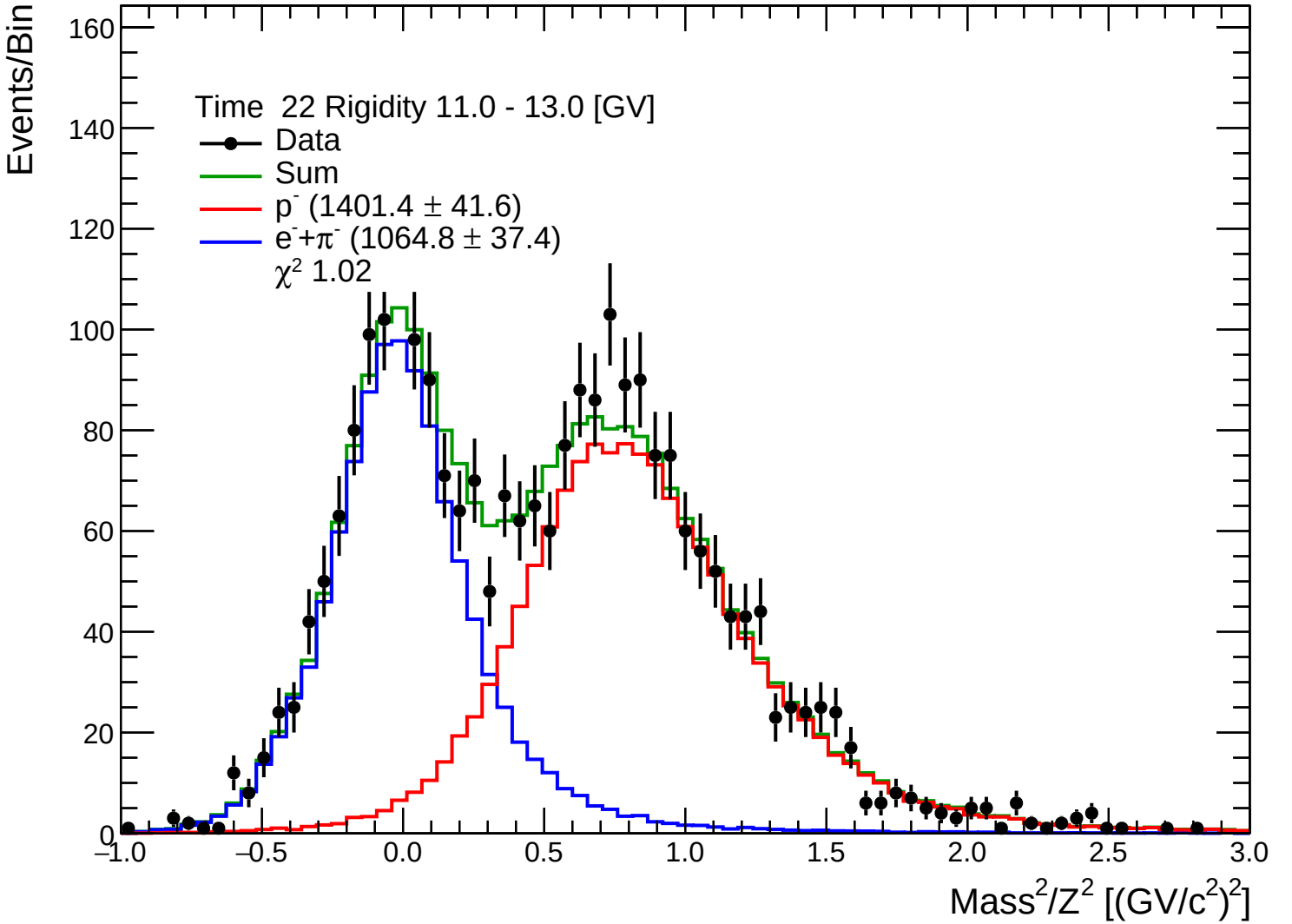

Events/Bin
400
350
300
250
200
150
100
50
0
1666
1668
1670
1672
1674
1676
Number [Temp 0]

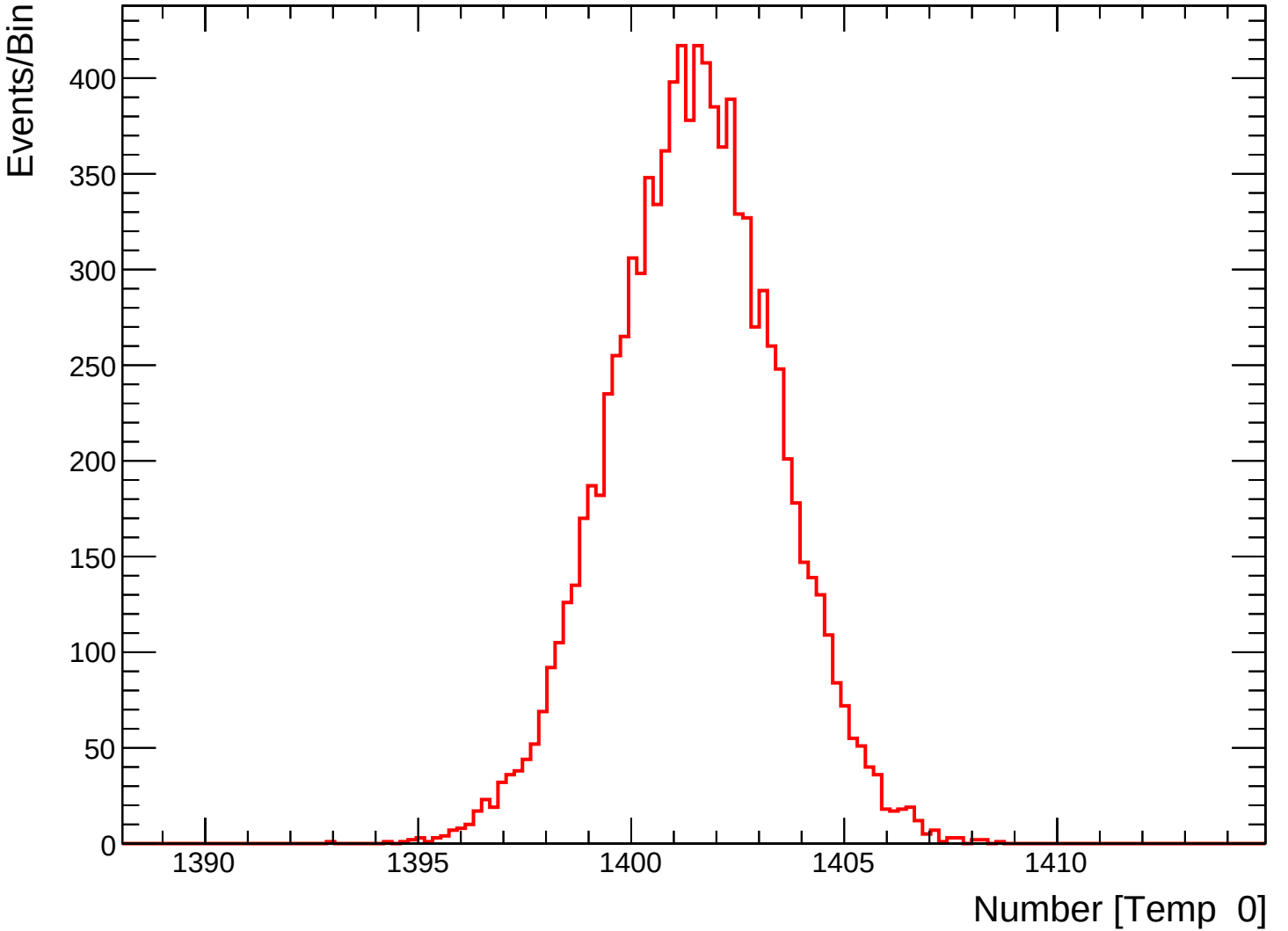

Time 22 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1469.3 ± 39.4)
e⁻+π⁻ (647.7 ± 26.9)
χ² 0.77
Events/Bin
Mass²/Z² [(GV/c²)²]
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

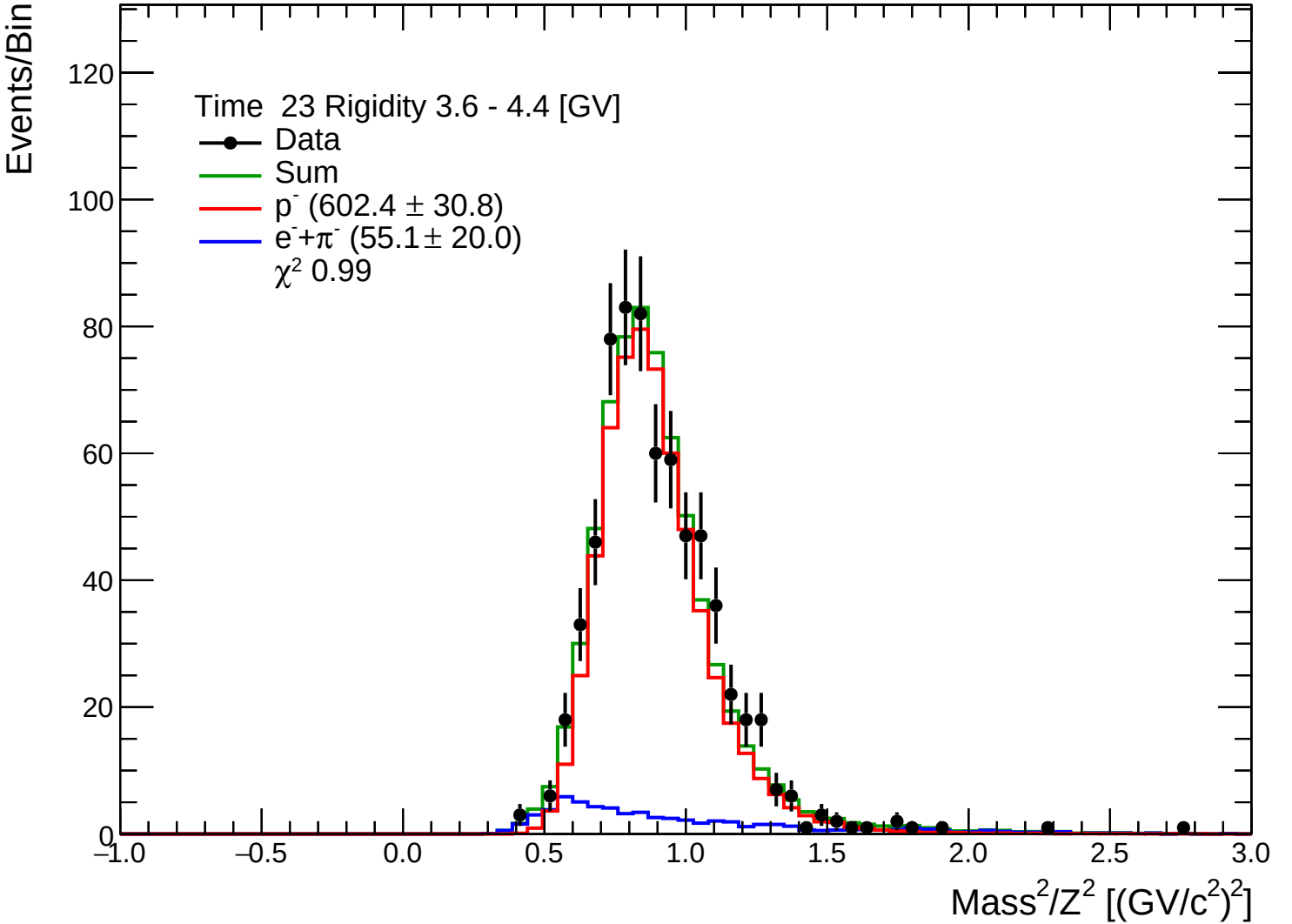

Events/Bin
450
400
350
300
250
200
150
100
50
0
1464
1466
1468
1470
1472
1474
1476
Number [Temp 0]

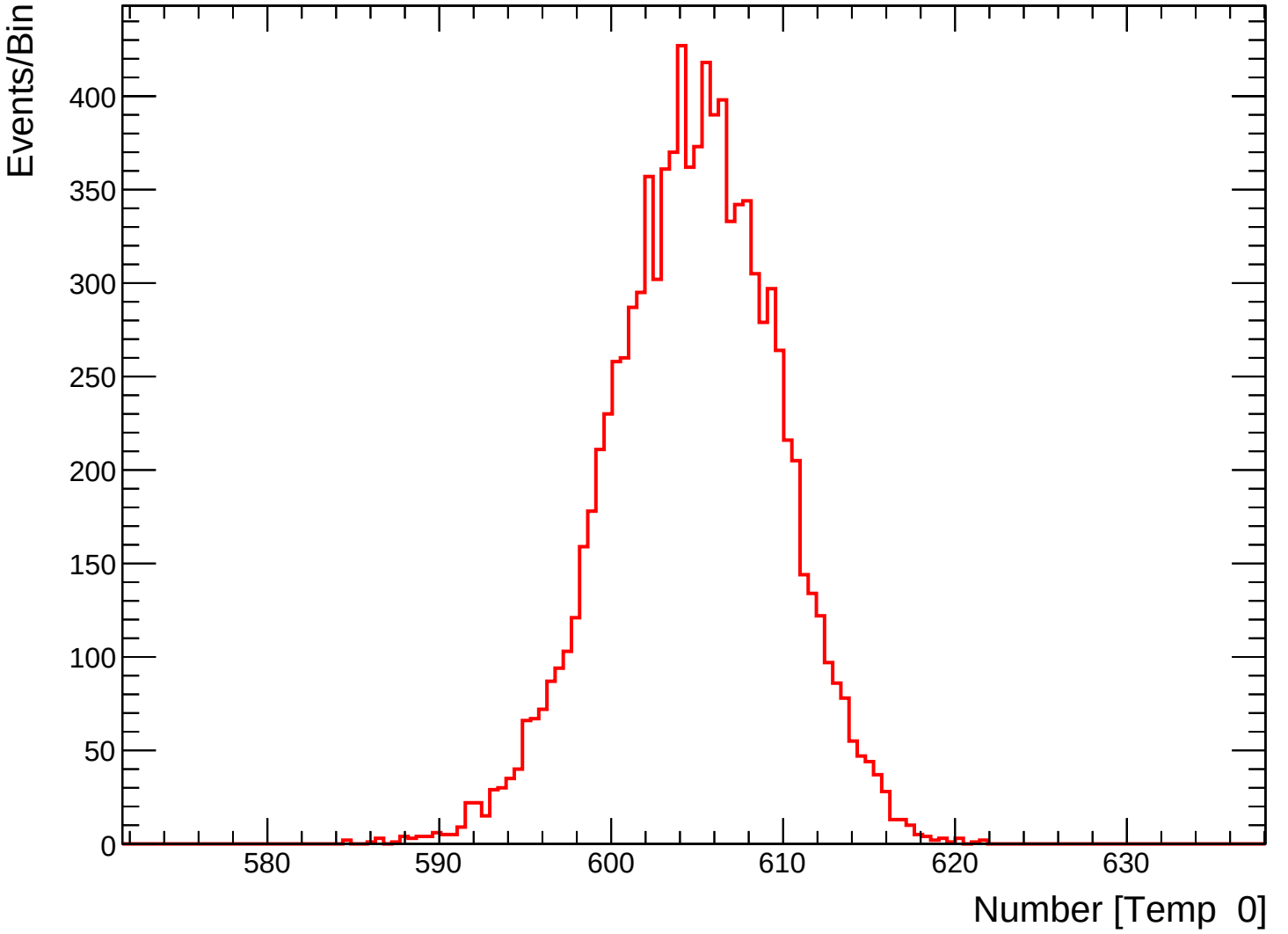

Time 22 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1514.7 ± 41.0)
e⁻+π⁻ (1147.1± 36.4)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

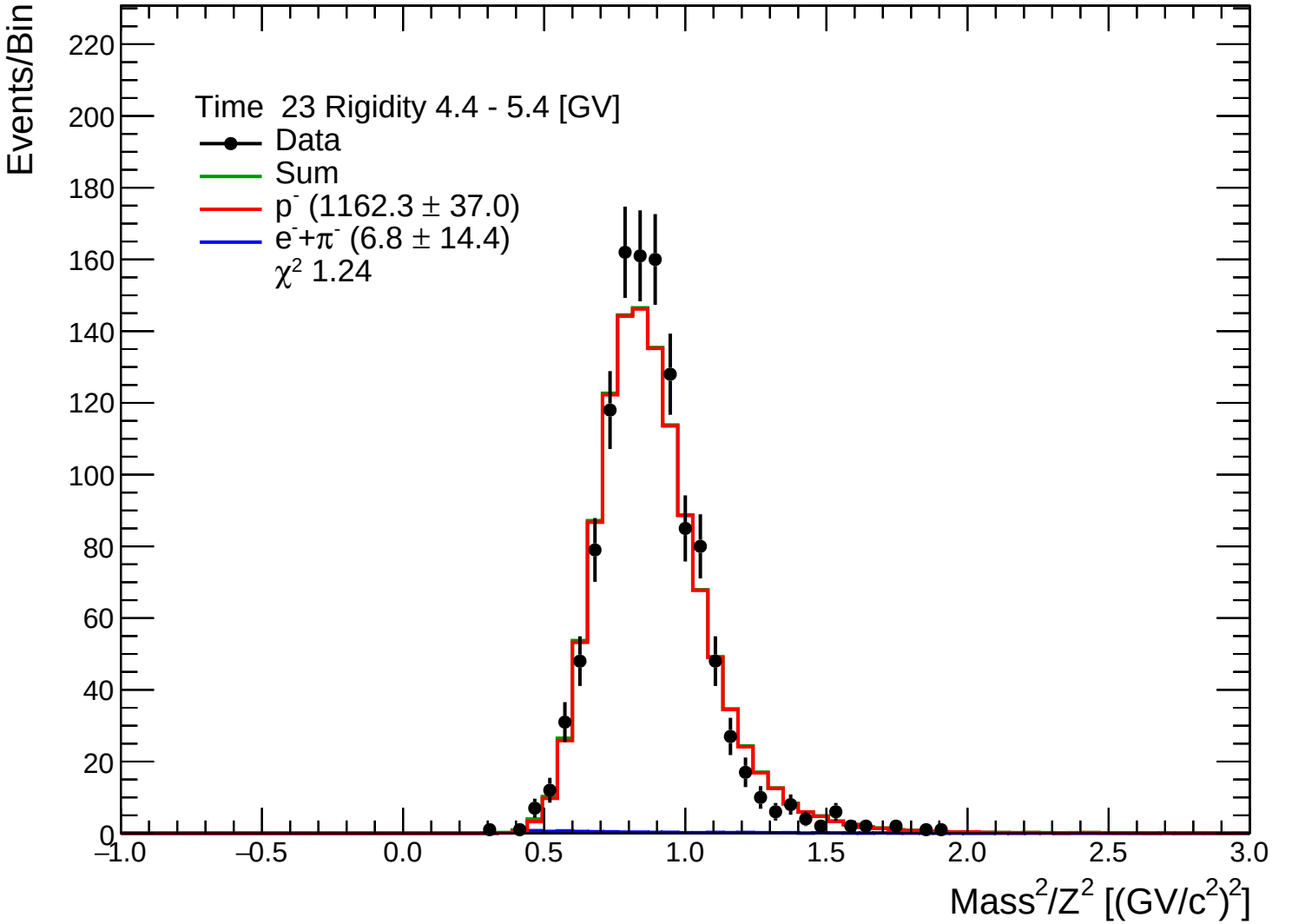

Events/Bin
400
350
300
250
200
150
100
50
0
1506
1508
1510
1512
1514
1516
1518
1520
1522
1524
Number [Temp 0]

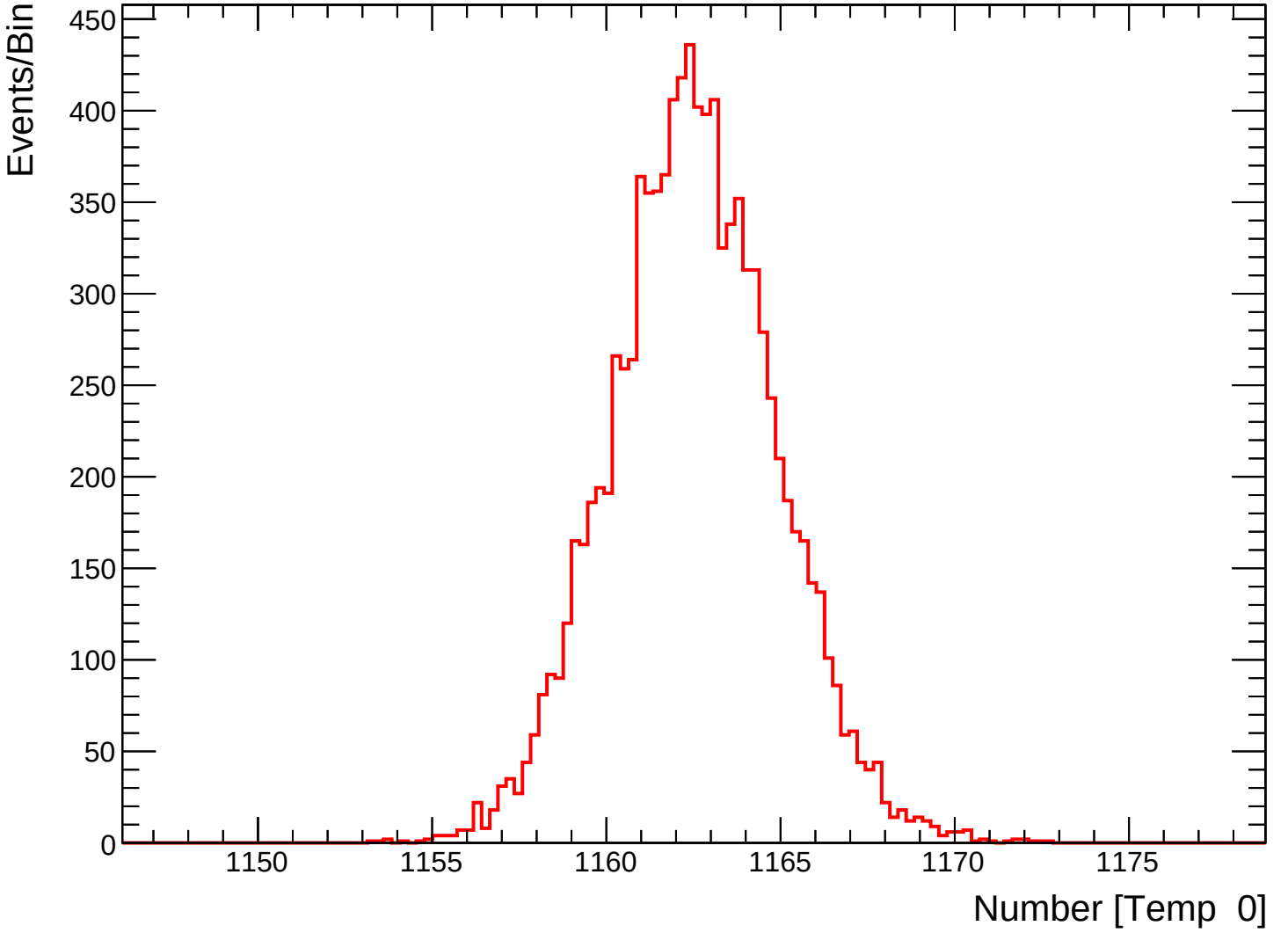

Time 22 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1401.4 ± 41.6)
e⁻+π⁻ (1064.8 ± 37.4)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

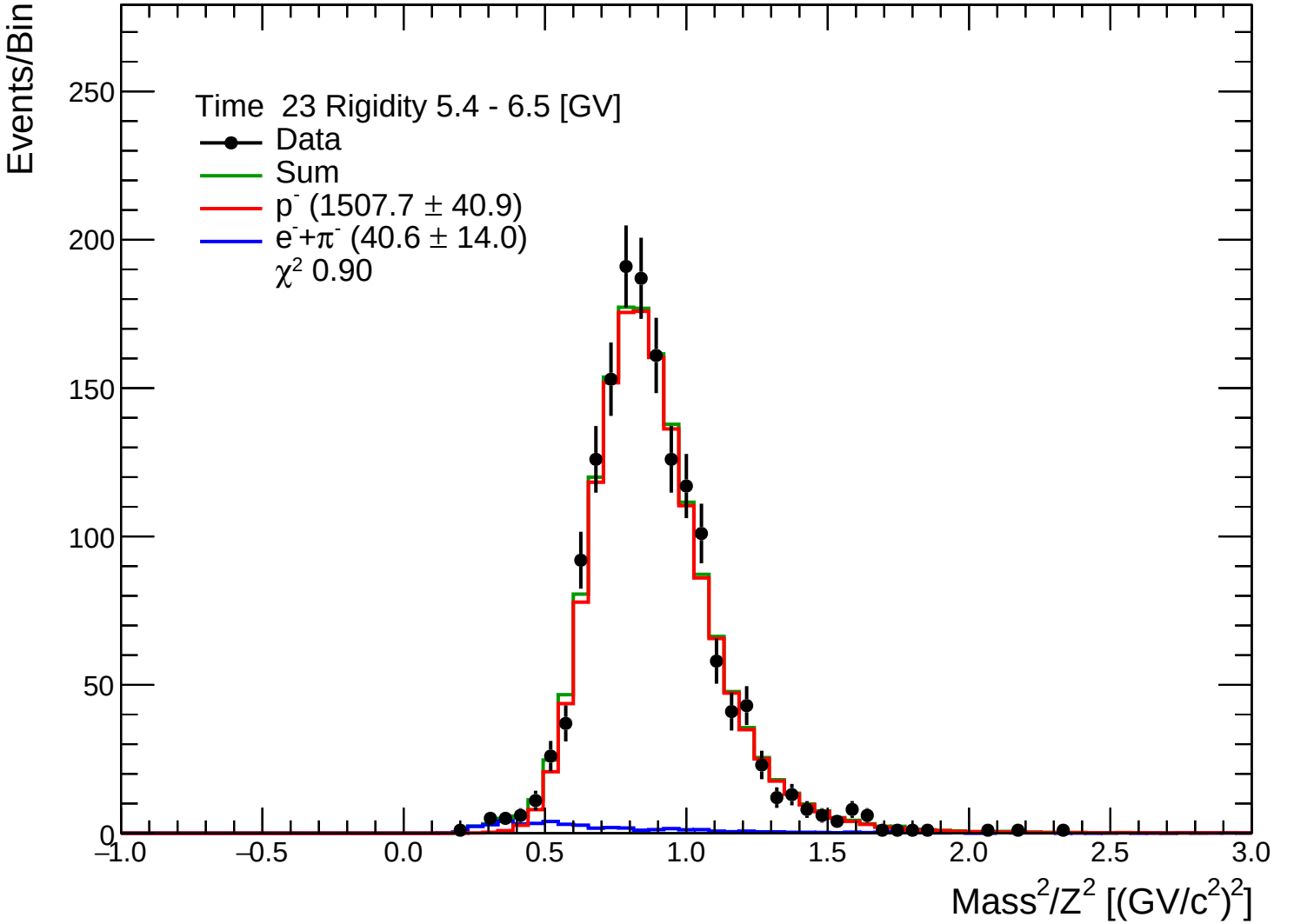

Events/Bin
400
350
300
250
200
150
100
50
0
1390
1395
1400
1405
1410
Number [Temp 0]

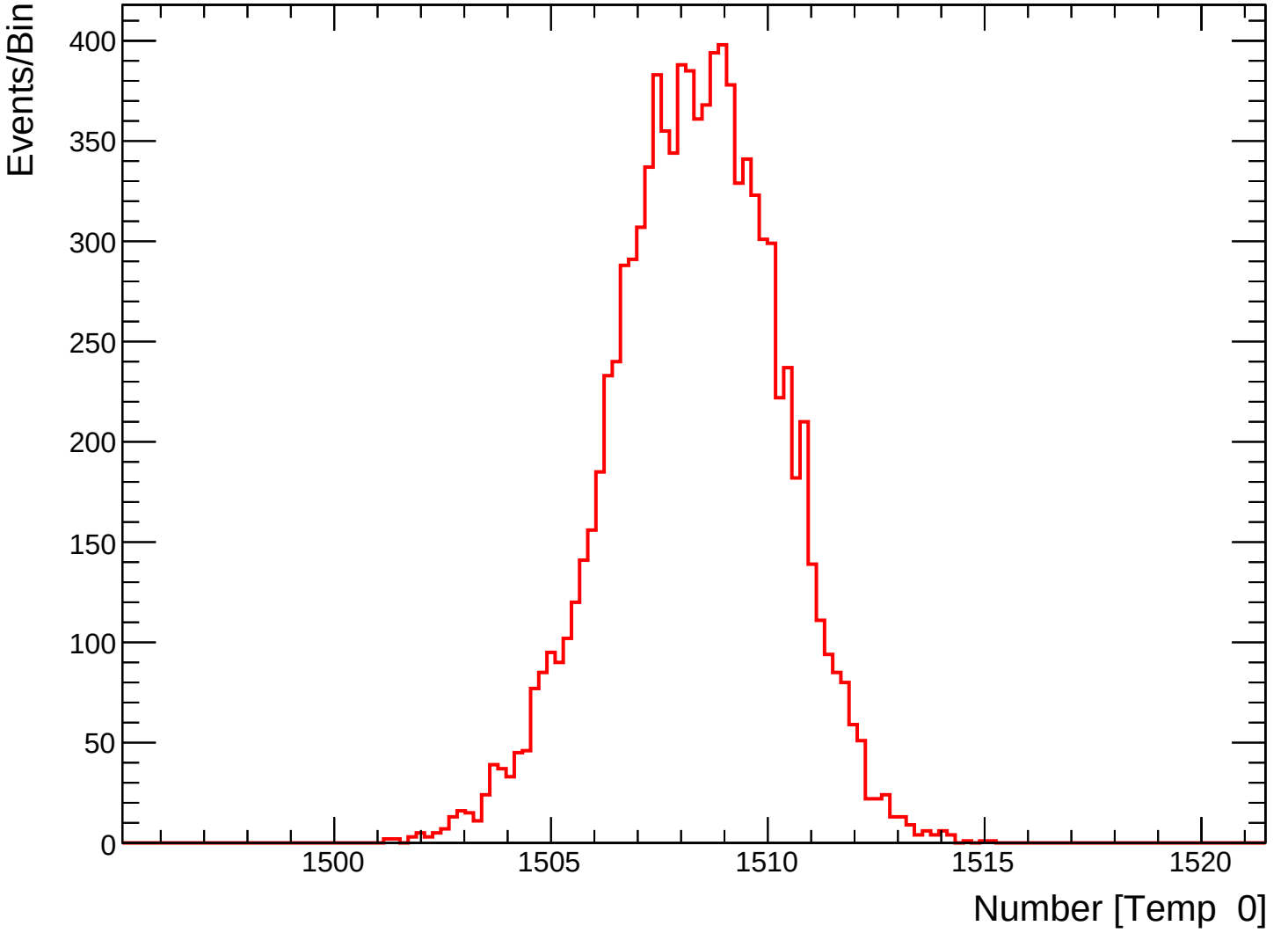

Time 23 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (602.4 ± 30.8)
e⁻+π⁻ (55.1± 20.0)
χ² 0.99
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

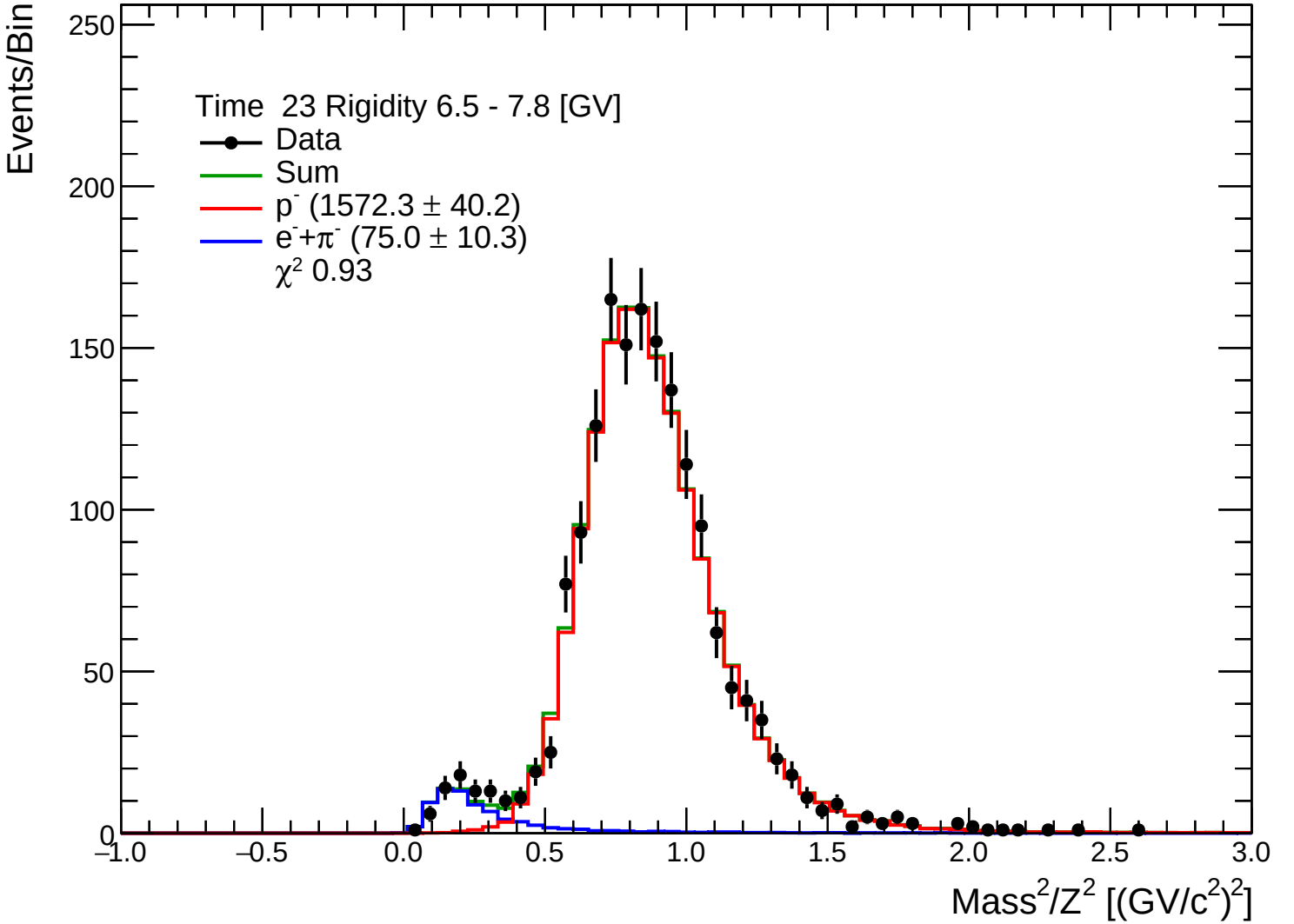

Events/Bin
0
50
100
150
200
250
300
350
400
580
590
600
610
620
630
Number [Temp 0]

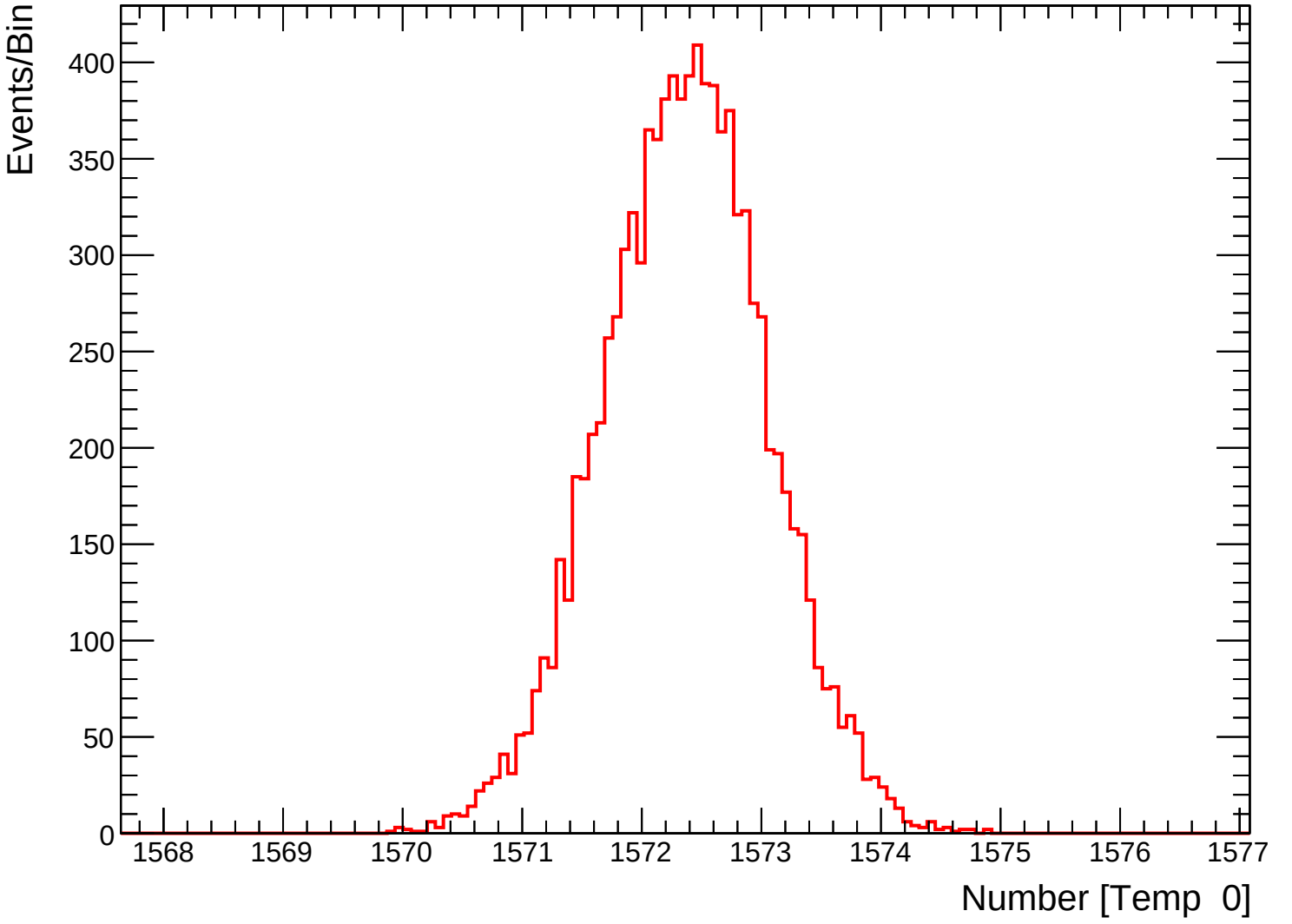

Time 23 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1162.3 ± 37.0)
e⁻+π⁻ (6.8 ± 14.4)
χ² 1.24
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

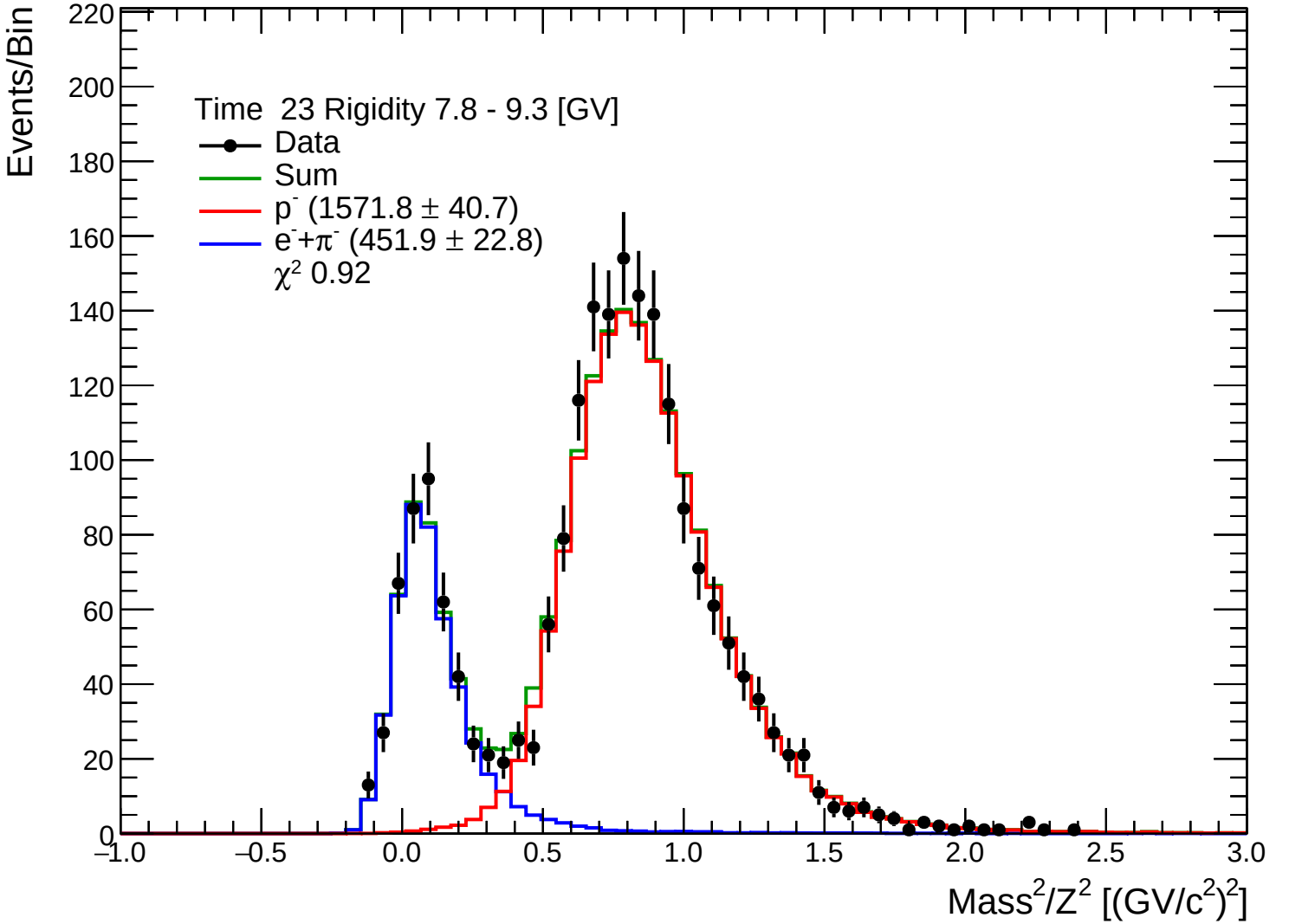

Events/Bin
450
400
350
300
250
200
150
100
50
0
1150
1155
1160
1165
1170
1175
Number [Temp 0]

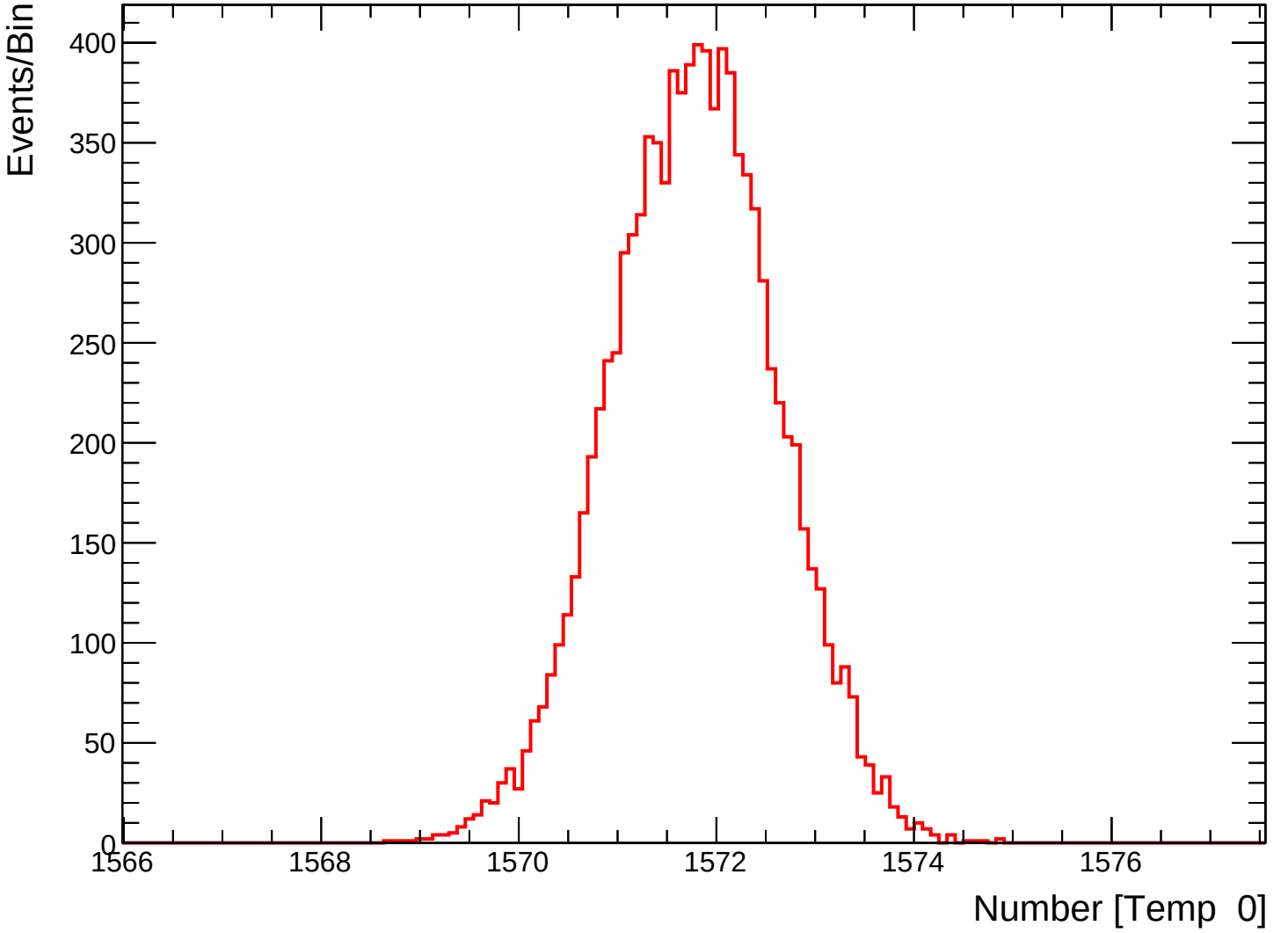

Time 23 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1507.7 ± 40.9)
e⁻+π⁻ (40.6 ± 14.0)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

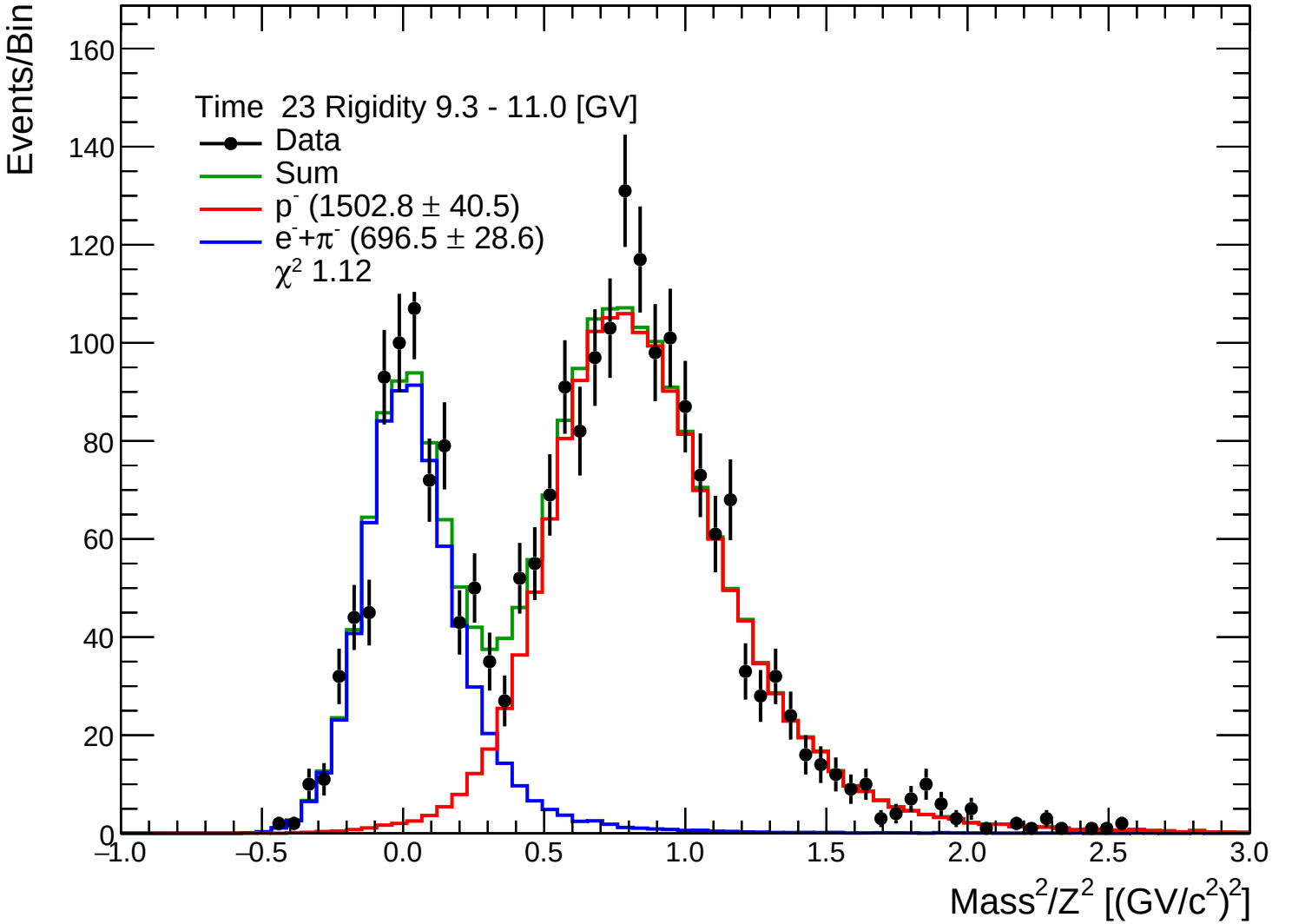

Events/Bin
400
350
300
250
200
150
100
50
0
1500
1505
1510
1515
1520
Number [Temp 0]

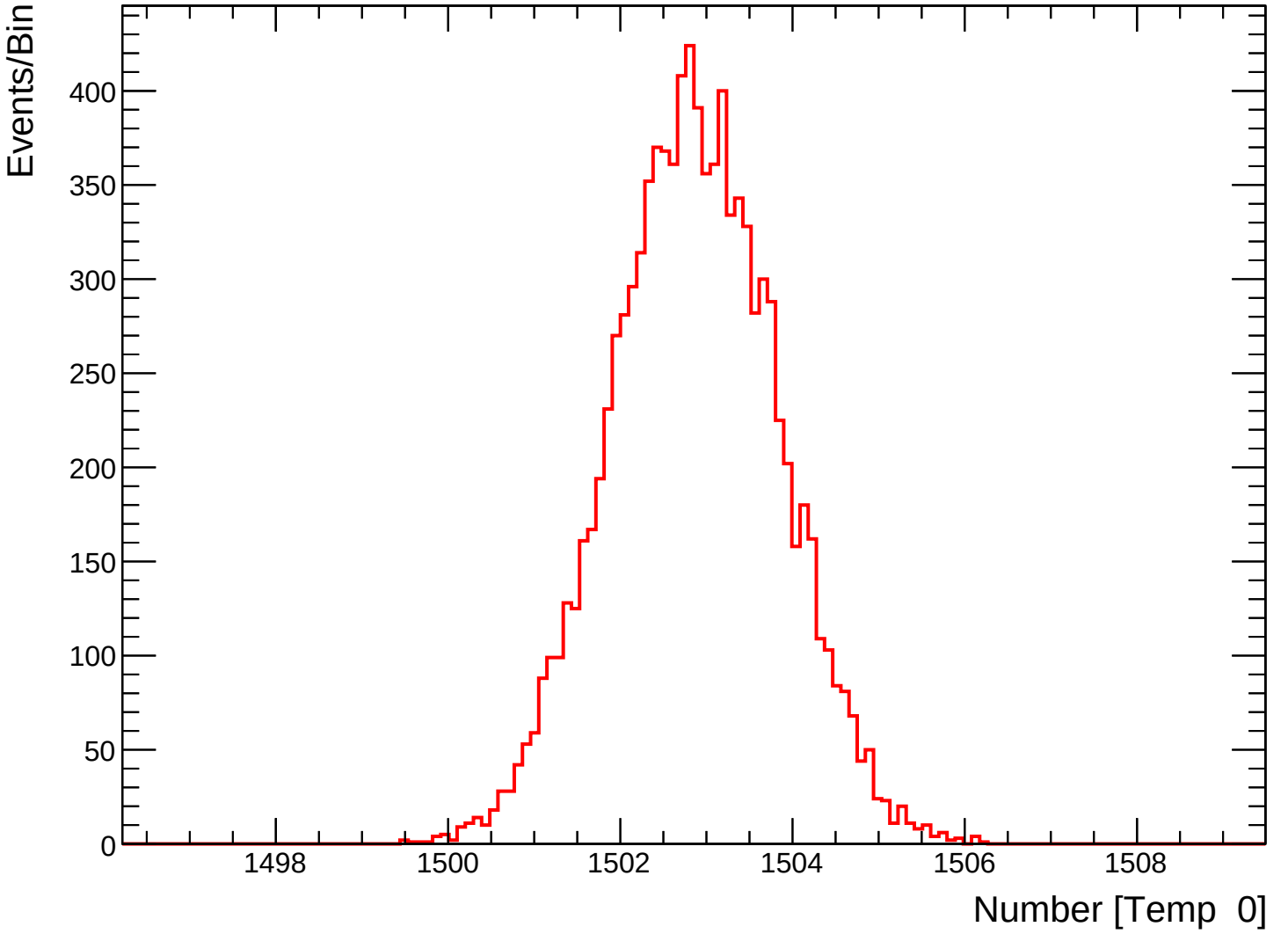

Time 23 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1572.3 ± 40.2)
e⁻+π⁻ (75.0 ± 10.3)
χ² 0.93
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

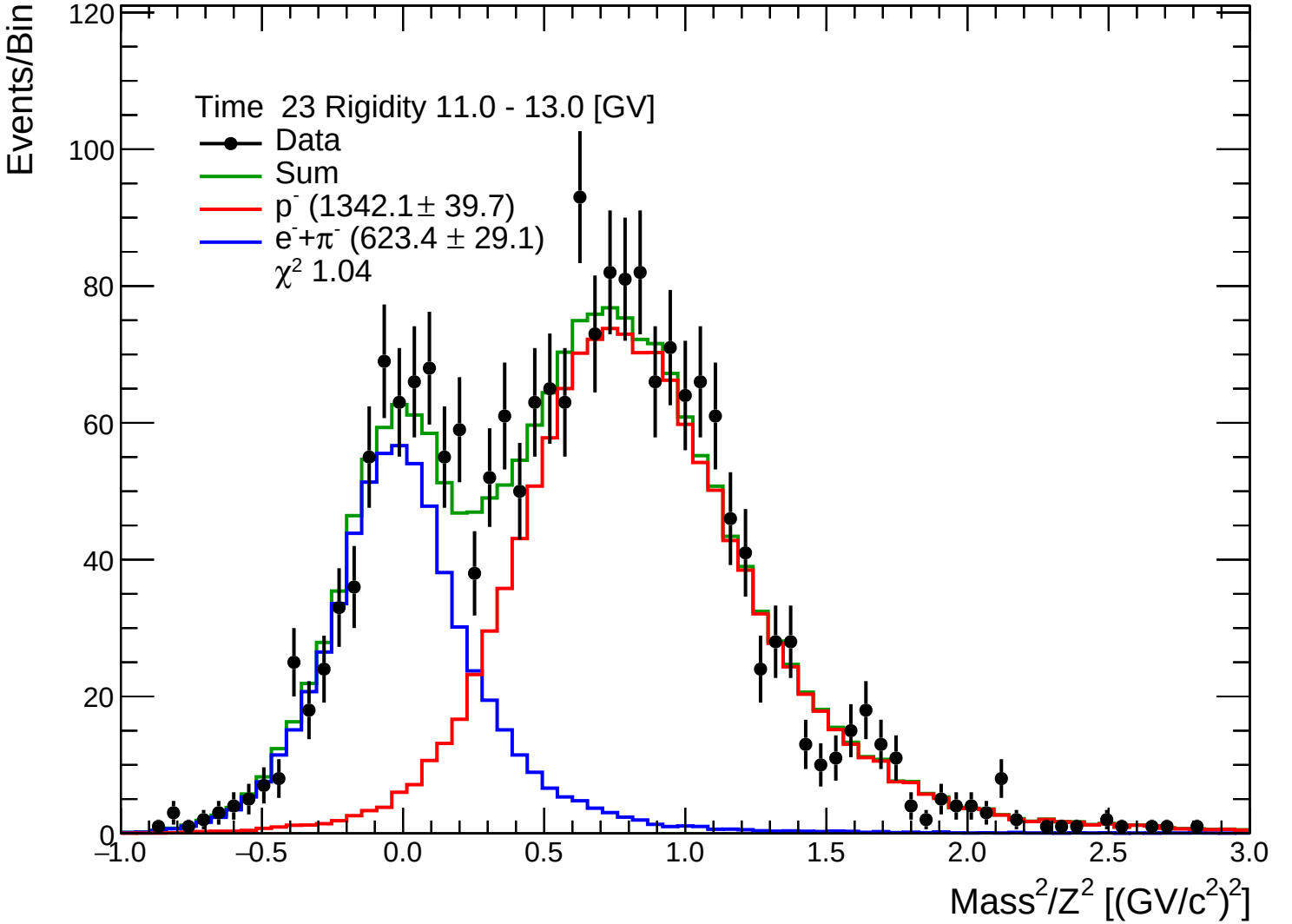

Events/Bin
400
350
300
250
200
150
100
50
0
1568
1569
1570
1571
1572
1573
1574
1575
1576
1577
Number [Temp 0]

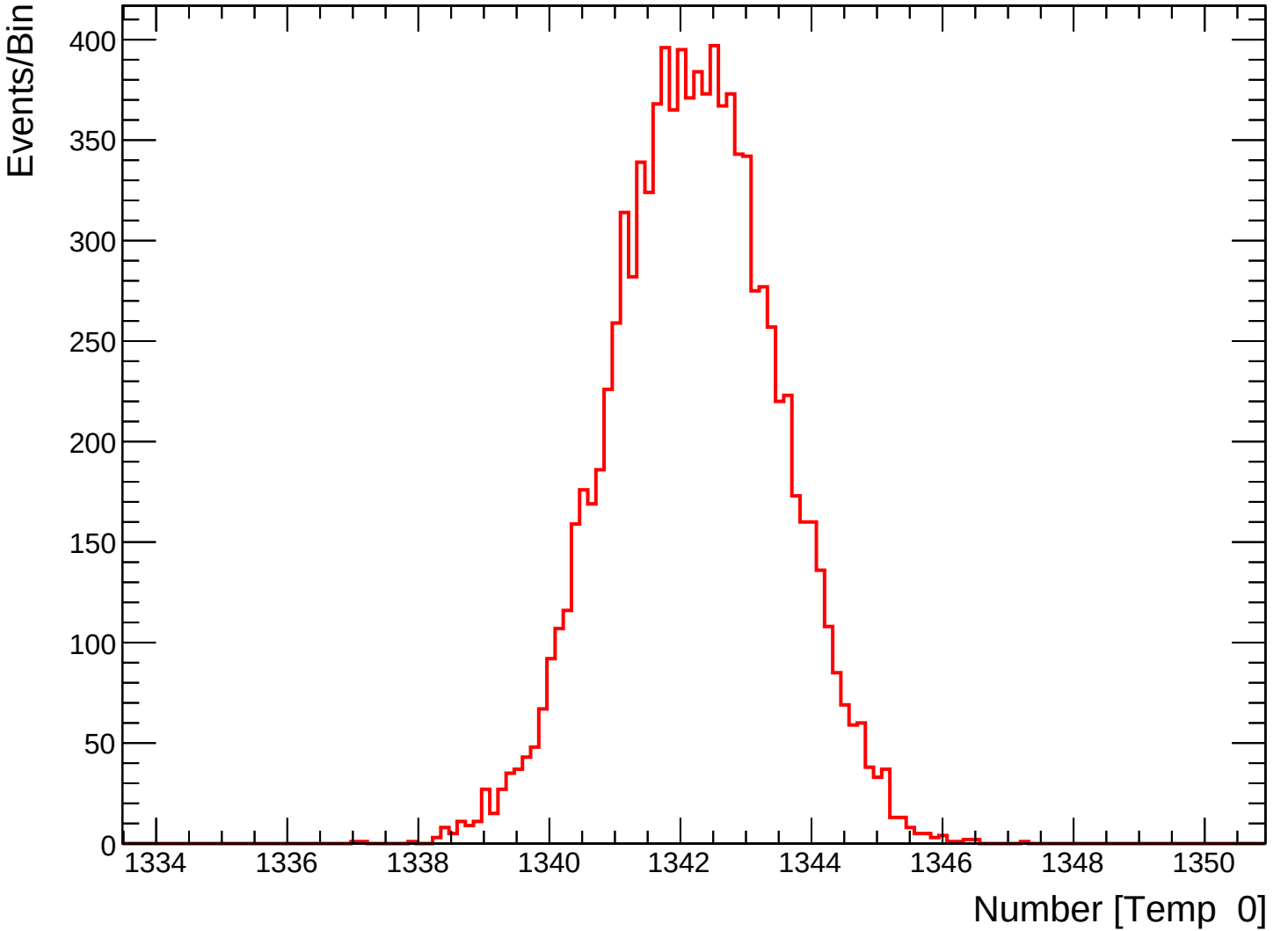

Time 23 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1571.8 ± 40.7)
e⁻+π⁻ (451.9 ± 22.8)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

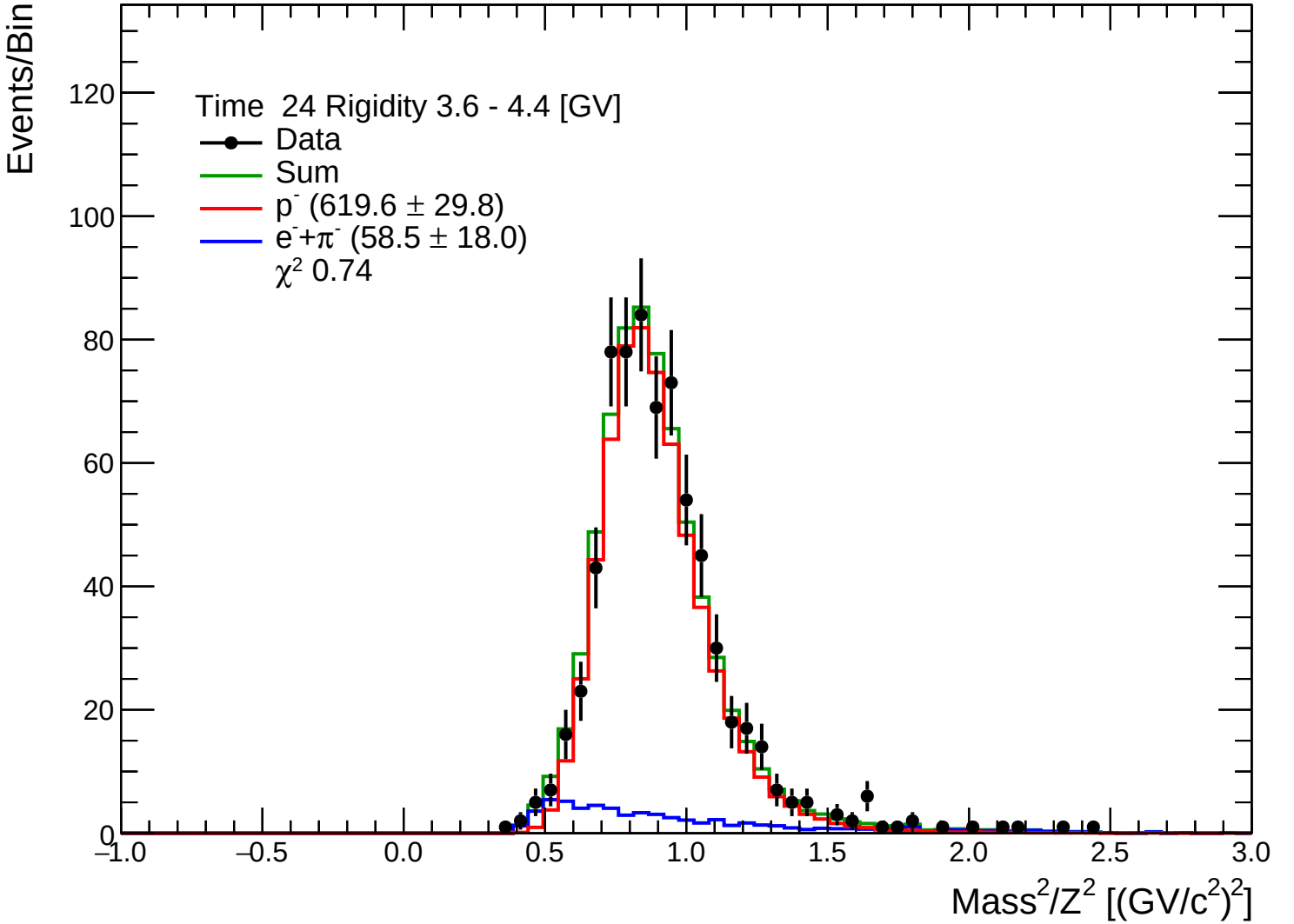

Events/Bin
400
350
300
250
200
150
100
50
0
1566
1568
1570
1572
1574
1576
Number [Temp 0]

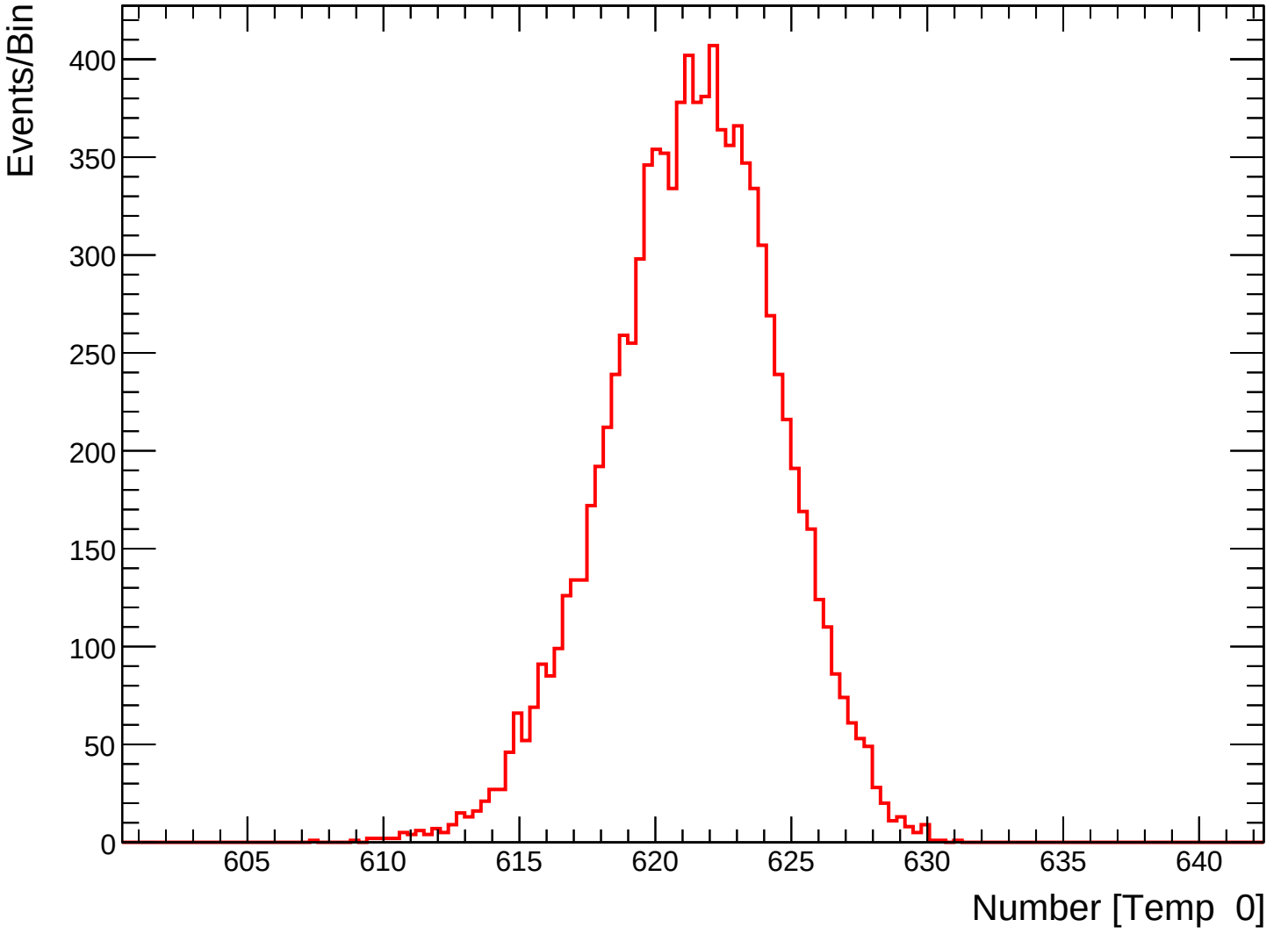

Time 23 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1502.8 ± 40.5)
e⁻+π⁻ (696.5 ± 28.6)
χ² 1.12
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

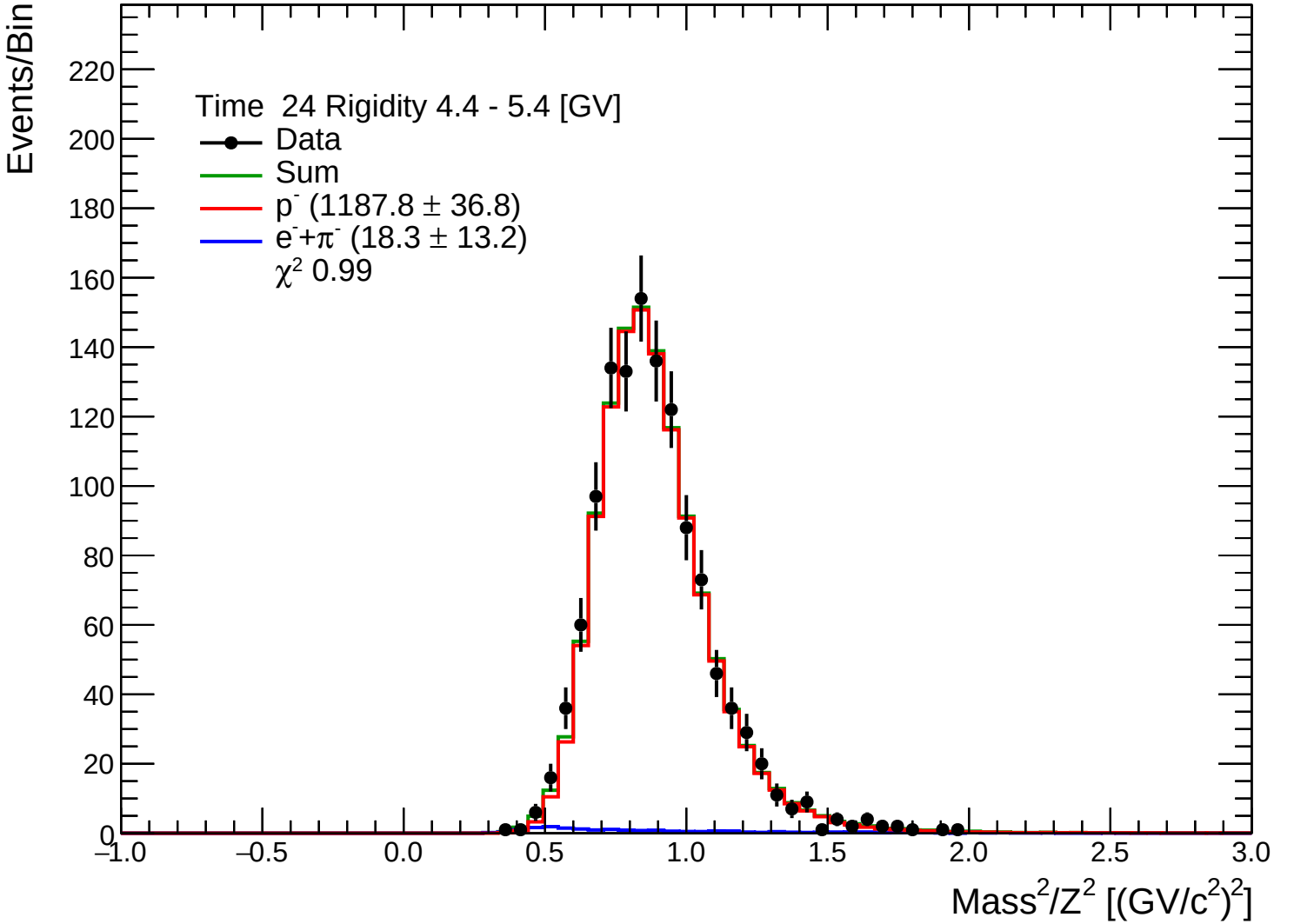

Events/Bin
400
350
300
250
200
150
100
50
0
1498
1500
1502
1504
1506
1508
Number [Temp 0]

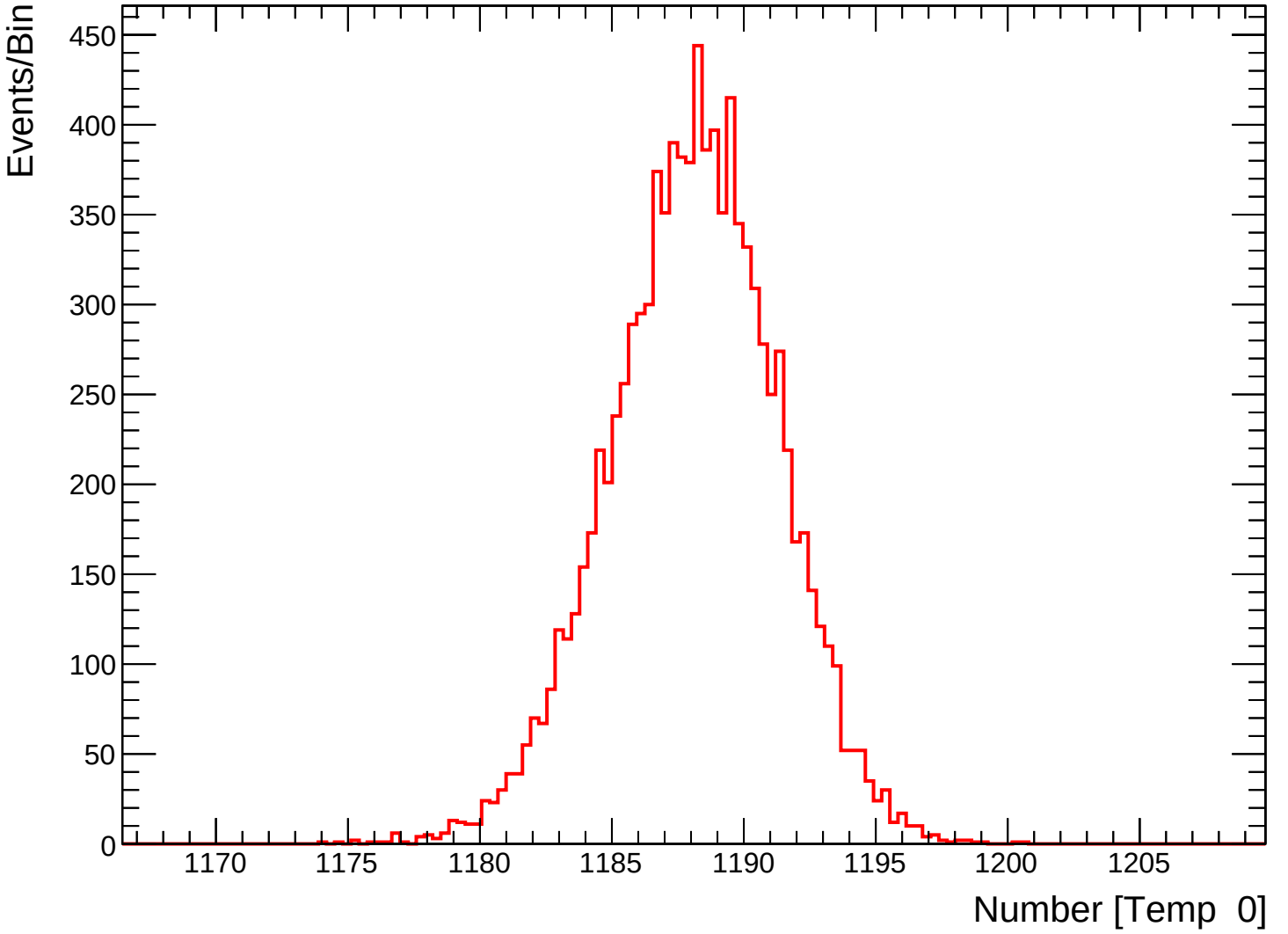

Time 23 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1342.1± 39.7)
e⁻+π⁻ (623.4 ± 29.1)
χ² 1.04
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

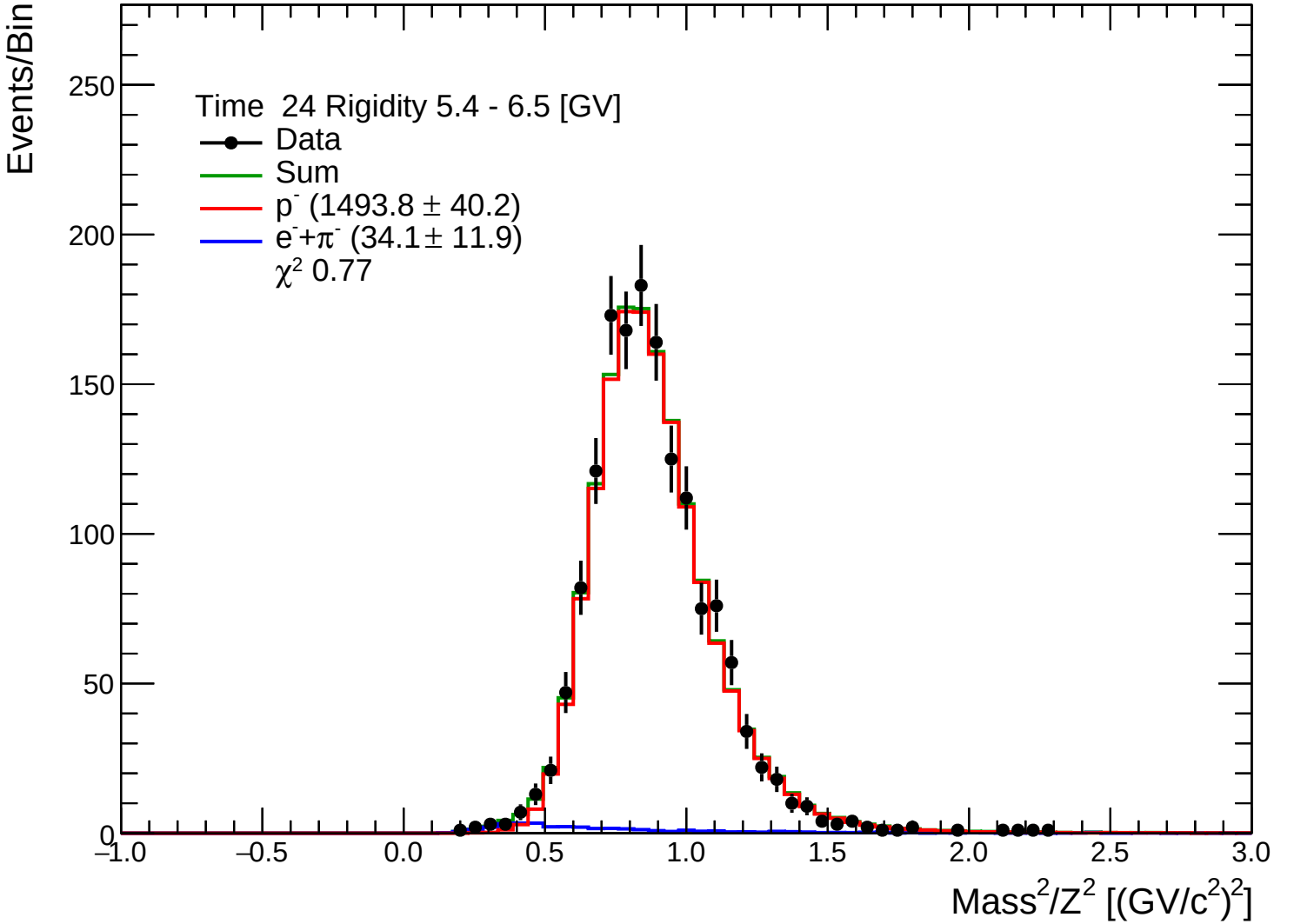

Events/Bin
400
350
300
250
200
150
100
50
0
1334
1336
1338
1340
1342
1344
1346
1348
1350
Number [Temp 0]

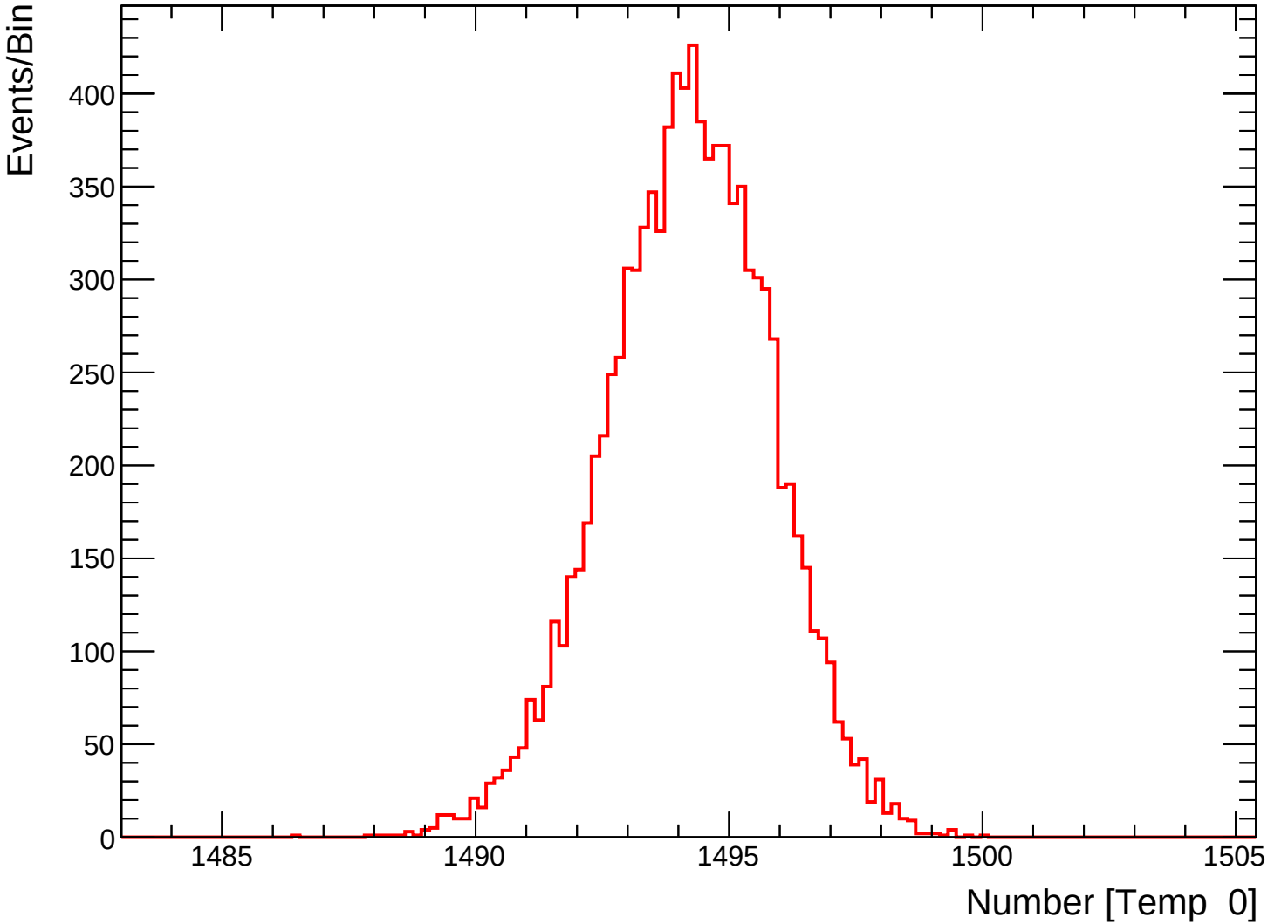

Time 24 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (619.6 ± 29.8)
e⁻+π⁻ (58.5 ± 18.0)
χ² 0.74
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

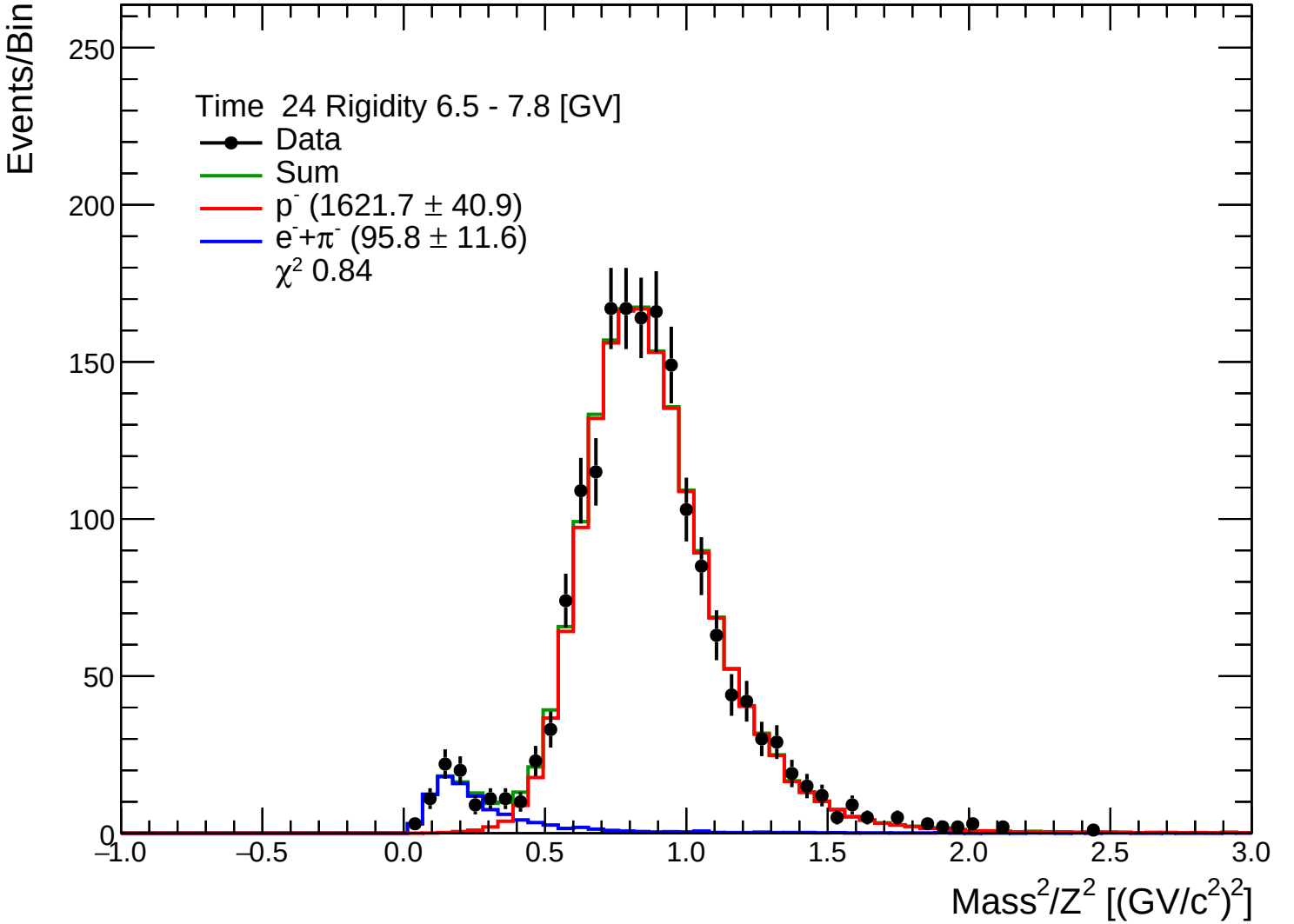

Events/Bin
400
350
300
250
200
150
100
50
0
605
610
615
620
625
630
635
640
Number [Temp 0]

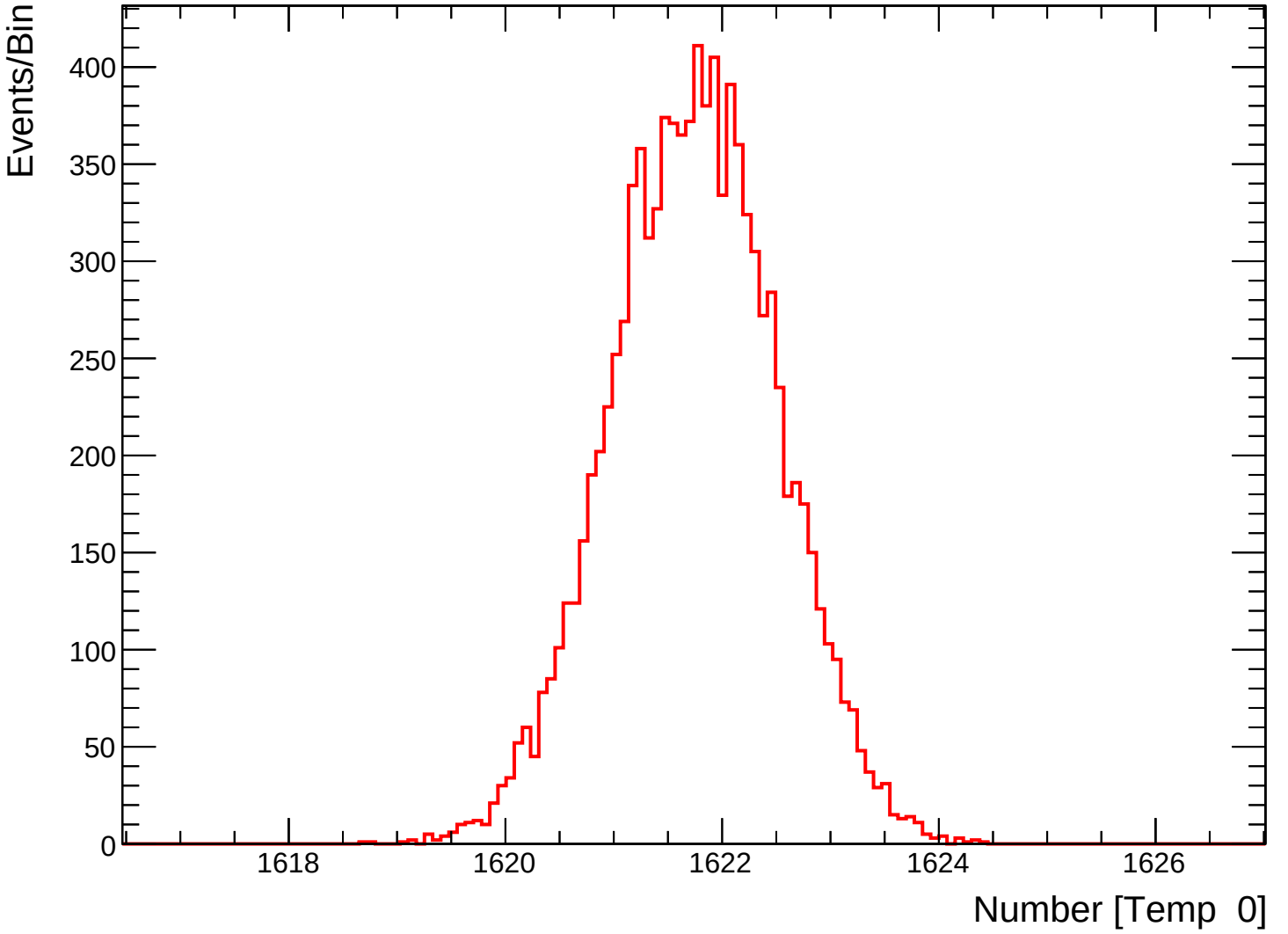

Time 24 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1187.8 ± 36.8)
e⁻+π⁻ (18.3 ± 13.2)
χ² 0.99
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

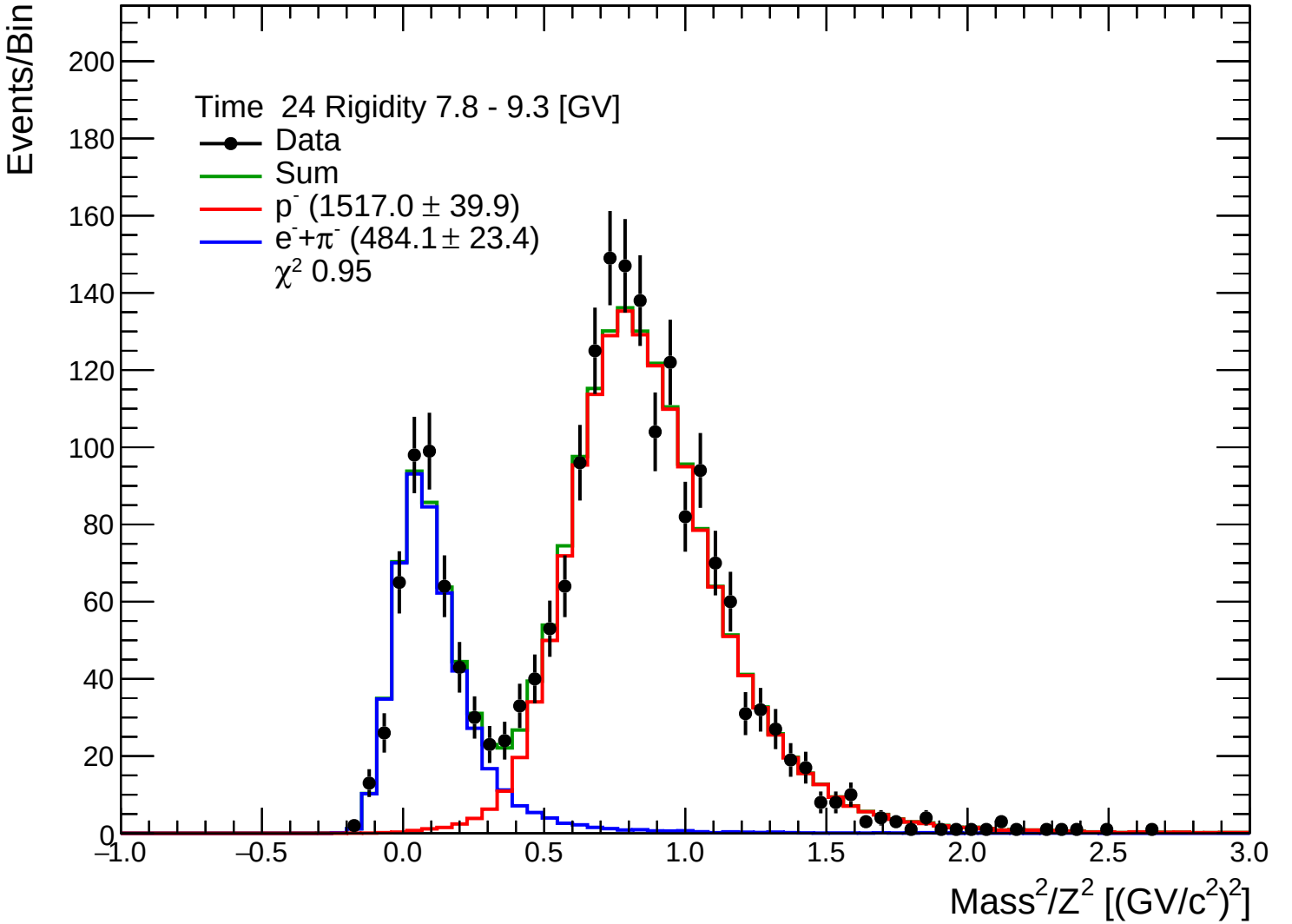

Events/Bin
450
400
350
300
250
200
150
100
50
0
1170
1175
1180
1185
1190
1195
1200
1205
Number [Temp 0]

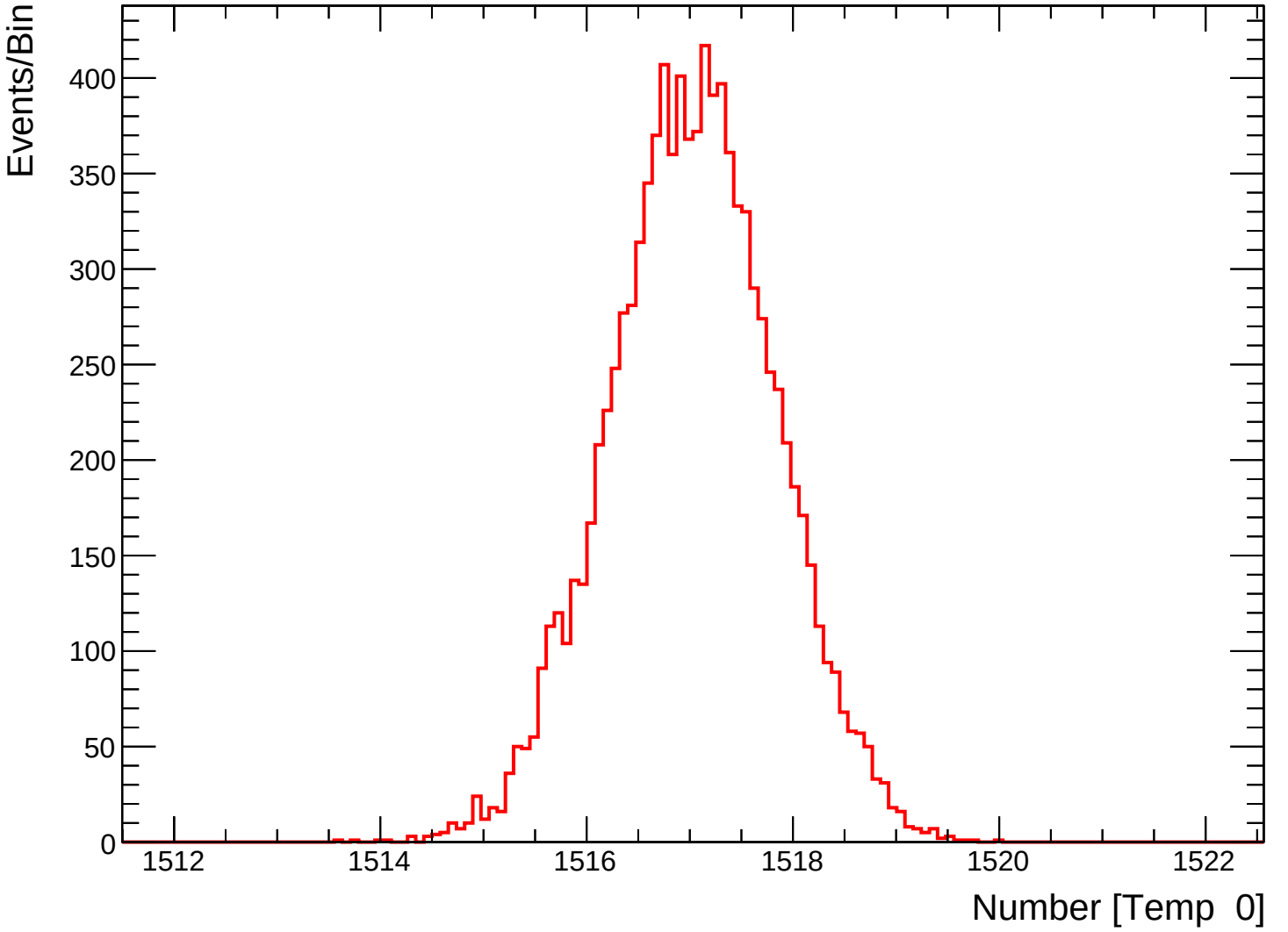

Time 24 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1493.8 ± 40.2)
e⁻+π⁻ (34.1± 11.9)
χ² 0.77
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

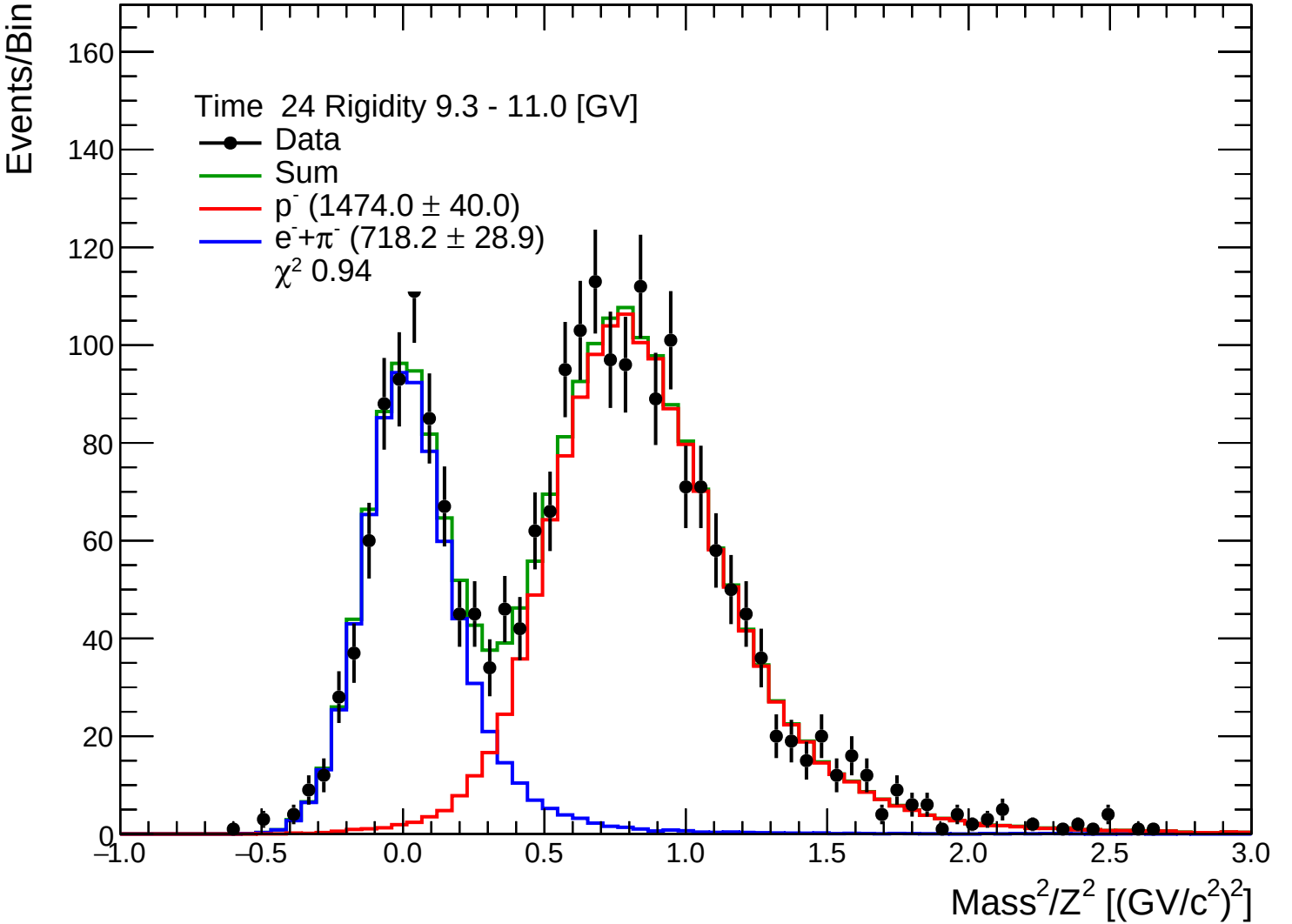

Events/Bin
400
350
300
250
200
150
100
50
0
1485
1490
1495
1500
1505
Number [Temp 0]

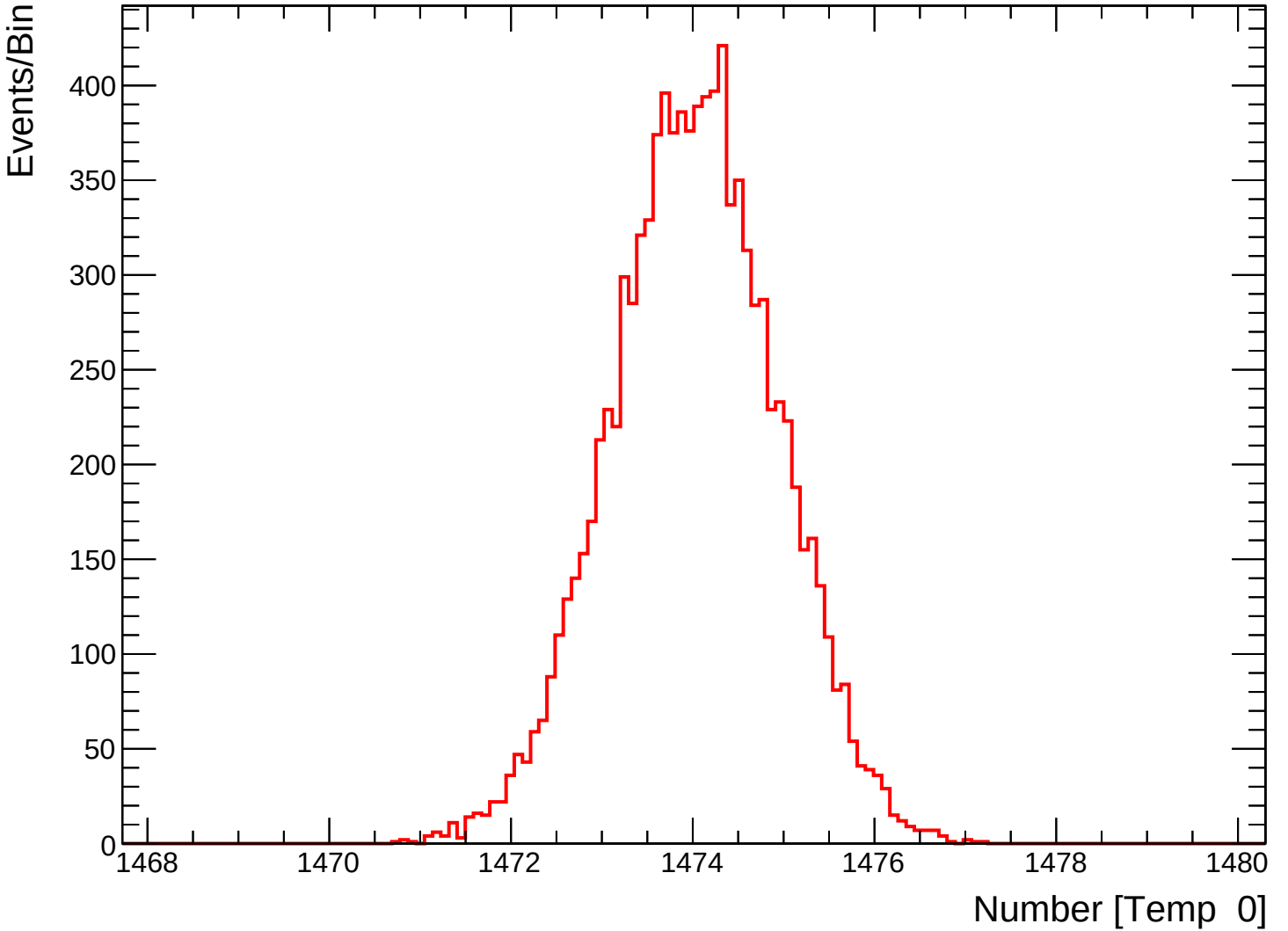

Time 24 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1621.7 ± 40.9)
e⁻+π⁻ (95.8 ± 11.6)
χ² 0.84
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

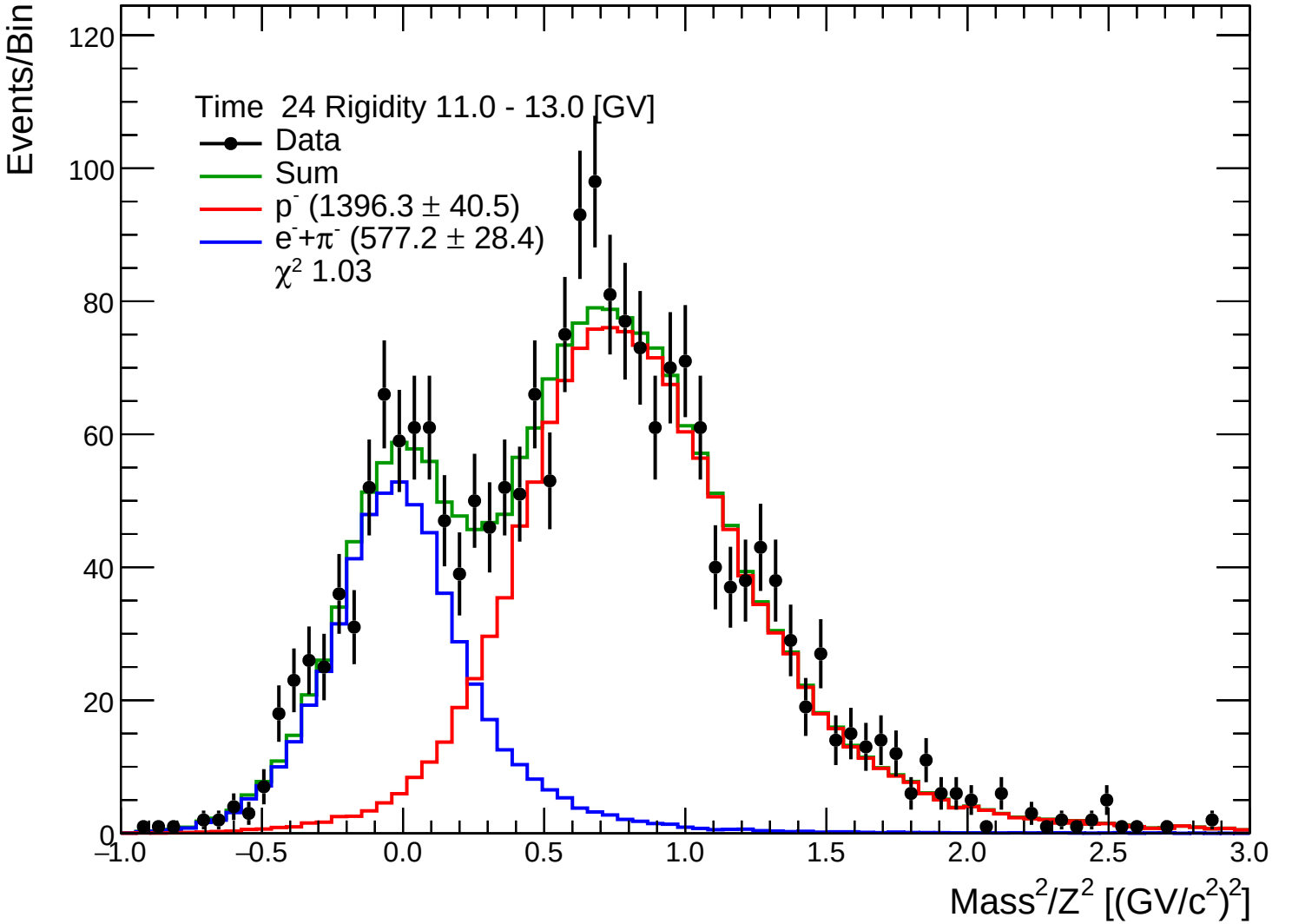

Events/Bin
400
350
300
250
200
150
100
50
0
1618
1620
1622
1624
1626
Number [Temp 0]

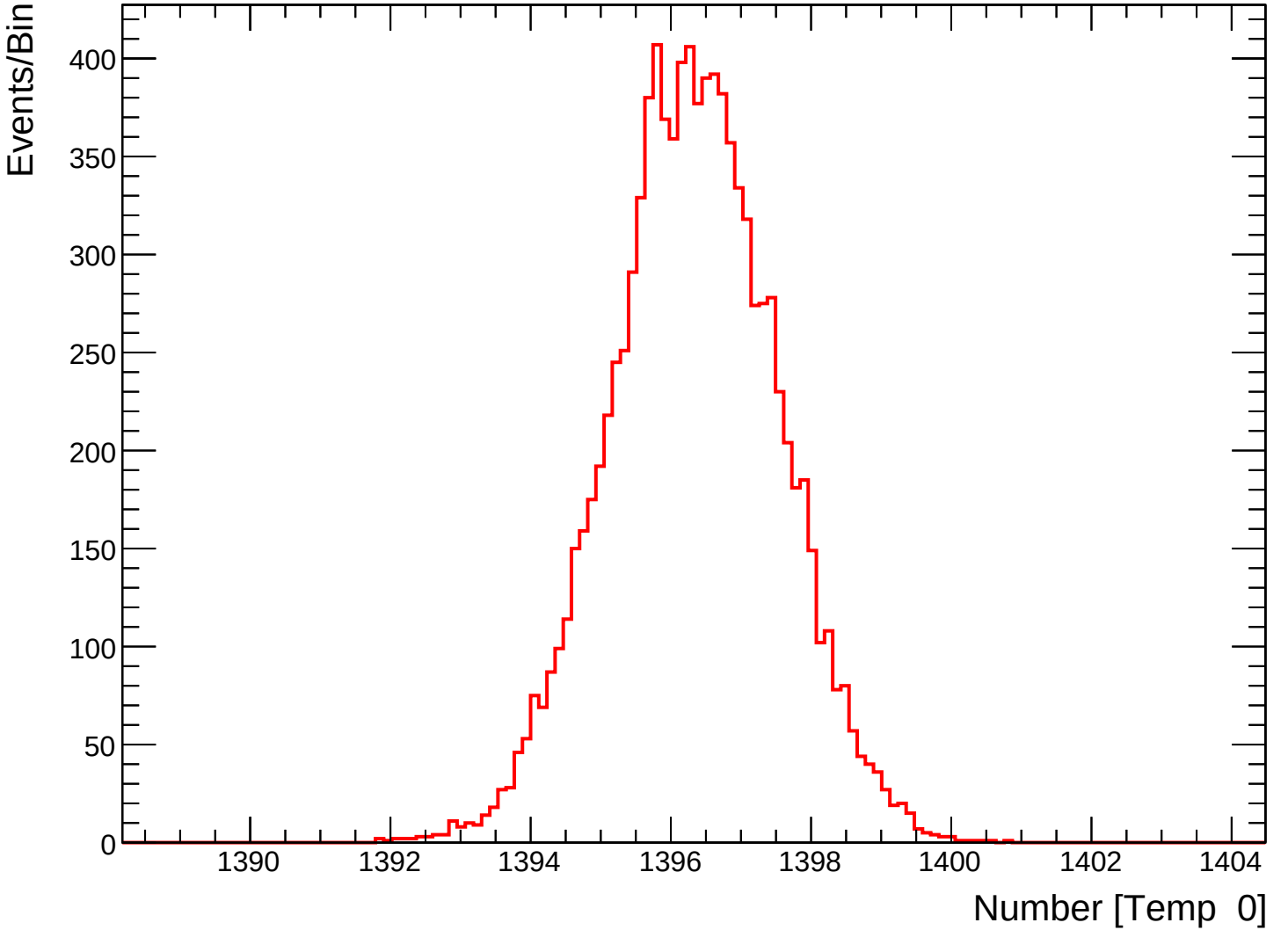

Time 24 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1517.0 ± 39.9)
e⁻+π⁻ (484.1 ± 23.4)
χ² 0.95
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

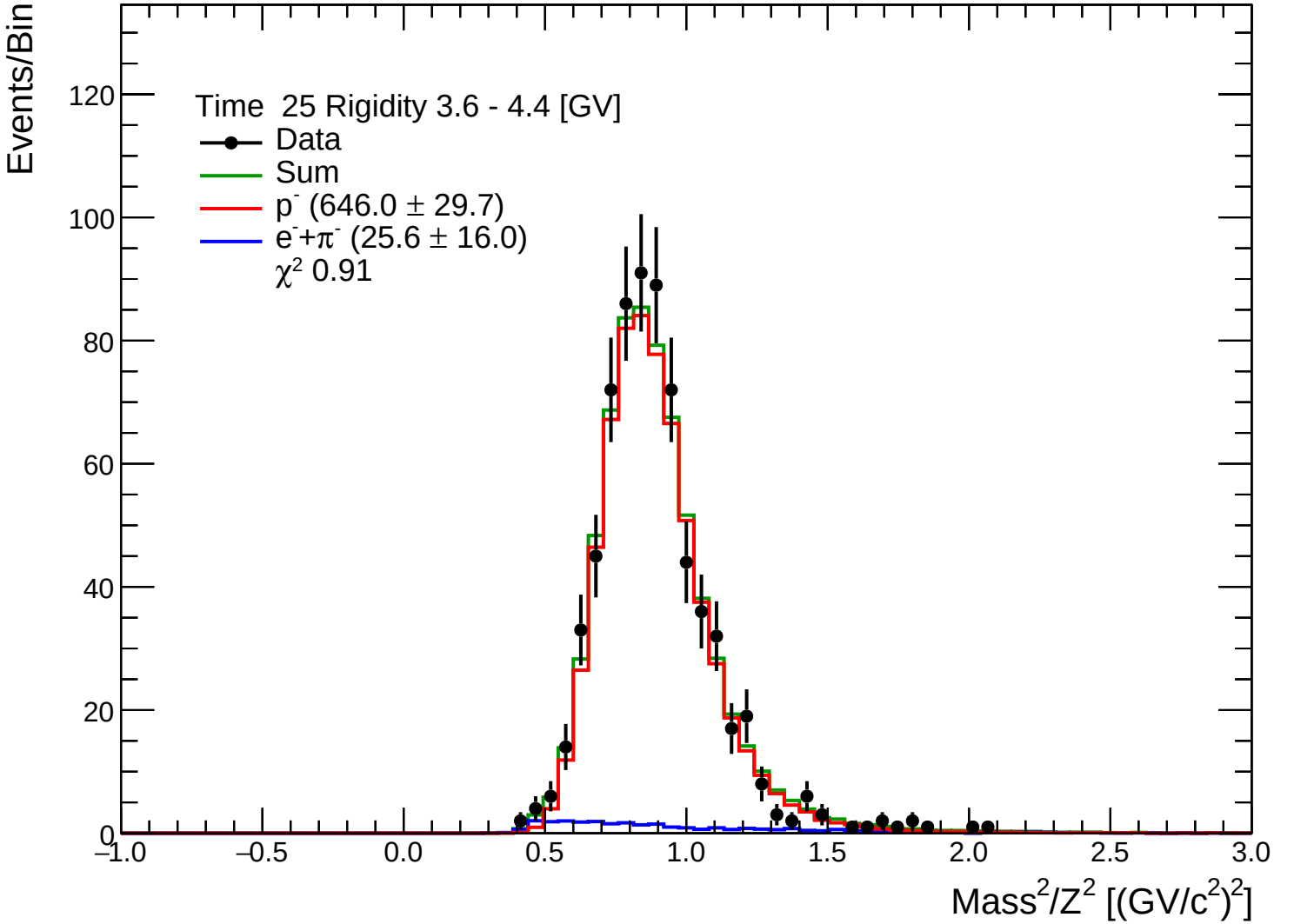

Events/Bin
400
350
300
250
200
150
100
50
0
1512
1514
1516
1518
1520
1522
Number [Temp 0]

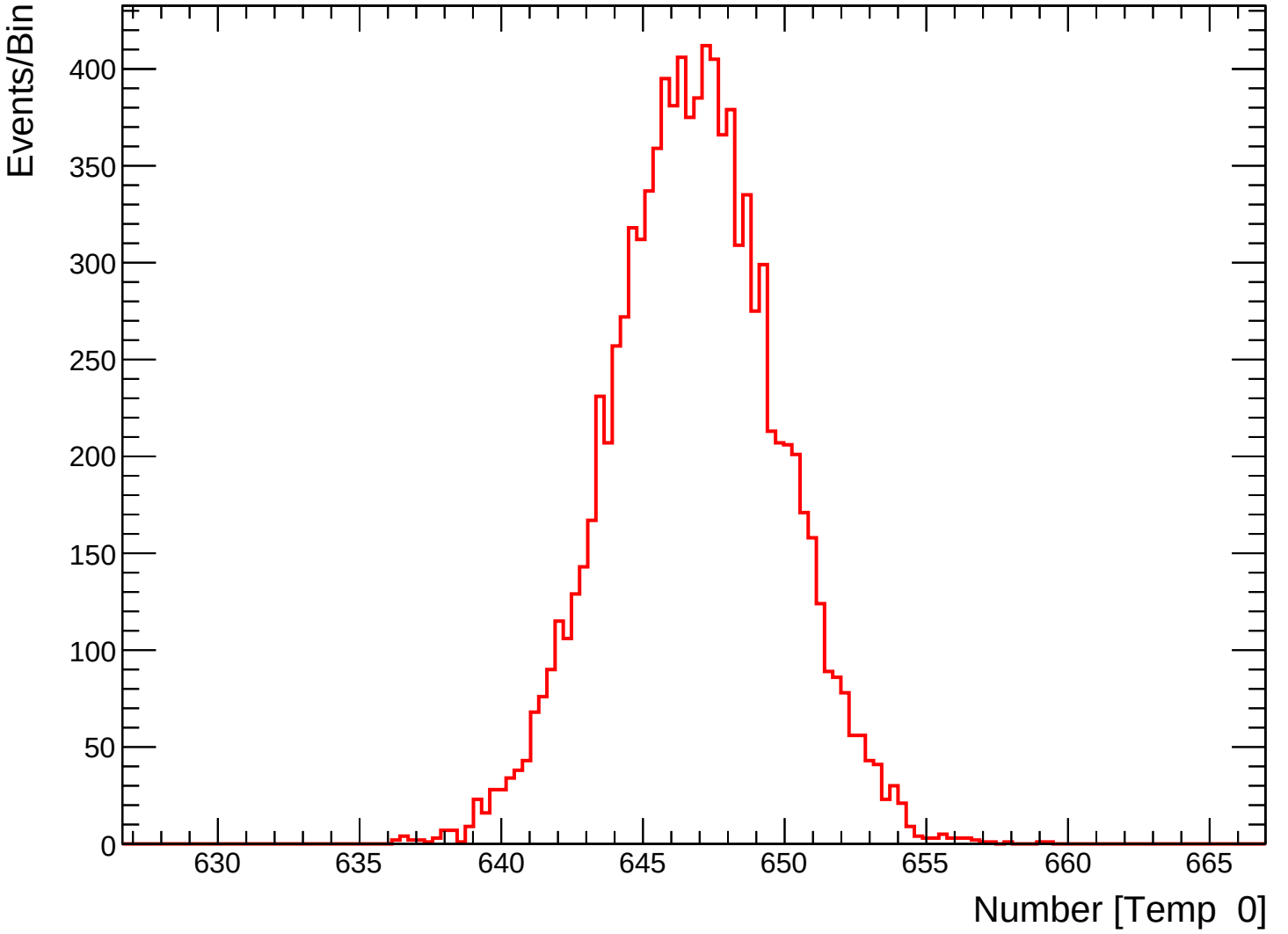

Time 24 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1474.0 ± 40.0)
e⁻+π⁻ (718.2 ± 28.9)
χ² 0.94
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

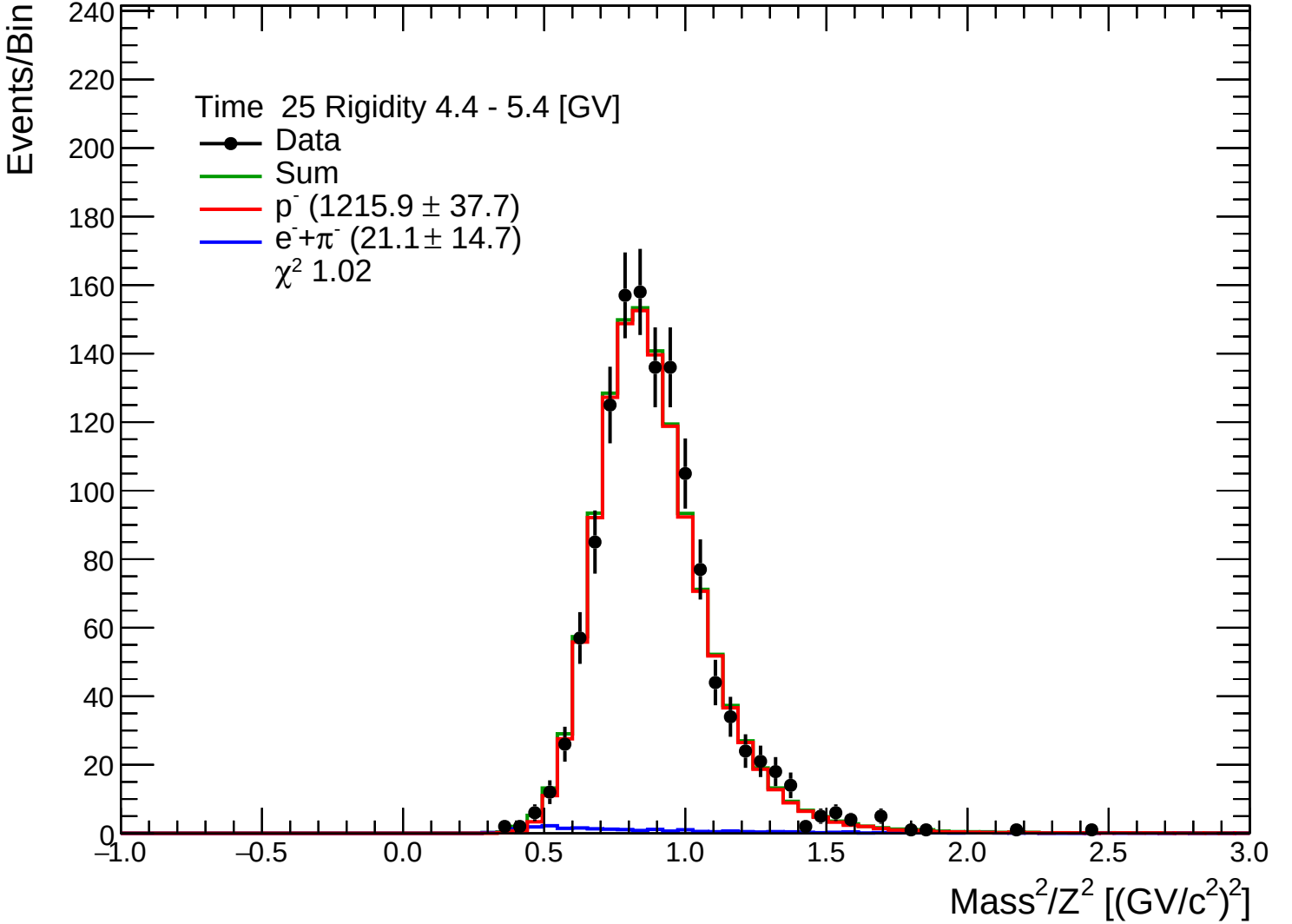

Events/Bin
400
350
300
250
200
150
100
50
0
1468
1470
1472
1474
1476
1478
1480
Number [Temp 0]

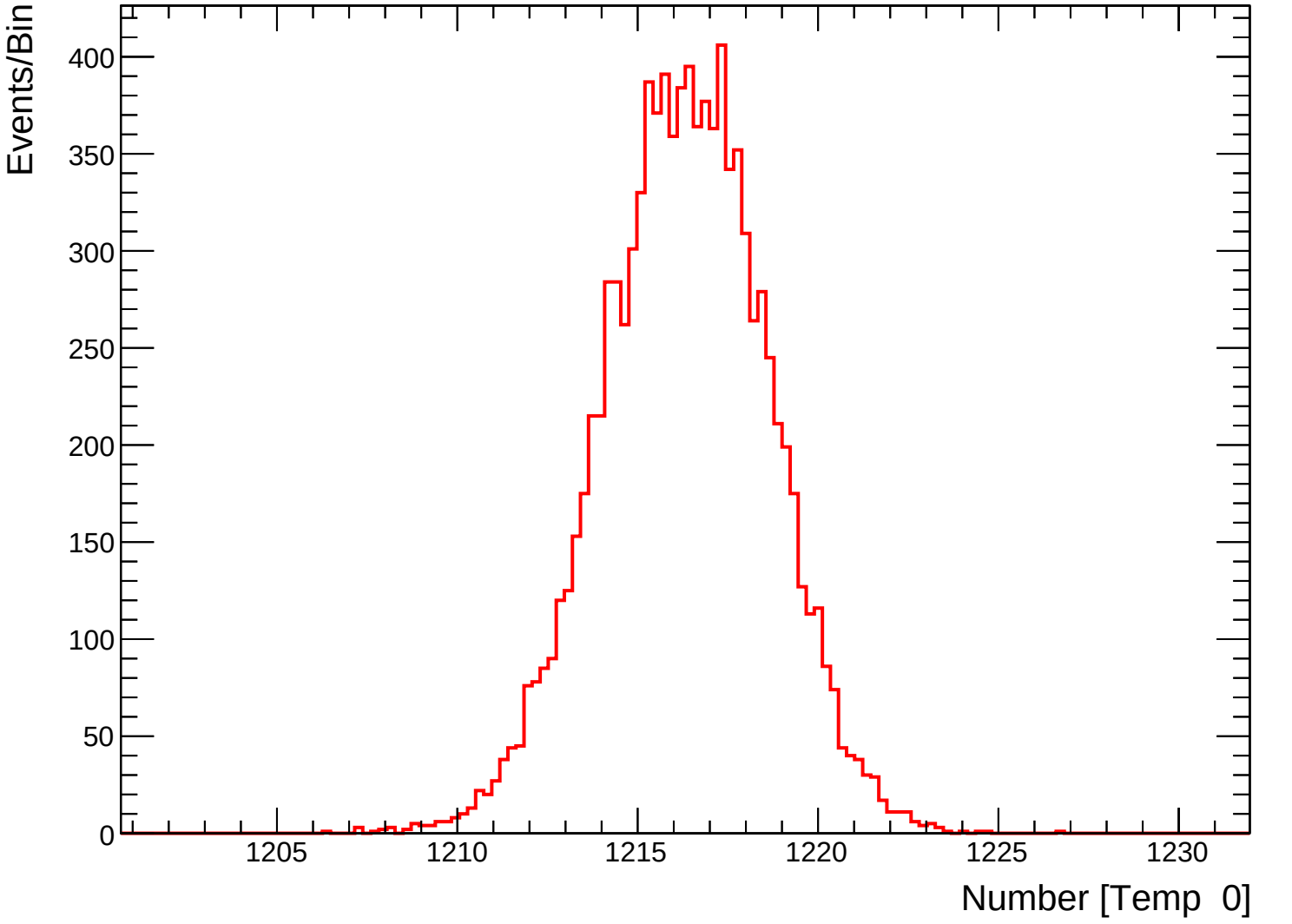

Time 24 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1396.3 ± 40.5)
e⁻+π⁻ (577.2 ± 28.4)
χ² 1.03
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

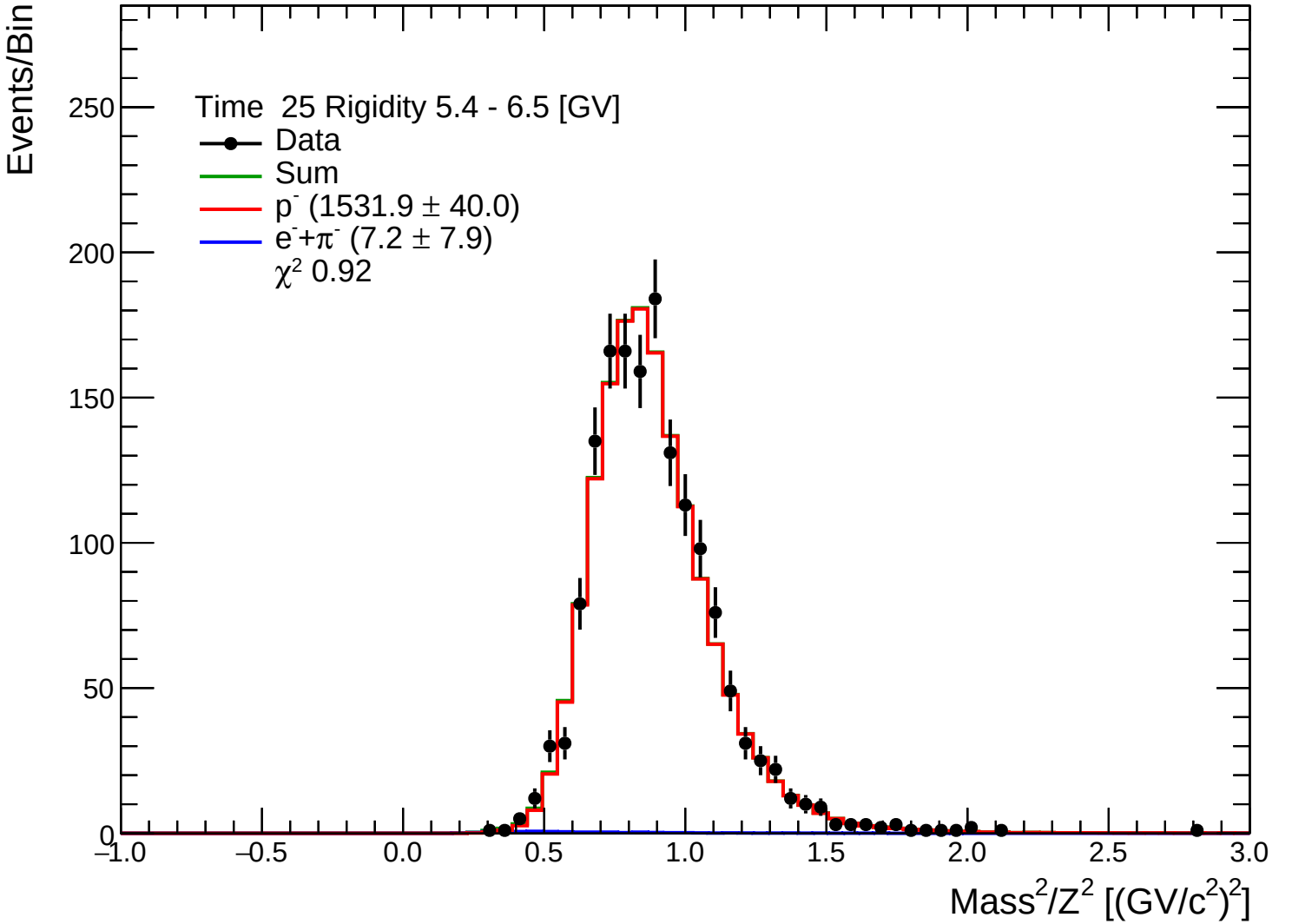

Events/Bin
400
350
300
250
200
150
100
50
0
1390
1392
1394
1396
1398
1400
1402
1404
Number [Temp 0]

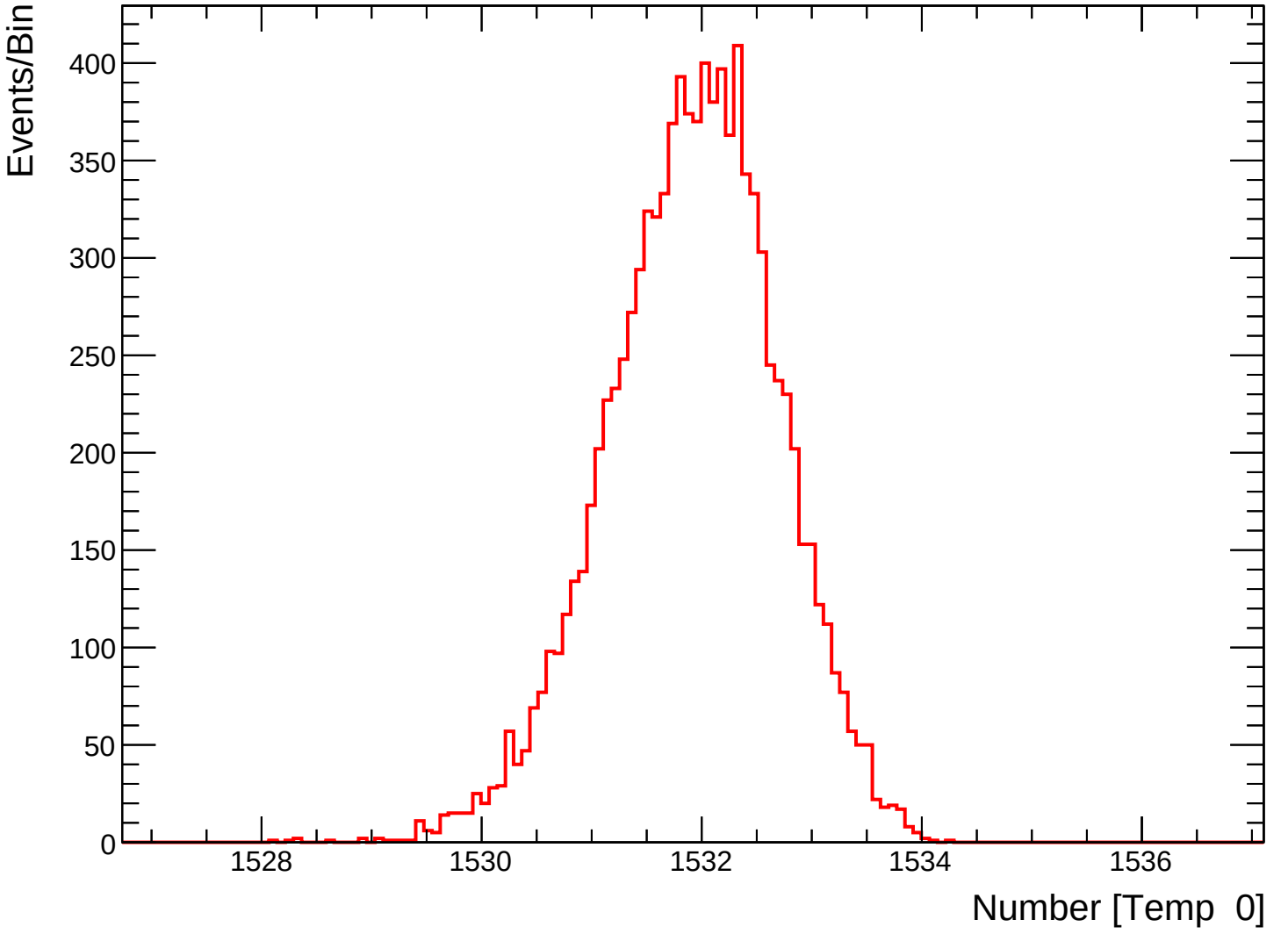

Time 25 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (646.0 ± 29.7)
e⁻+π⁻ (25.6 ± 16.0)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

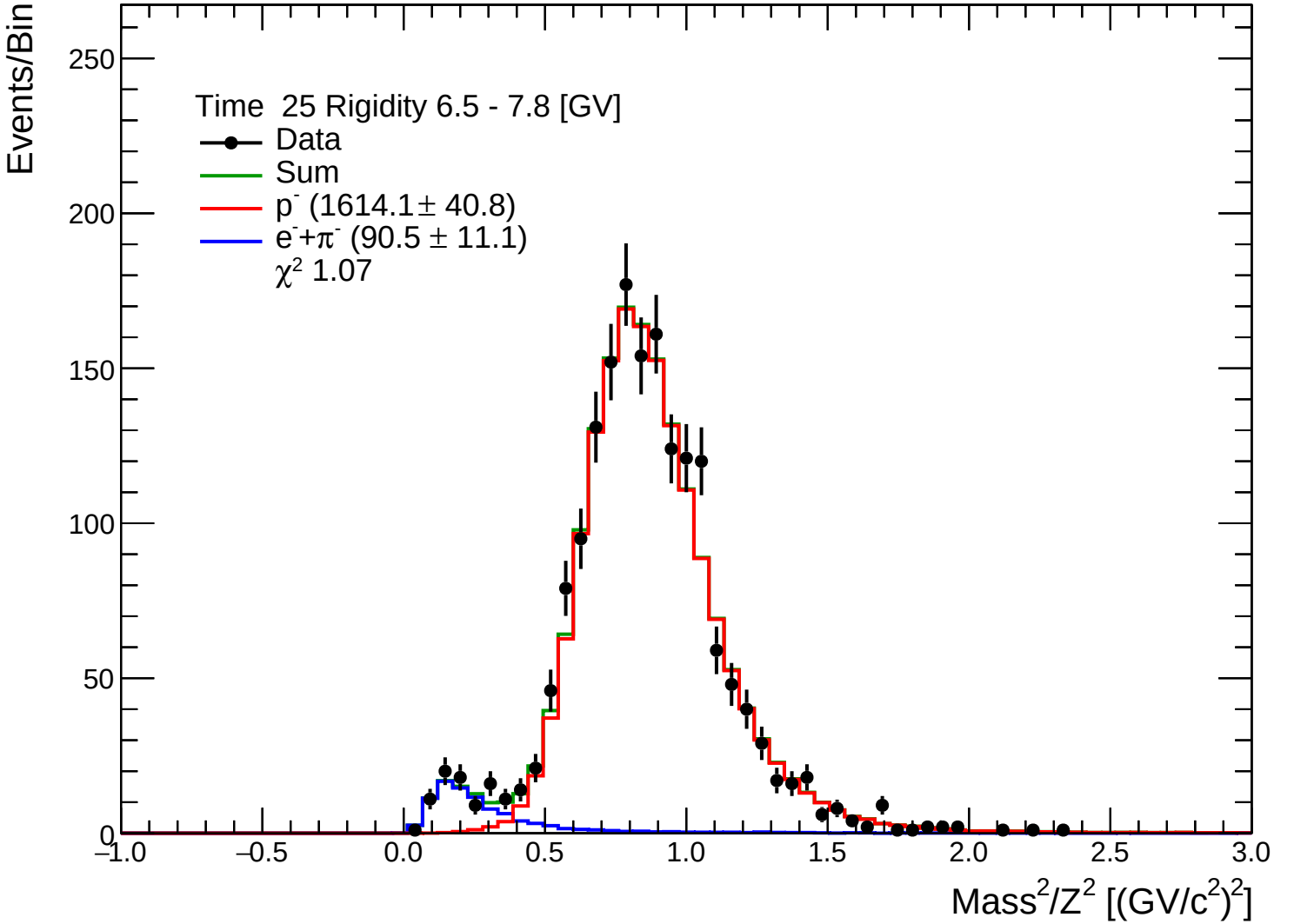

Events/Bin
400
350
300
250
200
150
100
50
0
630
635
640
645
650
655
660
665
Number [Temp 0]

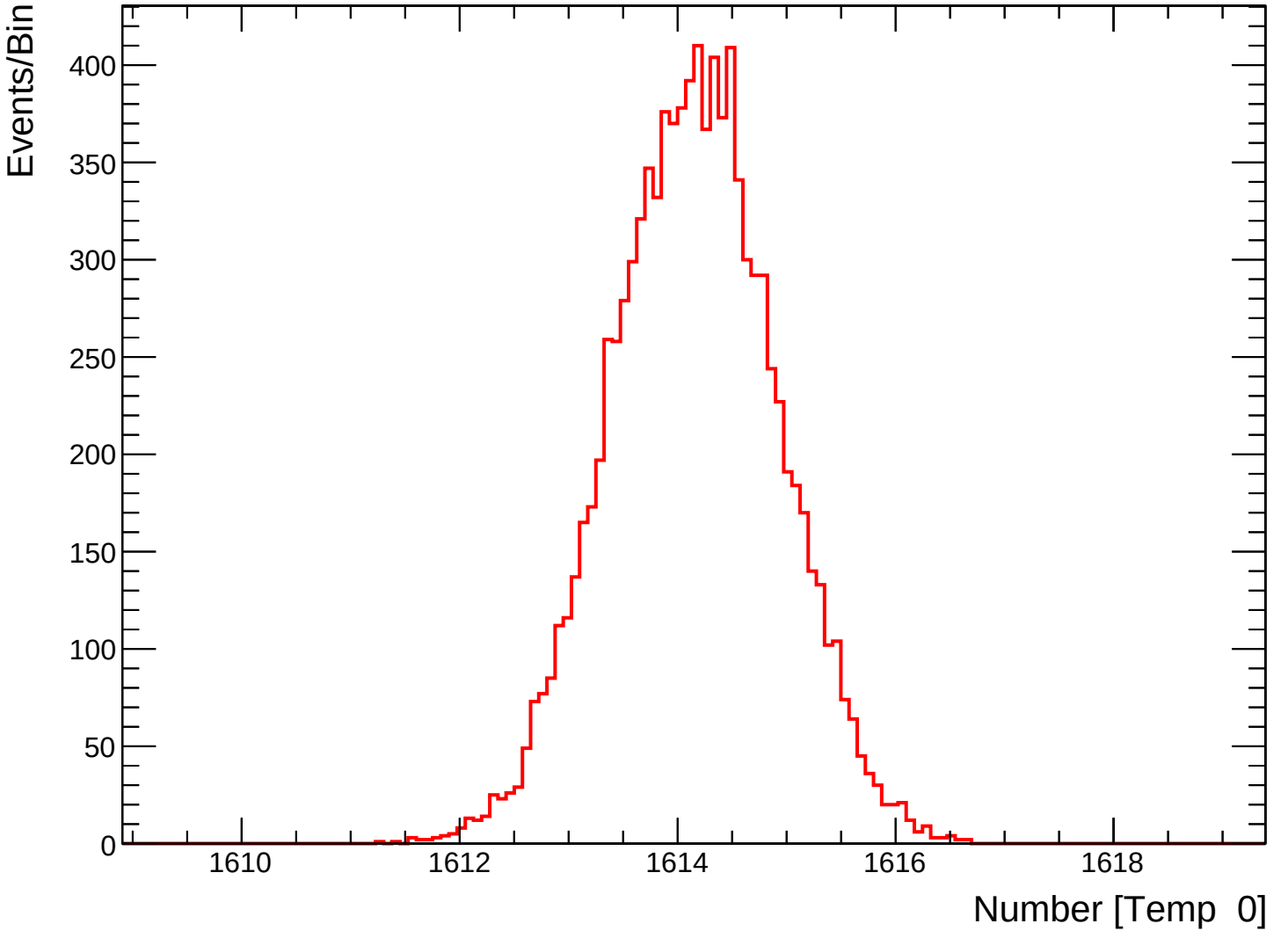

Time 25 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1215.9 ± 37.7)
e⁻+π⁻ (21.1± 14.7)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

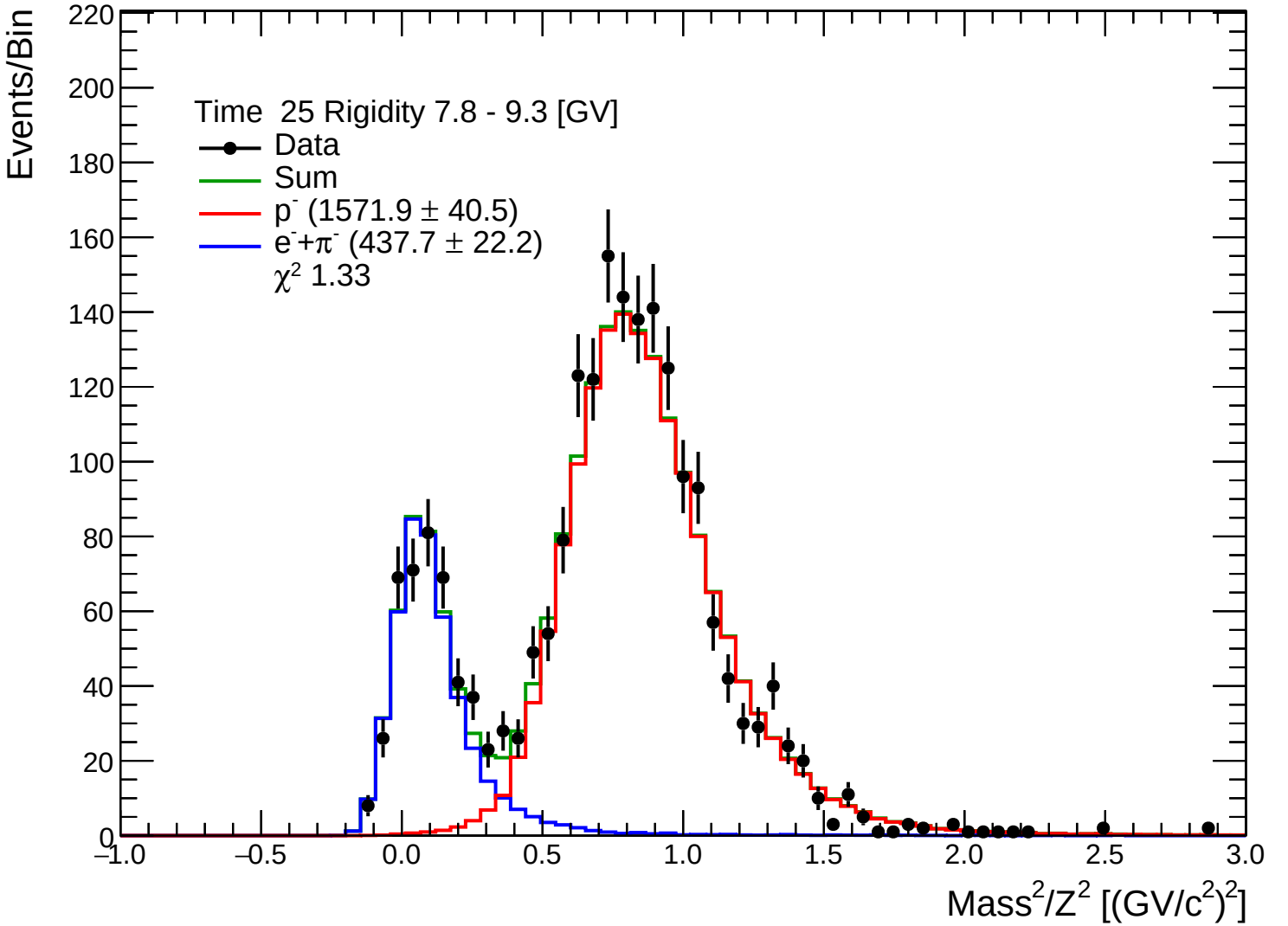

Events/Bin
400
350
300
250
200
150
100
50
0
1205
1210
1215
1220
1225
1230
Number [Temp 0]

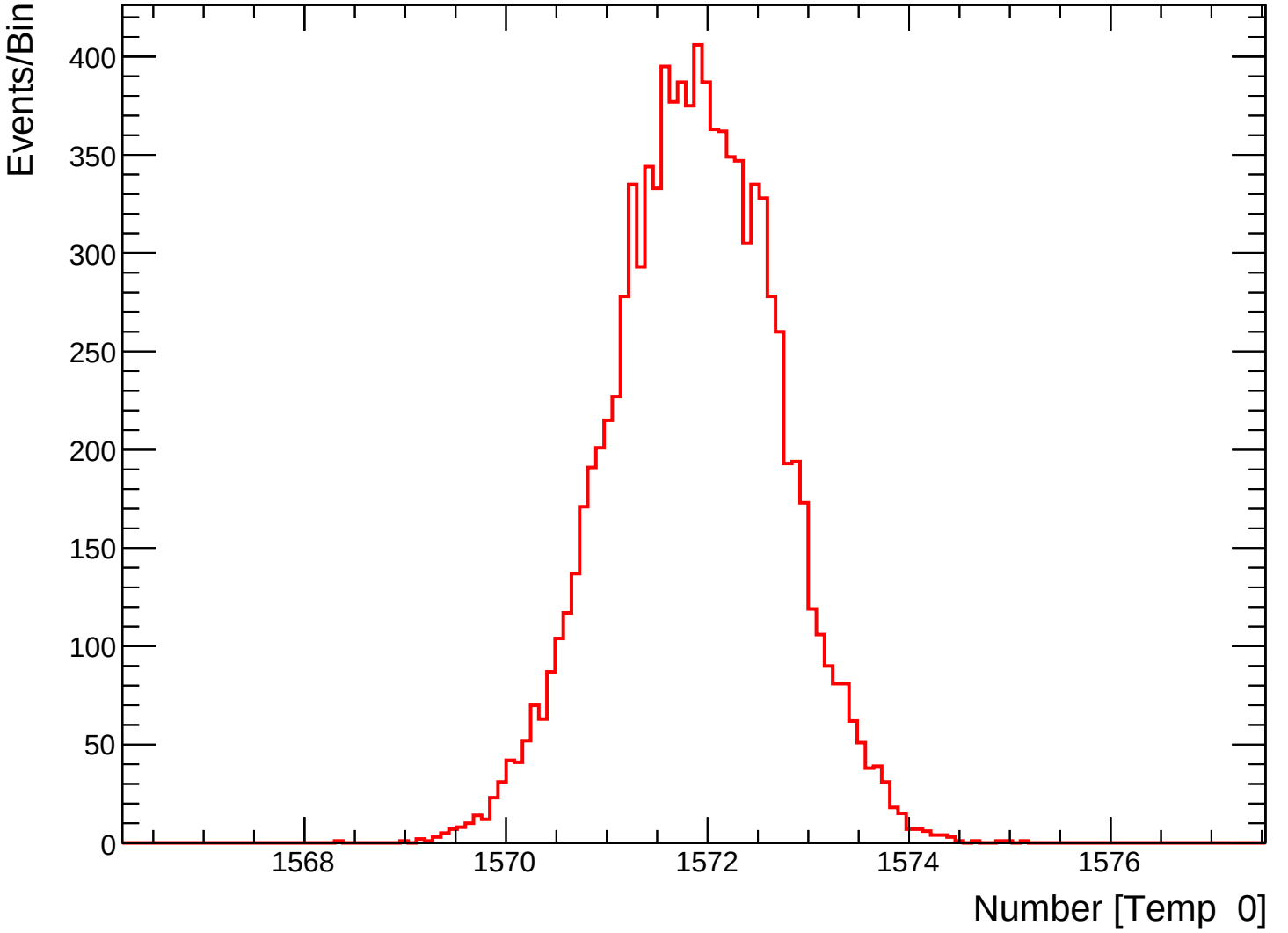

Time 25 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1531.9 ± 40.0)
e⁻+π⁻ (7.2 ± 7.9)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

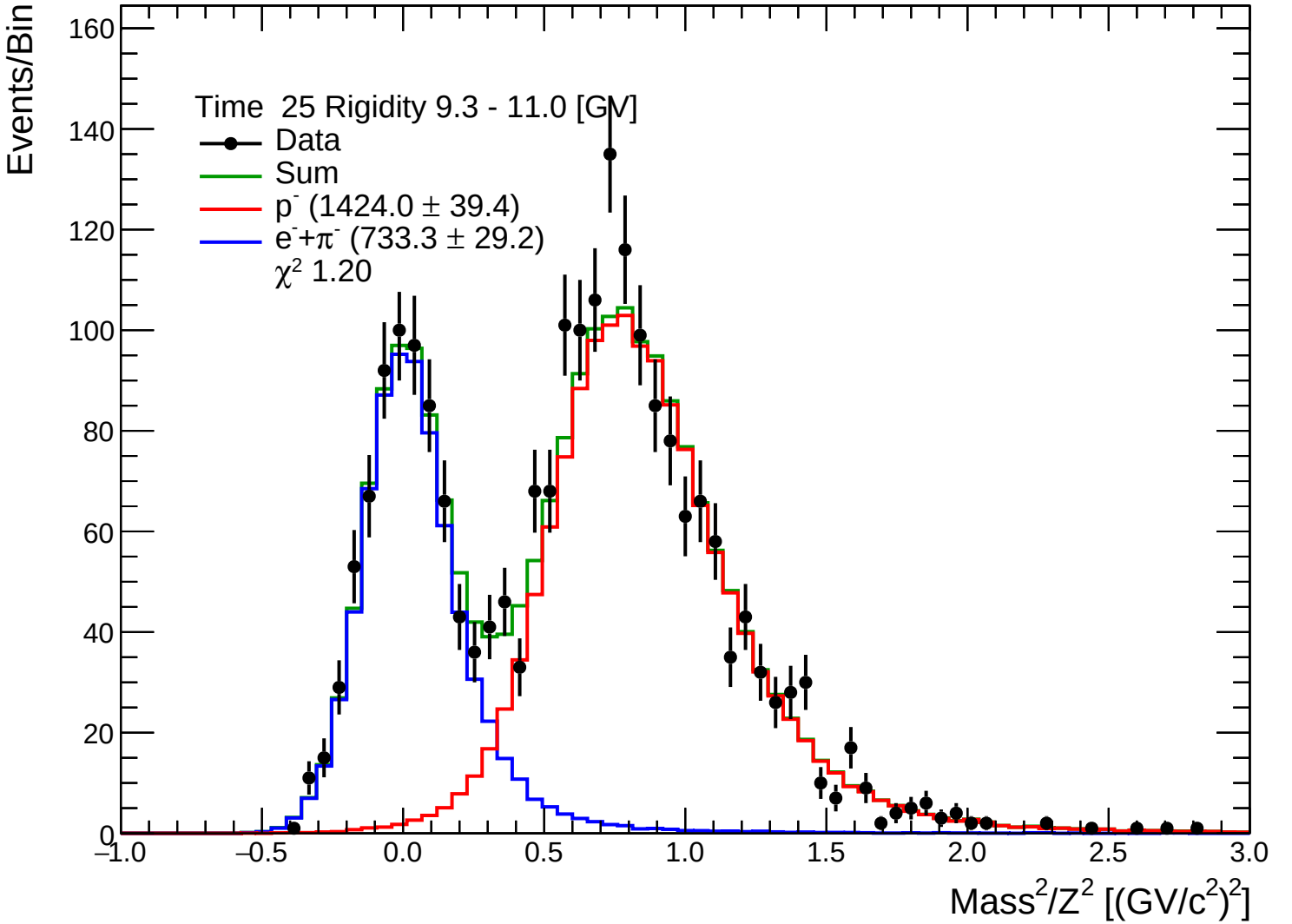

Events/Bin
400
350
300
250
200
150
100
50
0
1528
1530
1532
1534
1536
Number [Temp 0]

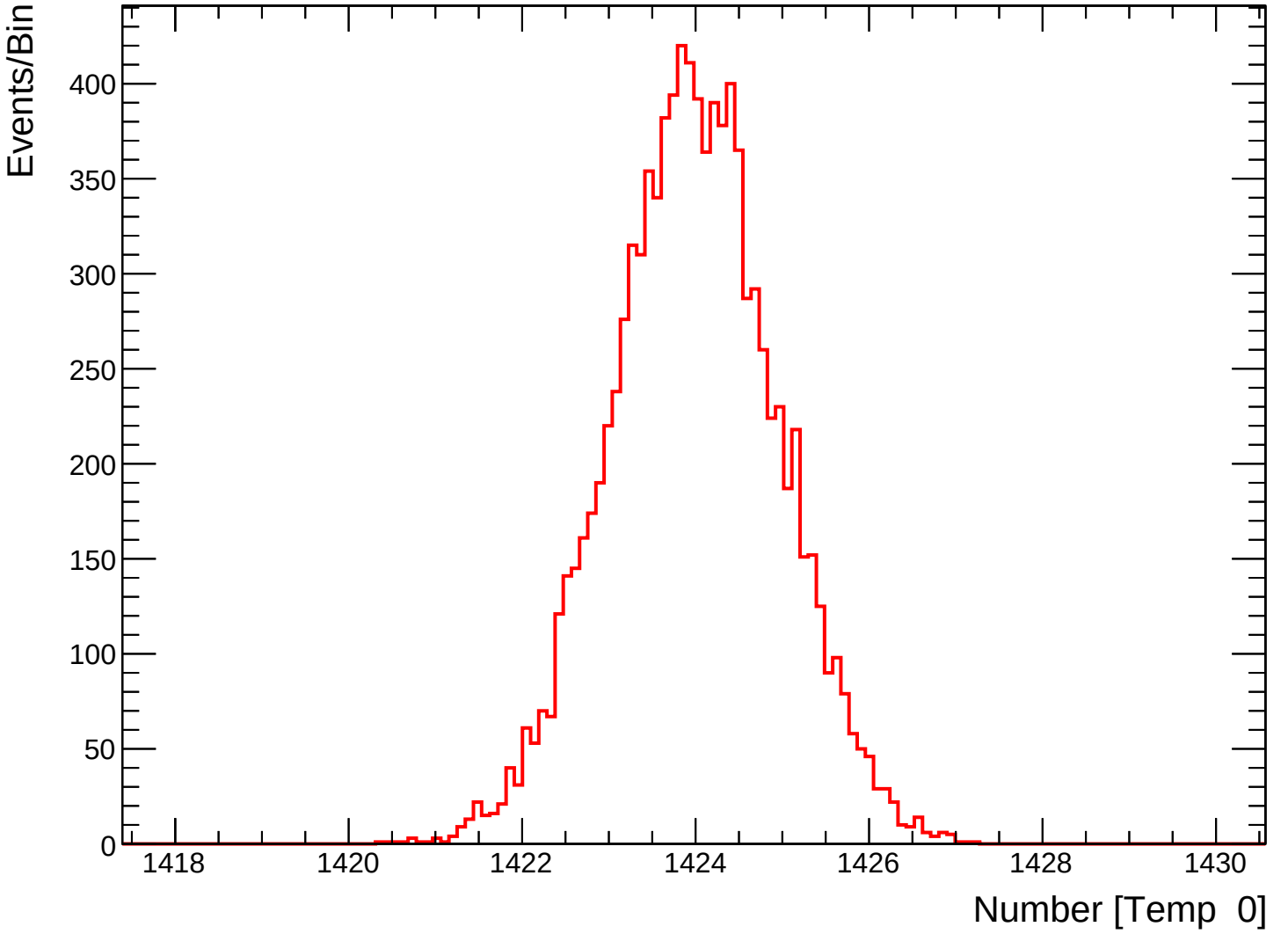

Time 25 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1614.1± 40.8)
e⁻+π⁻ (90.5 ± 11.1)
χ² 1.07
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

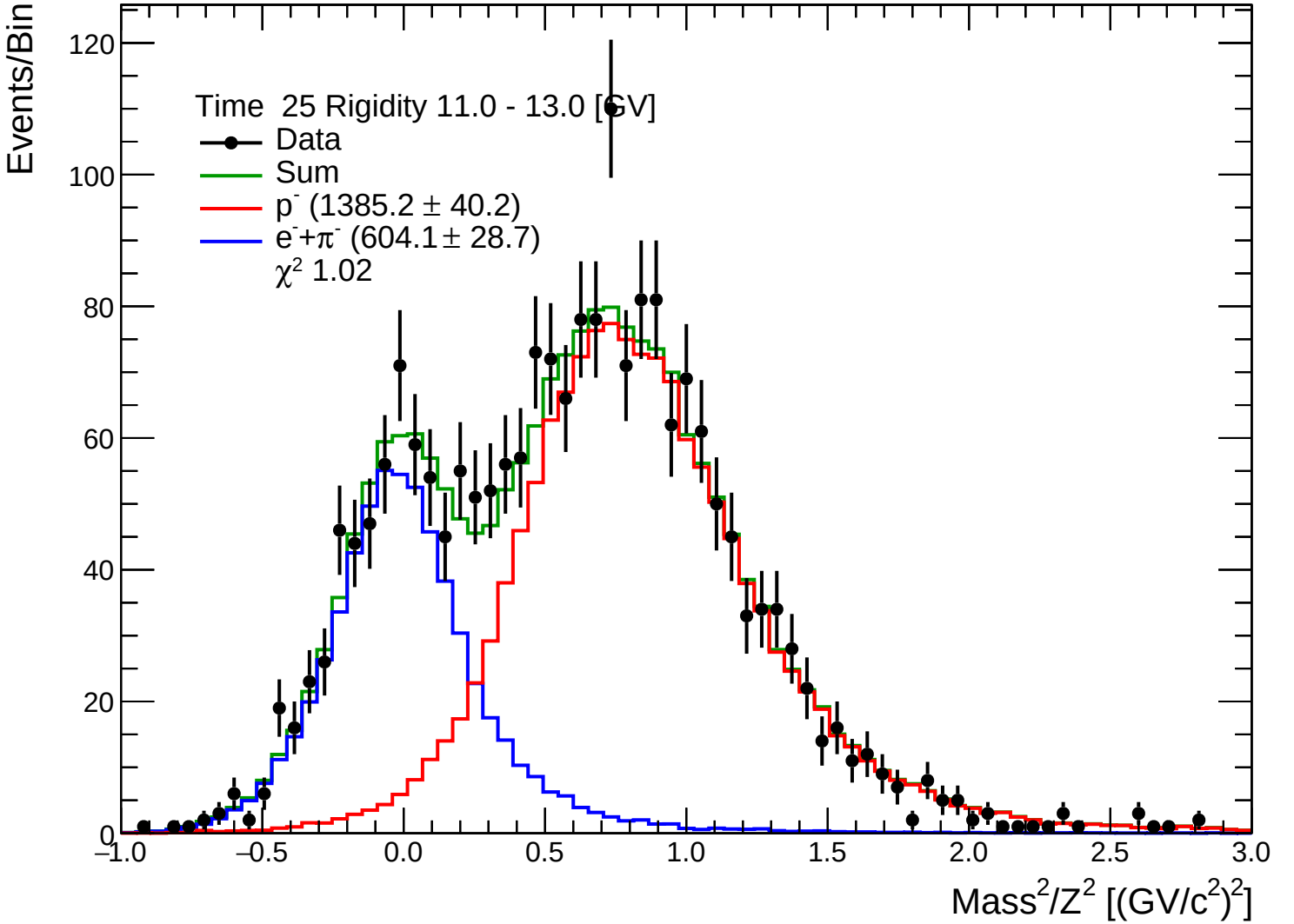

Events/Bin
400
350
300
250
200
150
100
50
0
1610
1612
1614
1616
1618
Number [Temp 0]

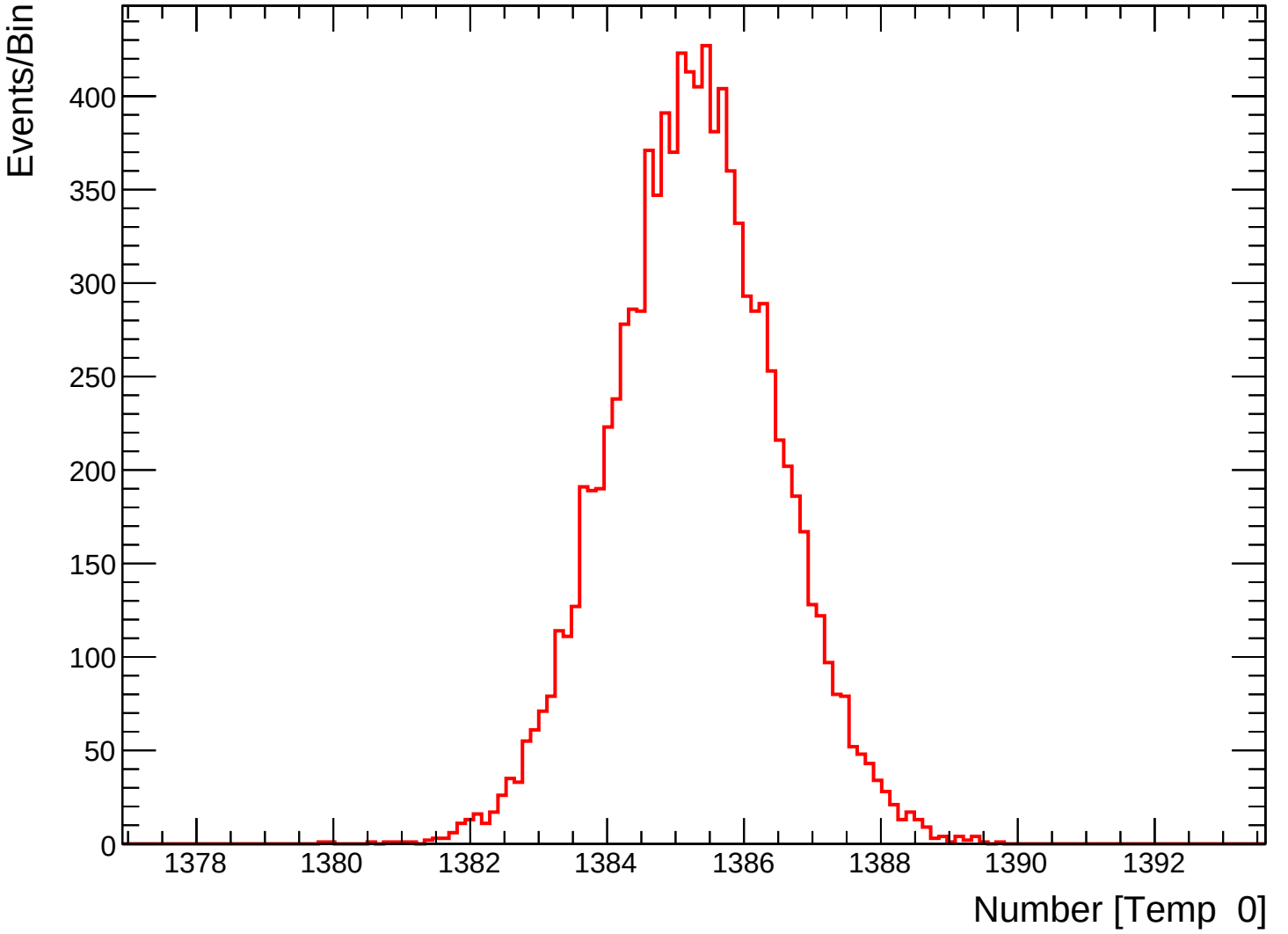

Time 25 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1571.9 ± 40.5)
e⁻+π⁻ (437.7 ± 22.2)
χ² 1.33
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

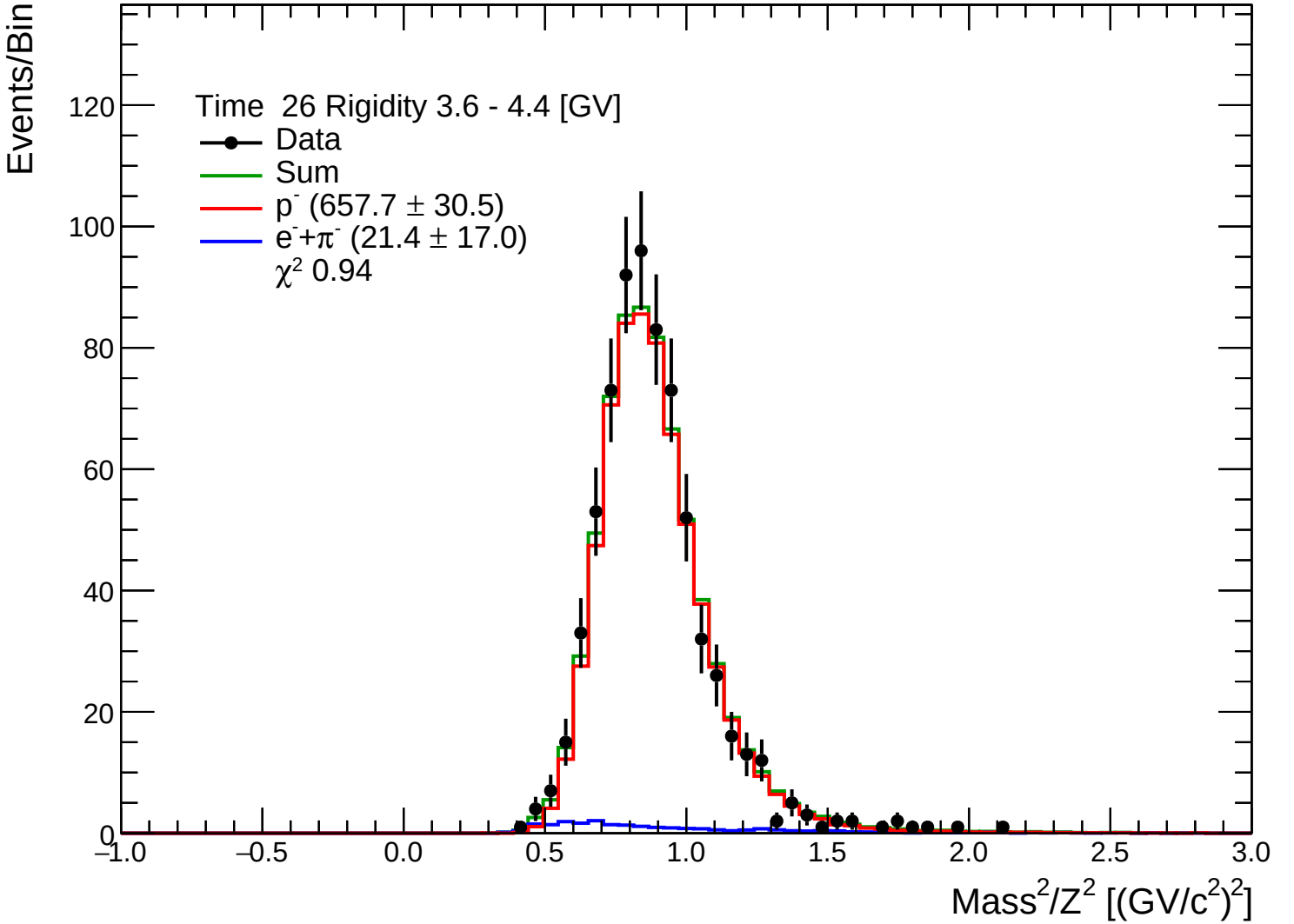

Events/Bin
400
350
300
250
200
150
100
50
0
1568
1570
1572
1574
1576
Number [Temp 0]

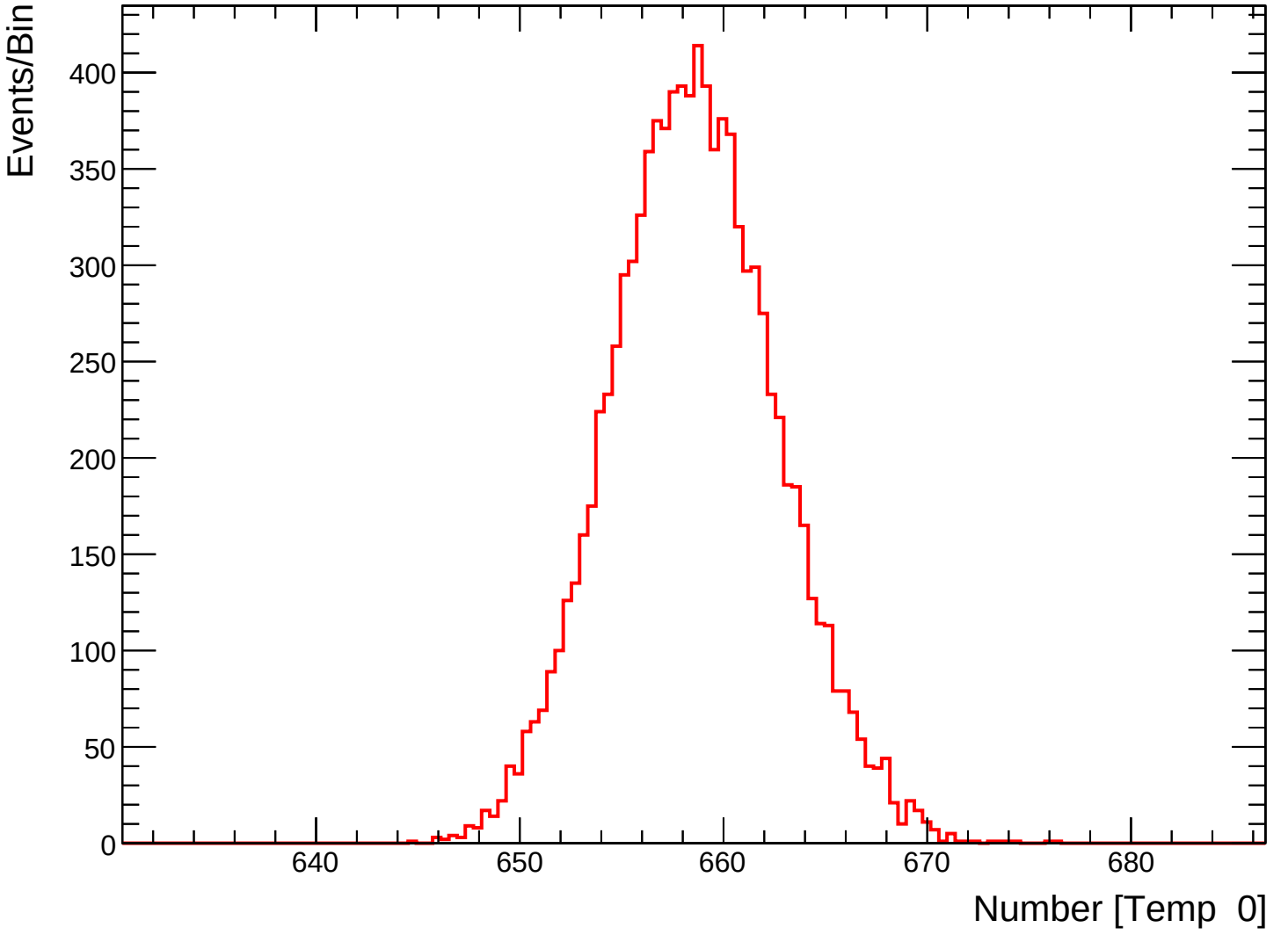

Time 25 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1424.0 ± 39.4)
e⁻+π⁻ (733.3 ± 29.2)
χ² 1.20
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

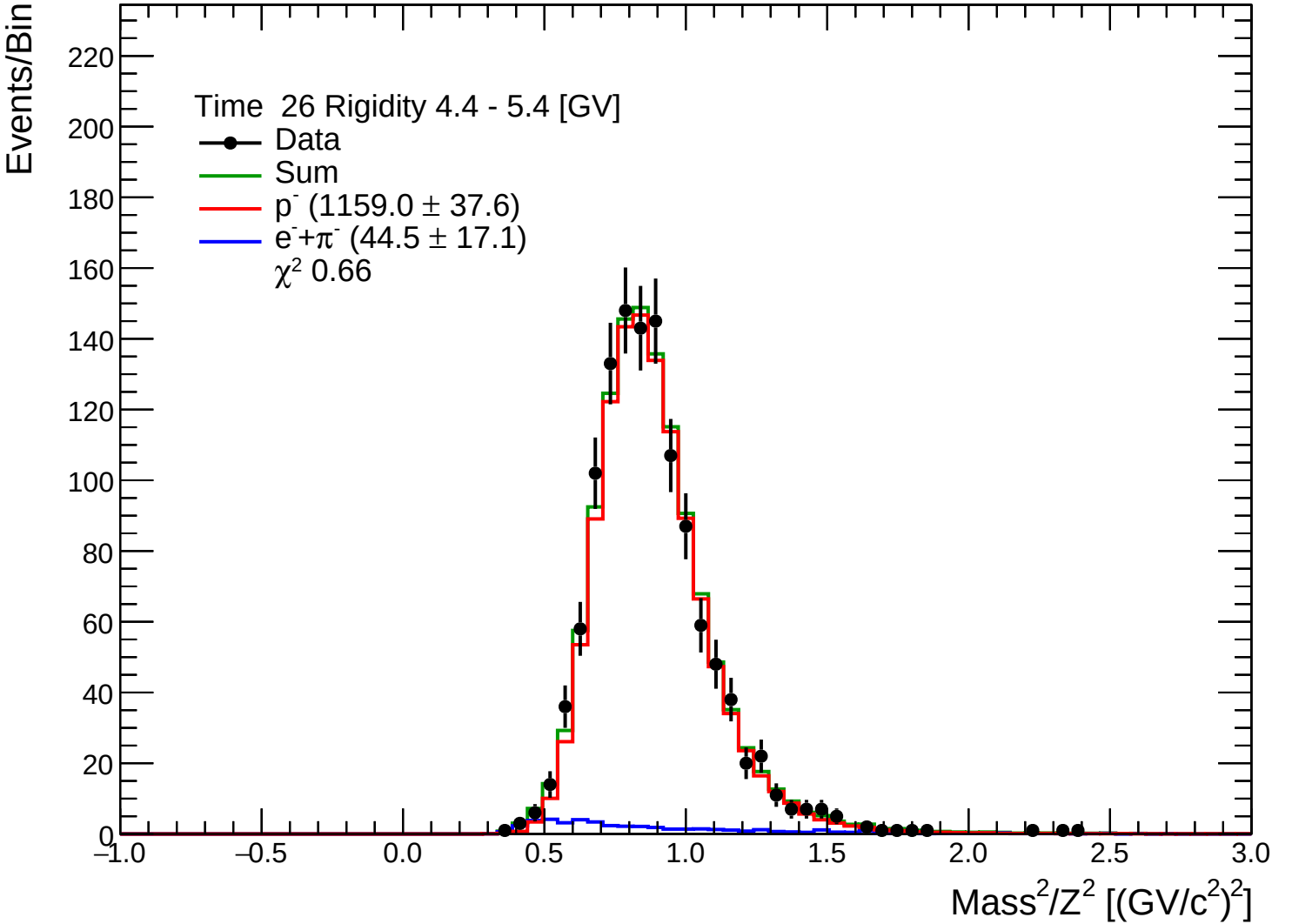

Events/Bin
400
350
300
250
200
150
100
50
0
1418
1420
1422
1424
1426
1428
1430
Number [Temp 0]

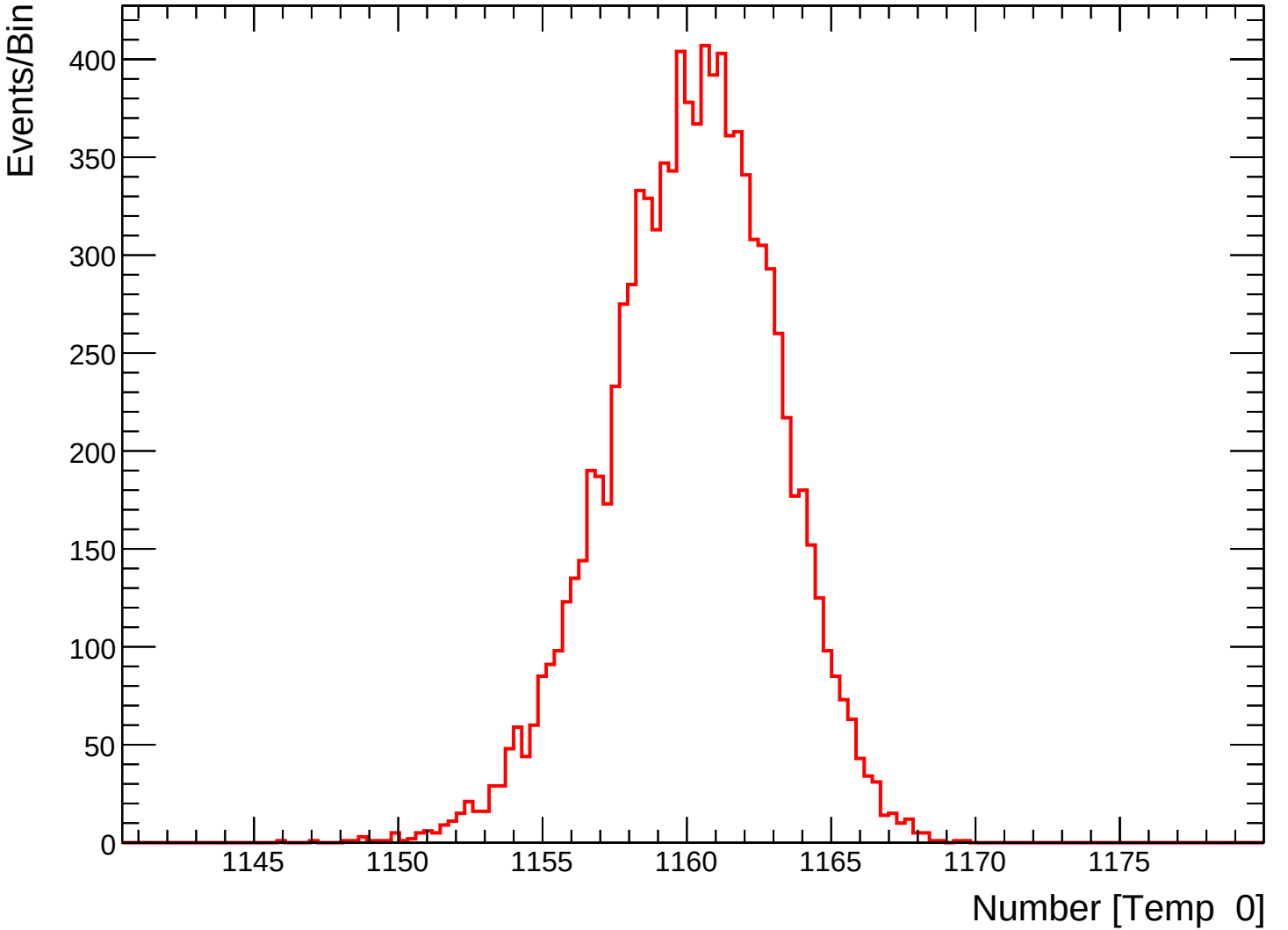

Time 25 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1385.2 ± 40.2)
e⁻+π⁻ (604.1 ± 28.7)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

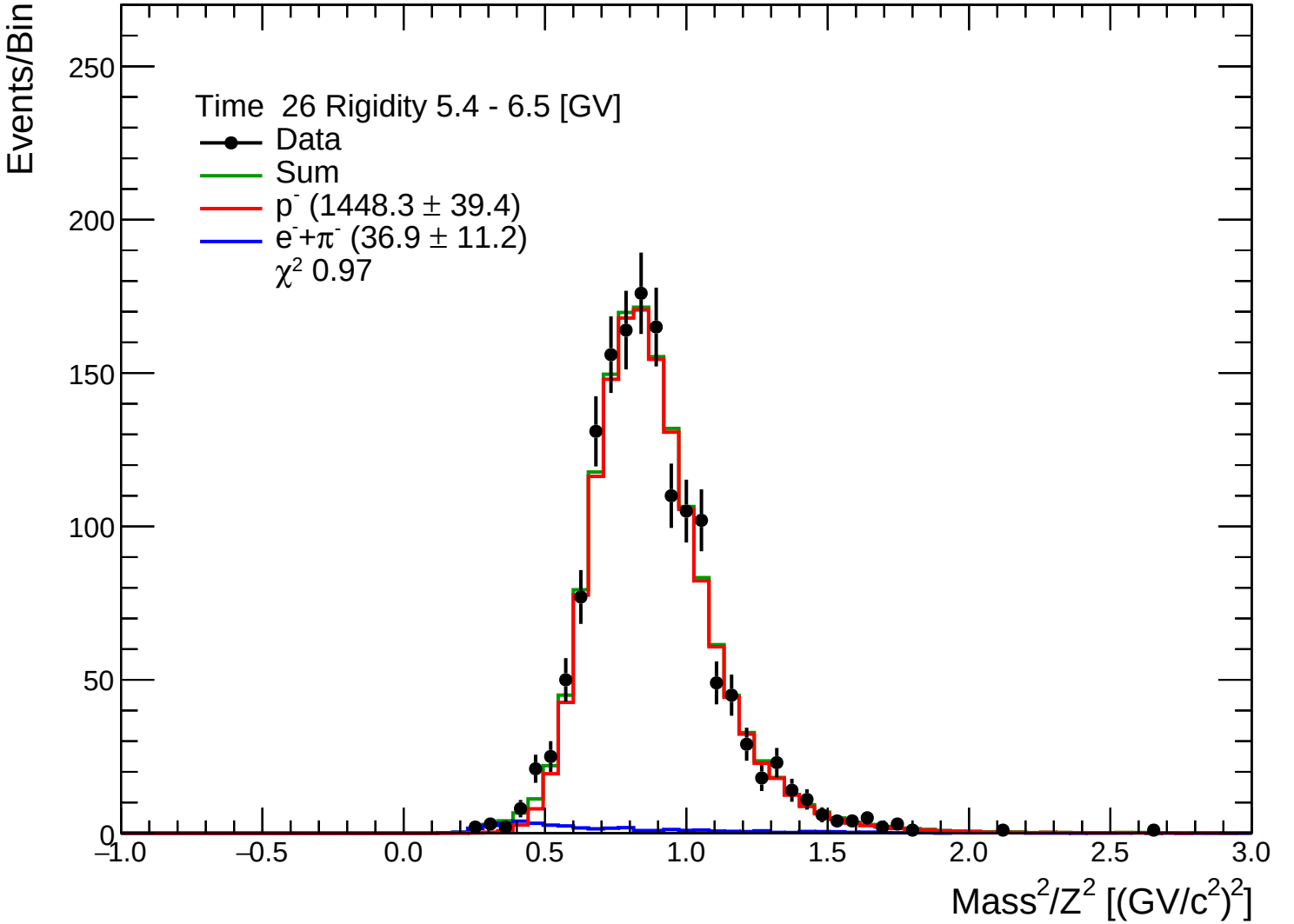

Events/Bin
400
350
300
250
200
150
100
50
0
1378
1380
1382
1384
1386
1388
1390
1392
Number [Temp 0]

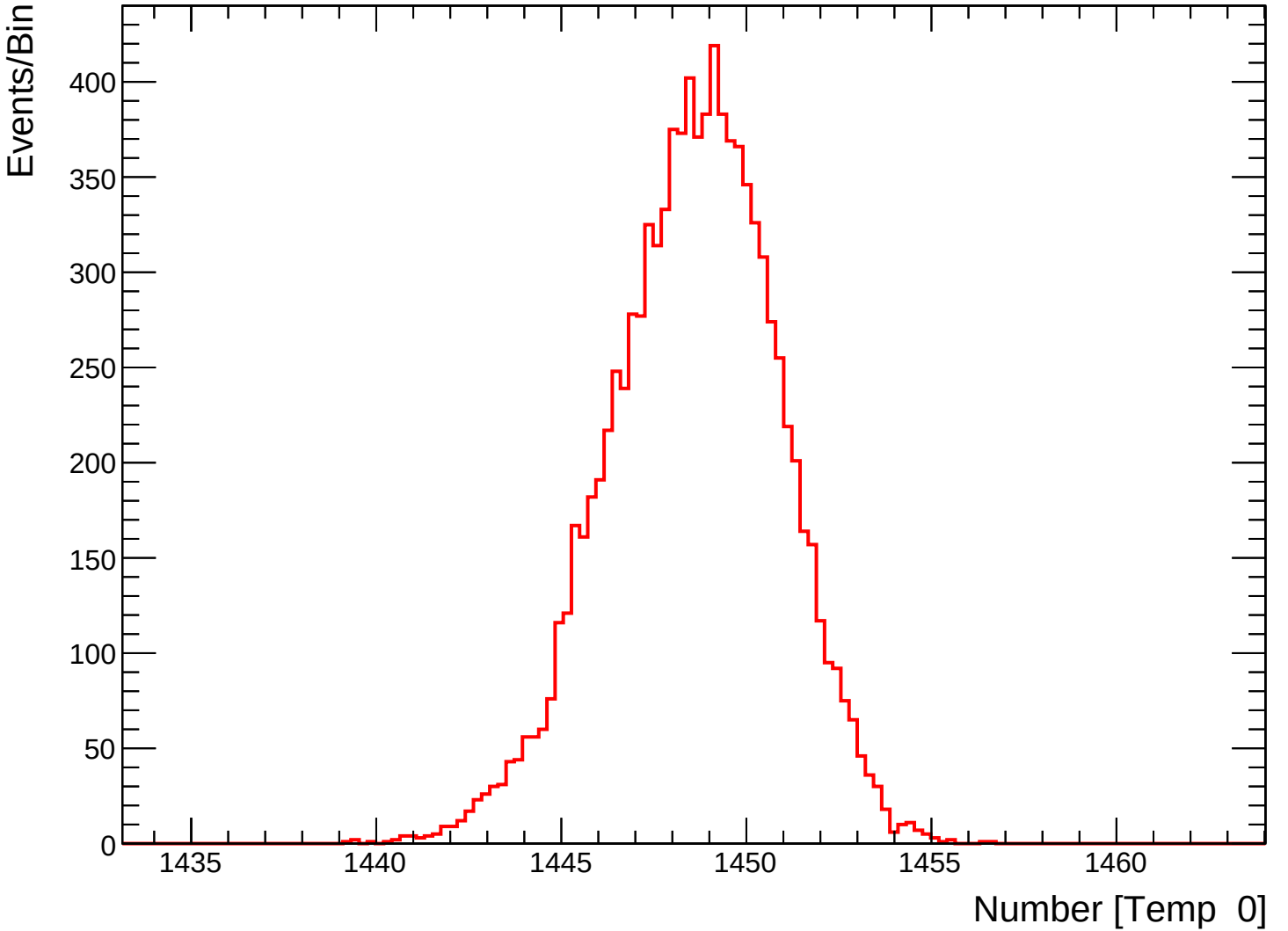

Time 26 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (657.7 ± 30.5)
e⁻+π⁻ (21.4 ± 17.0)
χ² 0.94
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

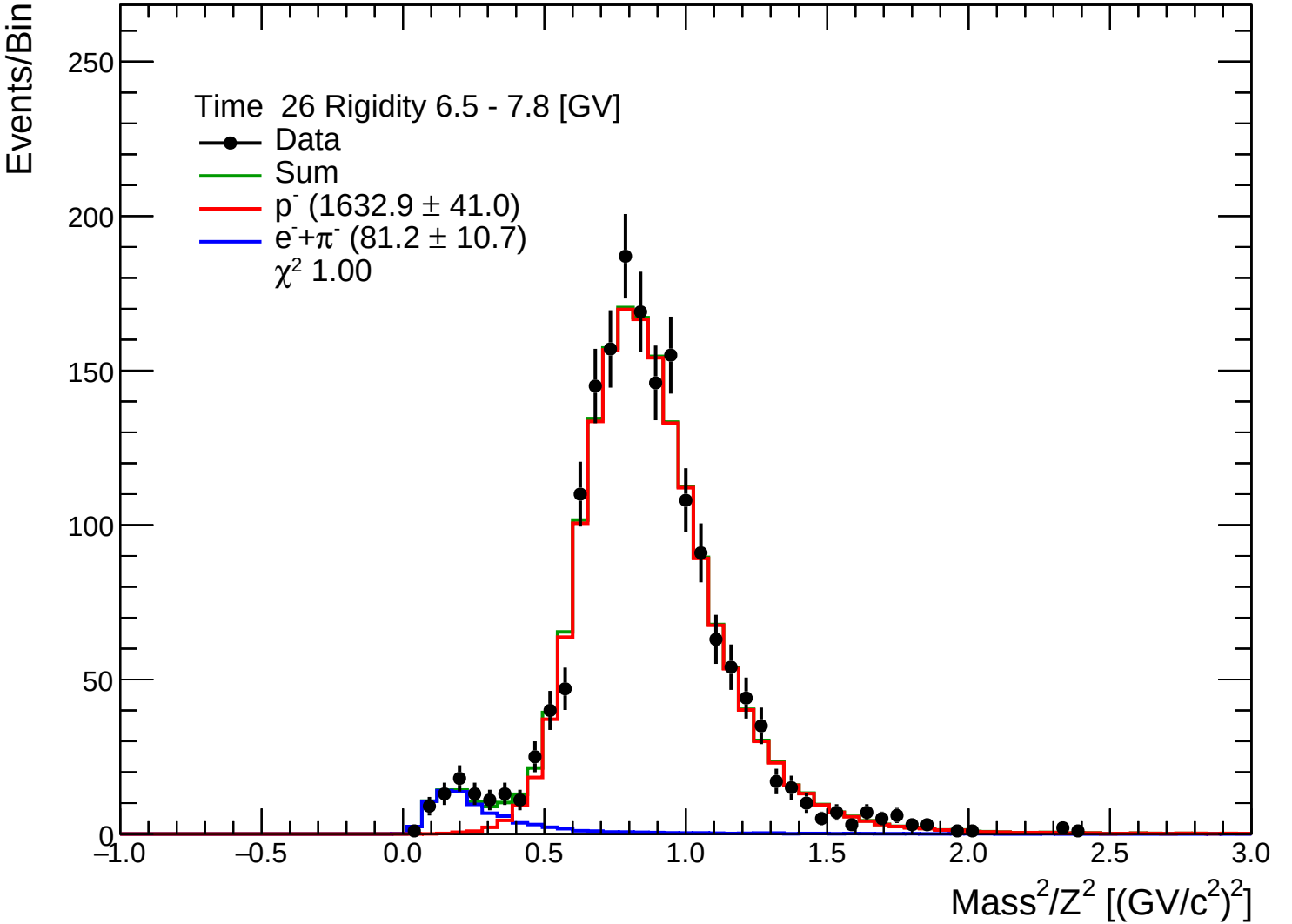

Events/Bin
400
350
300
250
200
150
100
50
0
640
650
660
670
680
Number [Temp 0]

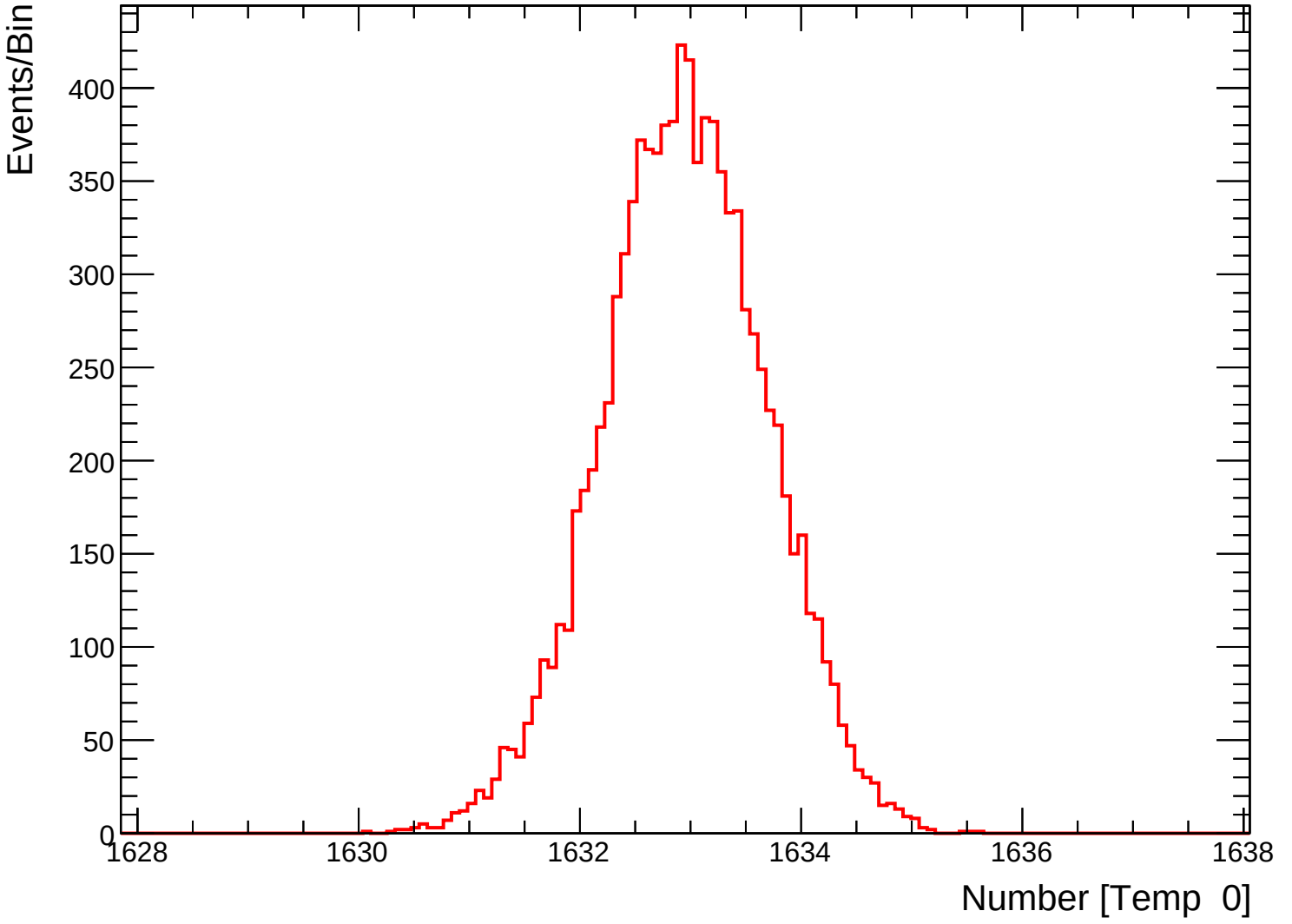

Time 26 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1159.0 ± 37.6)
e⁻+π⁻ (44.5 ± 17.1)
χ² 0.66
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

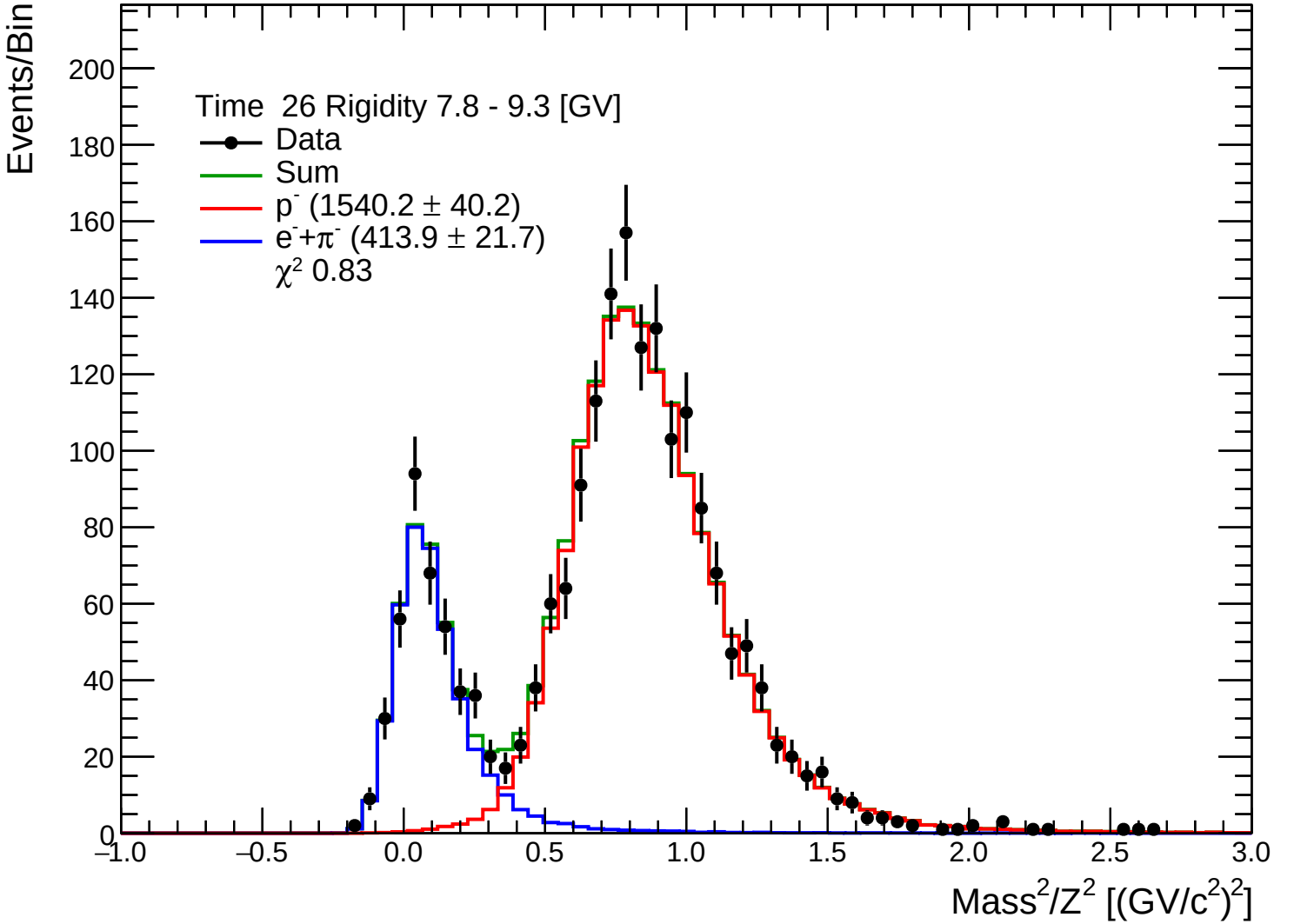

Events/Bin
400
350
300
250
200
150
100
50
0
1145
1150
1155
1160
1165
1170
1175
Number [Temp 0]

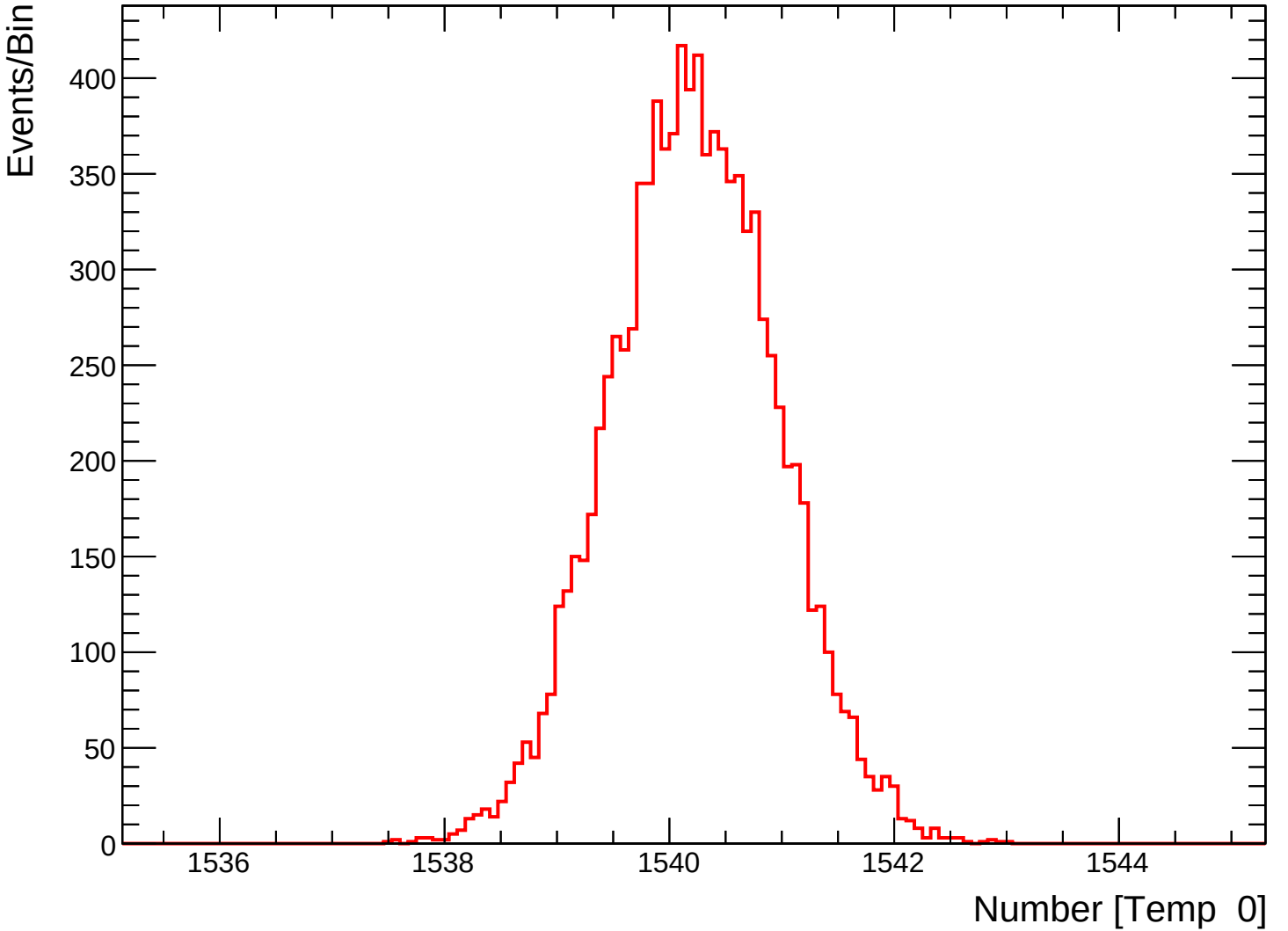

Time 26 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1448.3 ± 39.4)
e⁻+π⁻ (36.9 ± 11.2)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

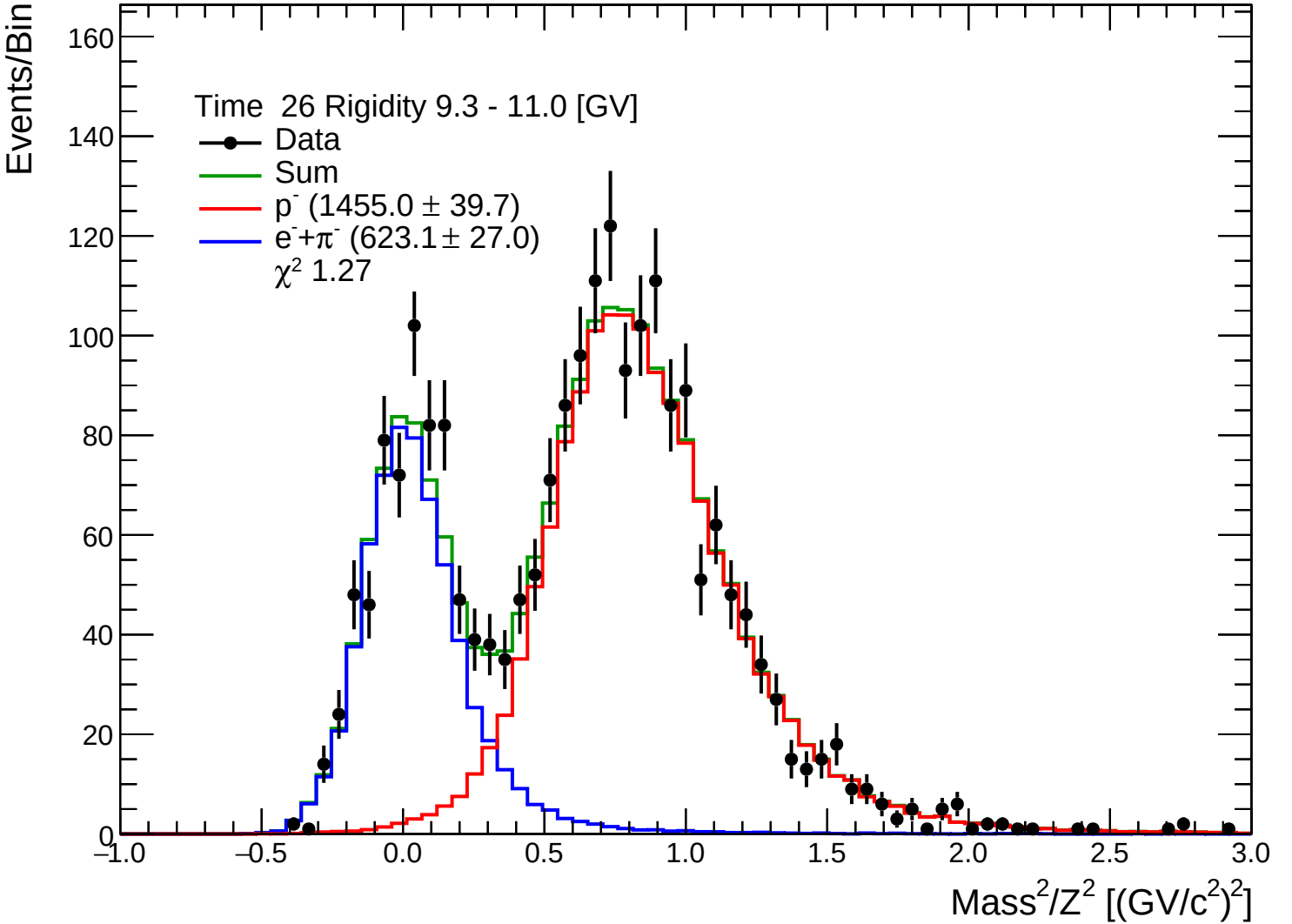

Events/Bin
400
350
300
250
200
150
100
50
0
1435
1440
1445
1450
1455
1460
Number [Temp 0]

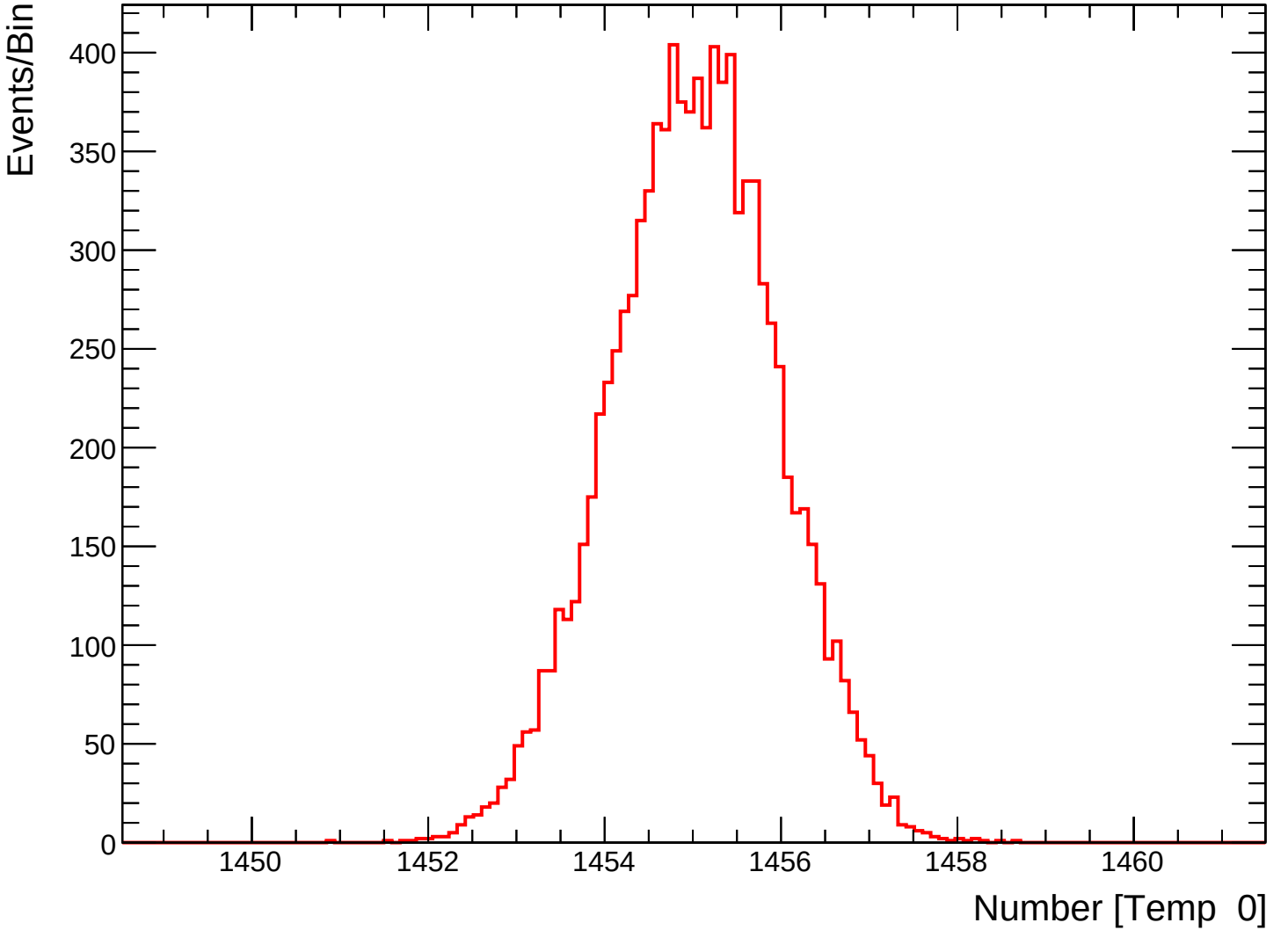

Time 26 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1632.9 ± 41.0)
e⁻+π⁻ (81.2 ± 10.7)
χ² 1.00
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

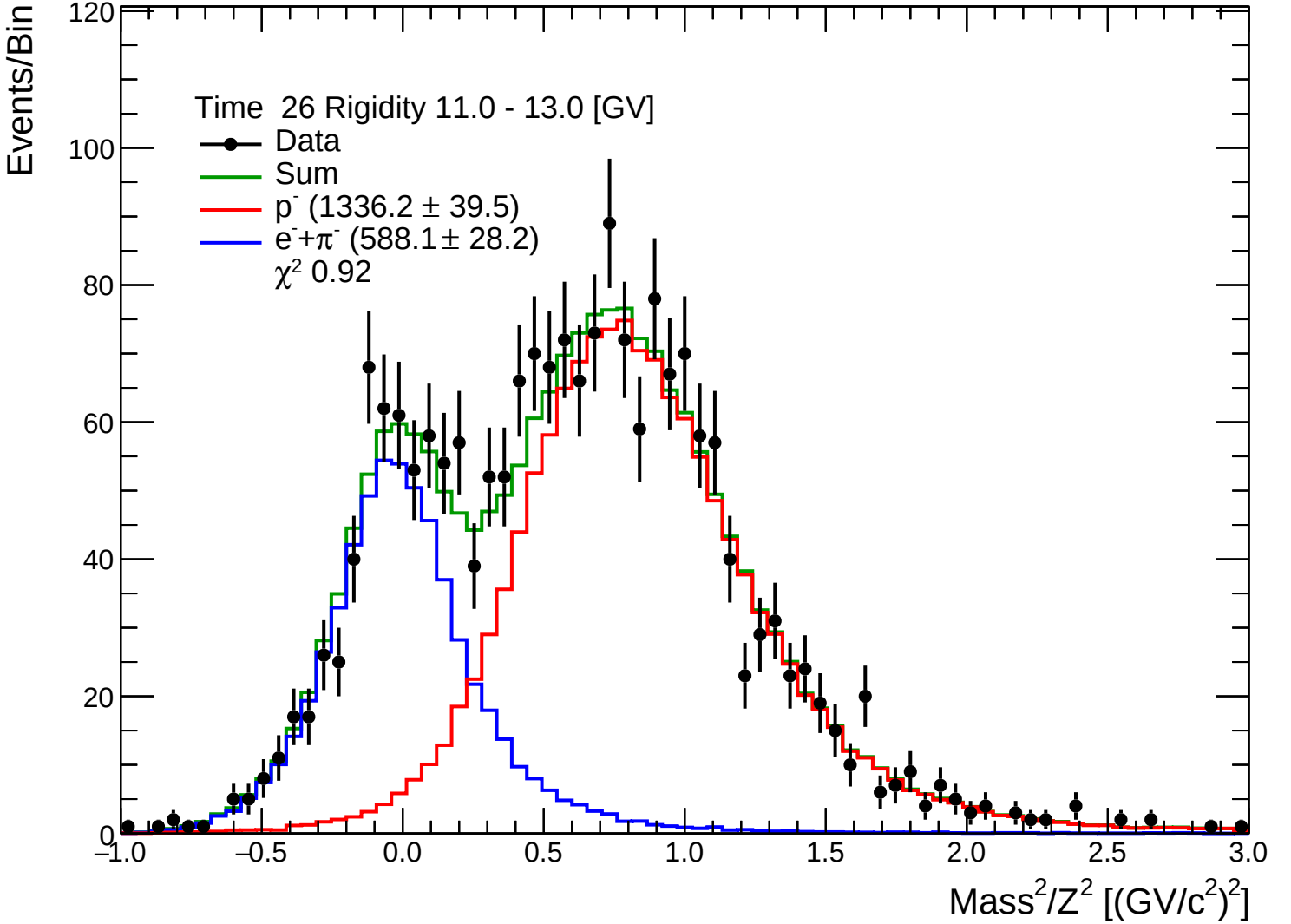

Events/Bin
400
350
300
250
200
150
100
50
0
1628
1630
1632
1634
1636
1638
Number [Temp 0]

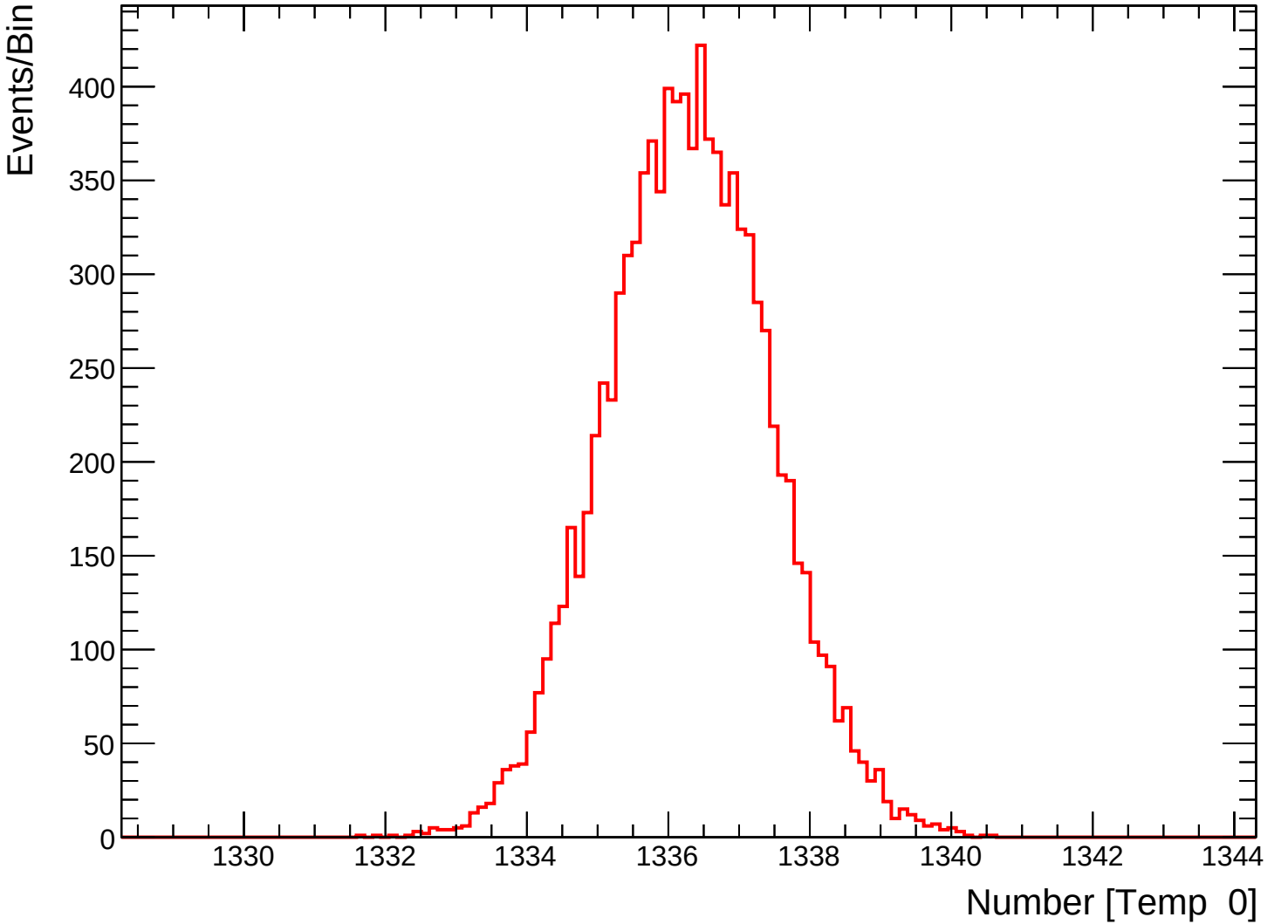

Time 26 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1540.2 ± 40.2)
e⁻+π⁻ (413.9 ± 21.7)
χ² 0.83
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

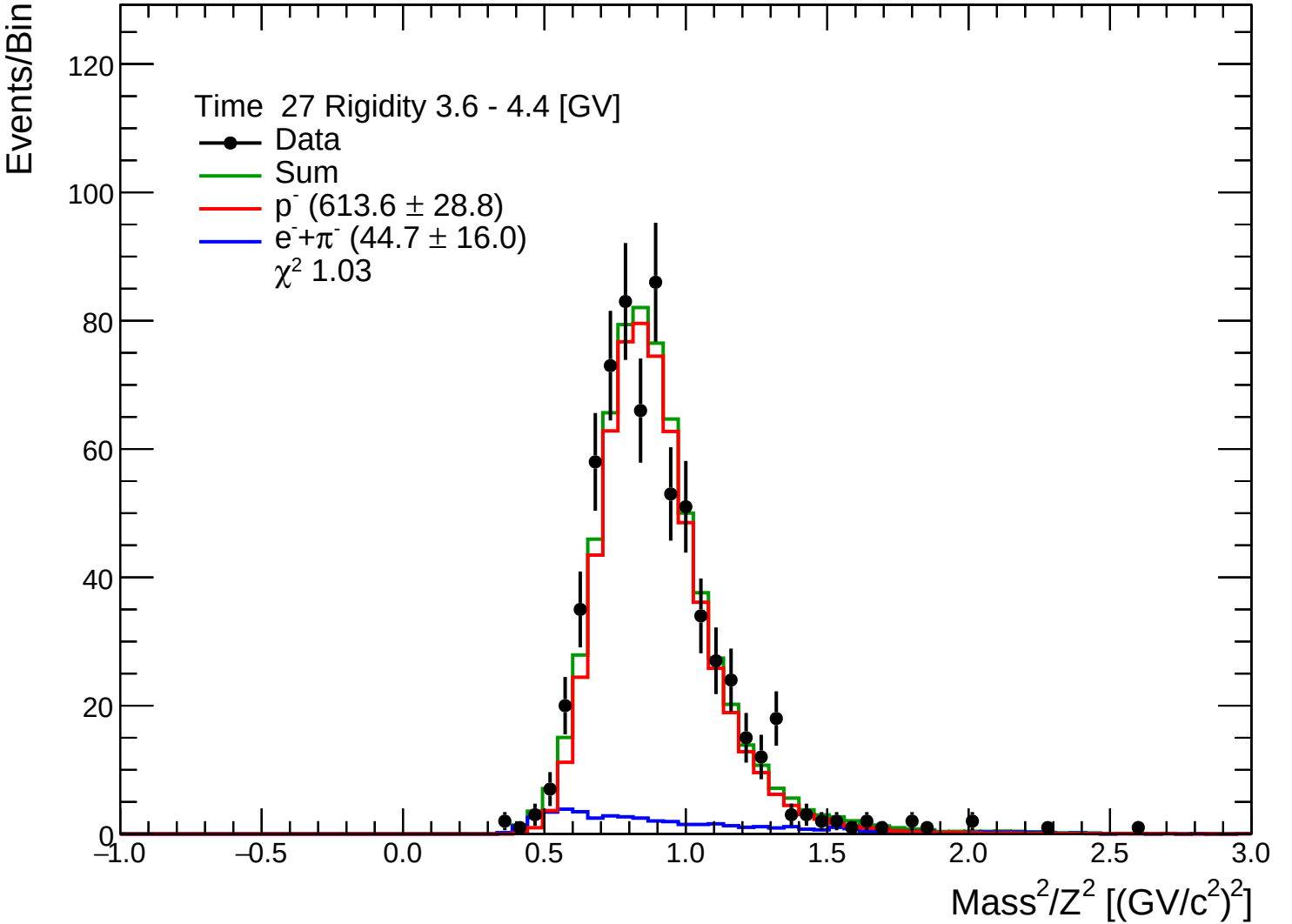

Events/Bin
400
350
300
250
200
150
100
50
0
1536
1538
1540
1542
1544
Number [Temp 0]

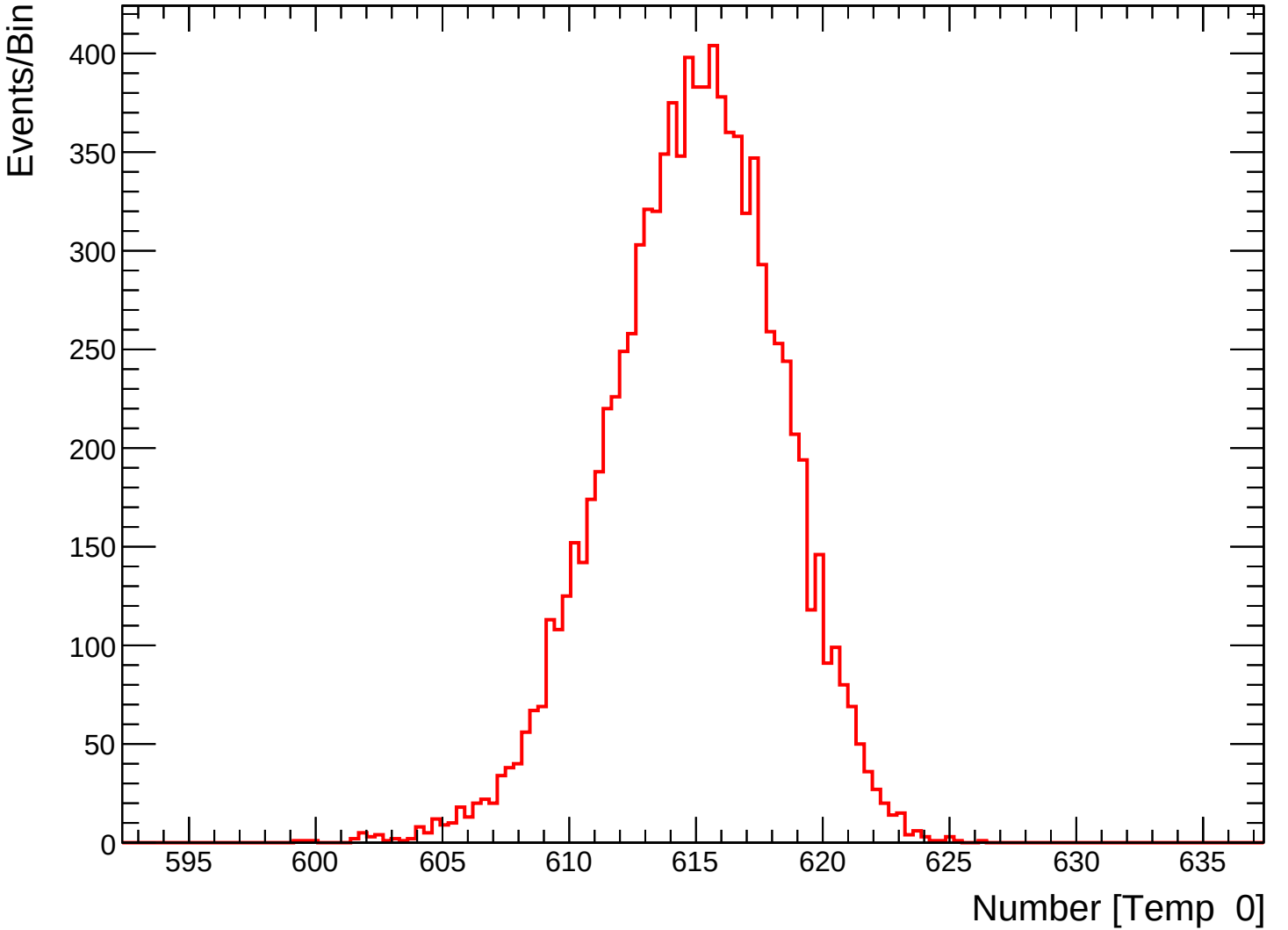

Time 26 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1455.0 ± 39.7)
e⁻+π⁻ (623.1 ± 27.0)
χ² 1.27
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

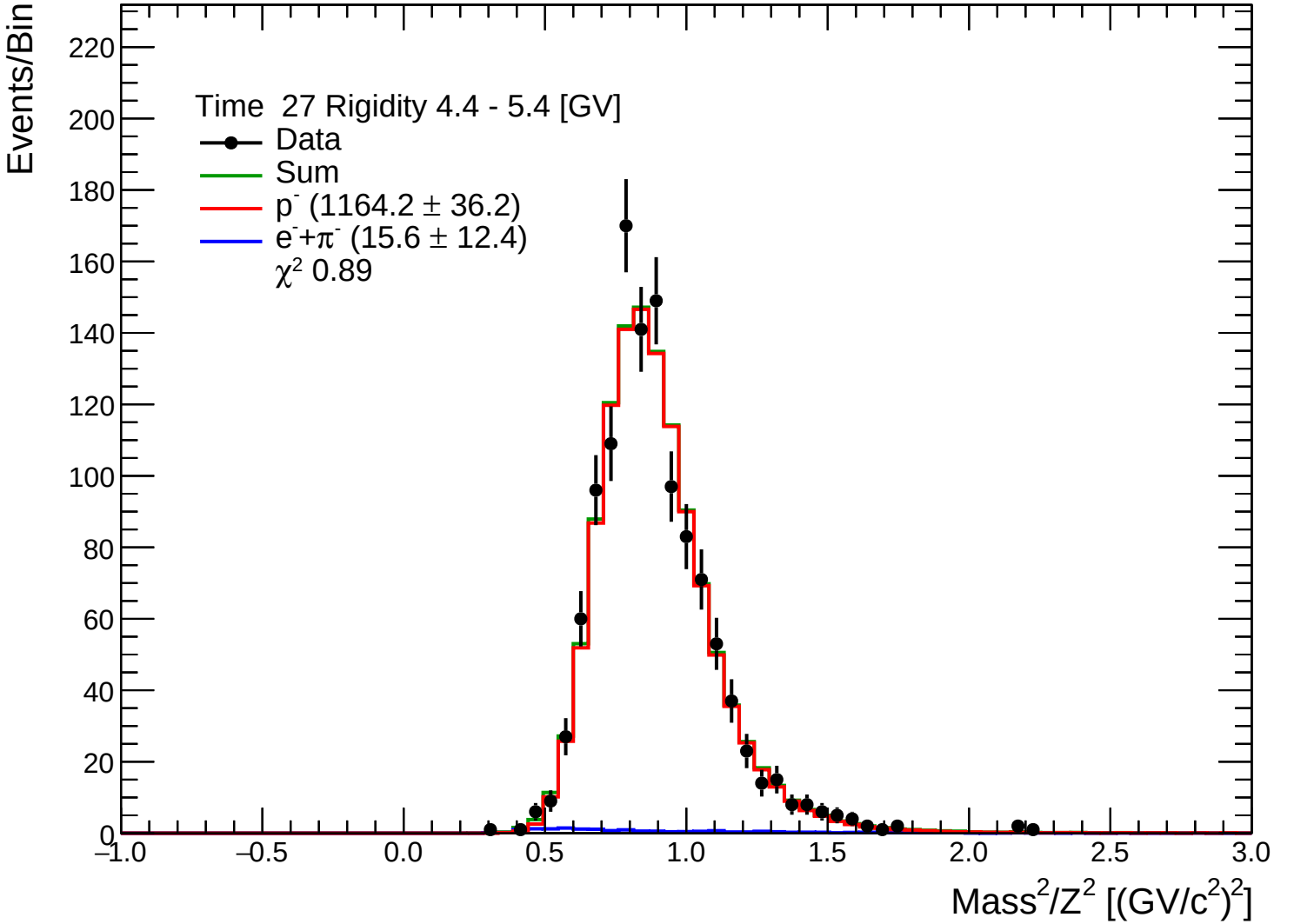

Events/Bin
400
350
300
250
200
150
100
50
0
1450
1452
1454
1456
1458
1460
Number [Temp 0]

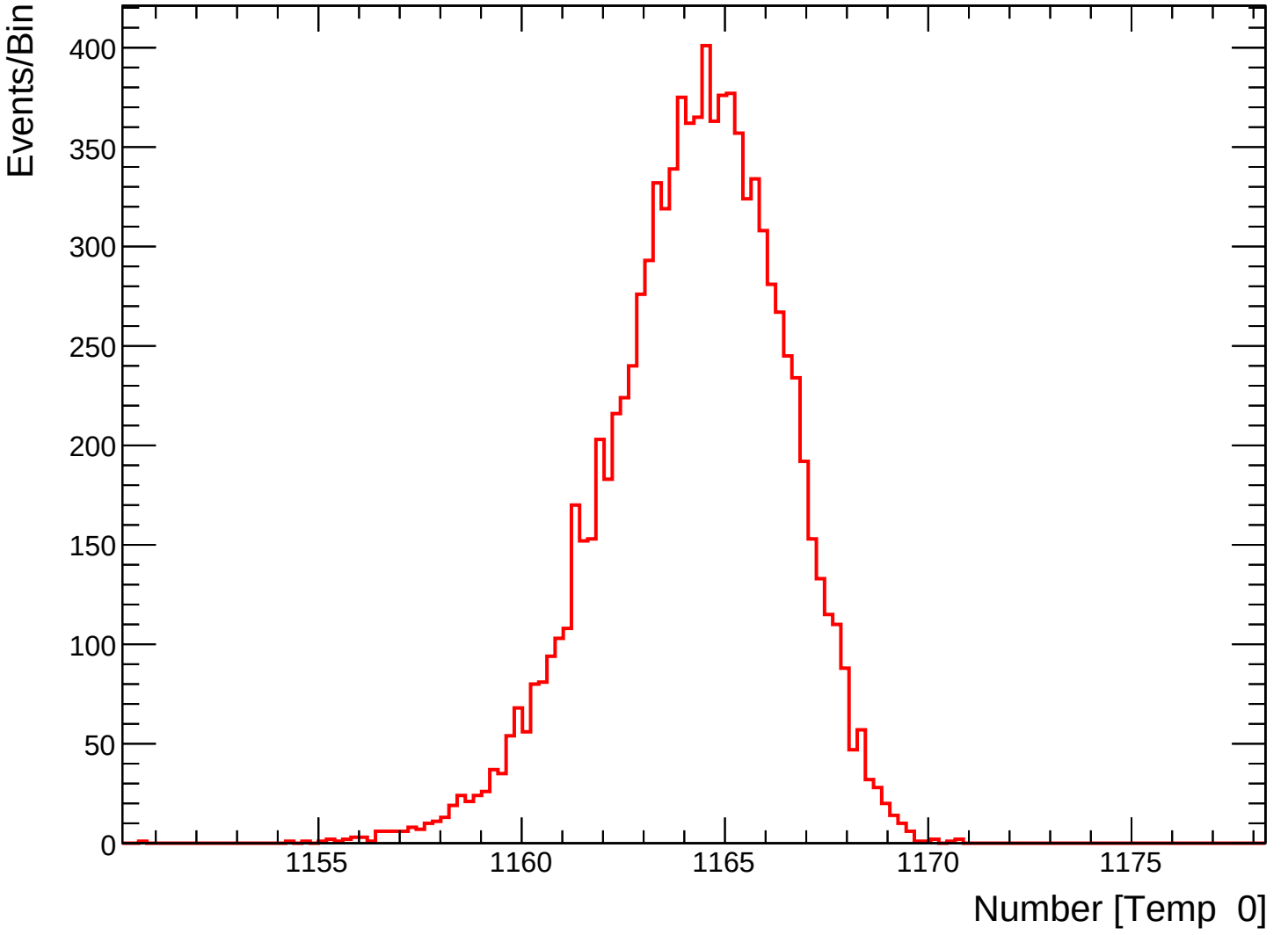

Time 26 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1336.2 ± 39.5)
e⁻+π⁻ (588.1 ± 28.2)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

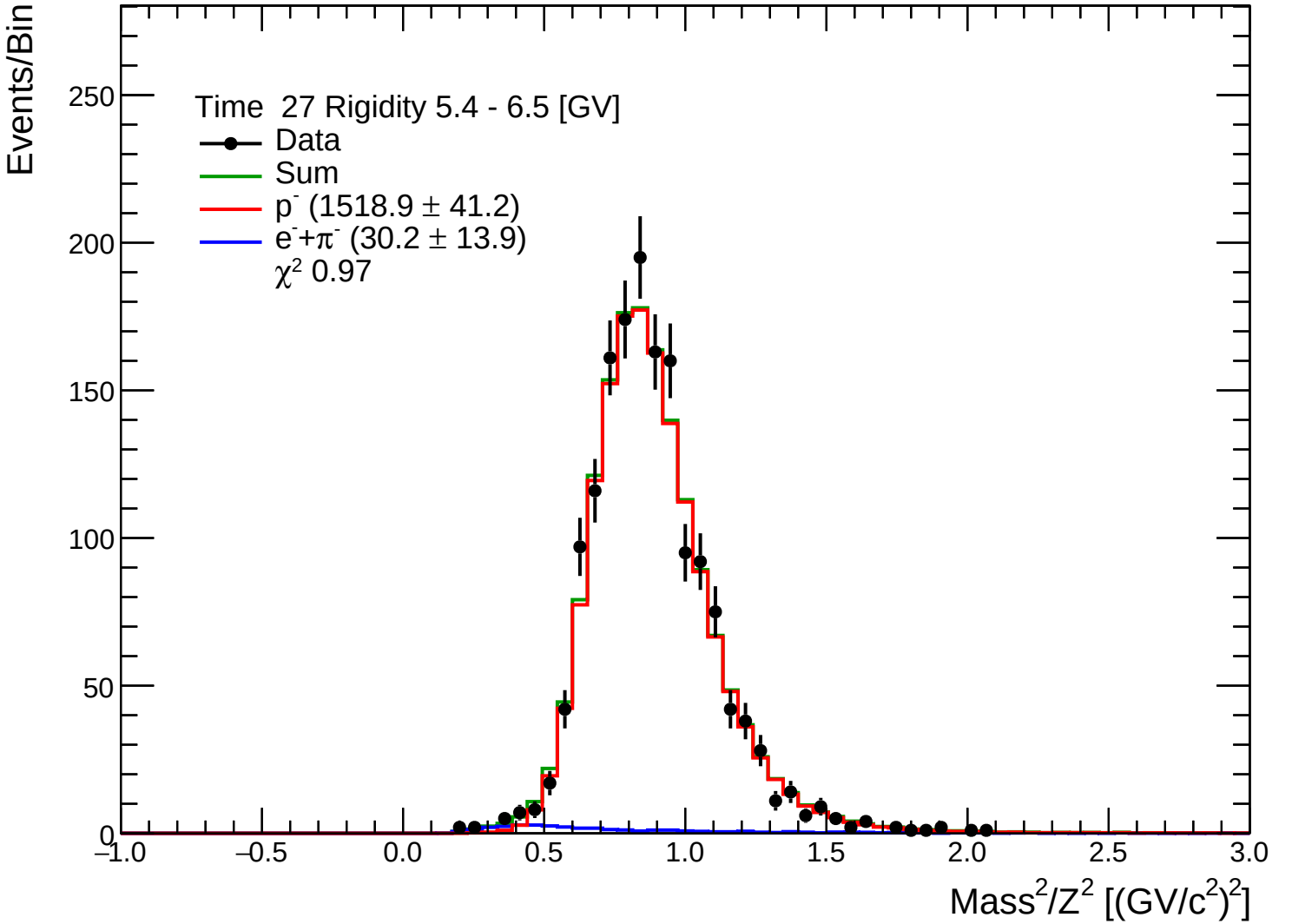

Events/Bin
400
350
300
250
200
150
100
50
0
1330
1332
1334
1336
1338
1340
1342
1344
Number [Temp 0]

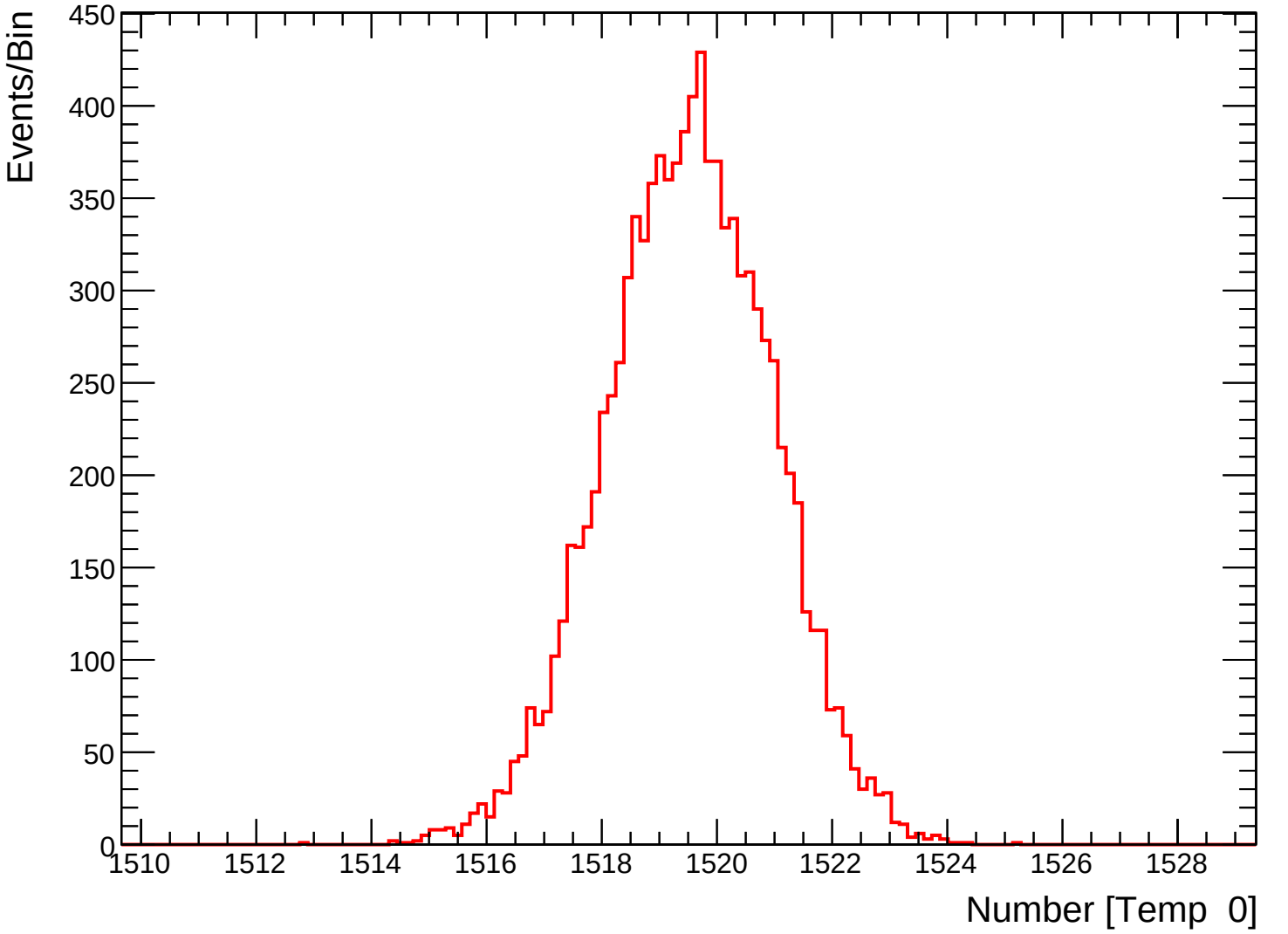

Time 27 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (613.6 ± 28.8)
e⁻+π⁻ (44.7 ± 16.0)
χ² 1.03
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

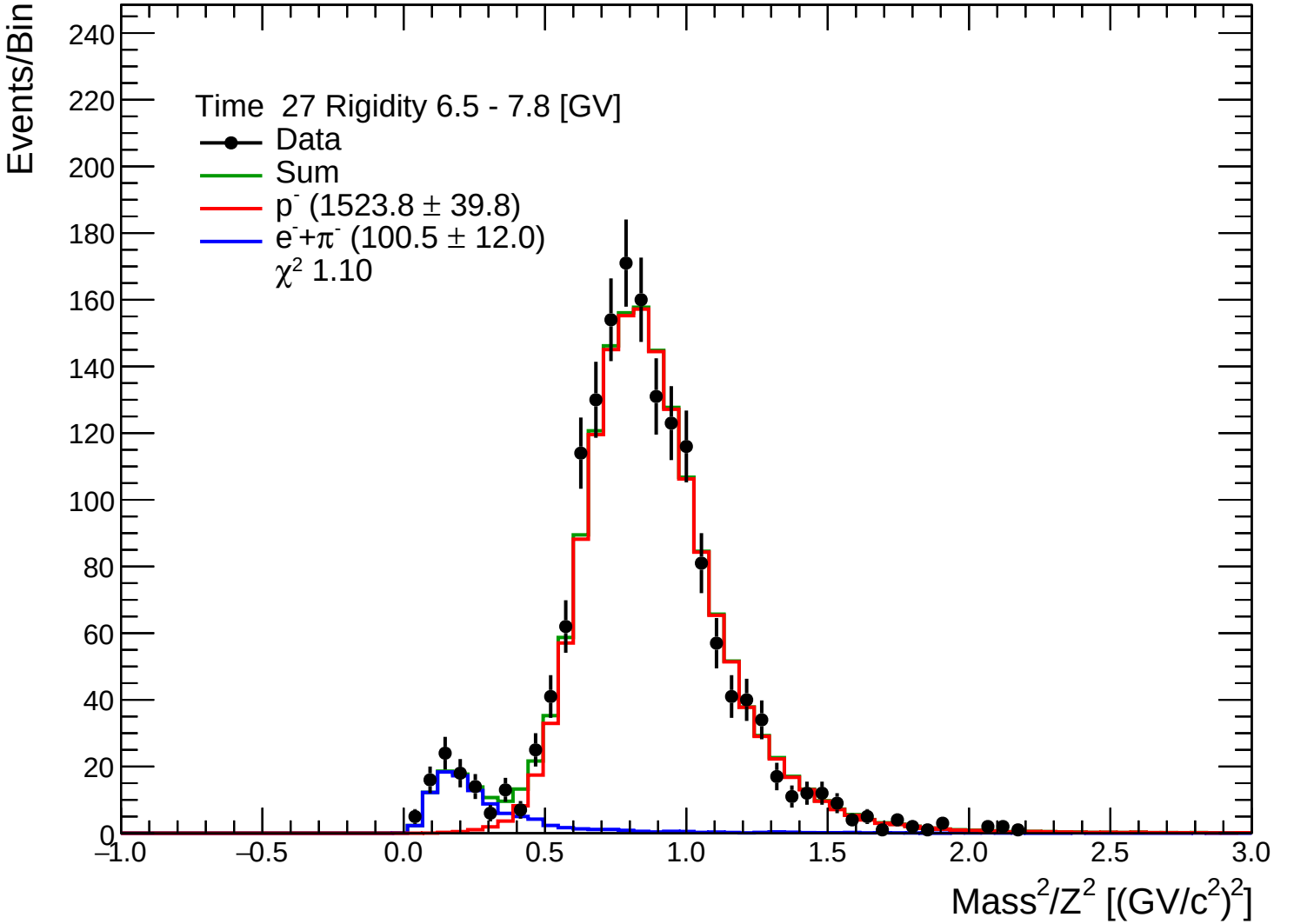

Events/Bin
400
350
300
250
200
150
100
50
0
595
600
605
610
615
620
625
630
635
Number [Temp 0]

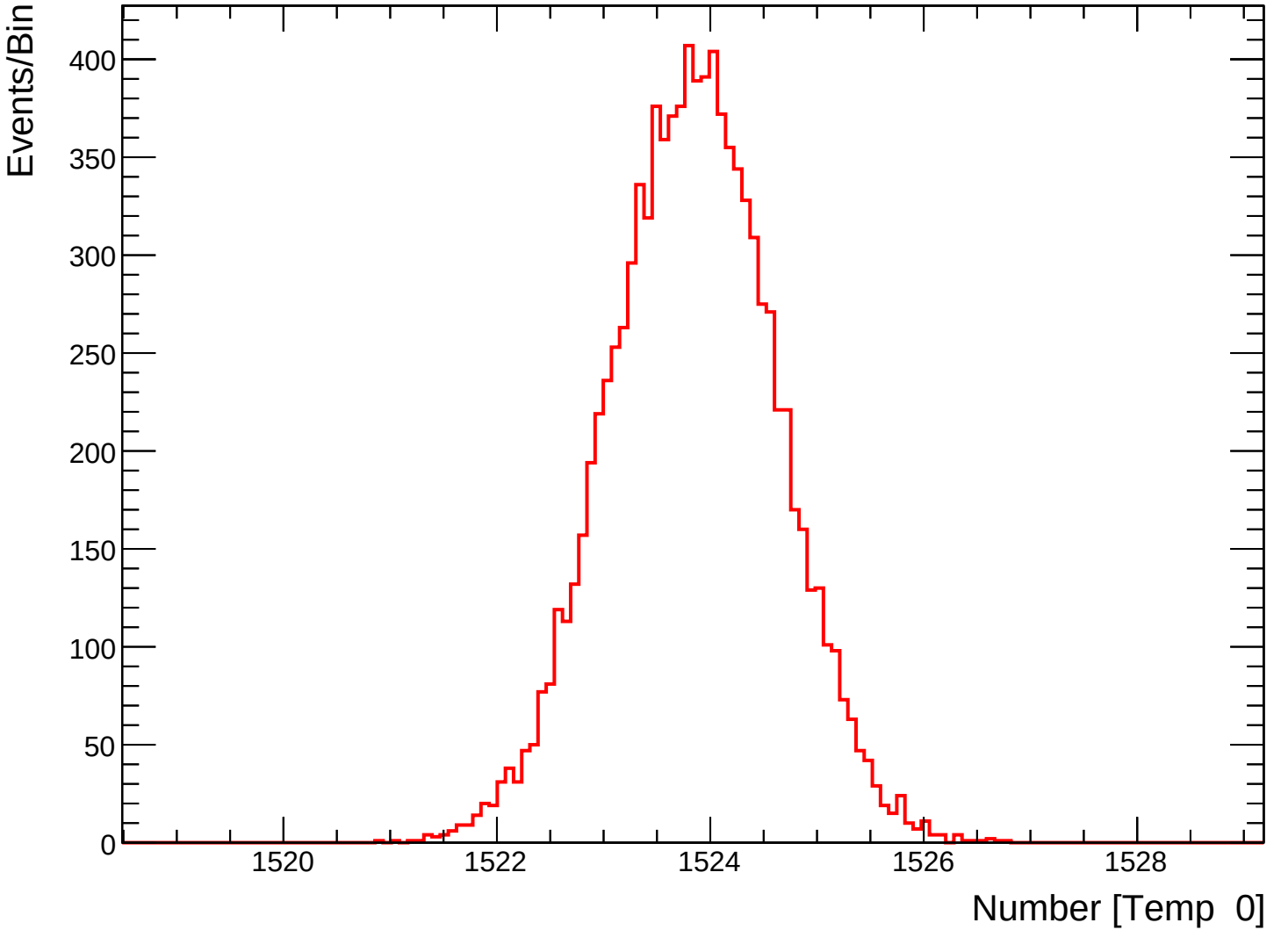

Time 27 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1164.2 ± 36.2)
e⁻+π⁻ (15.6 ± 12.4)
χ² 0.89
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

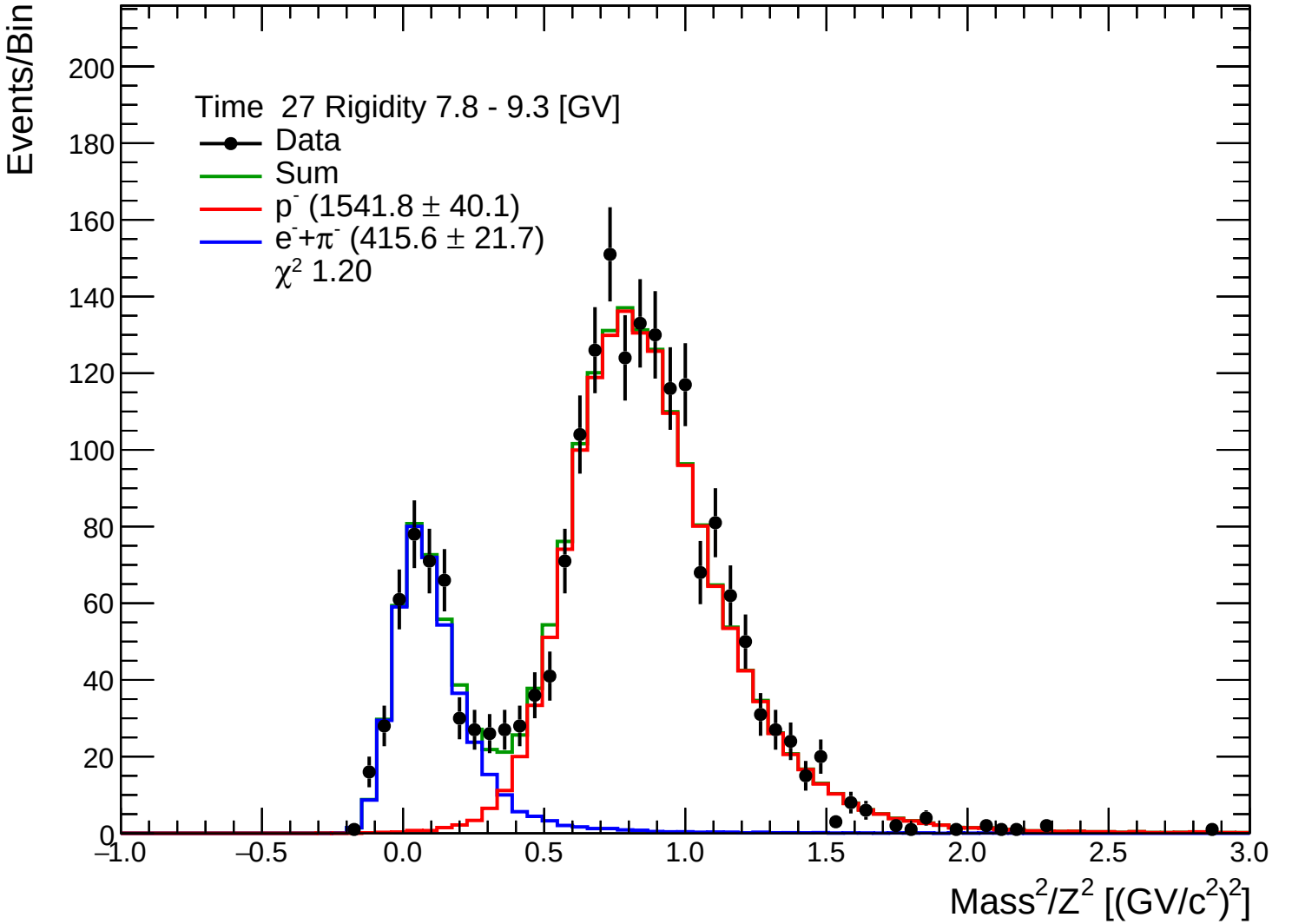

Events/Bin
400
350
300
250
200
150
100
50
0
1155
1160
1165
1170
1175
Number [Temp 0]

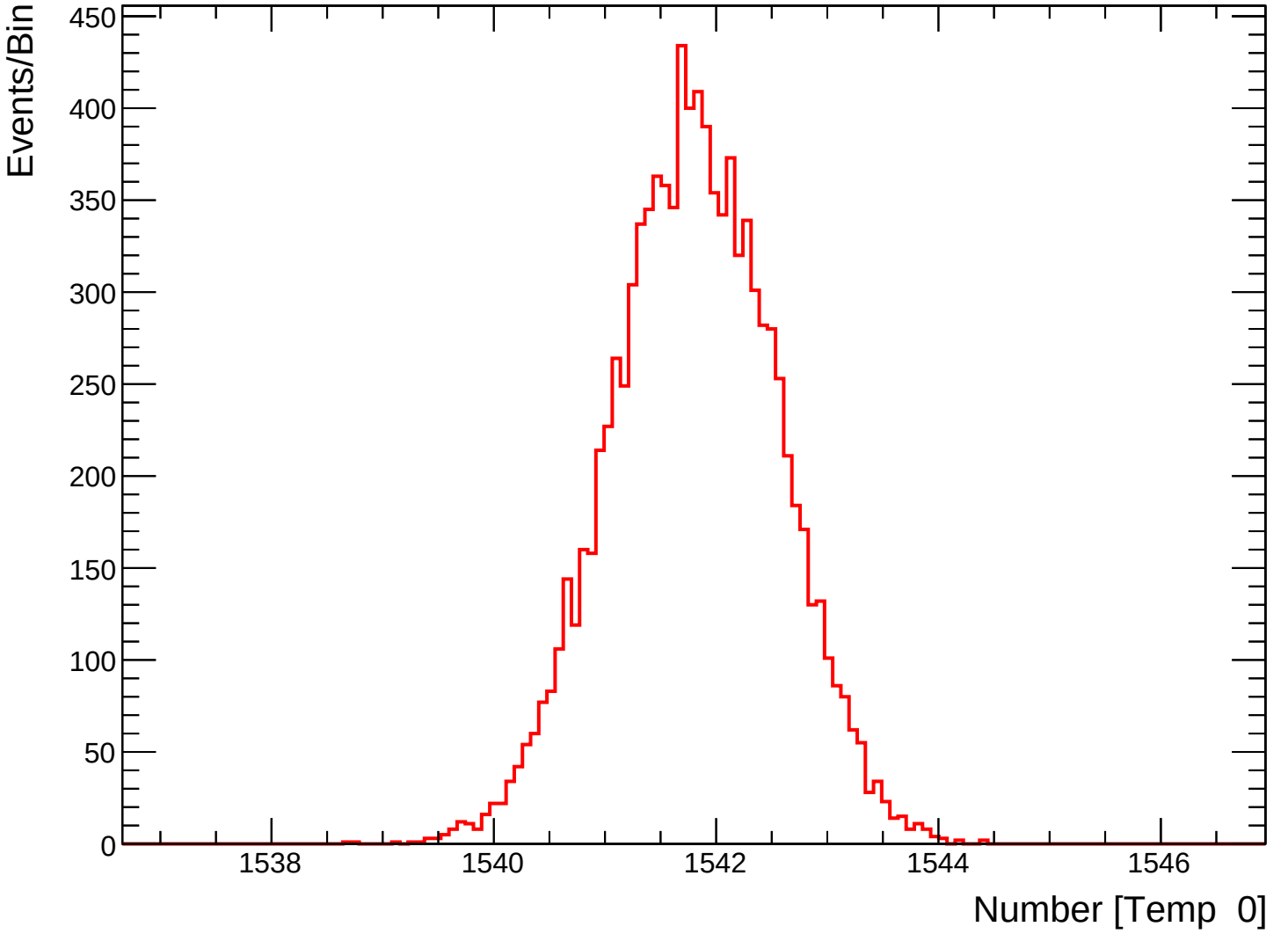

Time 27 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1518.9 ± 41.2)
e⁻+π⁻ (30.2 ± 13.9)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

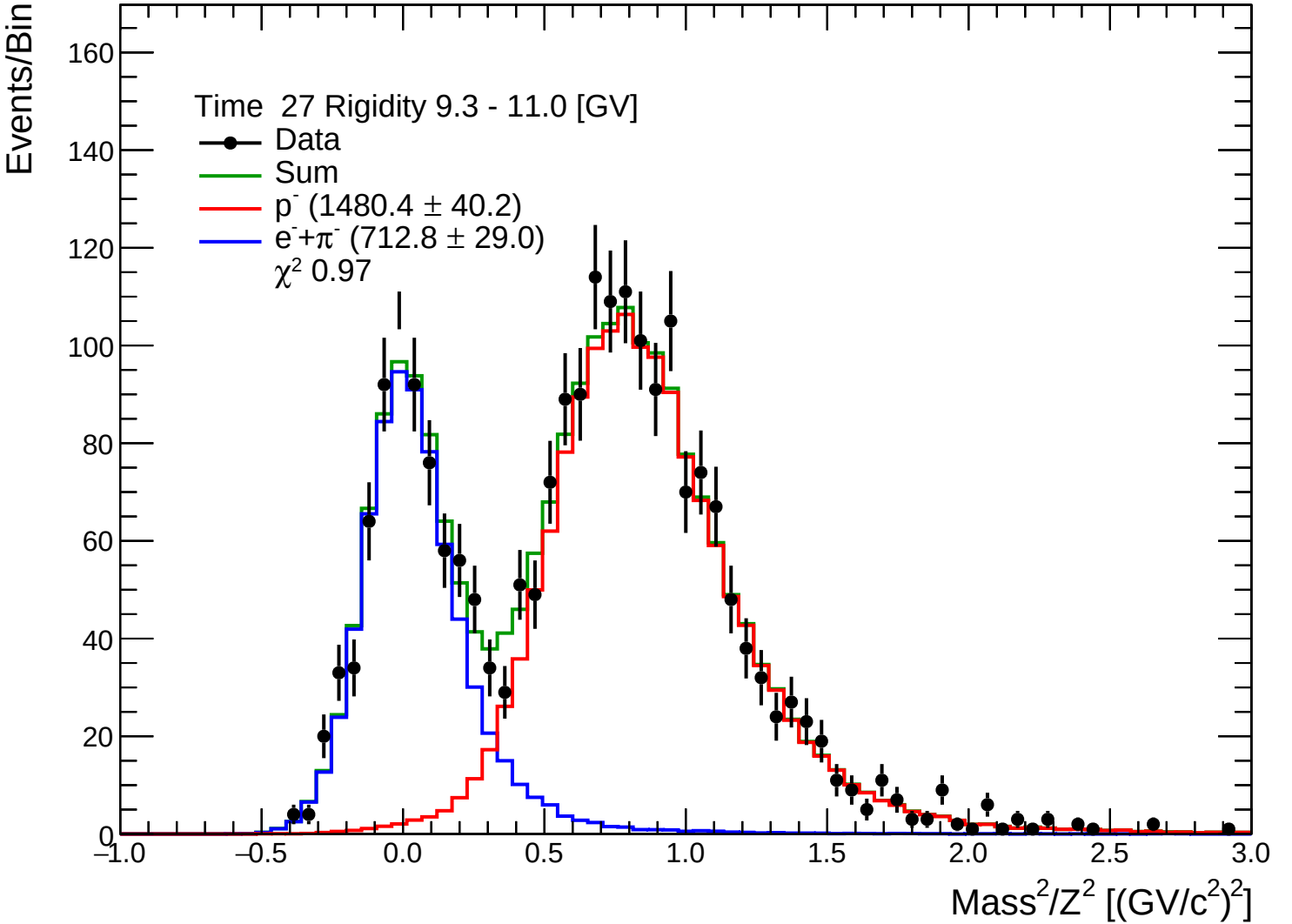

Events/Bin
450
400
350
300
250
200
150
100
50
0
1510
1512
1514
1516
1518
1520
1522
1524
1526
1528
Number [Temp 0]

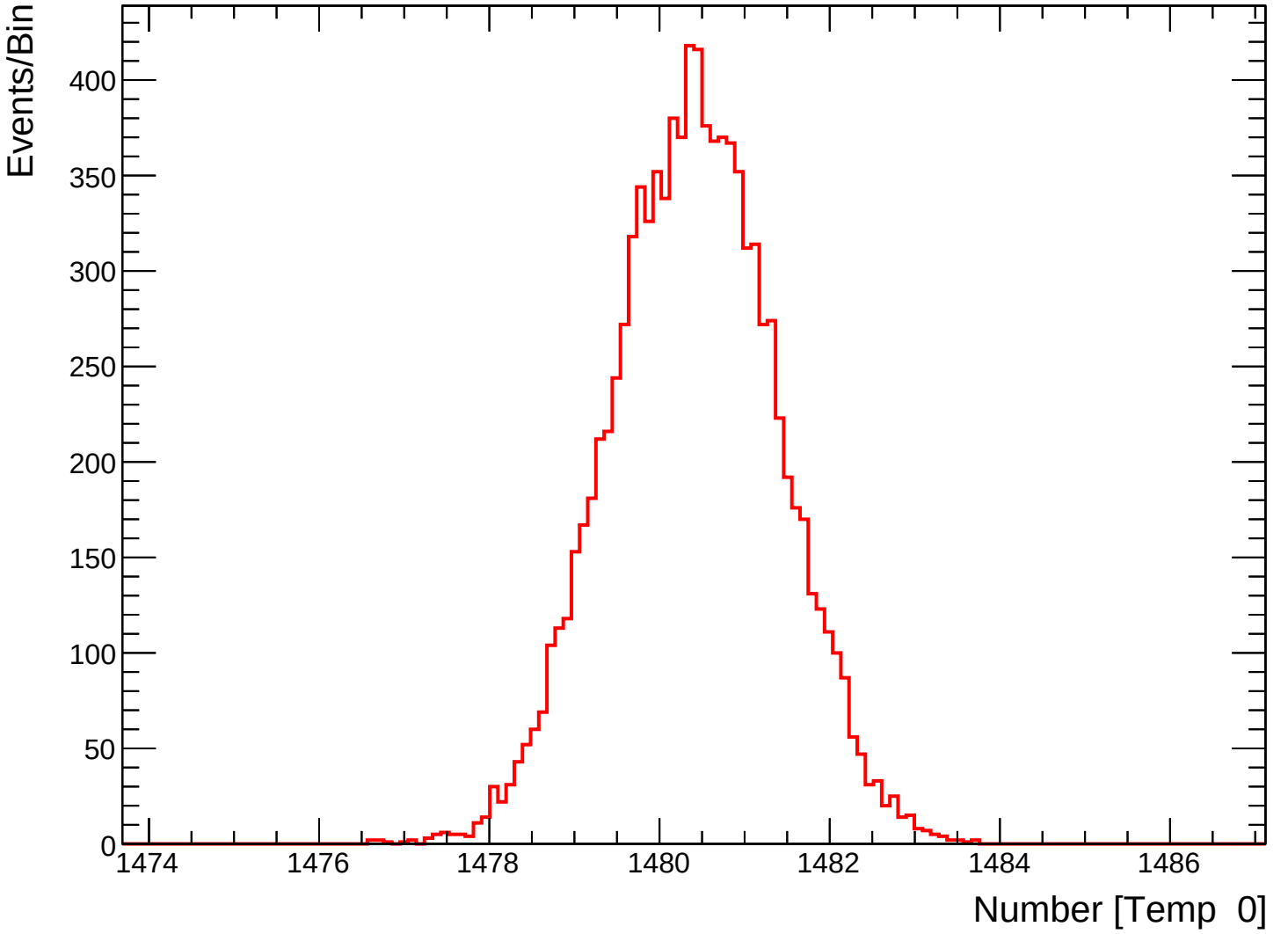

Time 27 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1523.8 ± 39.8)
e⁻+π⁻ (100.5 ± 12.0)
χ² 1.10
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
240
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

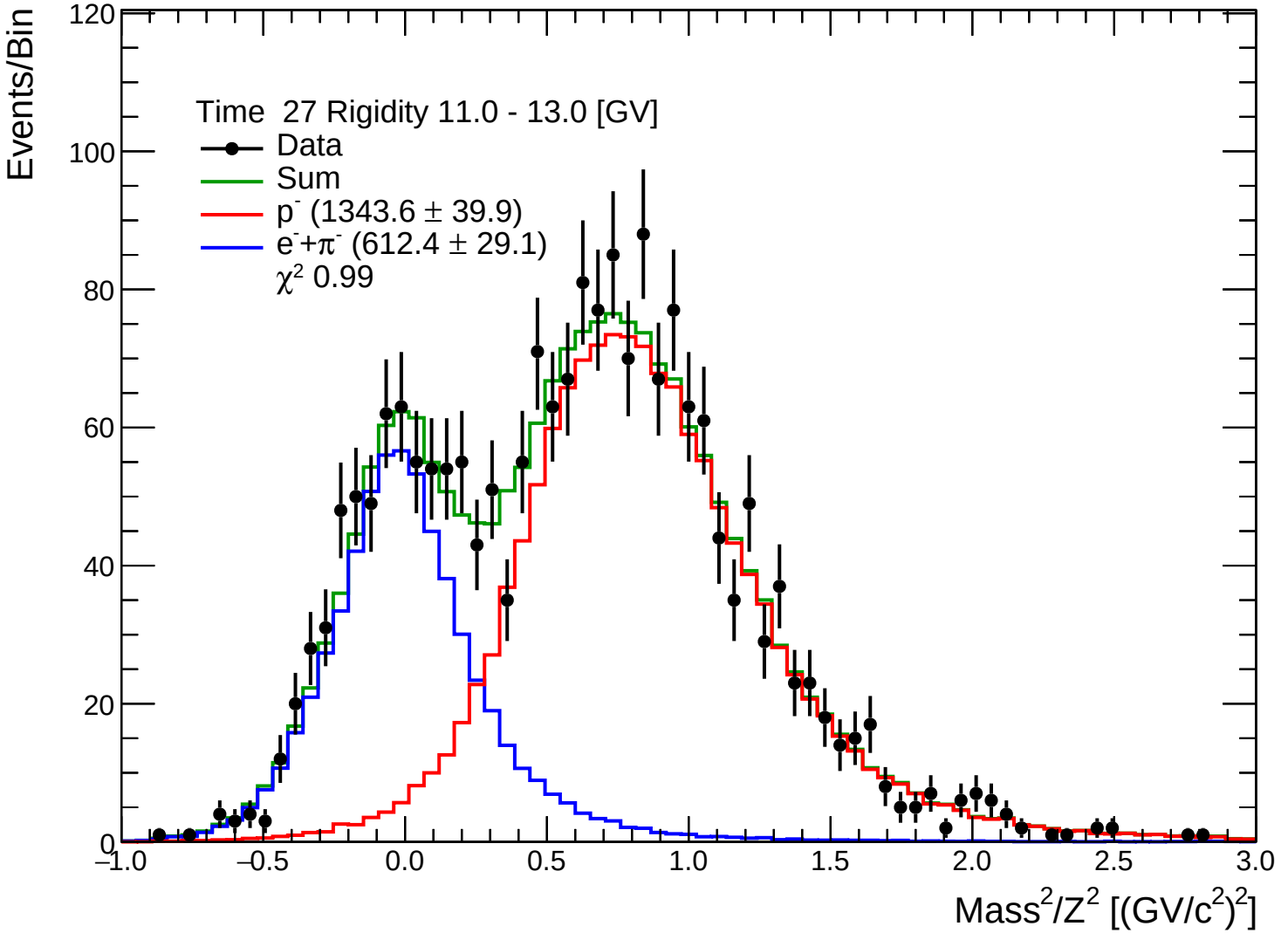

Events/Bin
400
350
300
250
200
150
100
50
0
1520
1522
1524
1526
1528
Number [Temp 0]

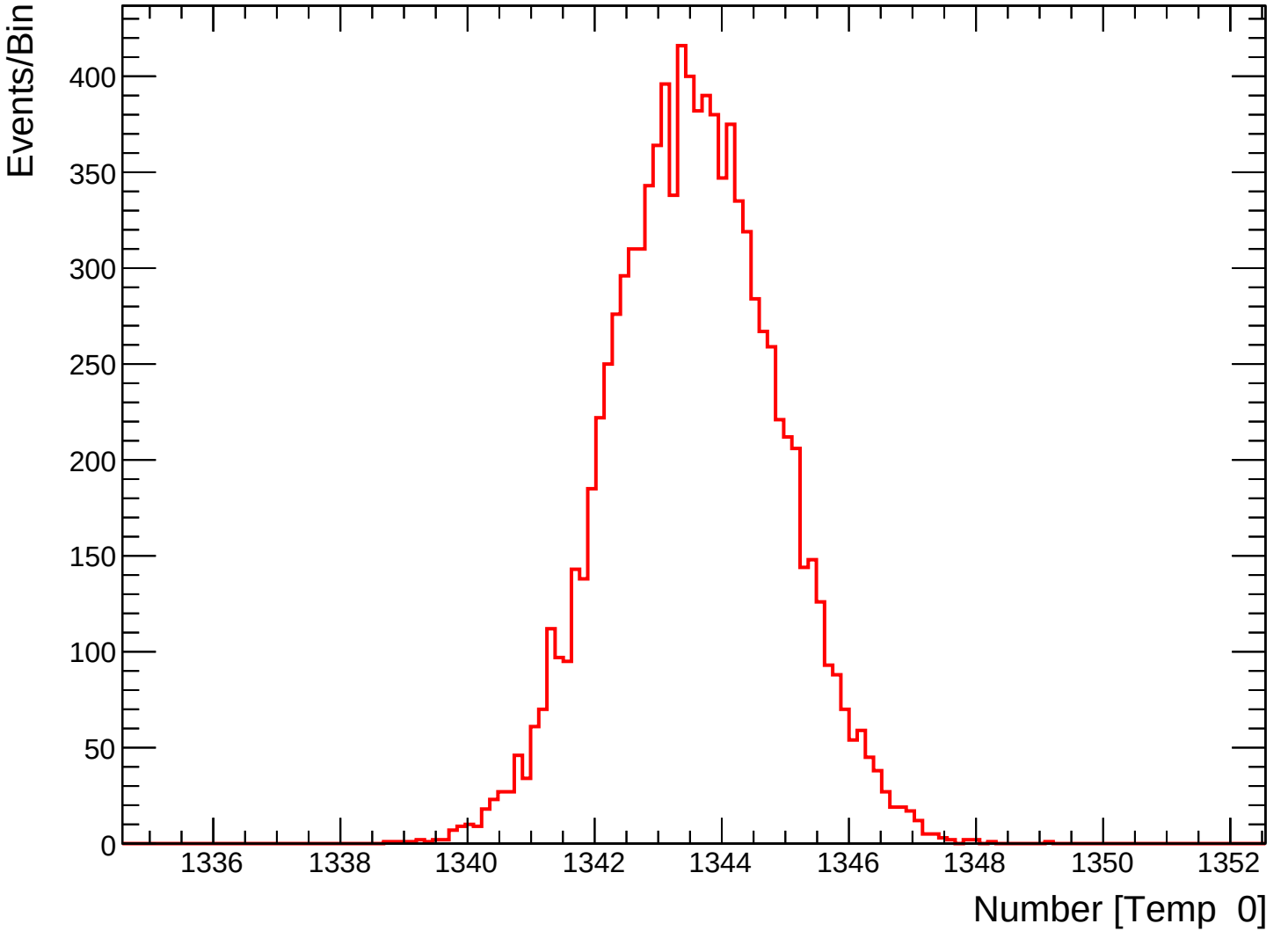

Time 27 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1541.8 ± 40.1)
e⁻+π⁻ (415.6 ± 21.7)
χ² 1.20
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

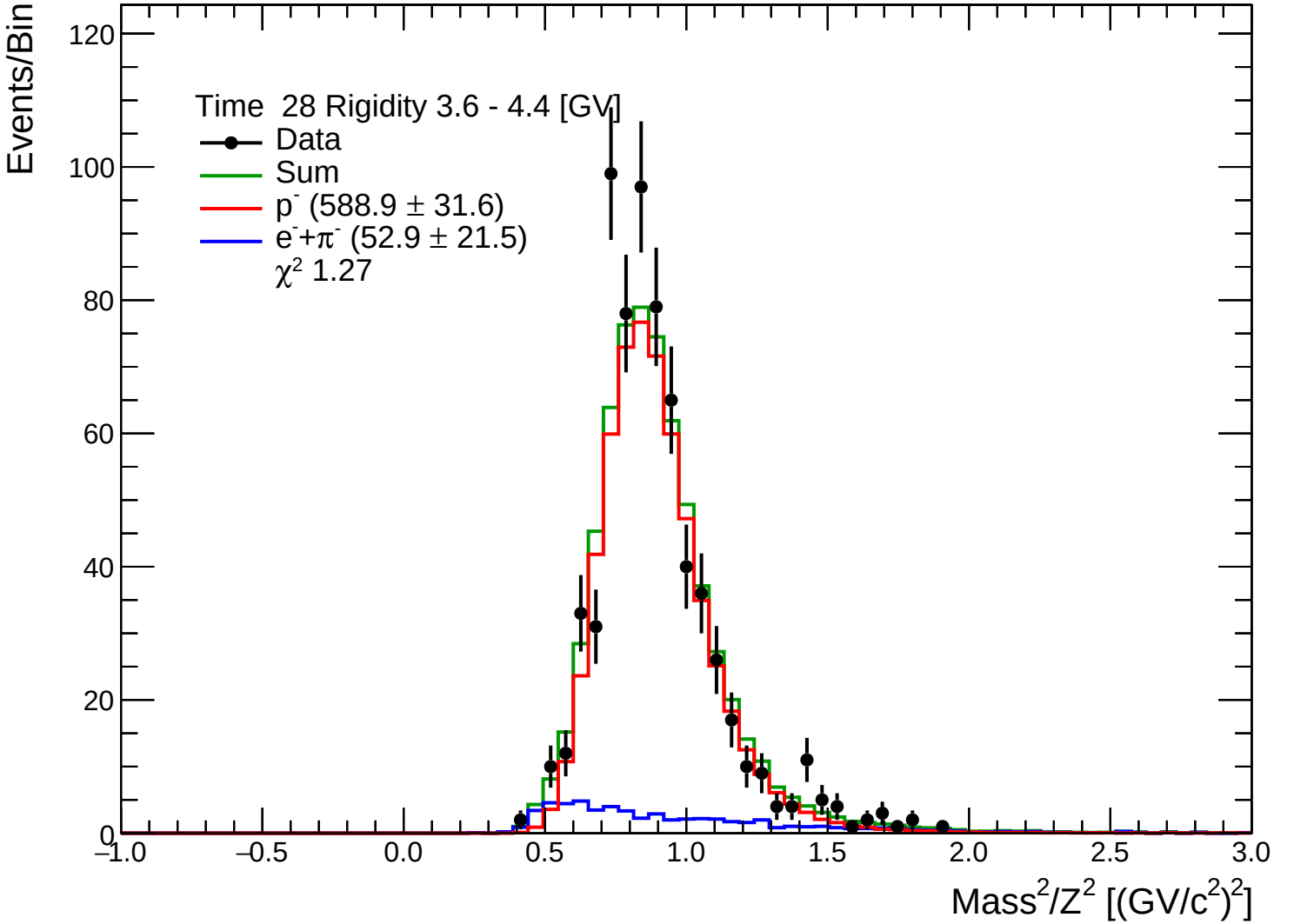

Events/Bin
450
400
350
300
250
200
150
100
50
0
1538
1540
1542
1544
1546
Number [Temp 0]

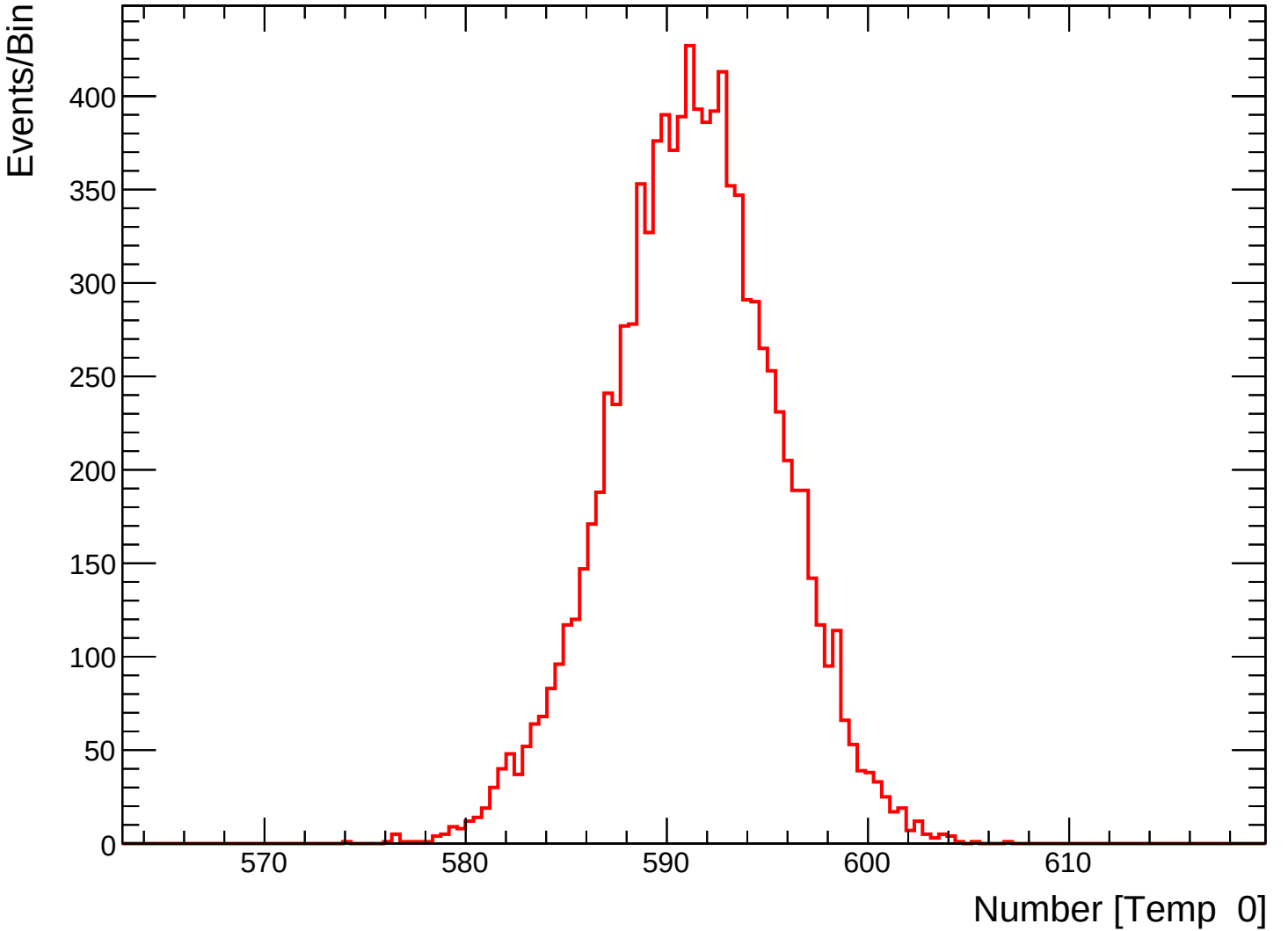

Time 27 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1480.4 ± 40.2)
e⁻+π⁻ (712.8 ± 29.0)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

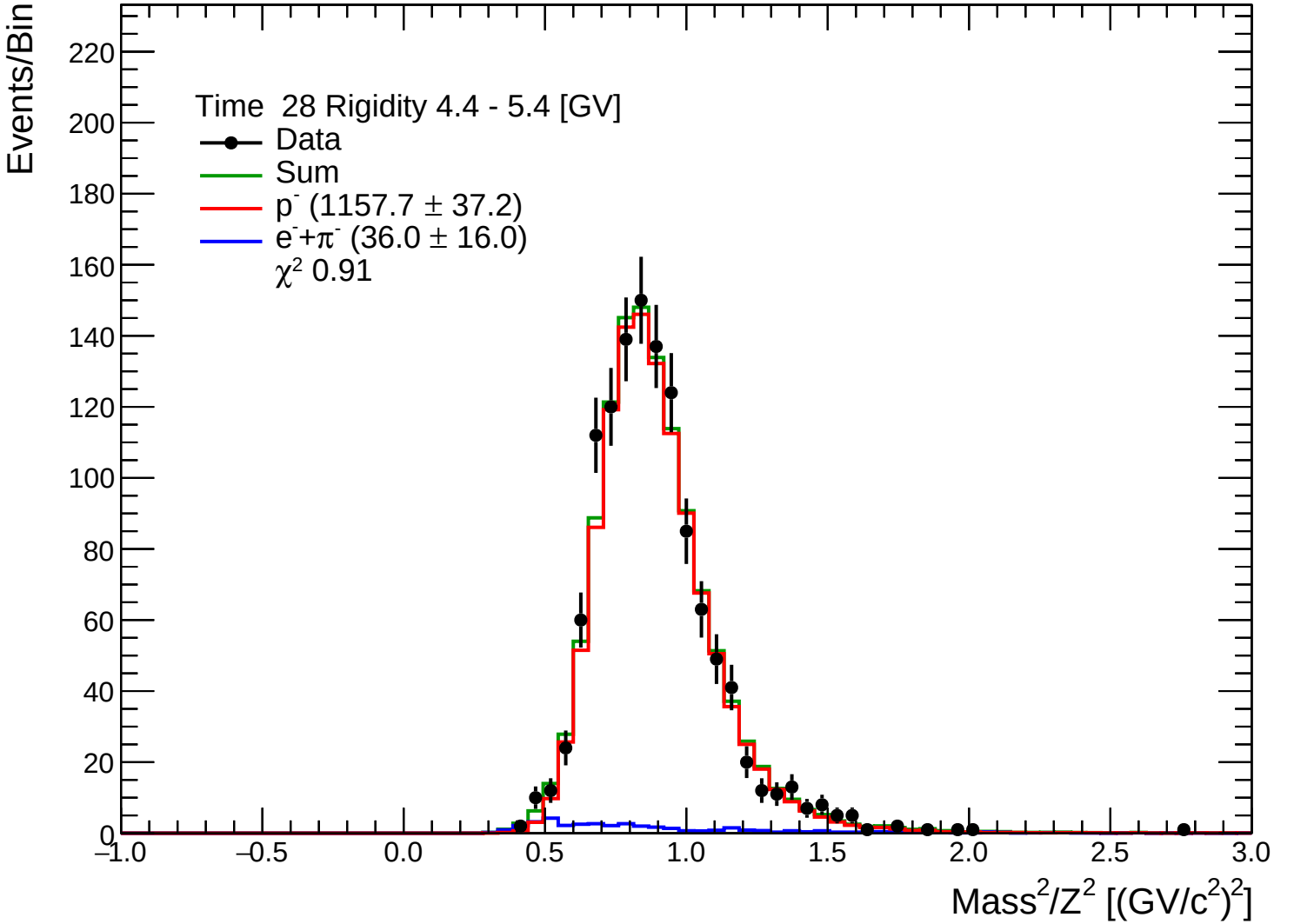

Events/Bin
400
350
300
250
200
150
100
50
0
1474
1476
1478
1480
1482
1484
1486
Number [Temp 0]

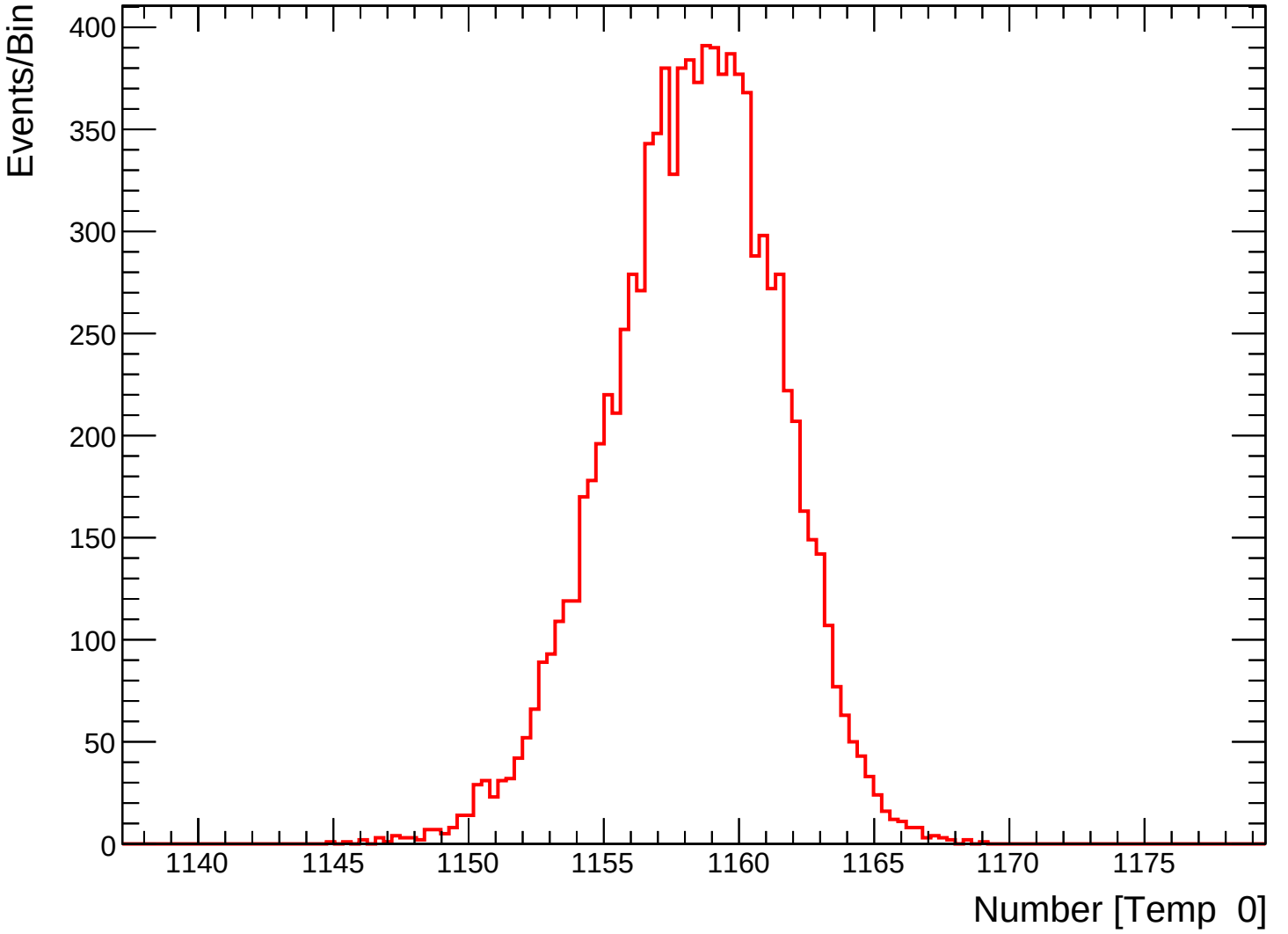

Time 27 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1343.6 ± 39.9)
e⁻+π⁻ (612.4 ± 29.1)
χ² 0.99
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

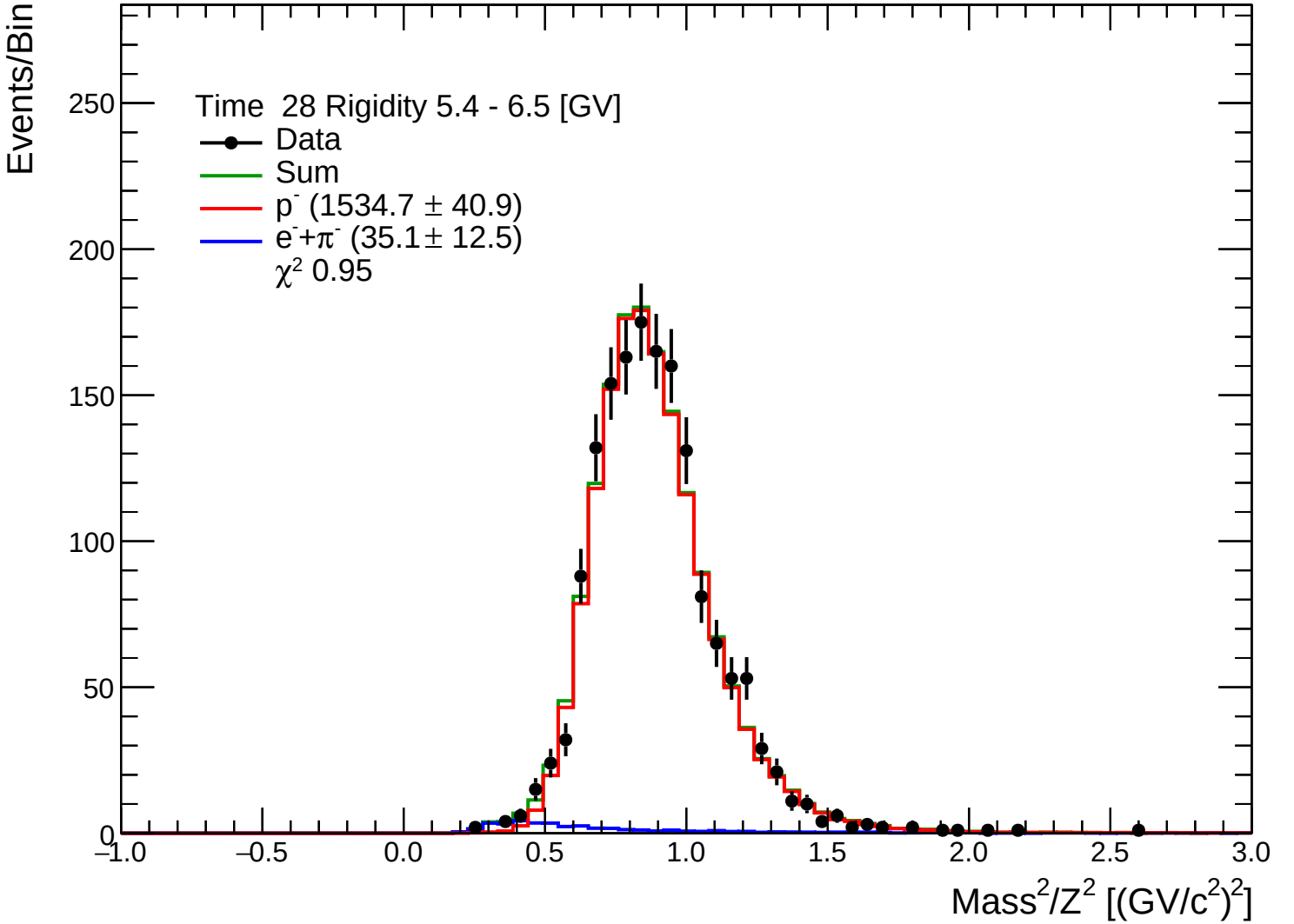

Events/Bin
400
350
300
250
200
150
100
50
0
1336
1338
1340
1342
1344
1346
1348
1350
1352
Number [Temp 0]

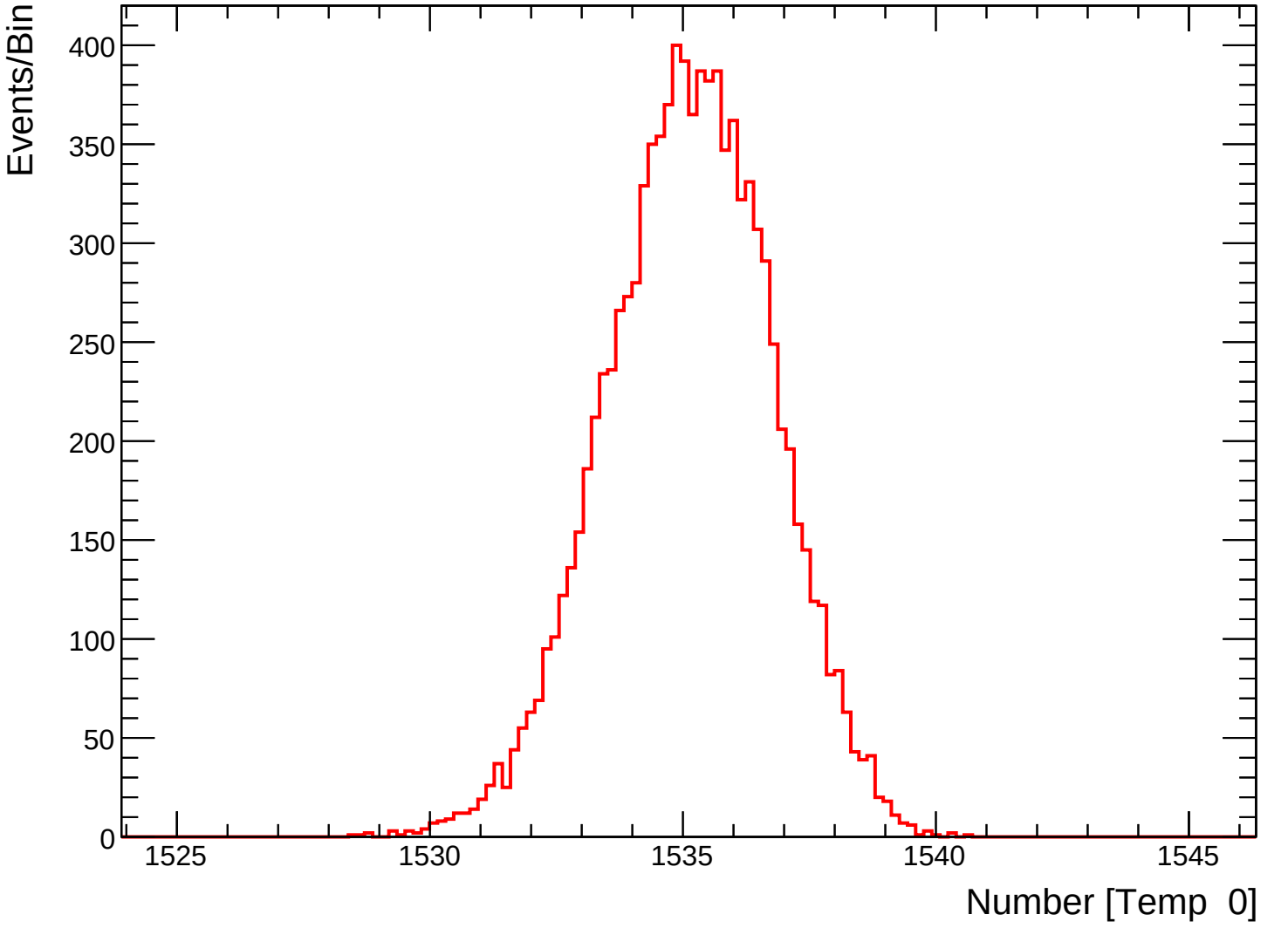

Time 28 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (588.9 ± 31.6)
e⁻+π⁻ (52.9 ± 21.5)
χ² 1.27
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

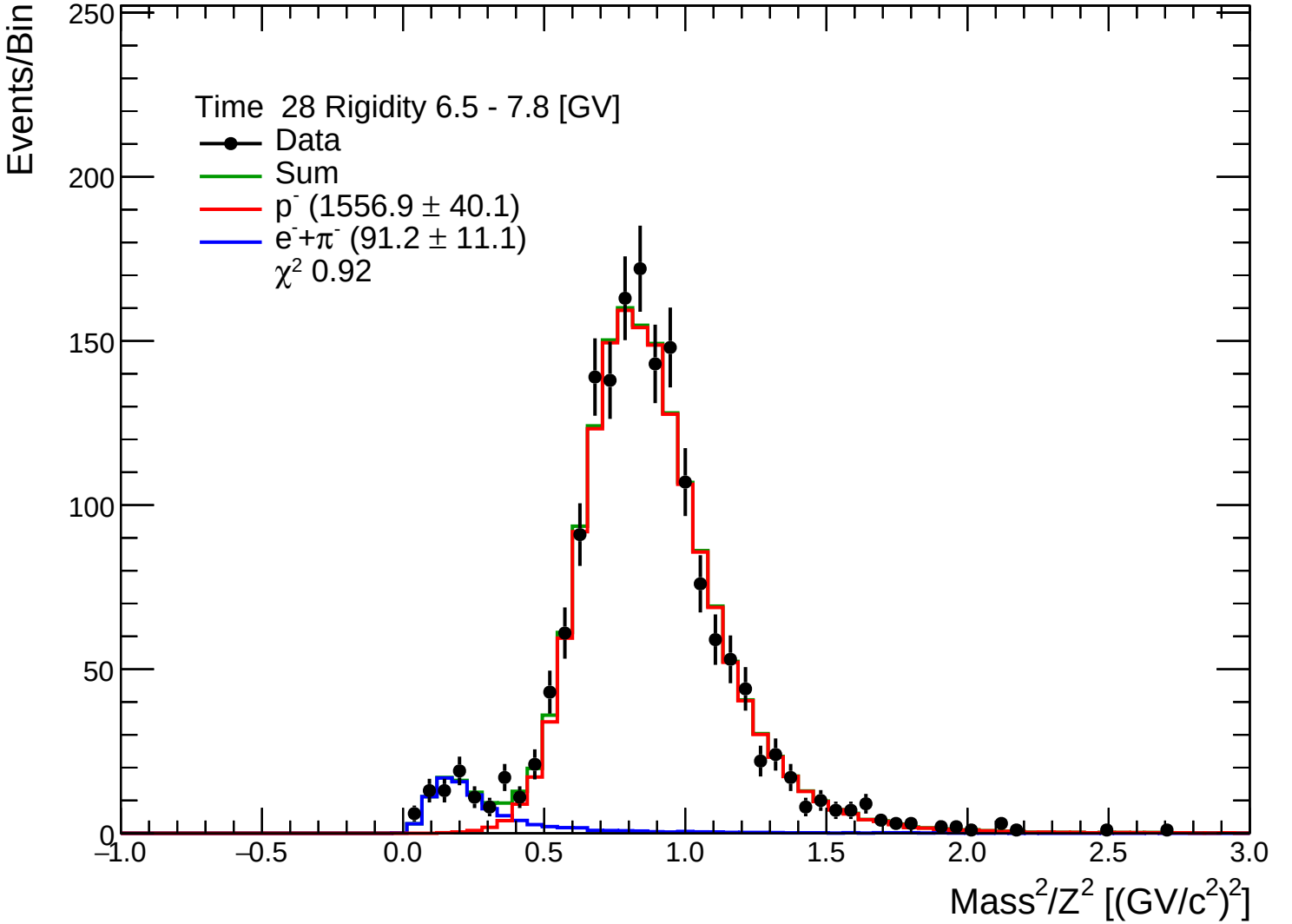

Events/Bin
400
350
300
250
200
150
100
50
0
570
580
590
600
610
Number [Temp 0]

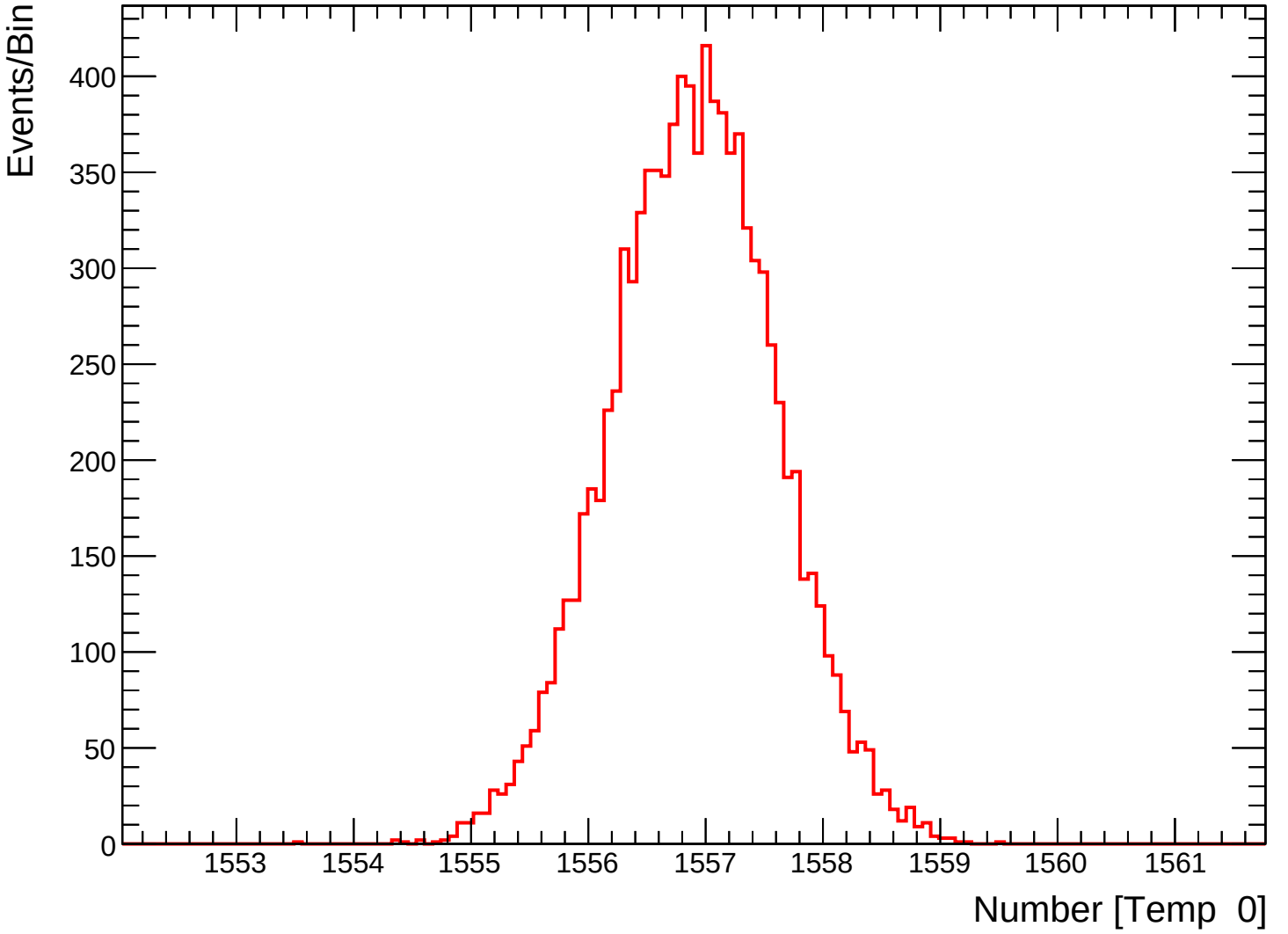

Time 28 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1157.7 ± 37.2)
e⁻+π⁻ (36.0 ± 16.0)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

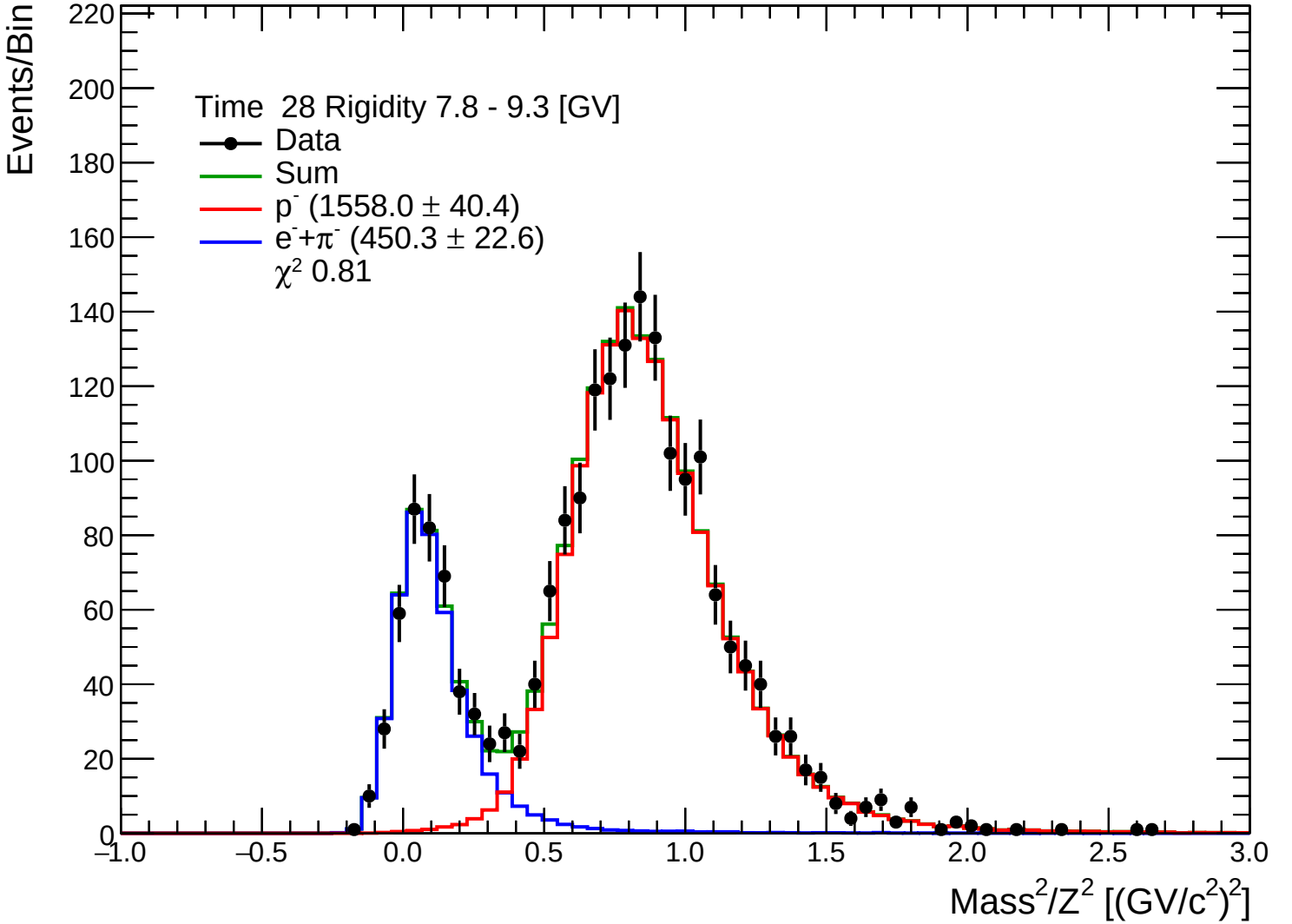

Events/Bin
400
350
300
250
200
150
100
50
0
1140
1145
1150
1155
1160
1165
1170
1175
Number [Temp 0]

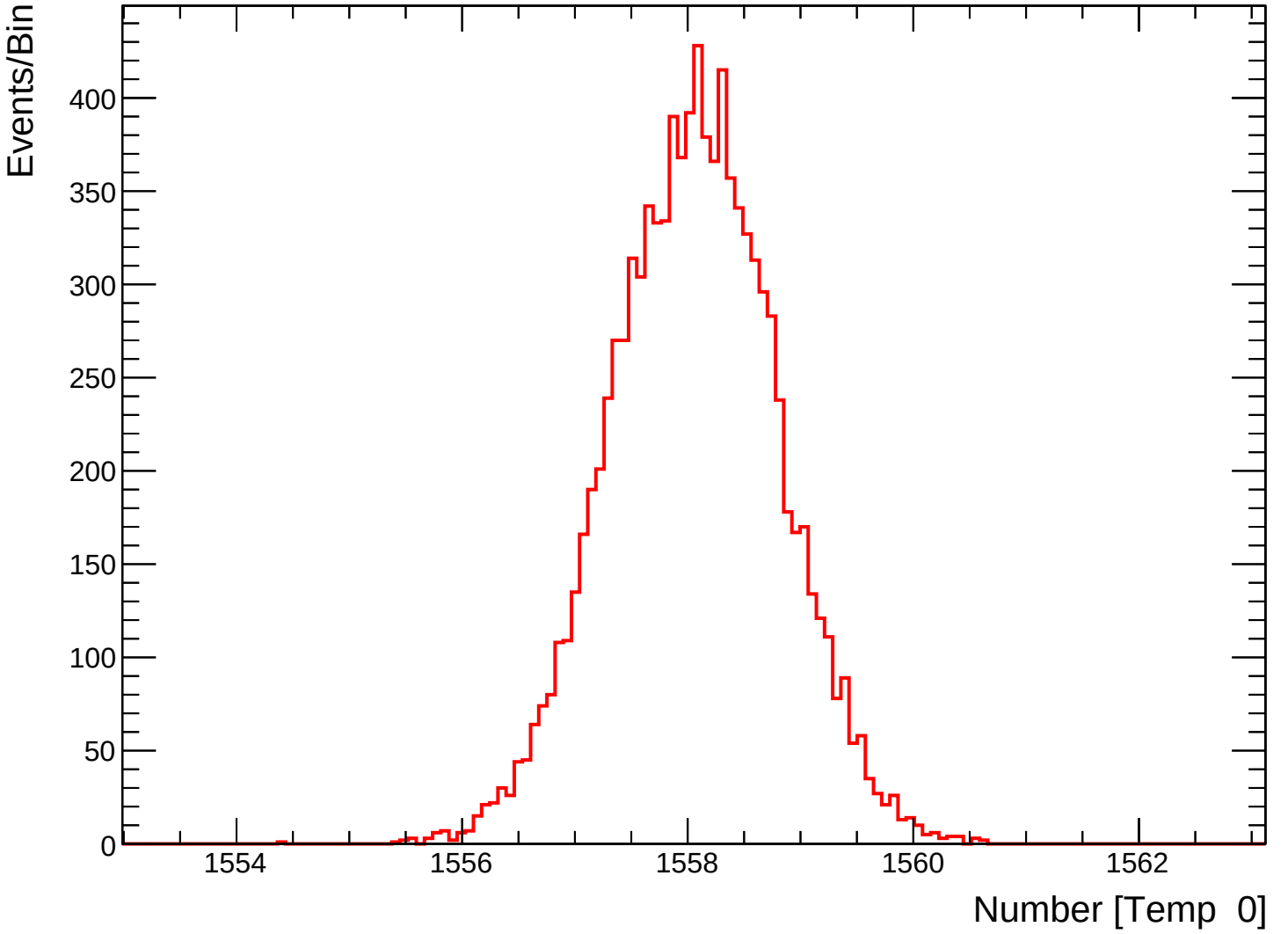

Time 28 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1534.7 ± 40.9)
e⁻+π⁻ (35.1± 12.5)
χ² 0.95
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

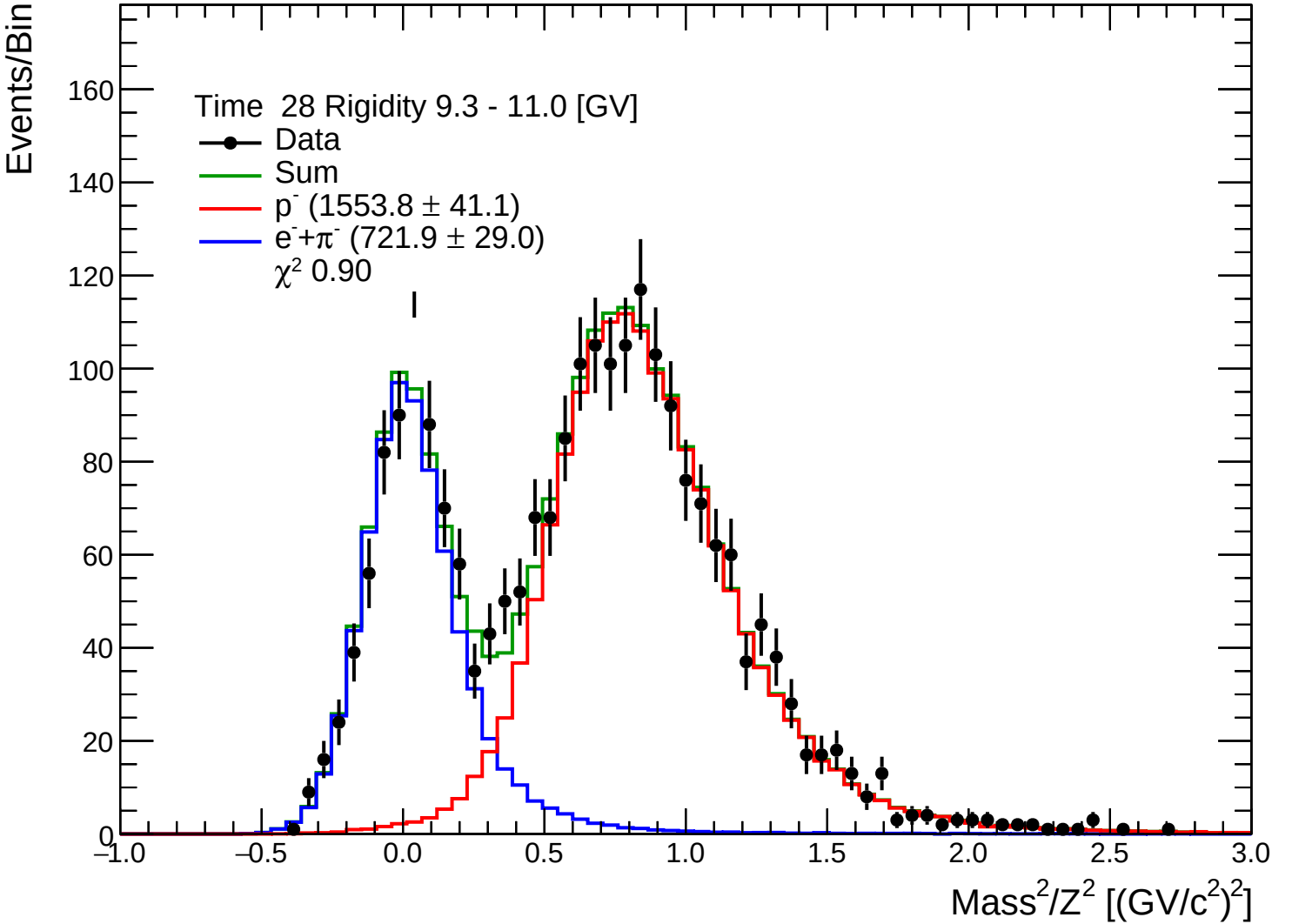

Events/Bin
400
350
300
250
200
150
100
50
0
1525
1530
1535
1540
1545
Number [Temp 0]

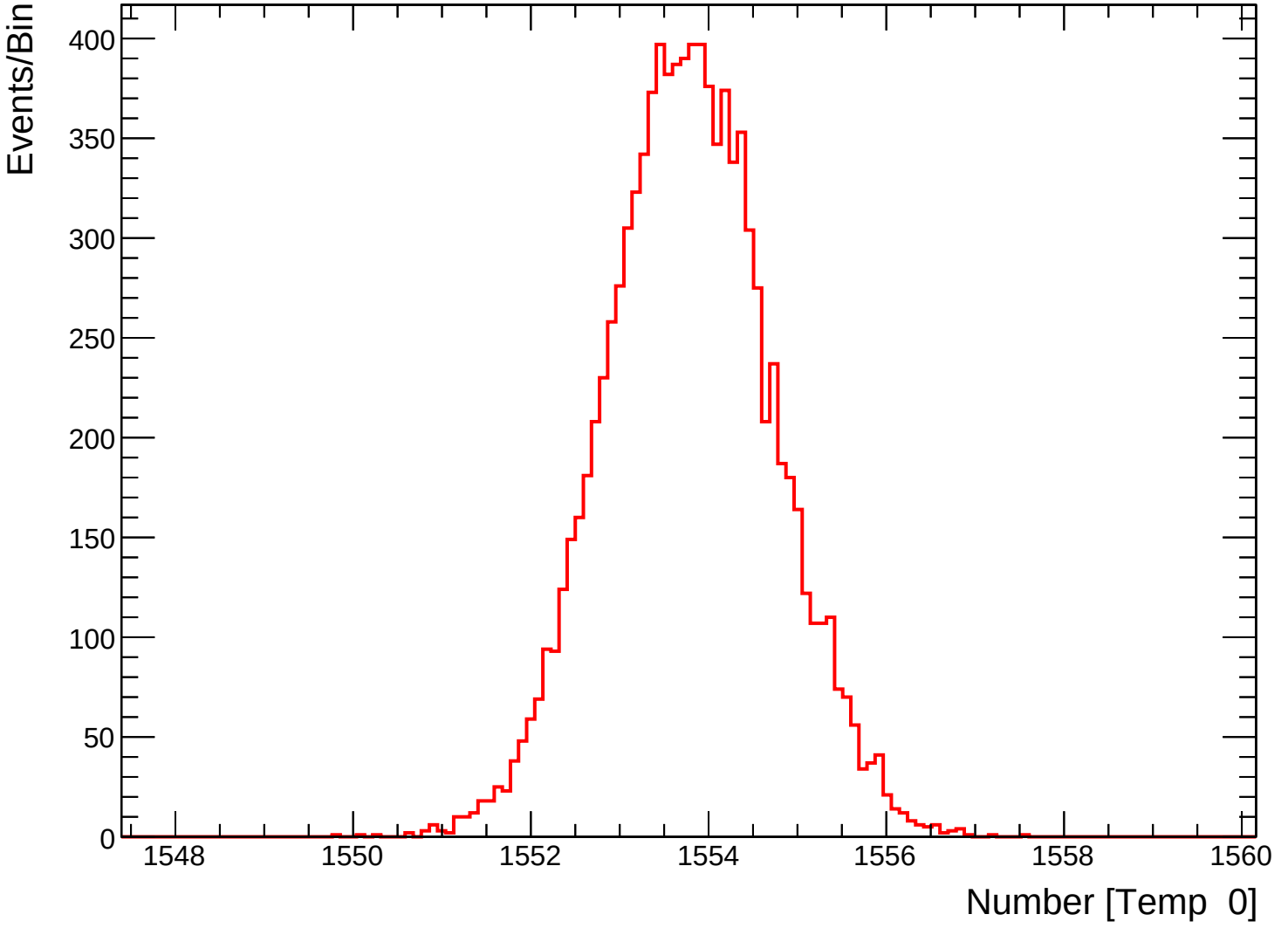

Time 28 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1556.9 ± 40.1)
e⁻+π⁻ (91.2 ± 11.1)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

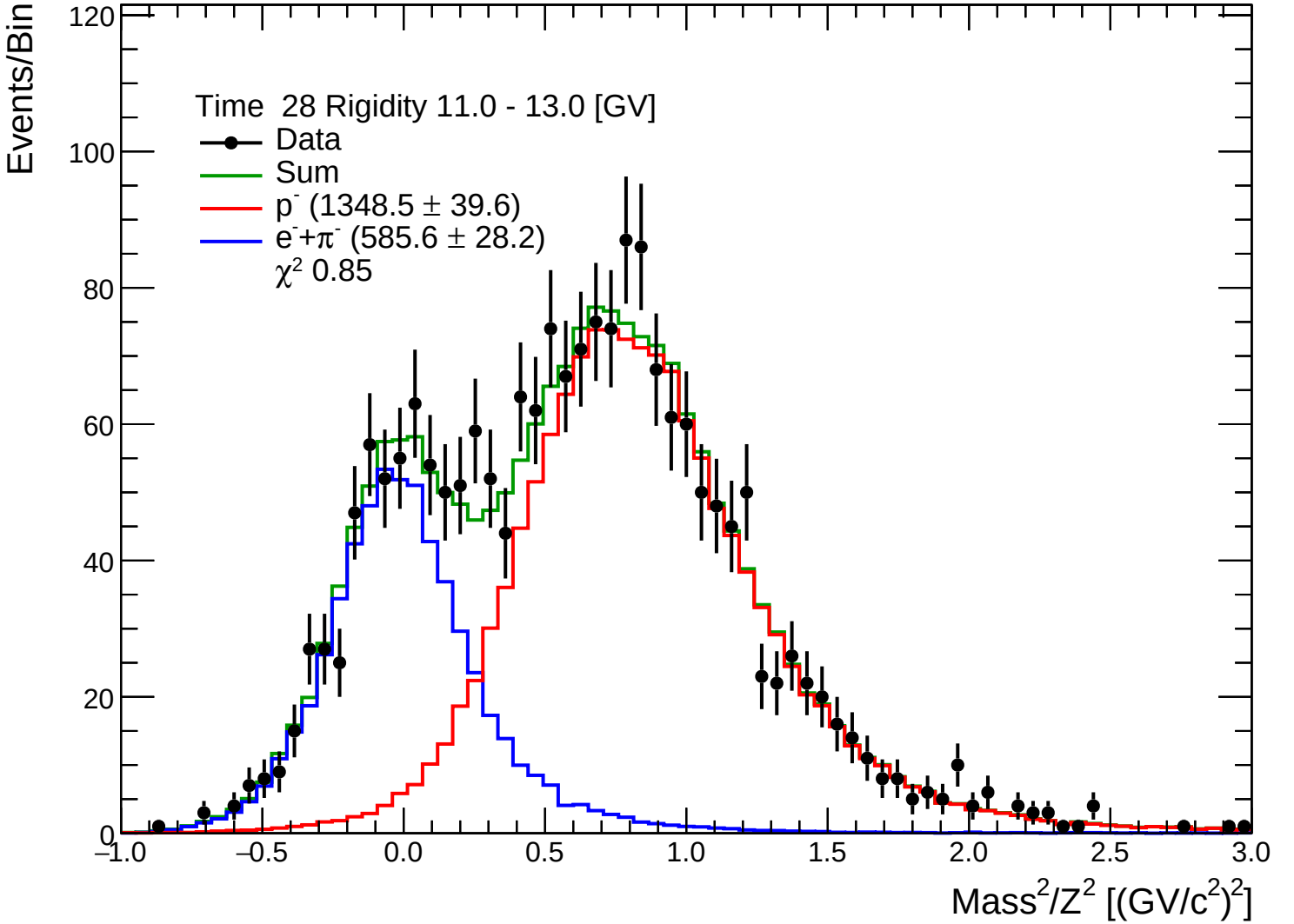

Events/Bin
400
350
300
250
200
150
100
50
0
1553
1554
1555
1556
1557
1558
1559
1560
1561
Number [Temp 0]

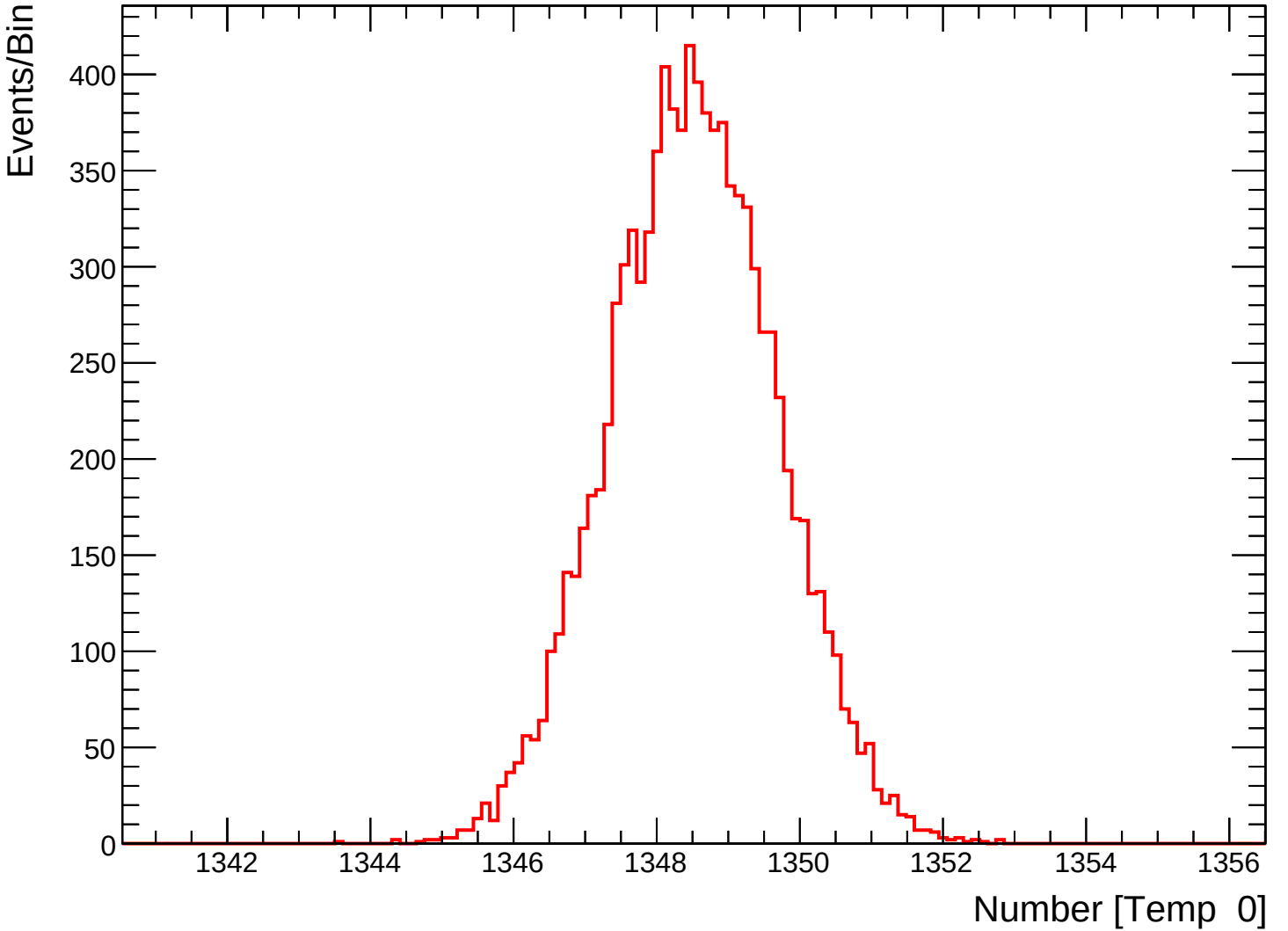

Time 28 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1558.0 ± 40.4)
e⁻+π⁻ (450.3 ± 22.6)
χ² 0.81
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

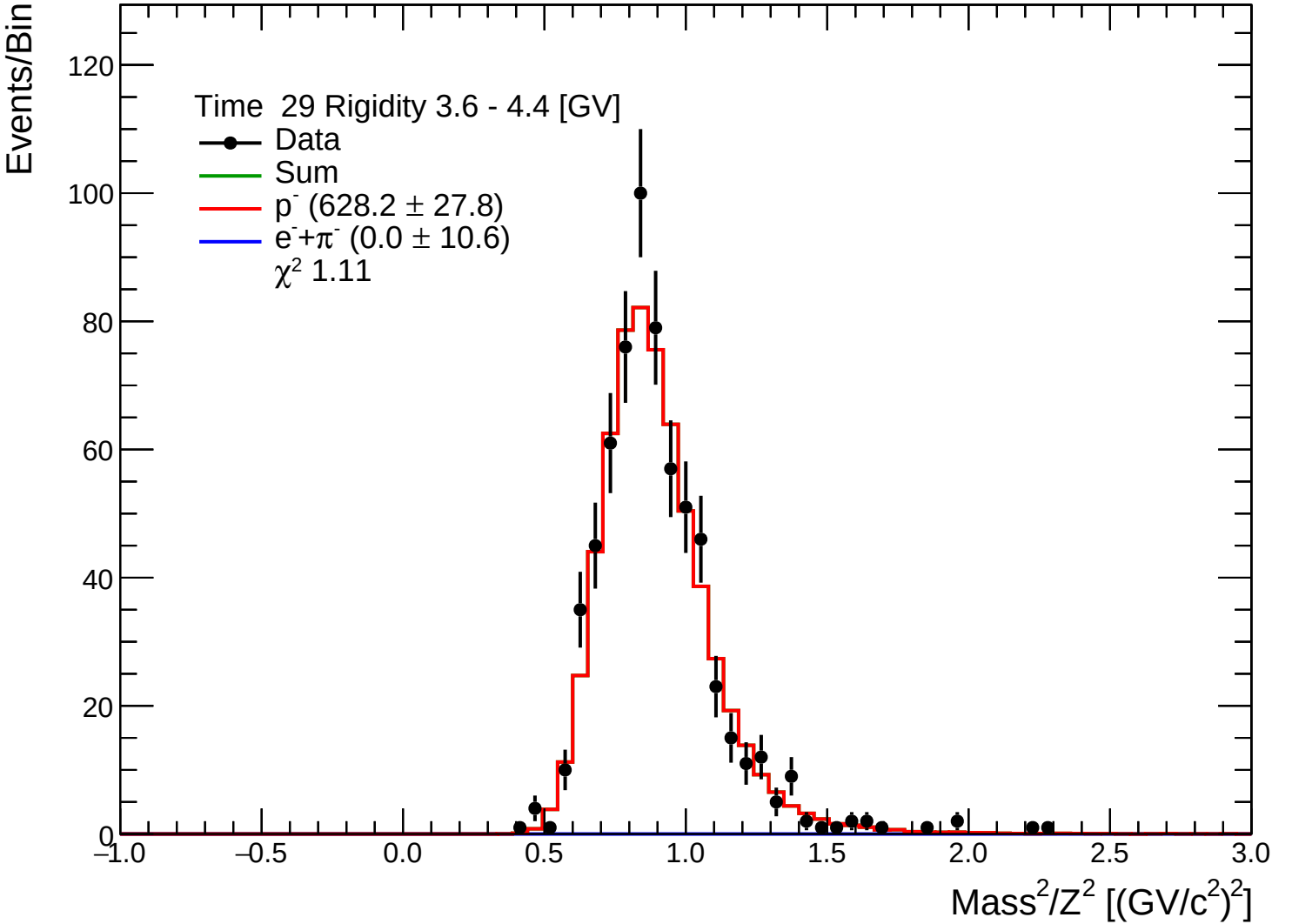

Events/Bin
400
350
300
250
200
150
100
50
0
1554
1556
1558
1560
1562
Number [Temp 0]

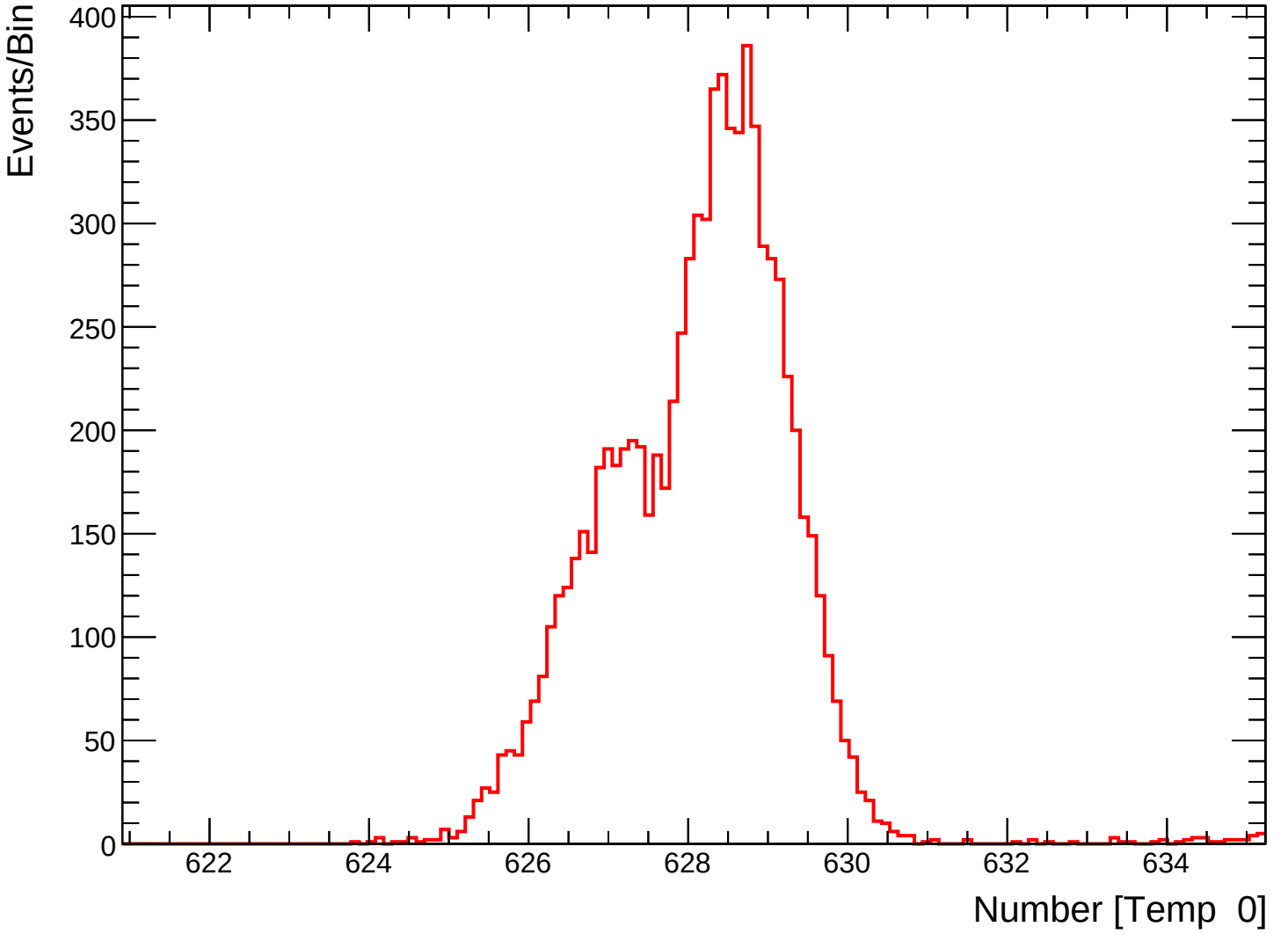

Time 28 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1553.8 ± 41.1)
e⁻+π⁻ (721.9 ± 29.0)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

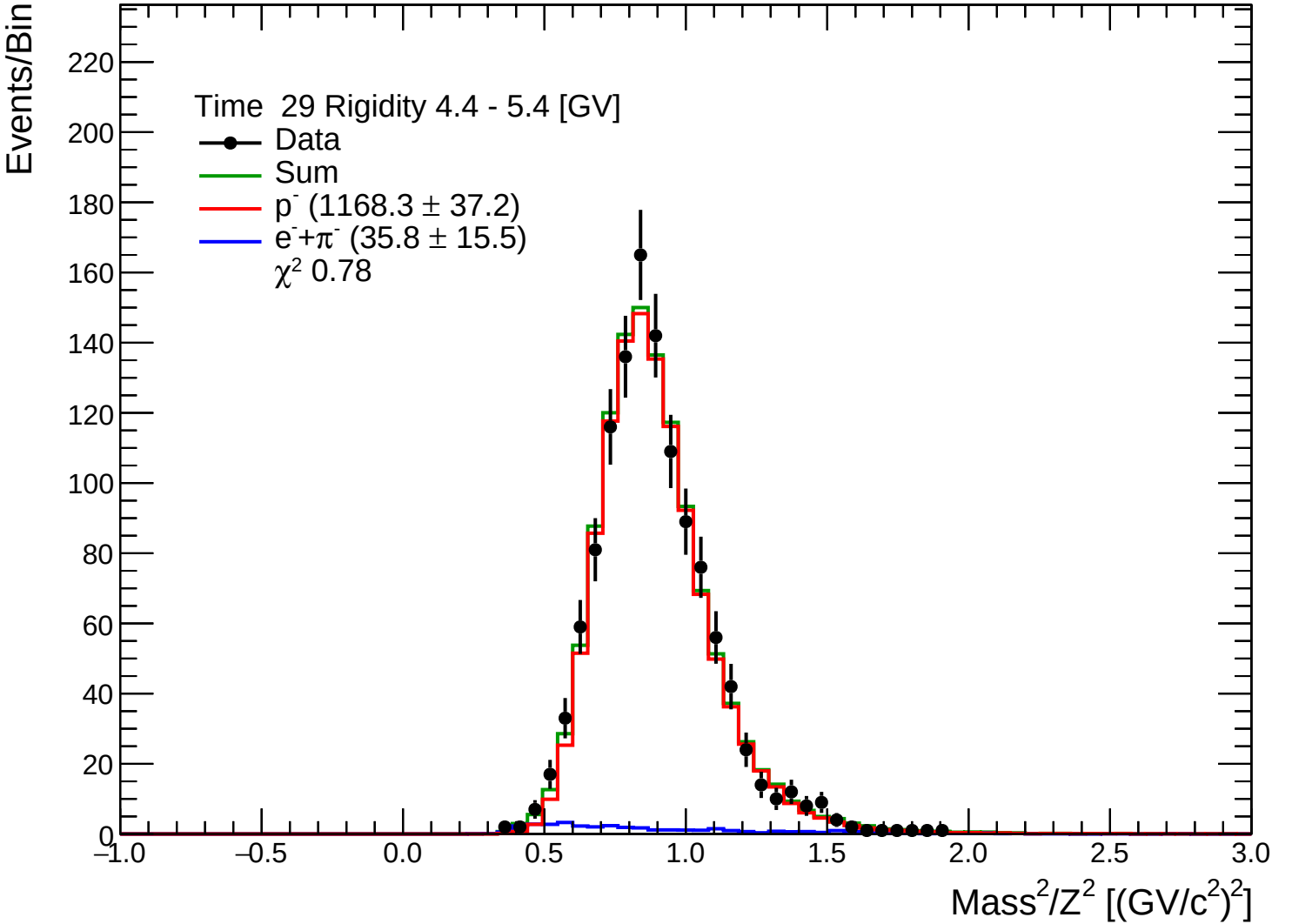

Events/Bin
400
350
300
250
200
150
100
50
0
1548
1550
1552
1554
1556
1558
1560
Number [Temp 0]

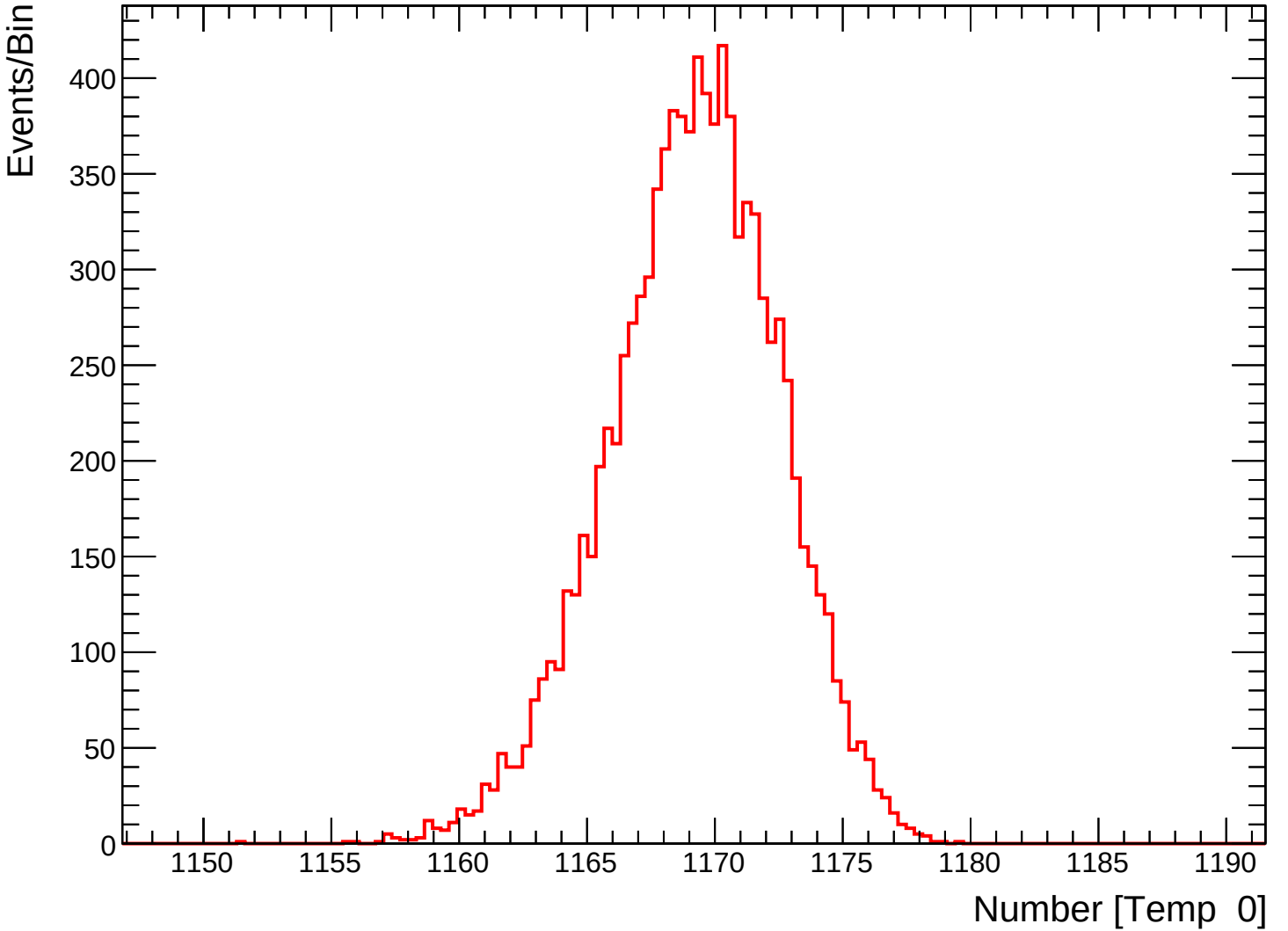

Time 28 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1348.5 ± 39.6)
e⁻+π⁻ (585.6 ± 28.2)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

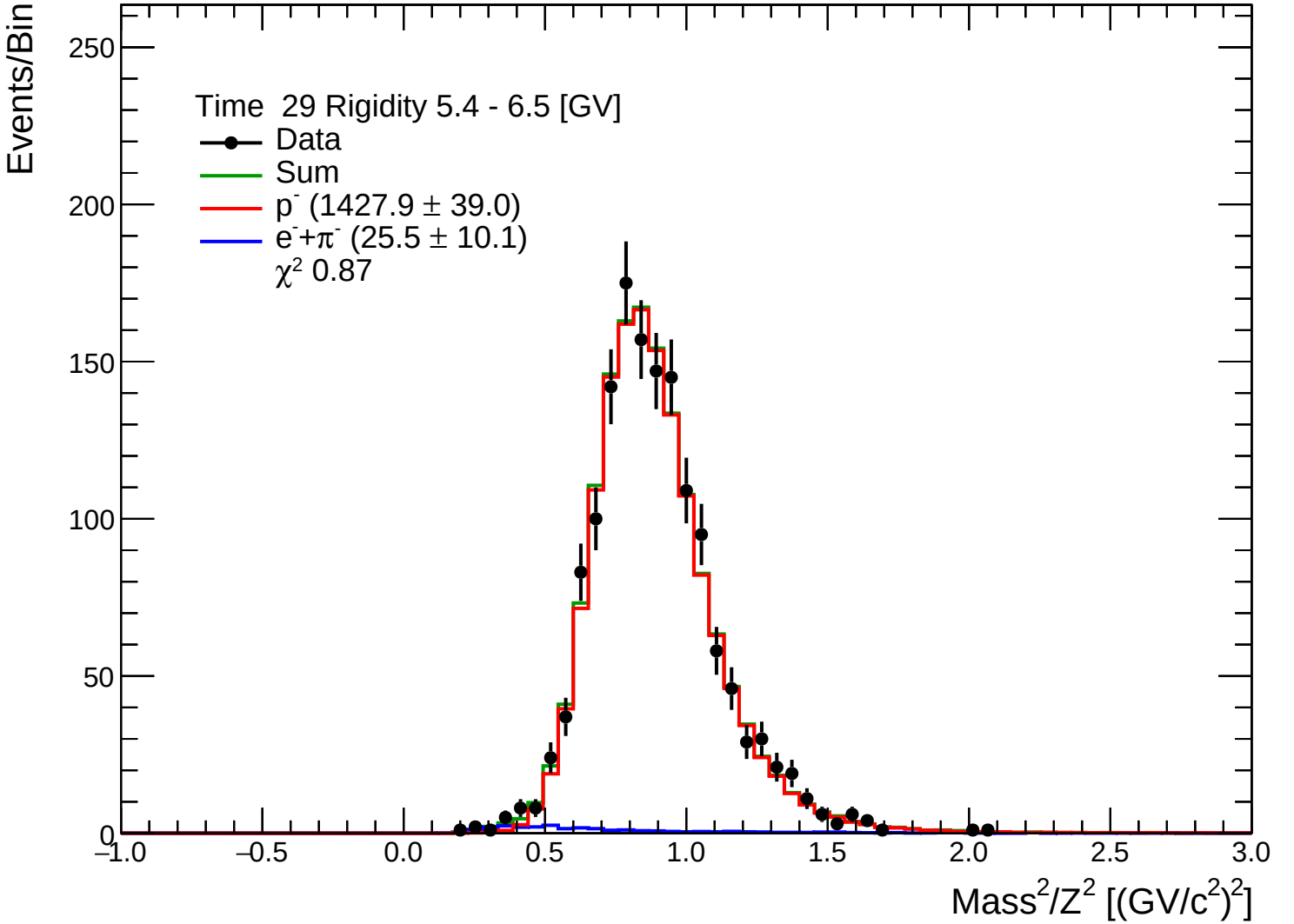

Events/Bin
400
350
300
250
200
150
100
50
0
1342
1344
1346
1348
1350
1352
1354
1356
Number [Temp 0]

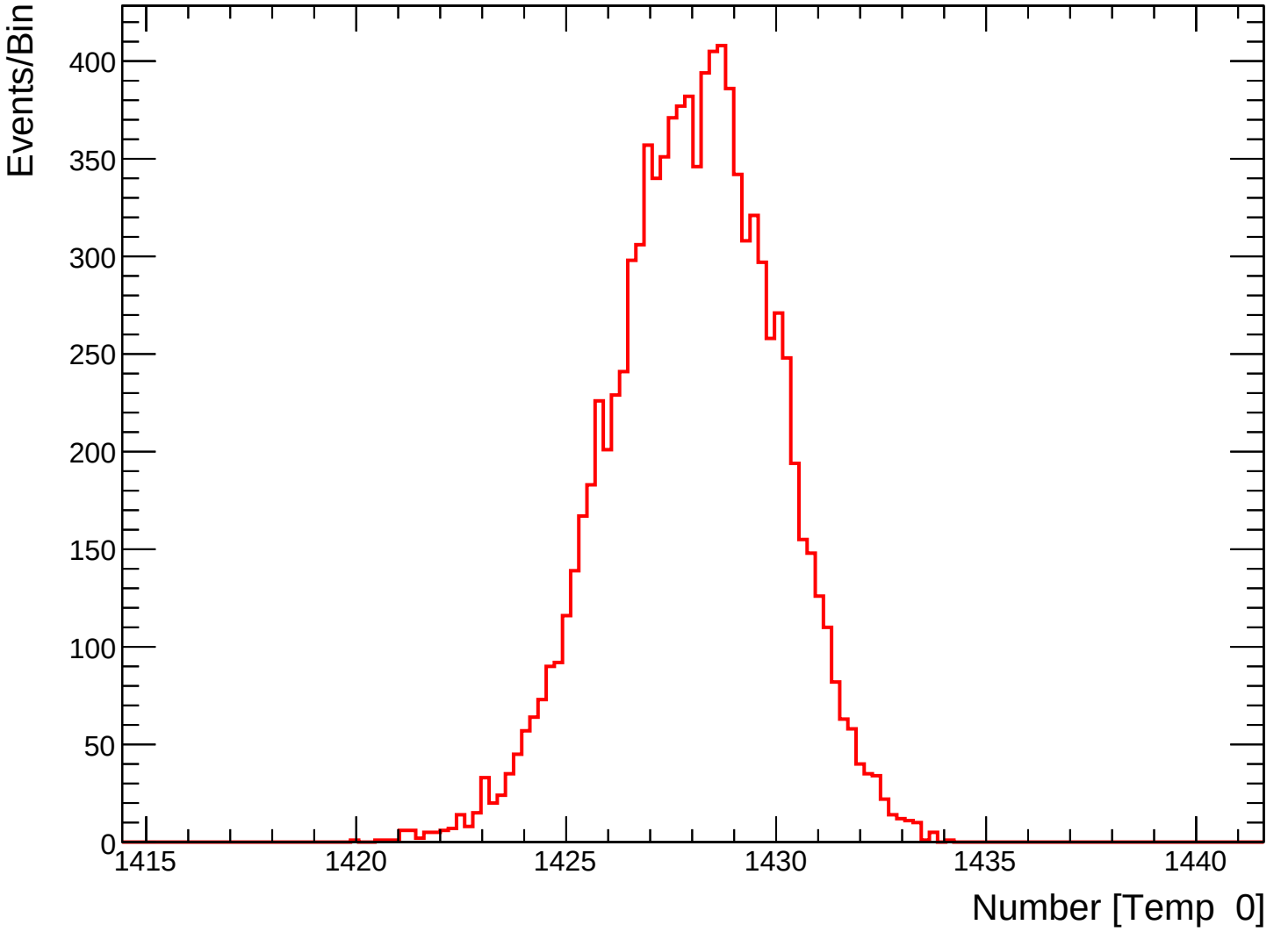

Time 29 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (628.2 ± 27.8)
e⁻+π⁻ (0.0 ± 10.6)
χ² 1.11
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

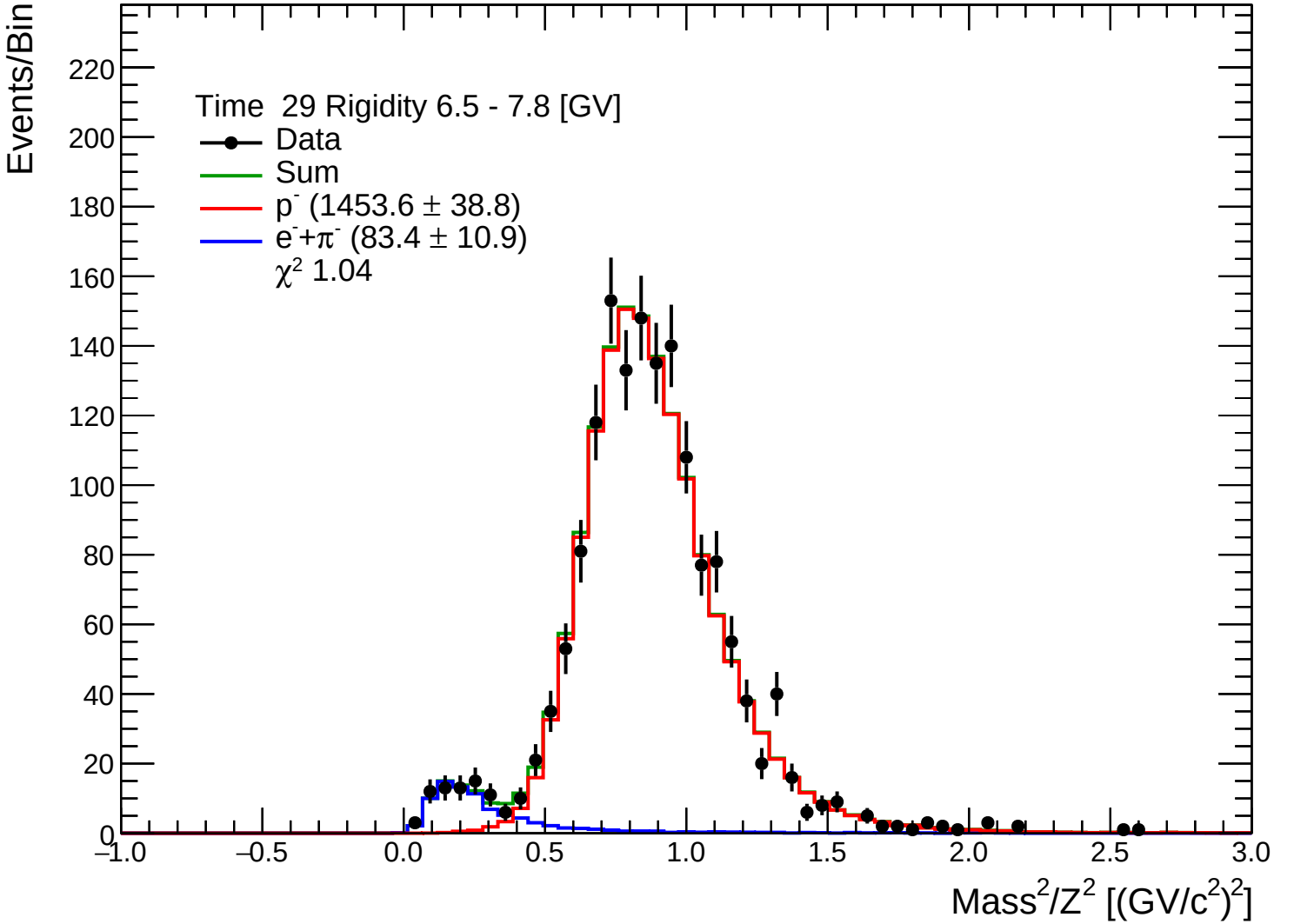

Events/Bin
400
350
300
250
200
150
100
50
0
622
624
626
628
630
632
634
Number [Temp 0]

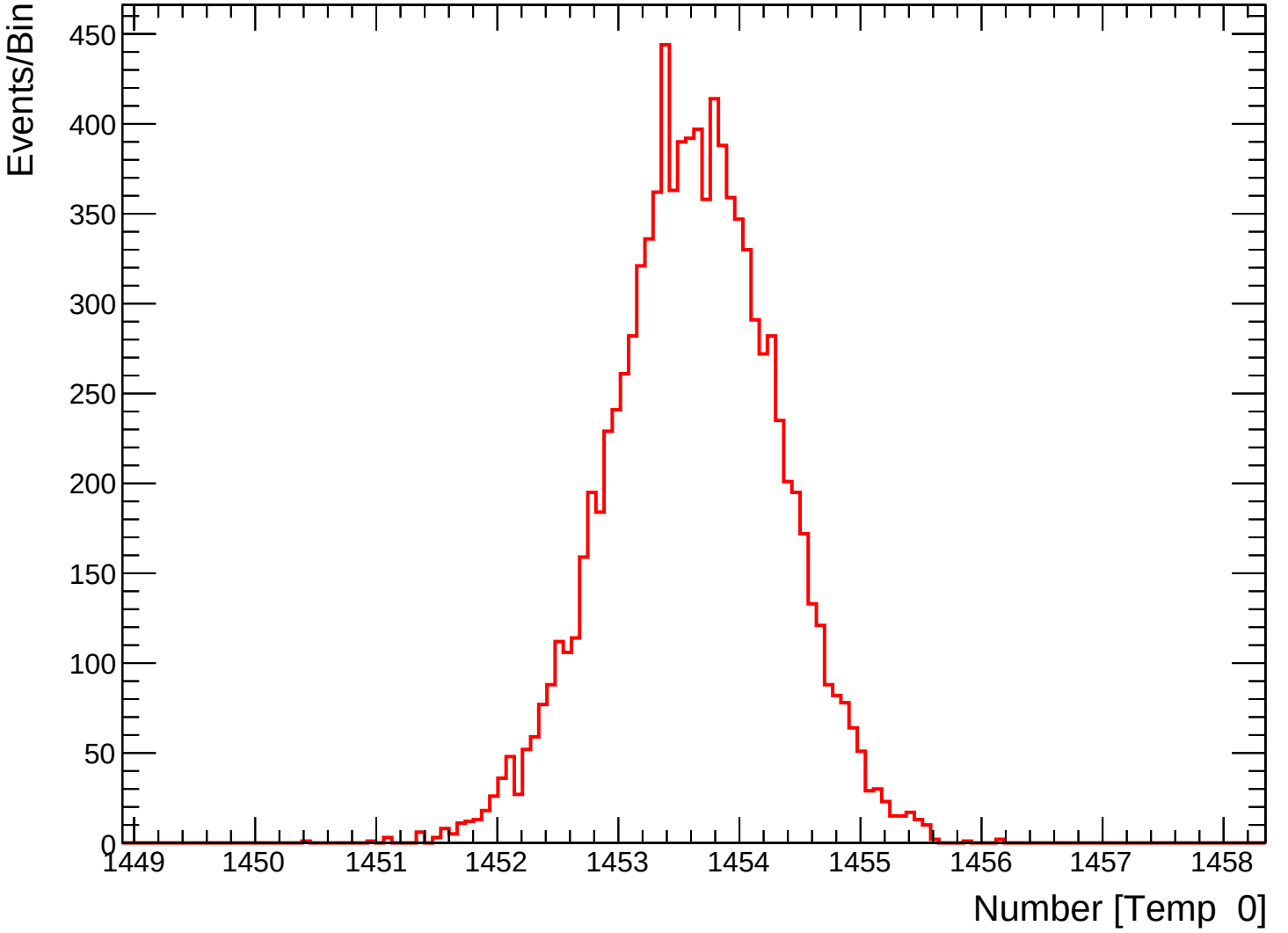

Time 29 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1168.3 ± 37.2)
e⁻+π⁻ (35.8 ± 15.5)
χ² 0.78
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

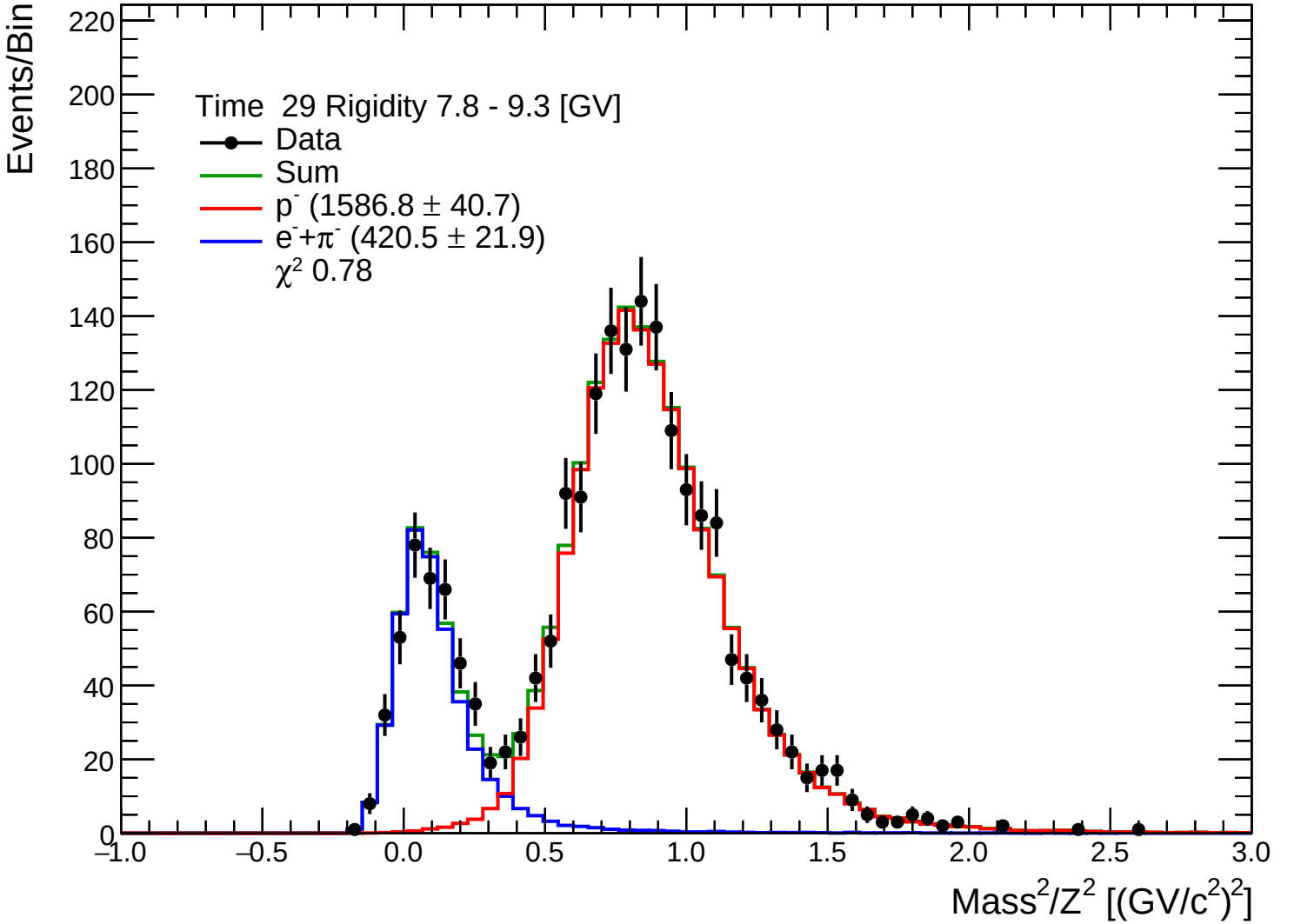

Events/Bin
400
350
300
250
200
150
100
50
0
1150
1155
1160
1165
1170
1175
1180
1185
1190
Number [Temp 0]

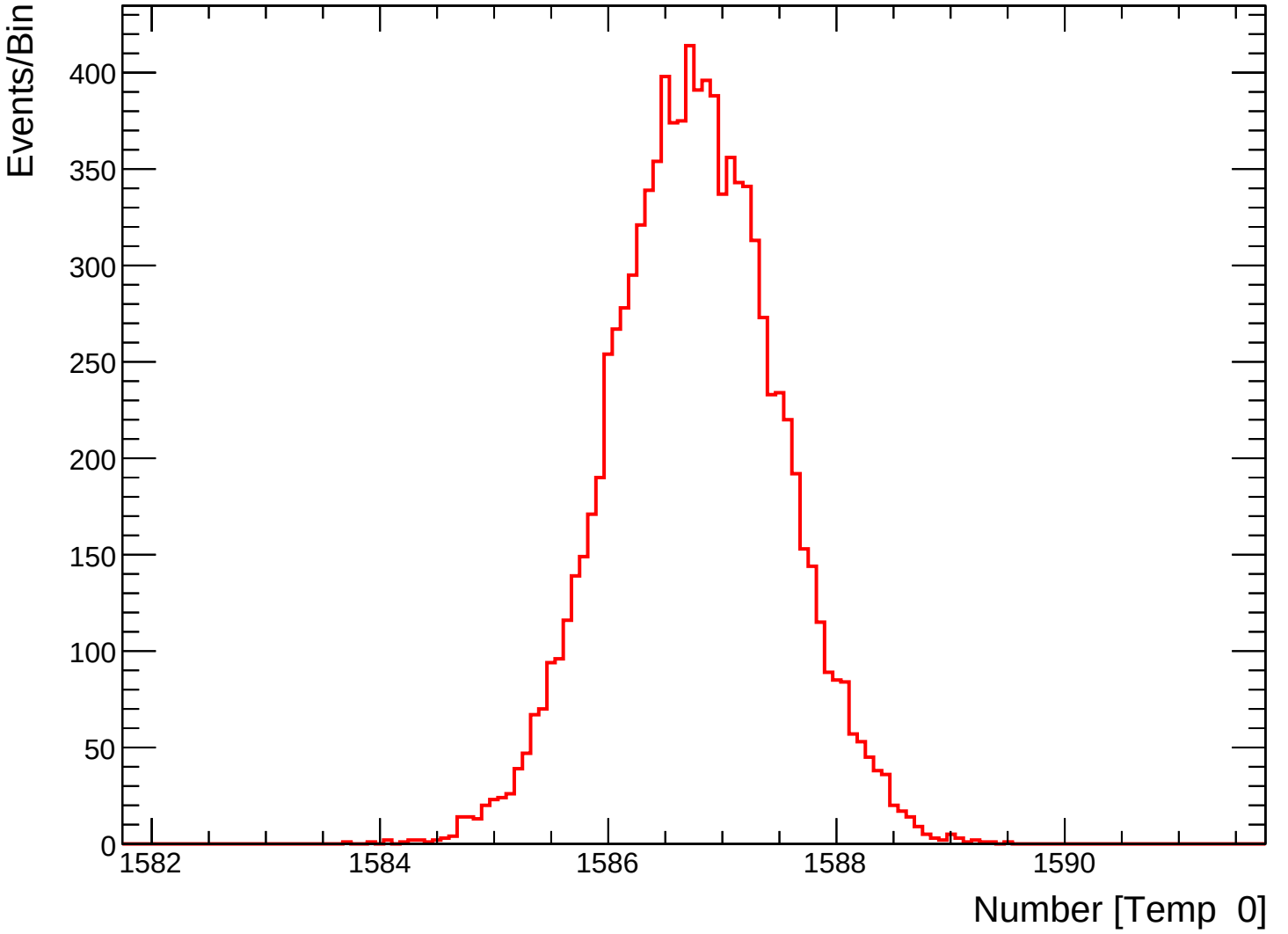

Time 29 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1427.9 ± 39.0)
e⁻+π⁻ (25.5 ± 10.1)
χ² 0.87
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

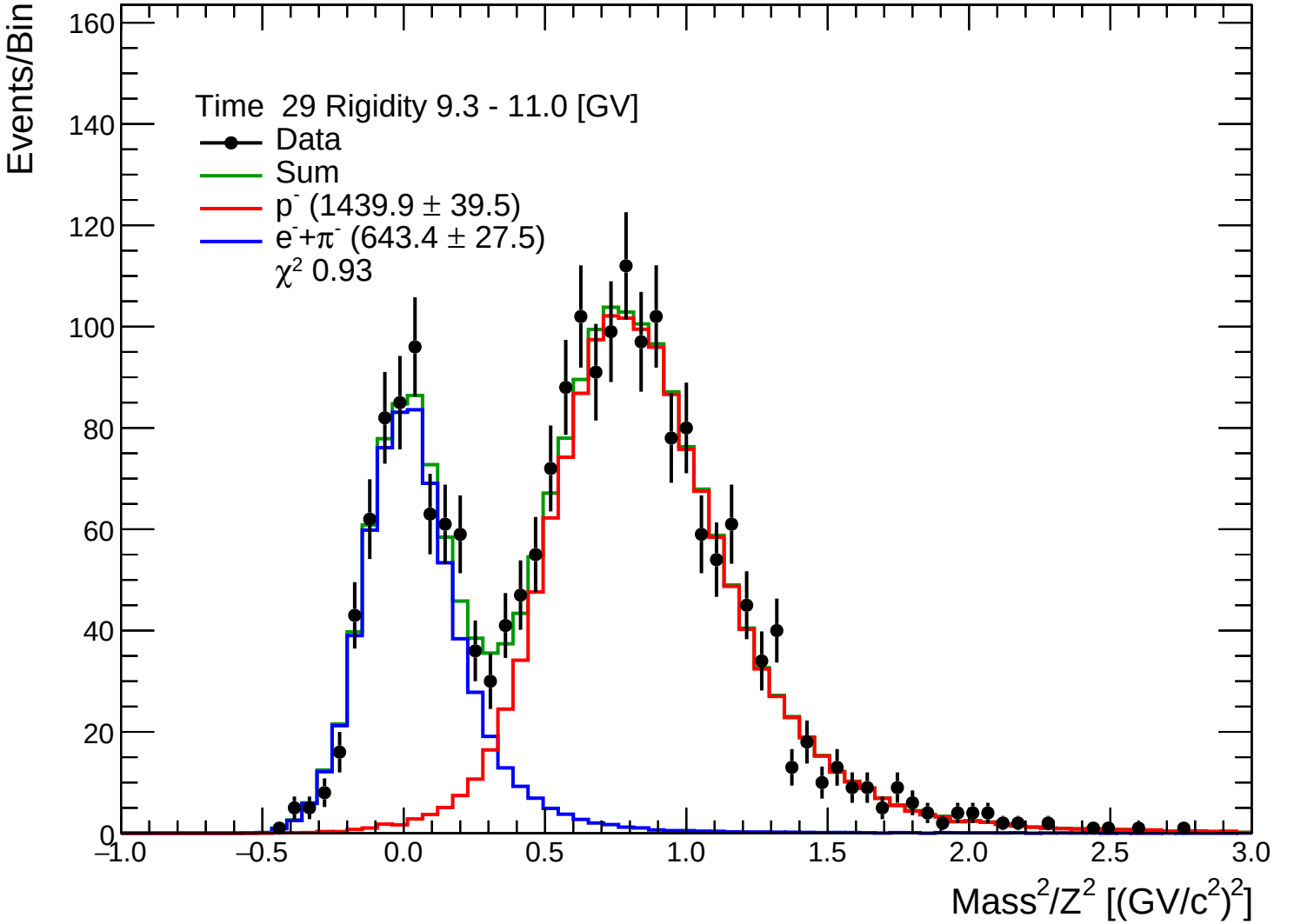

Events/Bin
400
350
300
250
200
150
100
50
0
1415
1420
1425
1430
1435
1440
Number [Temp 0]

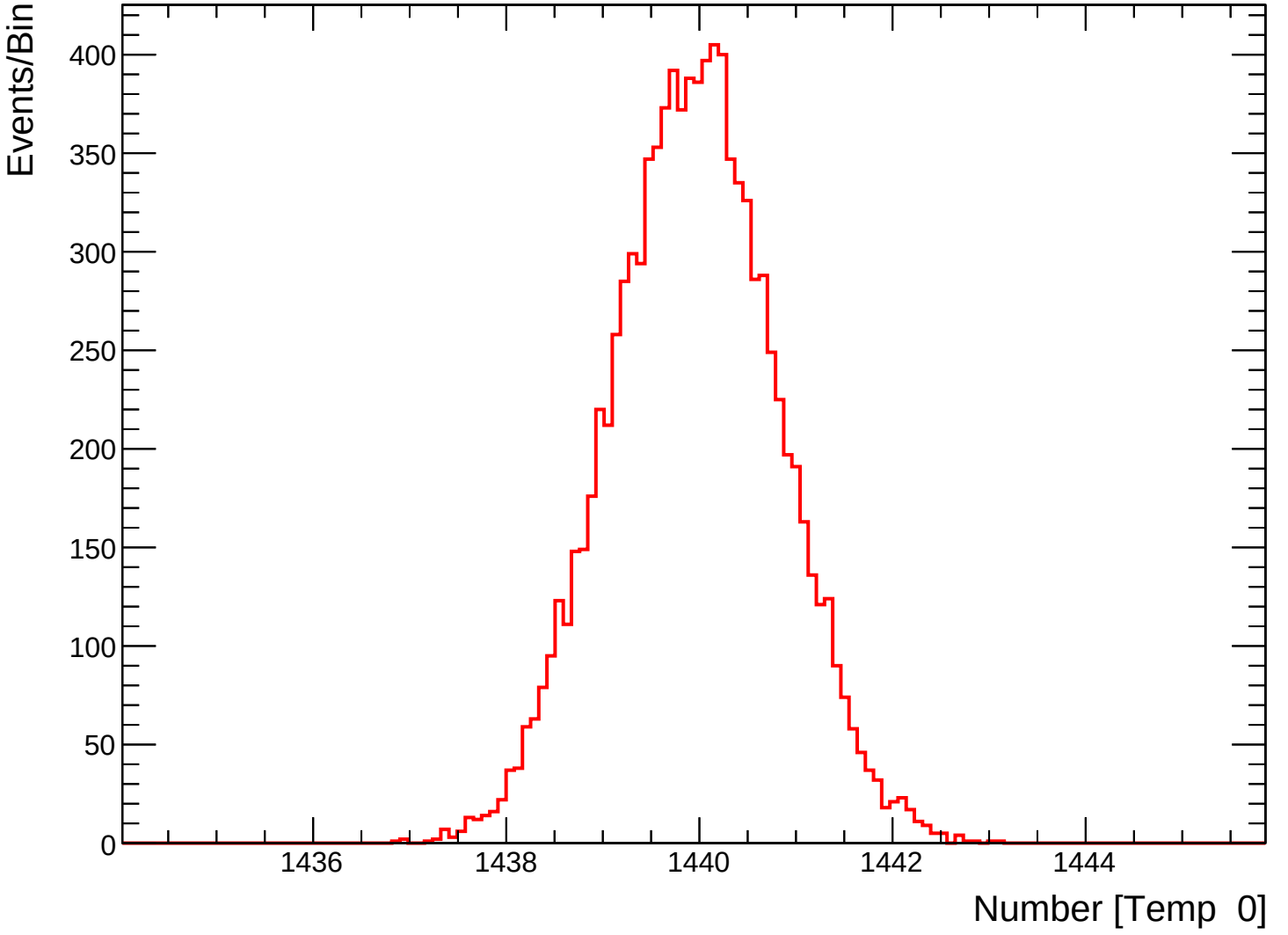

Time 29 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1453.6 ± 38.8)
e⁻+π⁻ (83.4 ± 10.9)
χ² 1.04
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

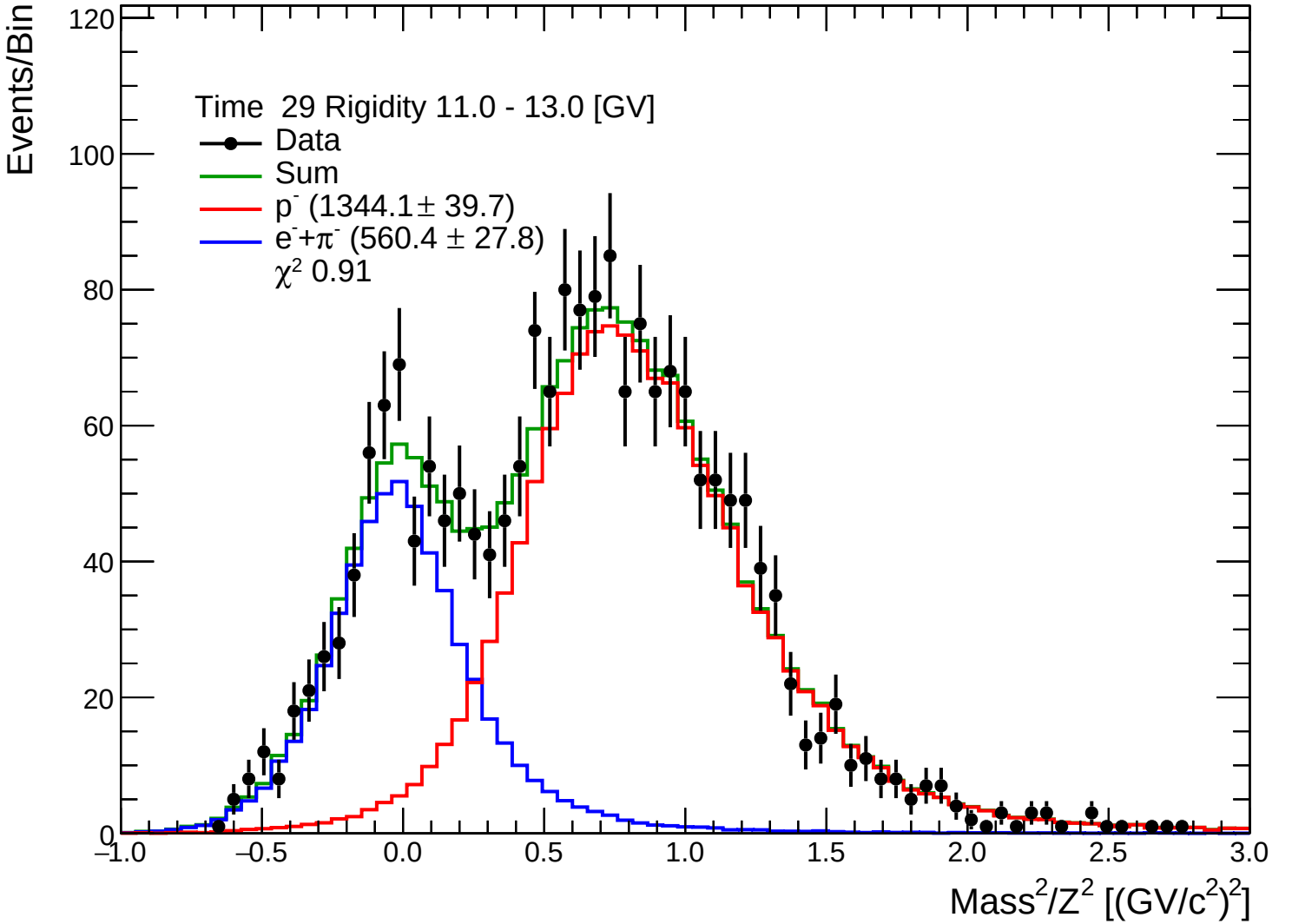

Events/Bin
450
400
350
300
250
200
150
100
50
0
1449
1450
1451
1452
1453
1454
1455
1456
1457
1458
Number [Temp 0]

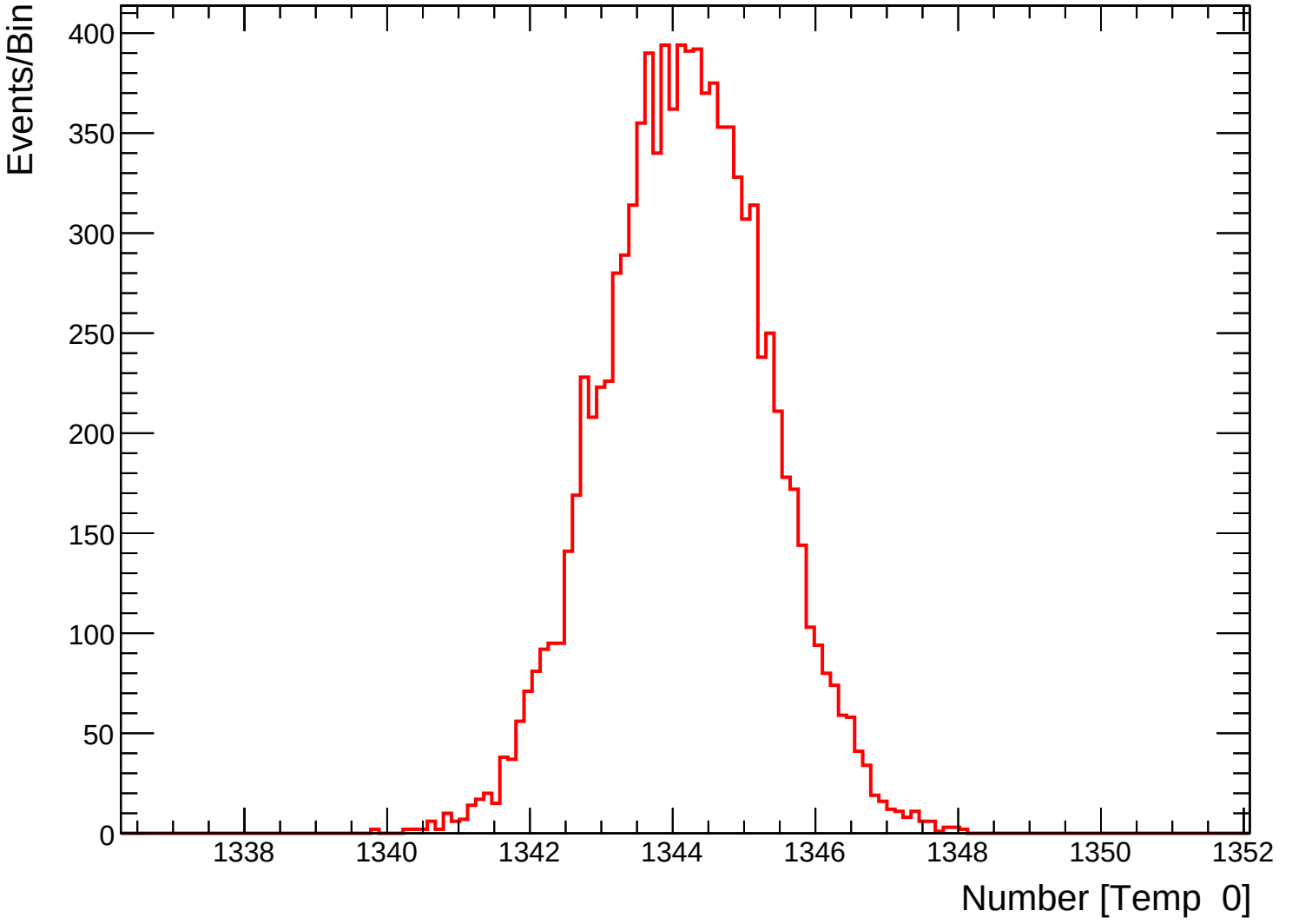

Time 29 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1586.8 ± 40.7)
e⁻+π⁻ (420.5 ± 21.9)
χ² 0.78
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

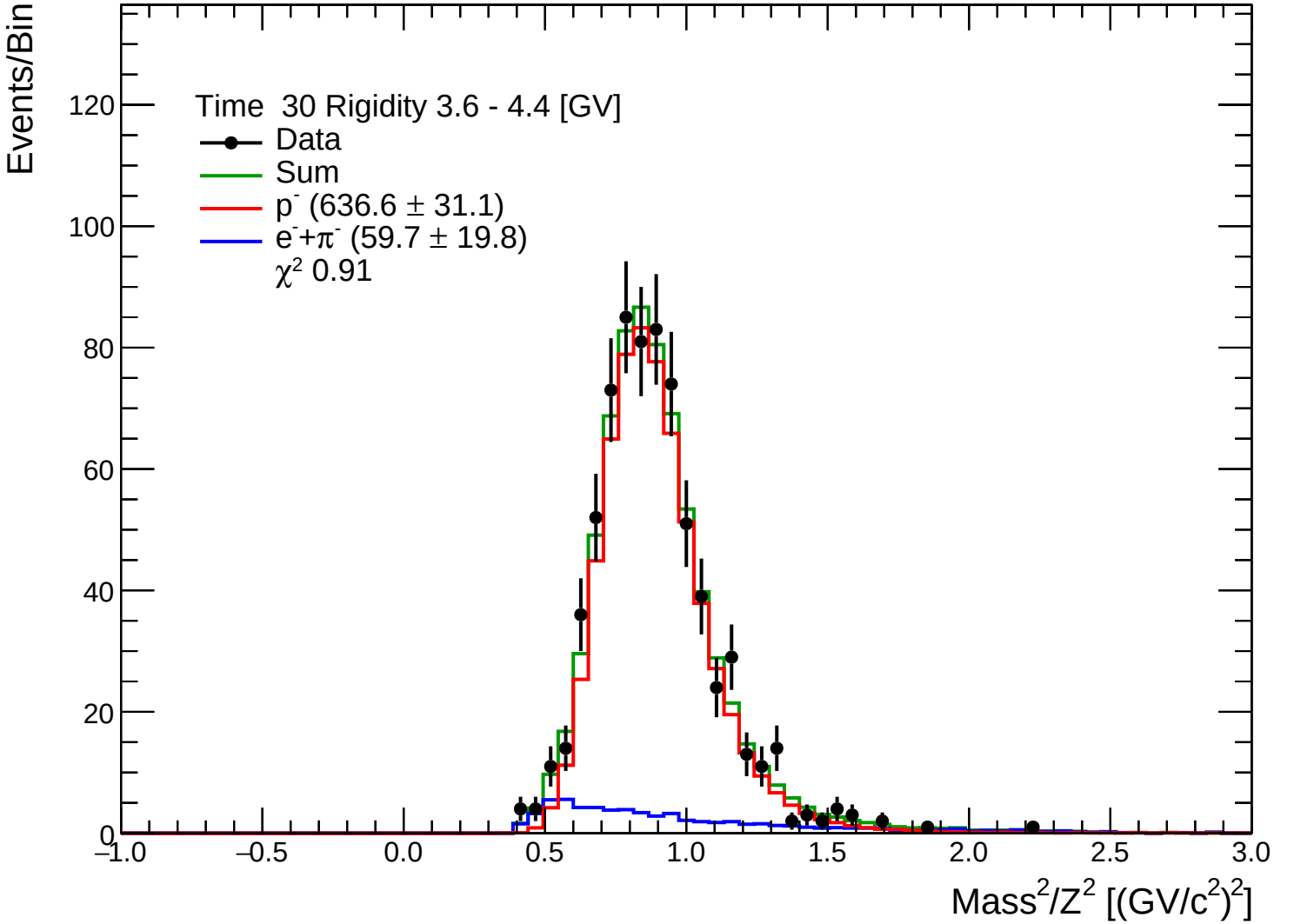

Events/Bin
400
350
300
250
200
150
100
50
0
1582
1584
1586
1588
1590
Number [Temp 0]

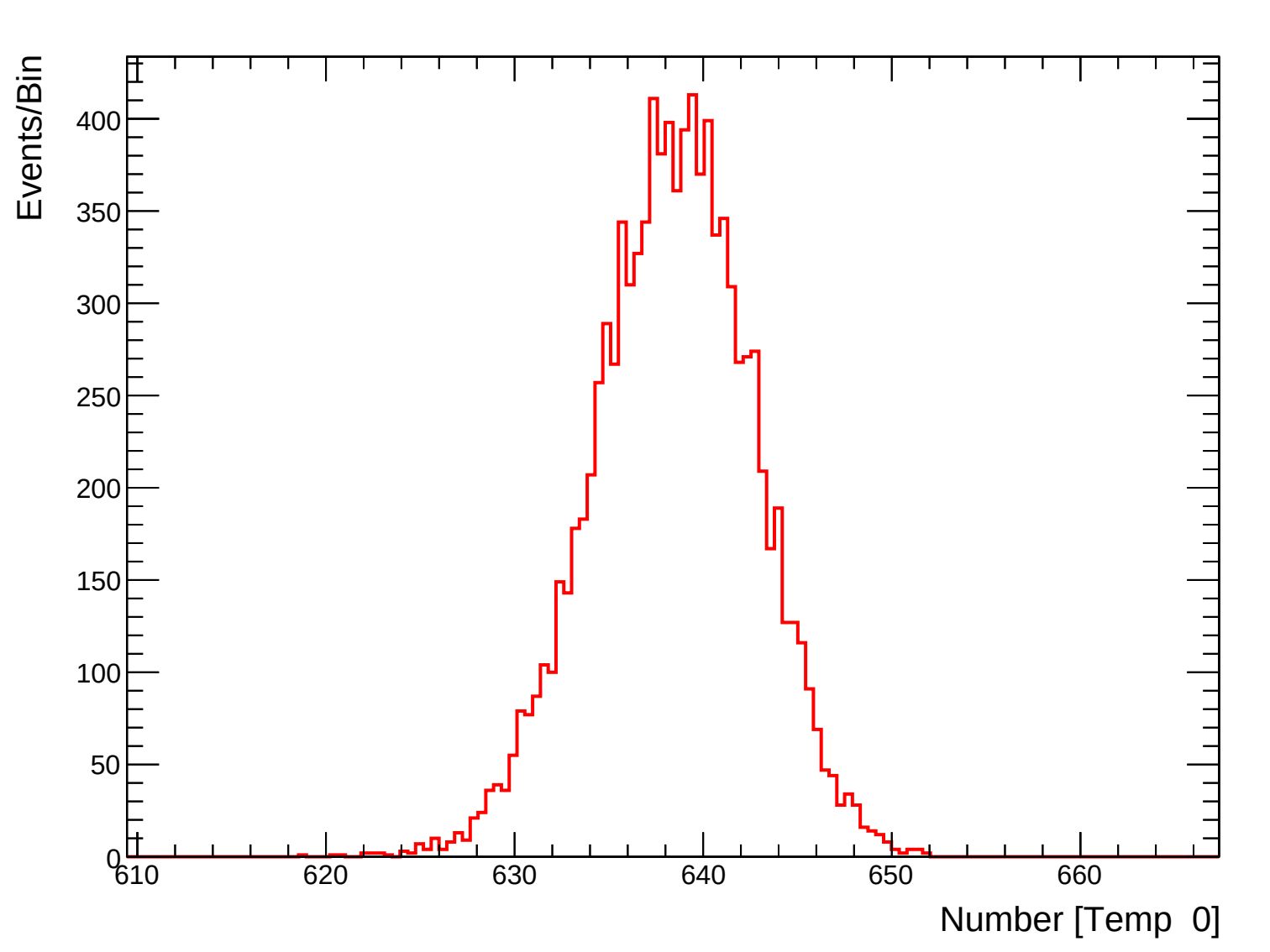

Time 29 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1439.9 ± 39.5)
e⁻+π⁻ (643.4 ± 27.5)
χ² 0.93
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

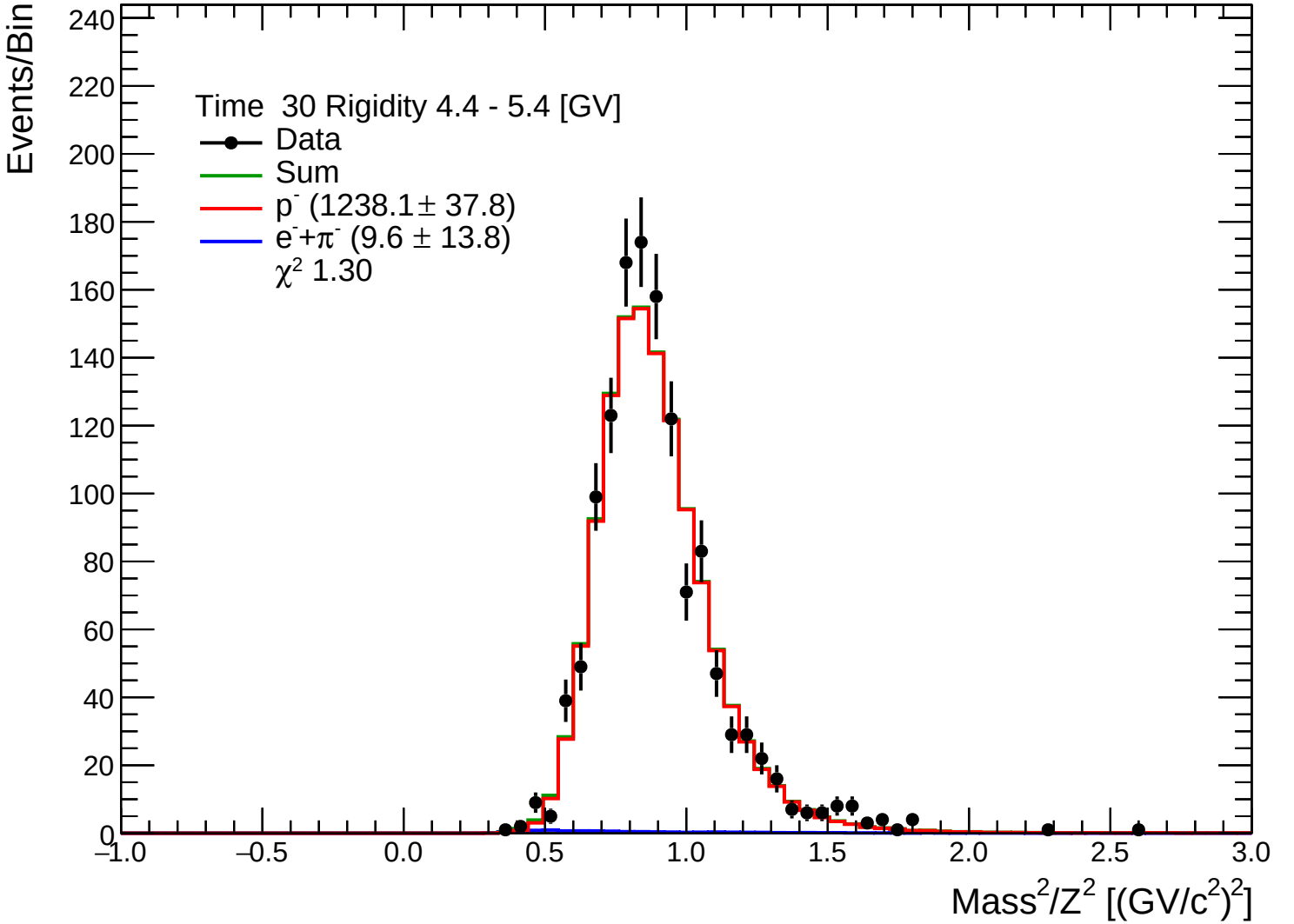

Events/Bin
400
350
300
250
200
150
100
50
0
1436
1438
1440
1442
1444
Number [Temp 0]

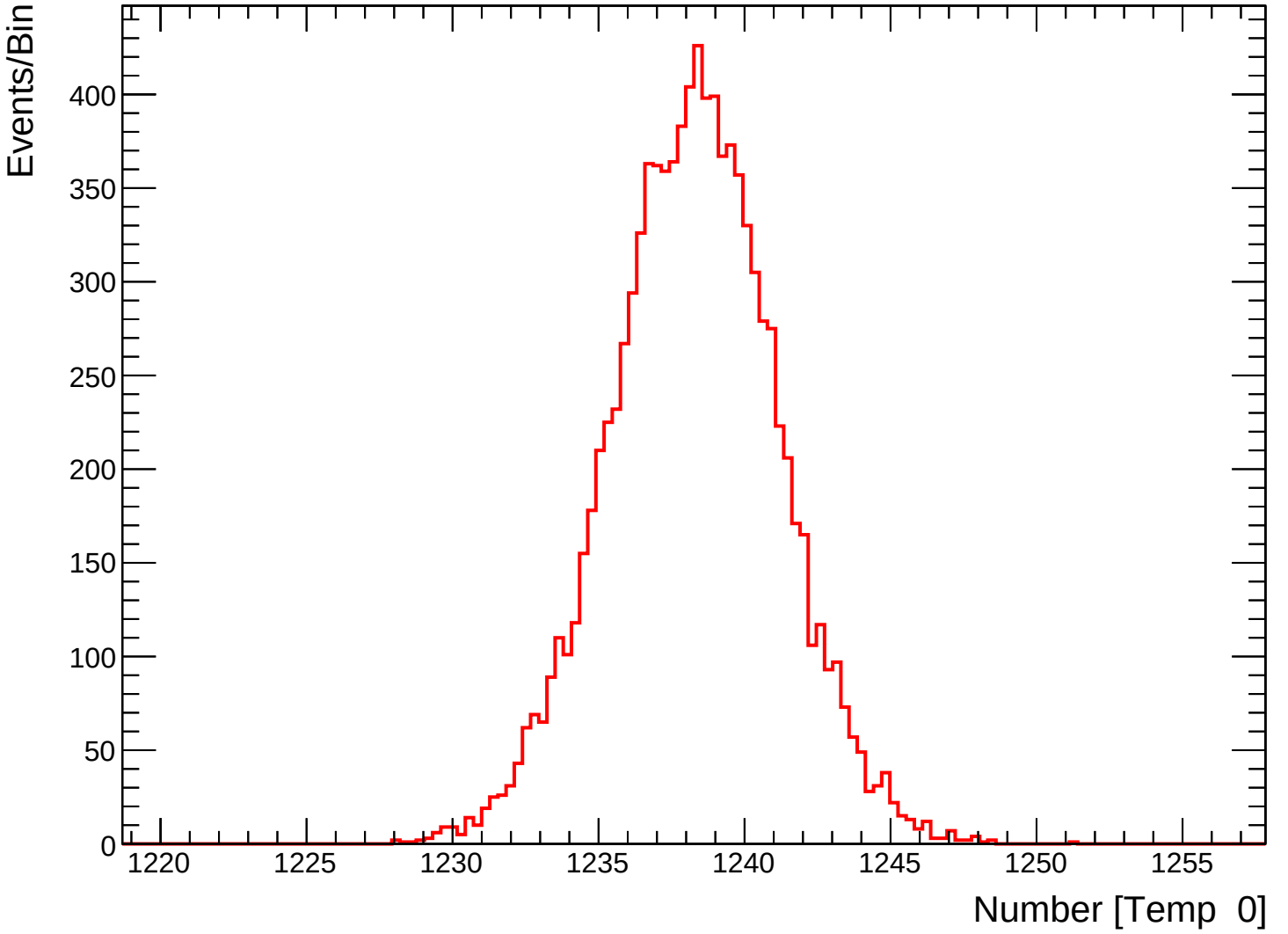

Time 29 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1344.1± 39.7)
e⁻+π⁻ (560.4 ± 27.8)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

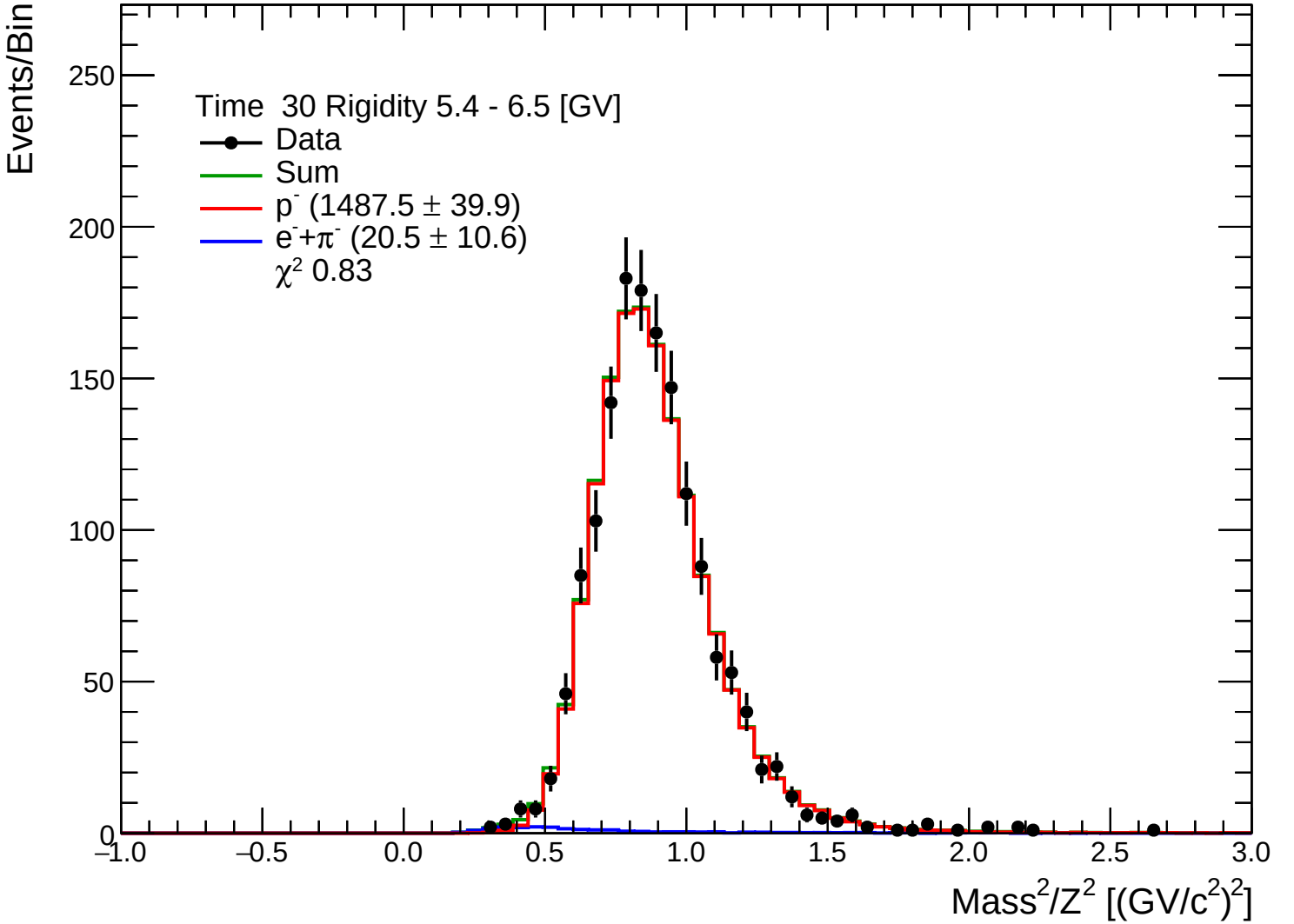

Events/Bin
400
350
300
250
200
150
100
50
0
1338
1340
1342
1344
1346
1348
1350
1352
Number [Temp 0]

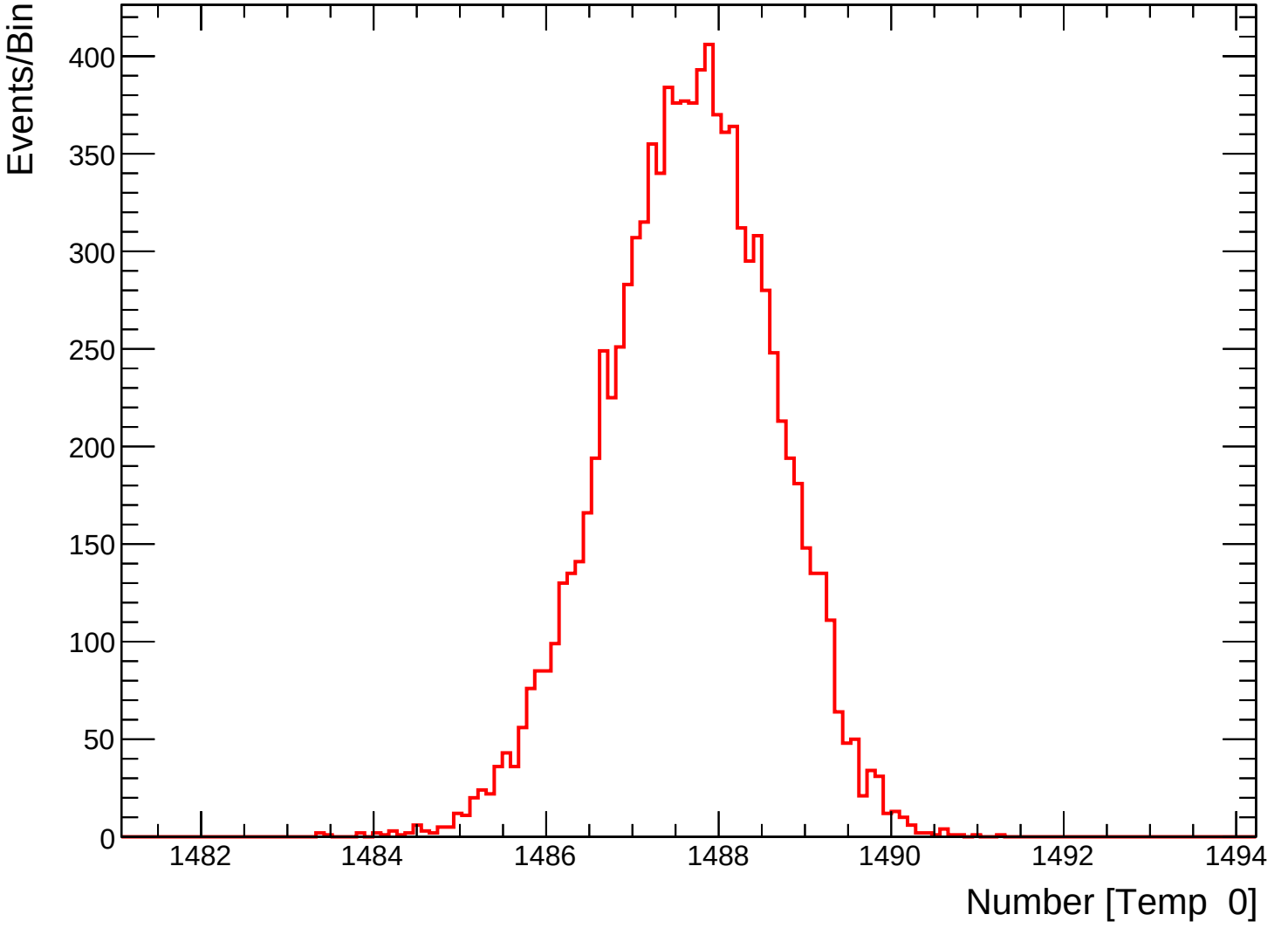

Time 30 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (636.6 ± 31.1)
e⁻+π⁻ (59.7 ± 19.8)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

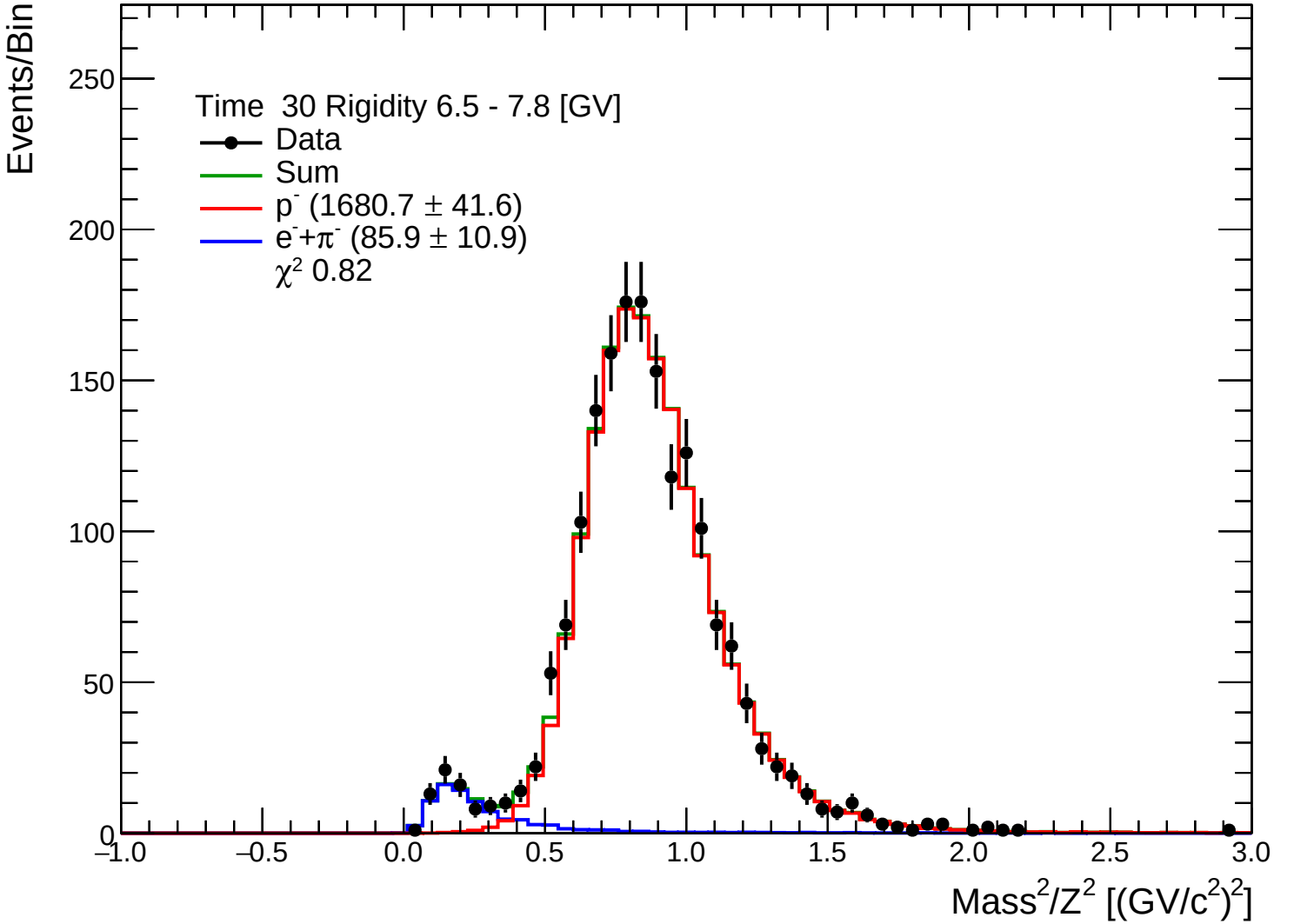

Events/Bin
400
350
300
250
200
150
100
50
0
610
620
630
640
650
660
Number [Temp 0]

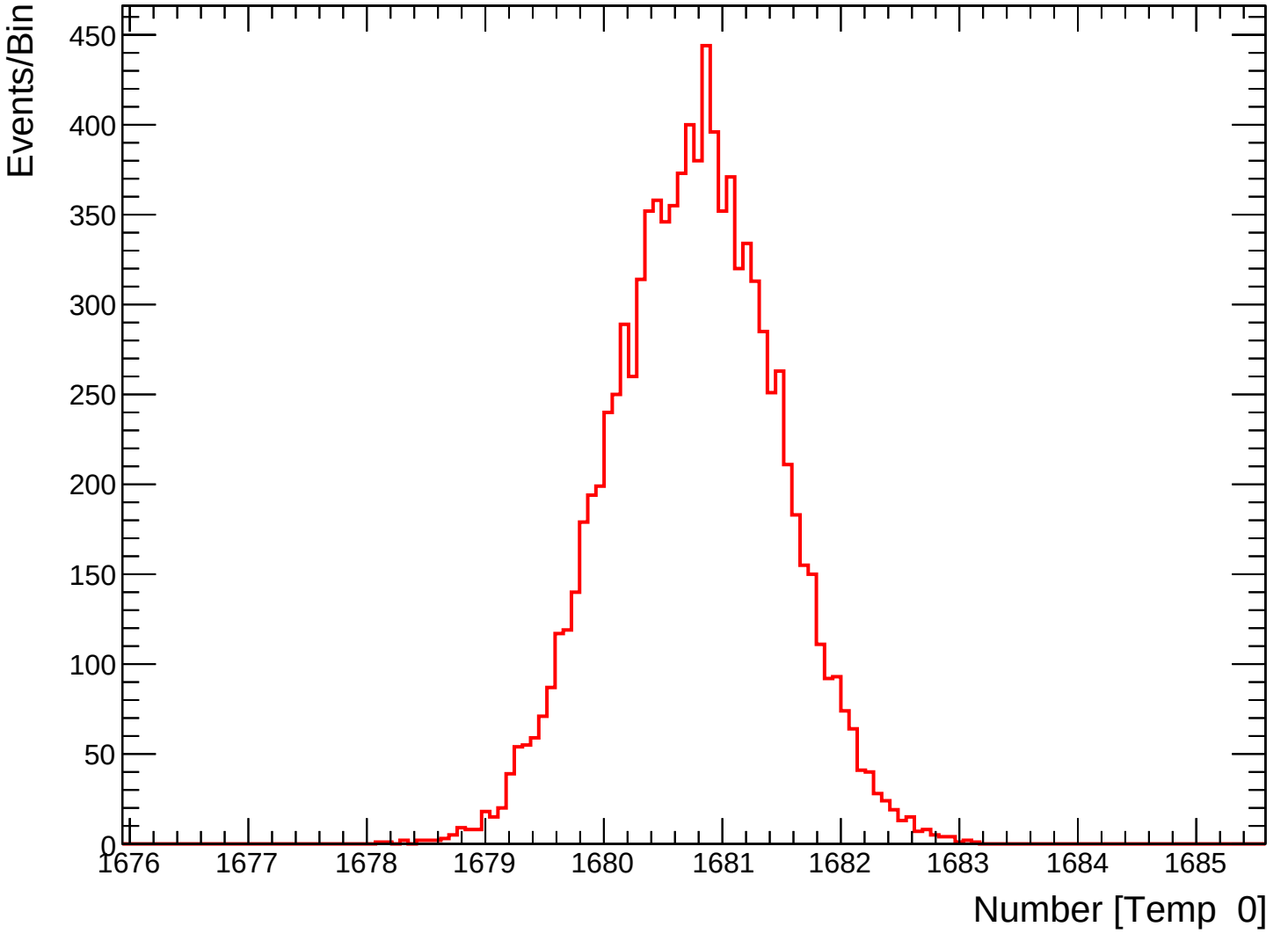

Time 30 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1238.1± 37.8)
e⁻+π⁻ (9.6 ± 13.8)
χ² 1.30
Events/Bin
Mass²/Z² [(GV/c²)²]
240
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

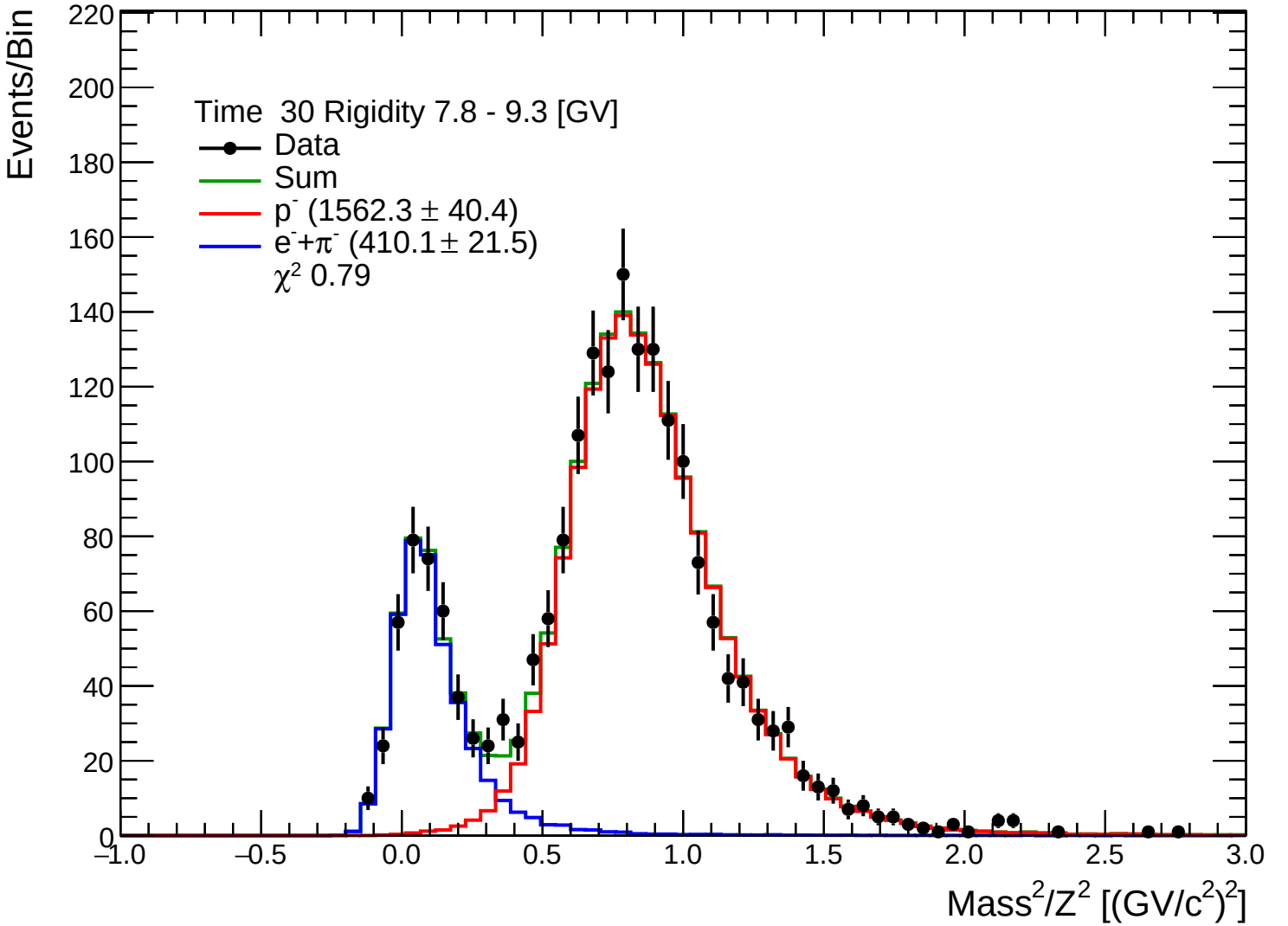

Events/Bin
0
50
100
150
200
250
300
350
400
1220
1225
1230
1235
1240
1245
1250
1255
Number [Temp 0]

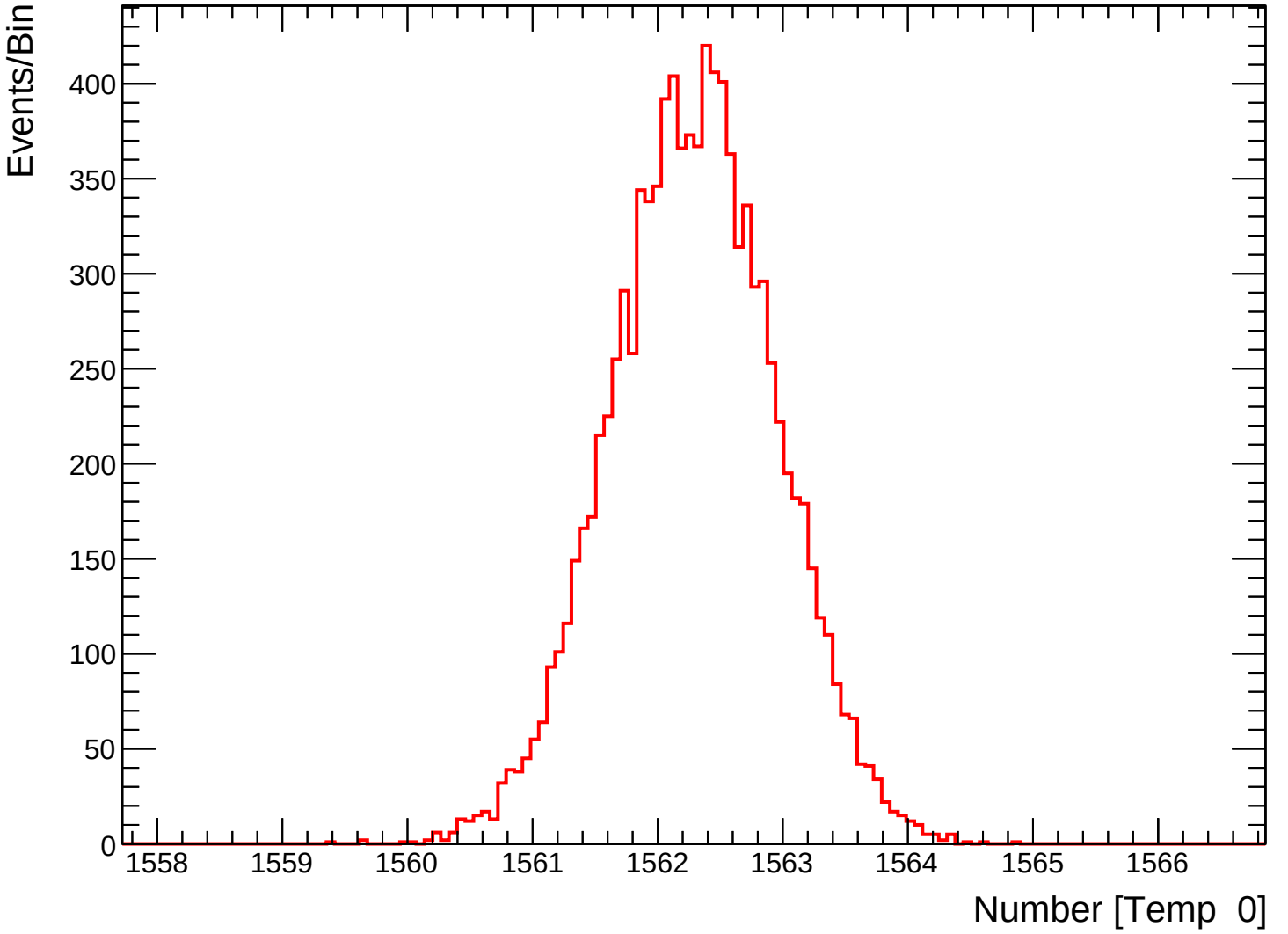

Time 30 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1487.5 ± 39.9)
e⁻+π⁻ (20.5 ± 10.6)
χ² 0.83
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

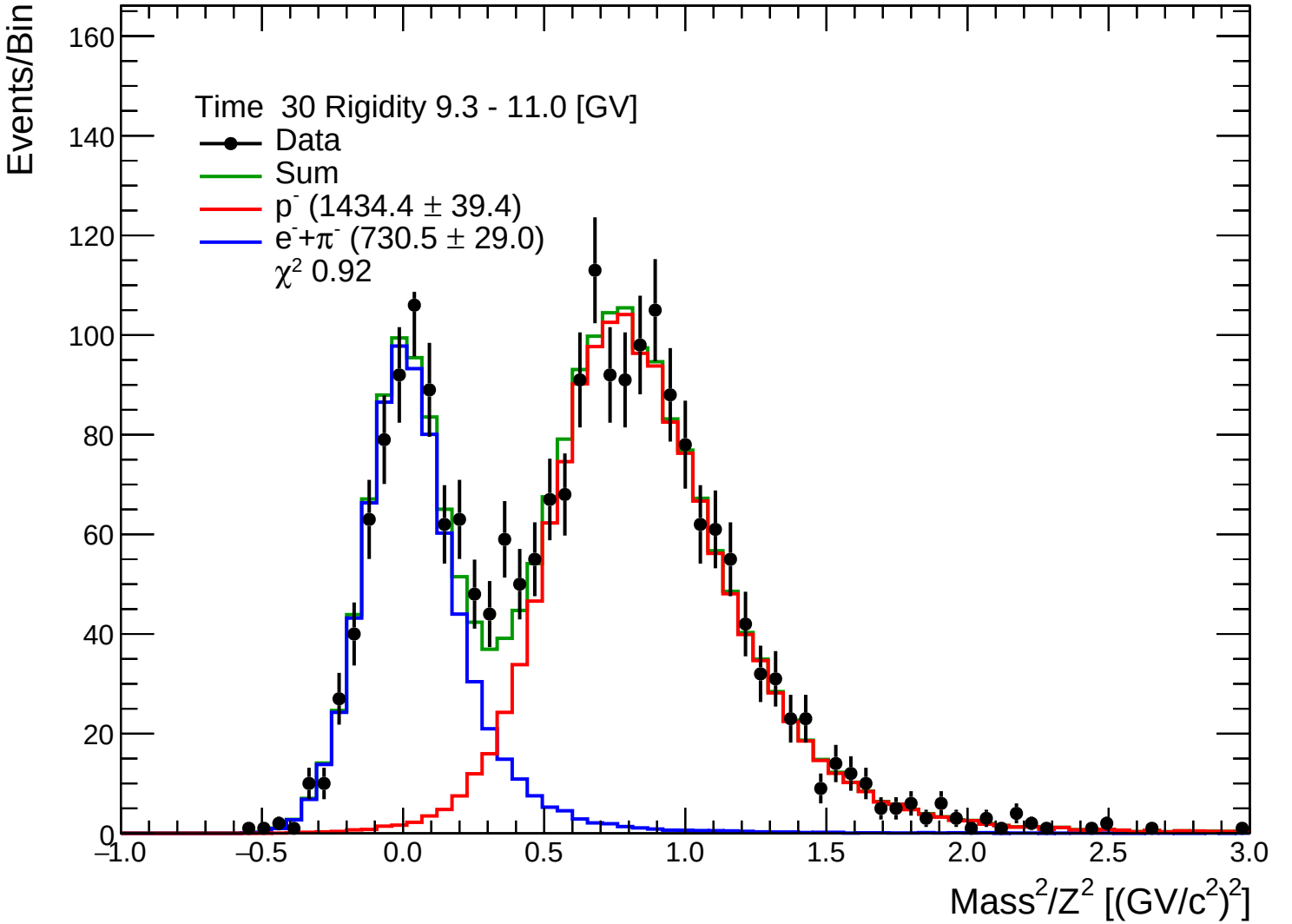

Events/Bin
400
350
300
250
200
150
100
50
0
1482
1484
1486
1488
1490
1492
1494
Number [Temp 0]

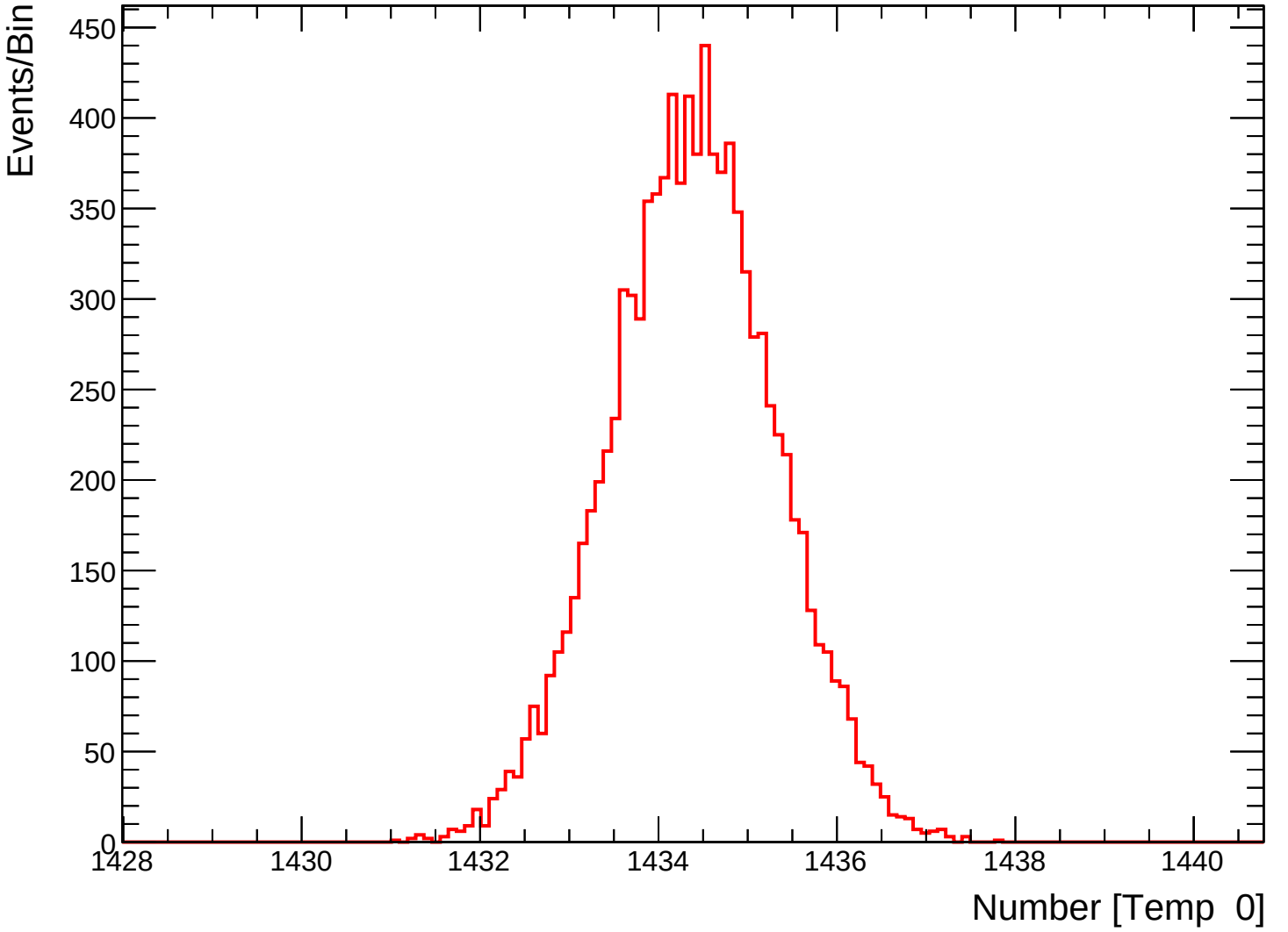

Time 30 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1680.7 ± 41.6)
e⁻+π⁻ (85.9 ± 10.9)
χ² 0.82
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

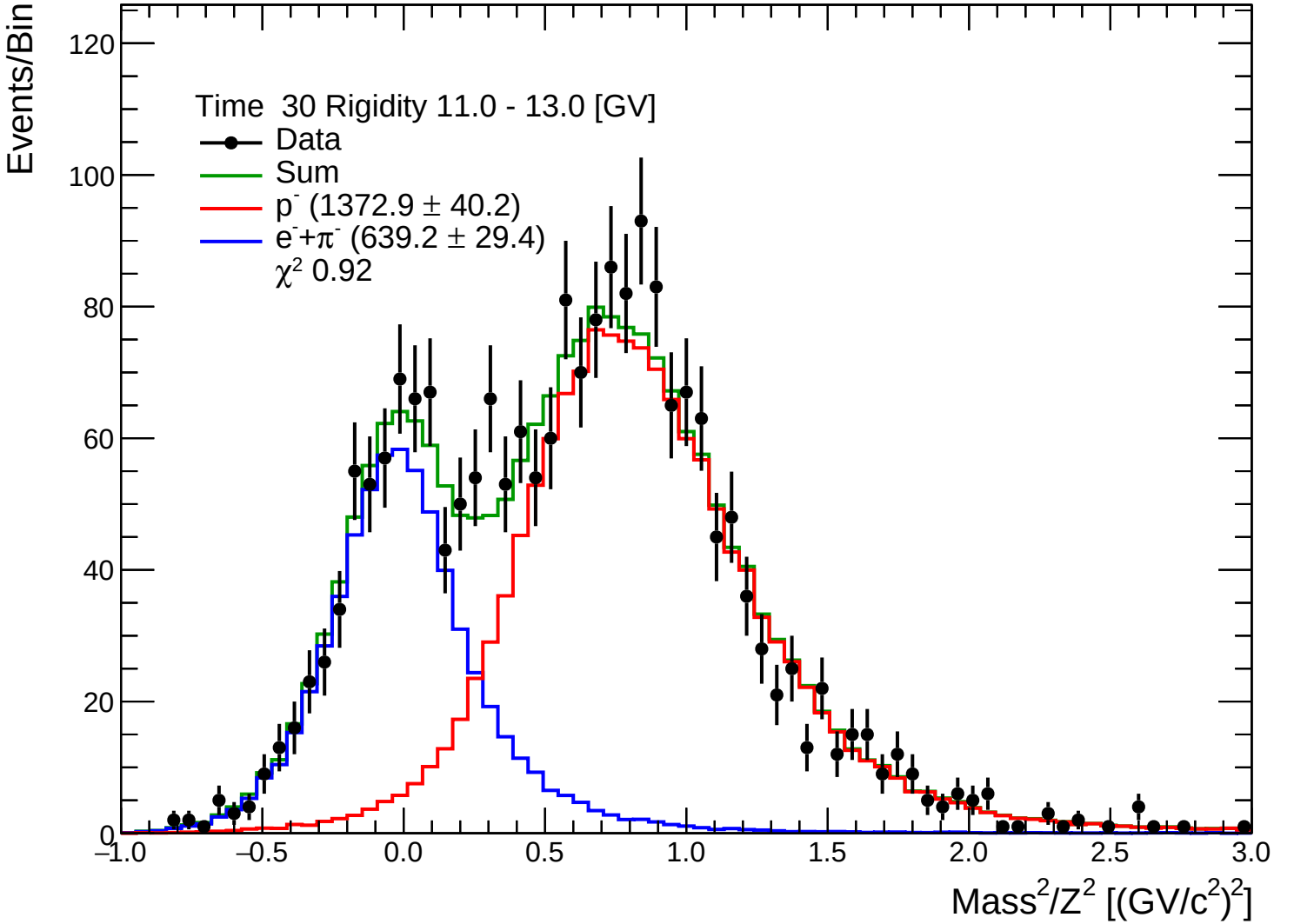

Events/Bin
450
400
350
300
250
200
150
100
50
0
1676
1677
1678
1679
1680
1681
1682
1683
1684
1685
Number [Temp 0]

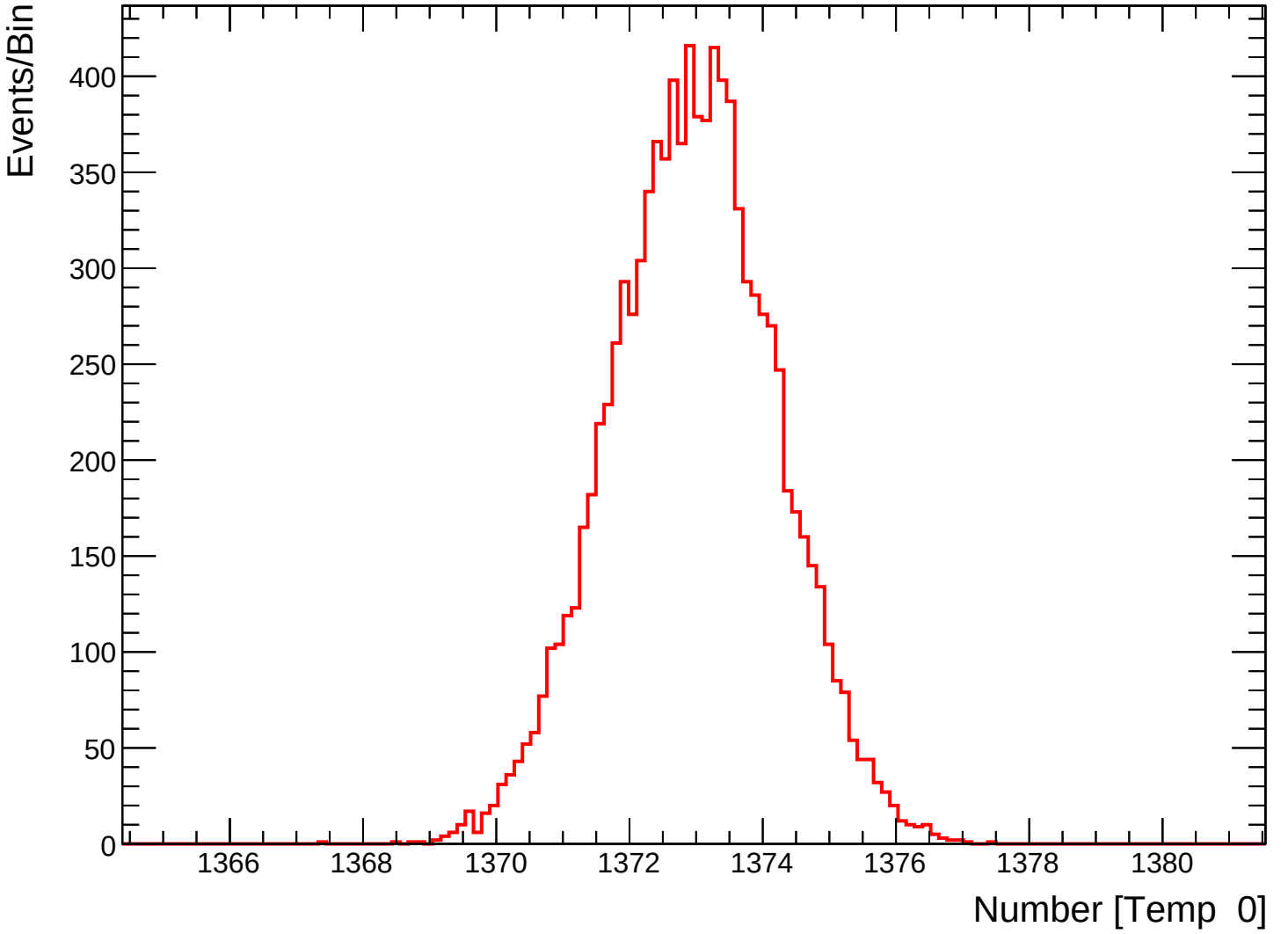

Time 30 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1562.3 ± 40.4)
e⁻+π⁻ (410.1 ± 21.5)
χ² 0.79
Events/Bin
Mass²/Z² [(GV/c²)²]
220
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

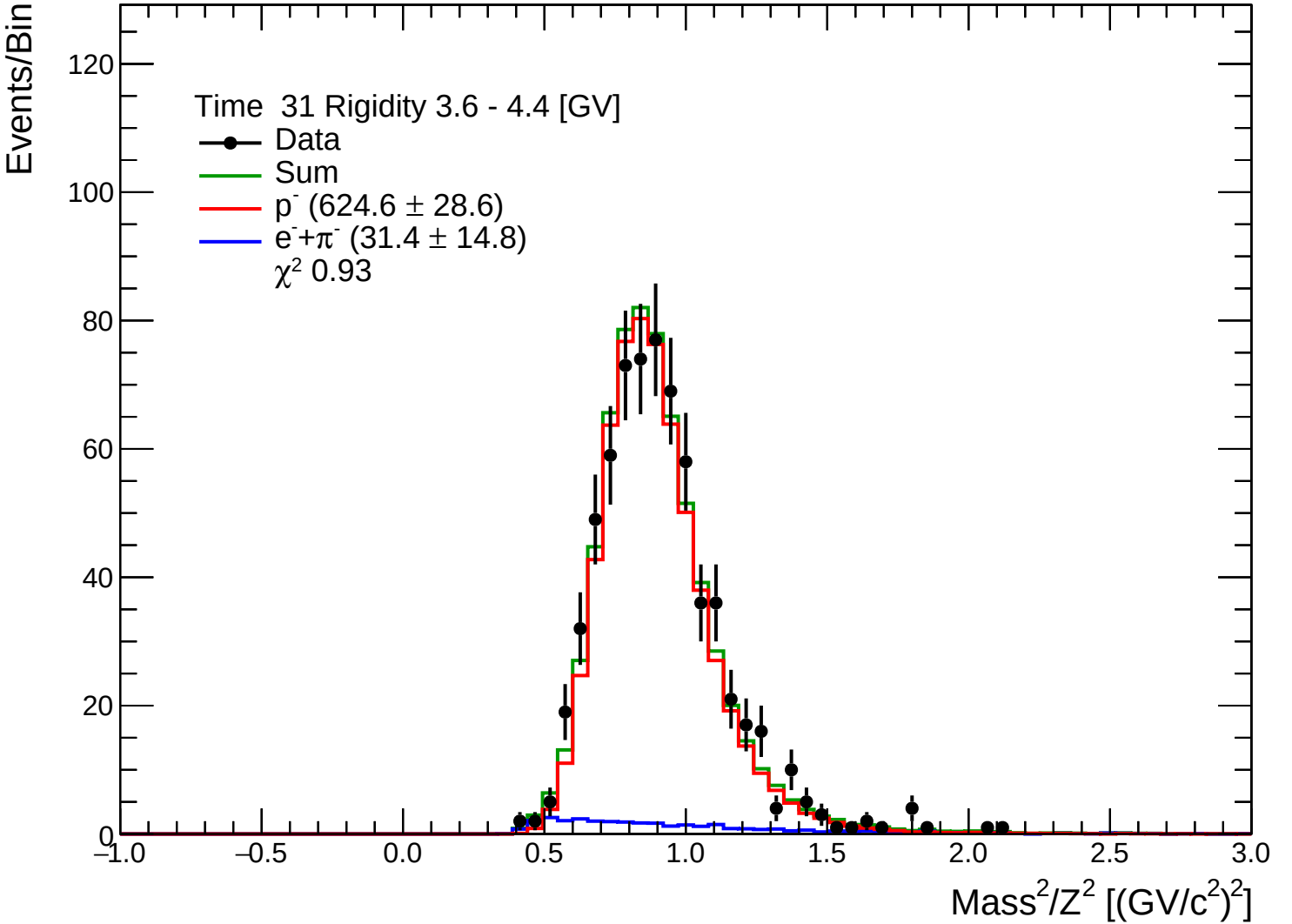

Events/Bin
400
350
300
250
200
150
100
50
0
1558
1559
1560
1561
1562
1563
1564
1565
1566
Number [Temp 0]

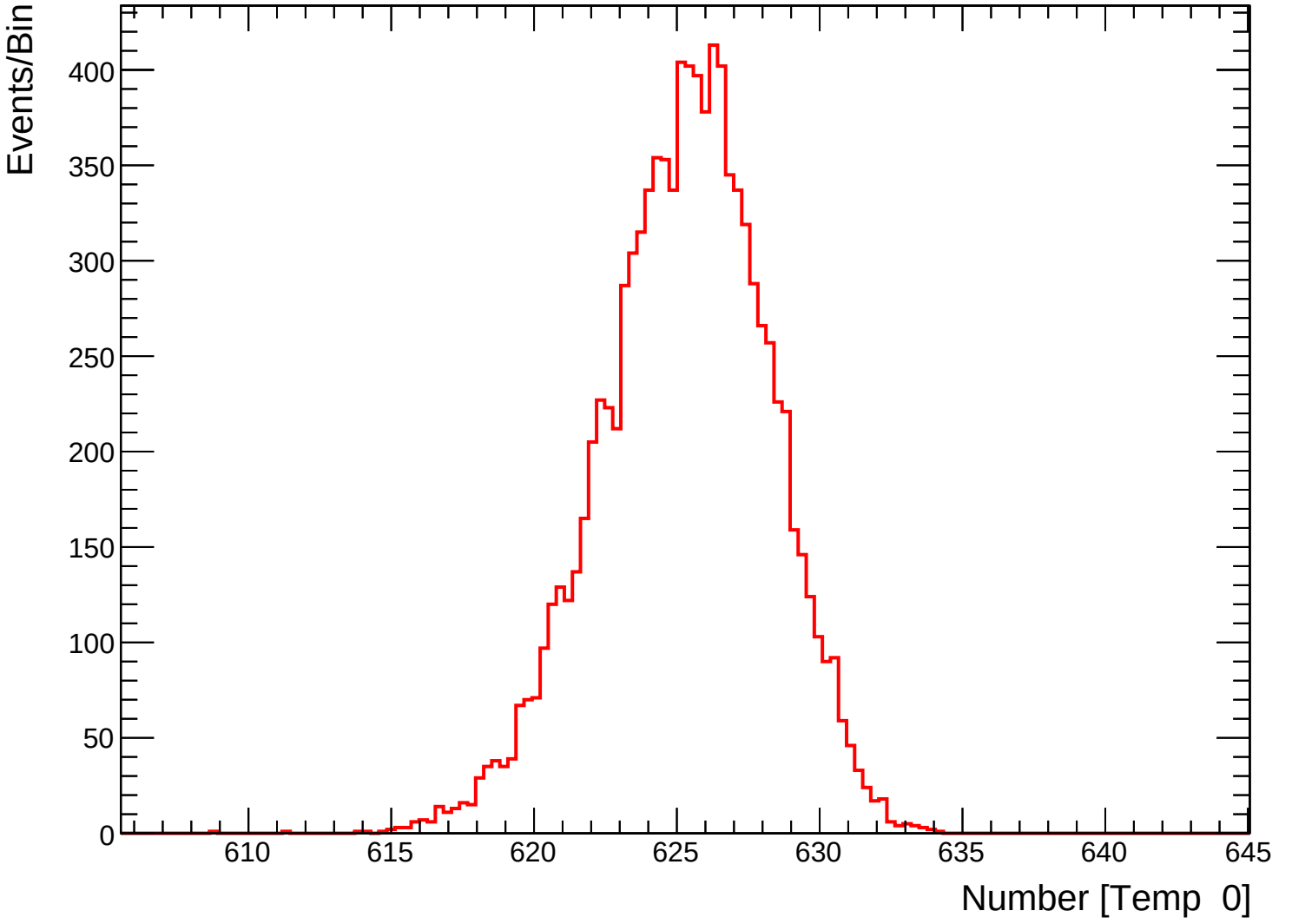

Time 30 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1434.4 ± 39.4)
e⁻+π⁻ (730.5 ± 29.0)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

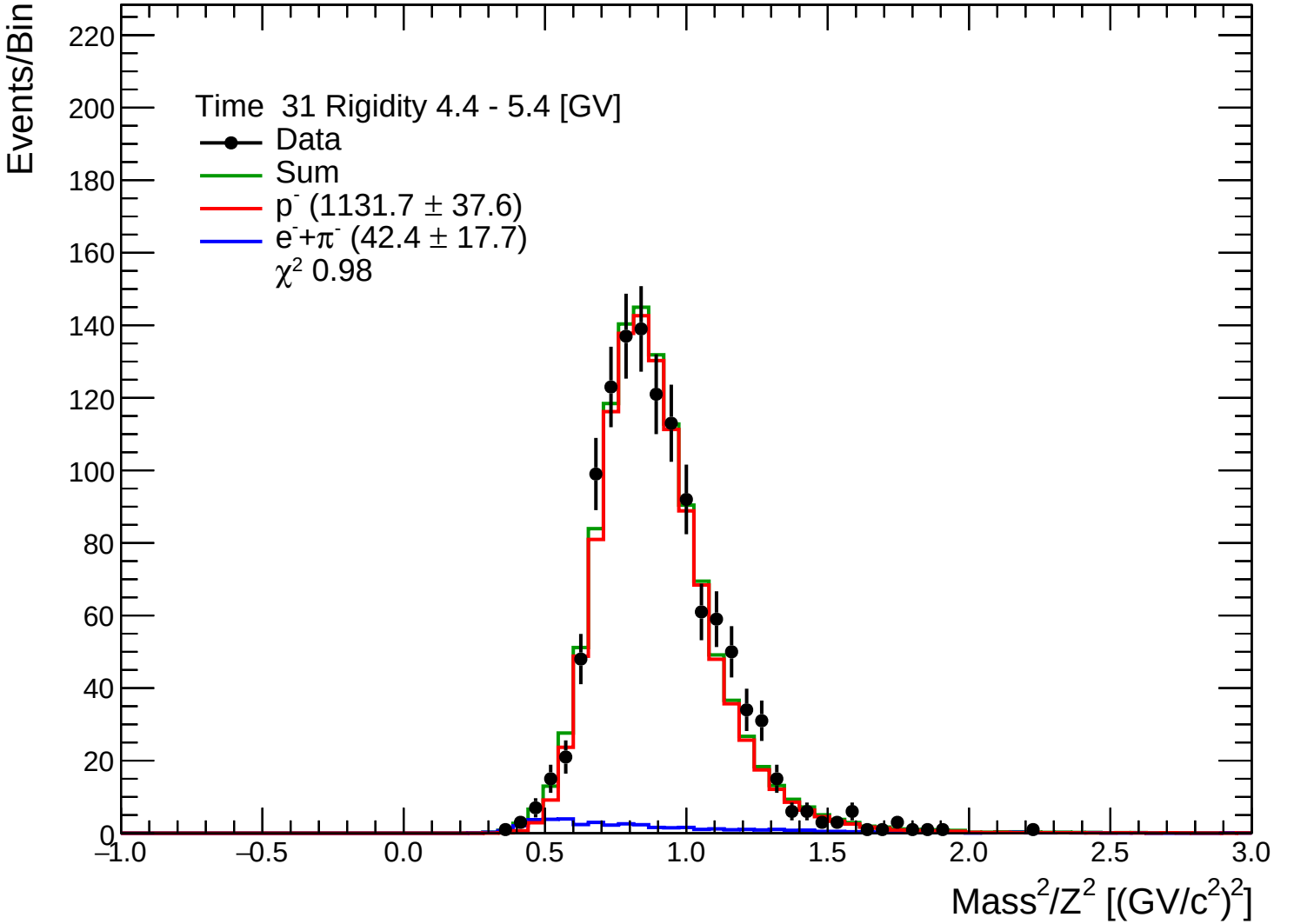

Events/Bin
450
400
350
300
250
200
150
100
50
0
1428
1430
1432
1434
1436
1438
1440
Number [Temp 0]

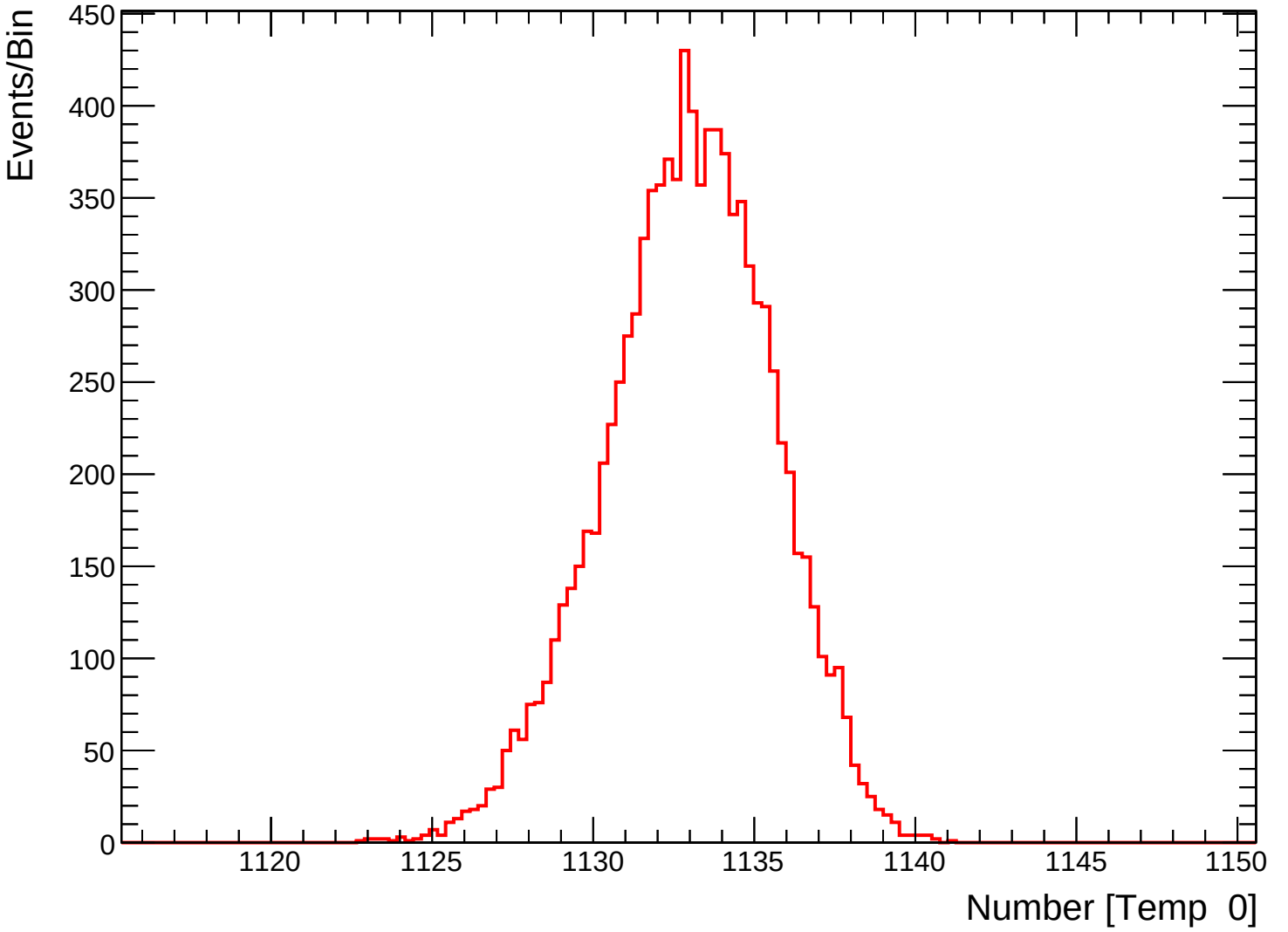

Time 30 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1372.9 ± 40.2)
e⁻+π⁻ (639.2 ± 29.4)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

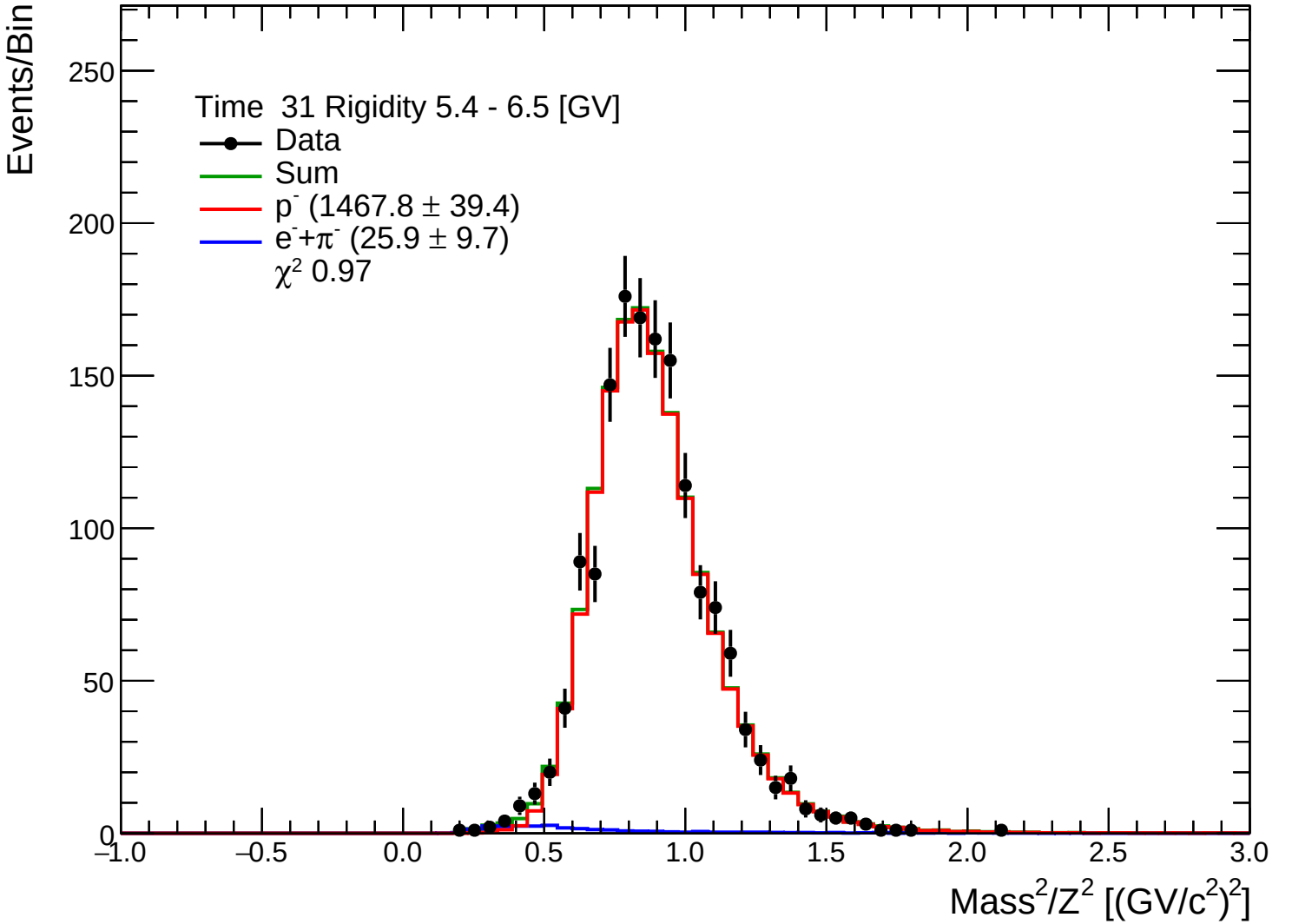

Events/Bin
400
350
300
250
200
150
100
50
0
1366
1368
1370
1372
1374
1376
1378
1380
Number [Temp 0]

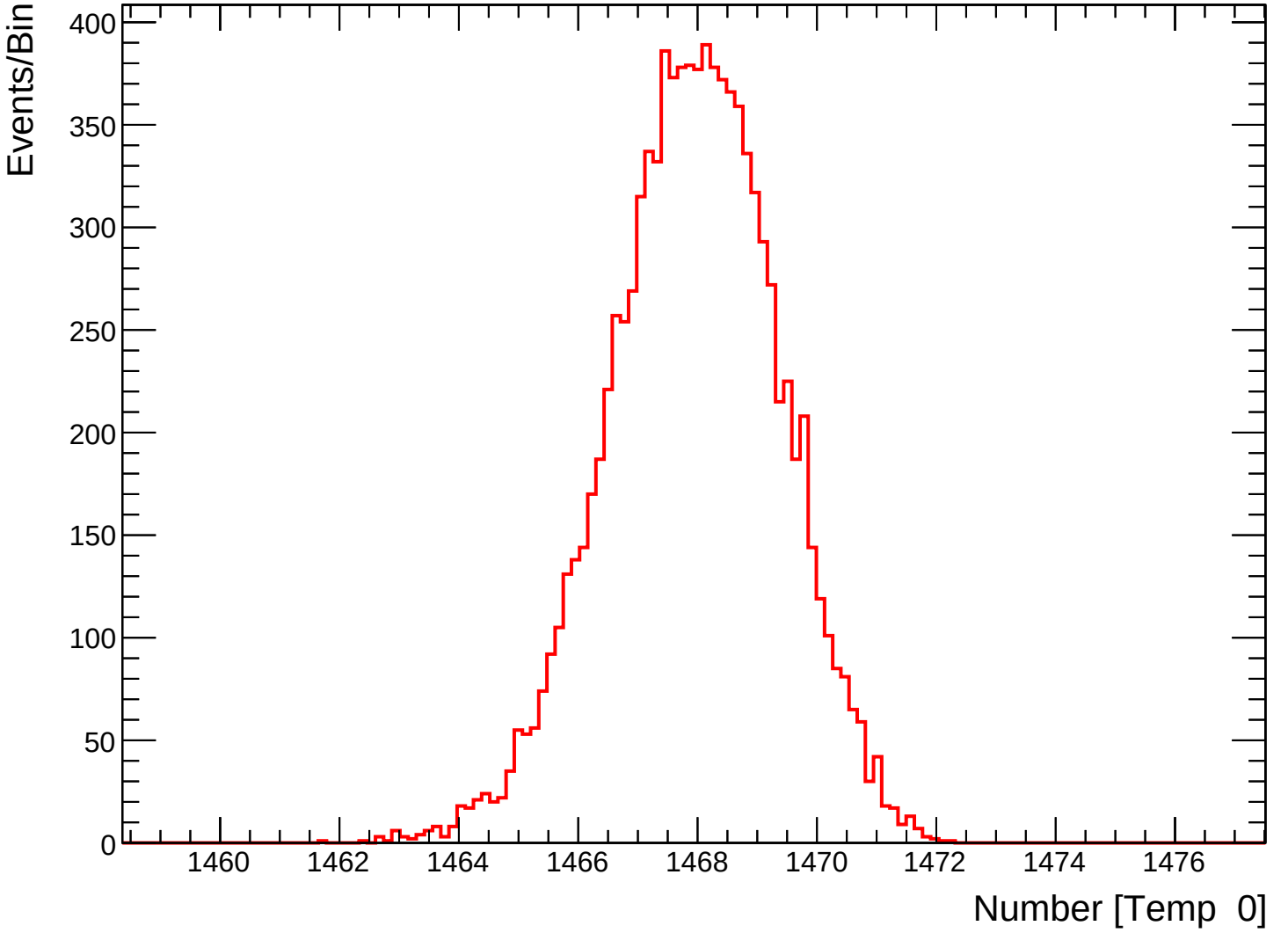

Time 31 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (624.6 ± 28.6)
e⁻+π⁻ (31.4 ± 14.8)
χ² 0.93
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

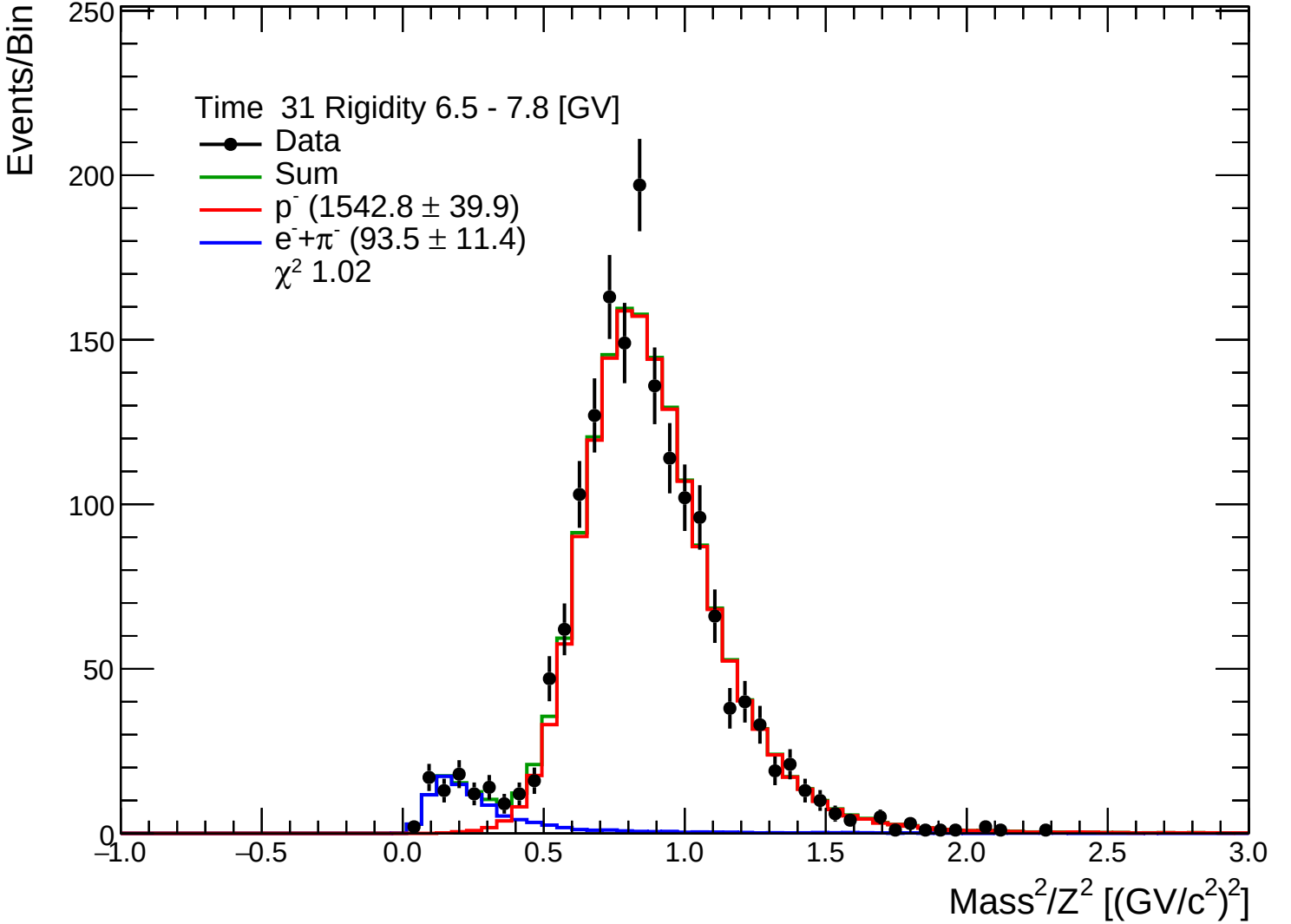

Events/Bin
400
350
300
250
200
150
100
50
0
610
615
620
625
630
635
640
645
Number [Temp 0]

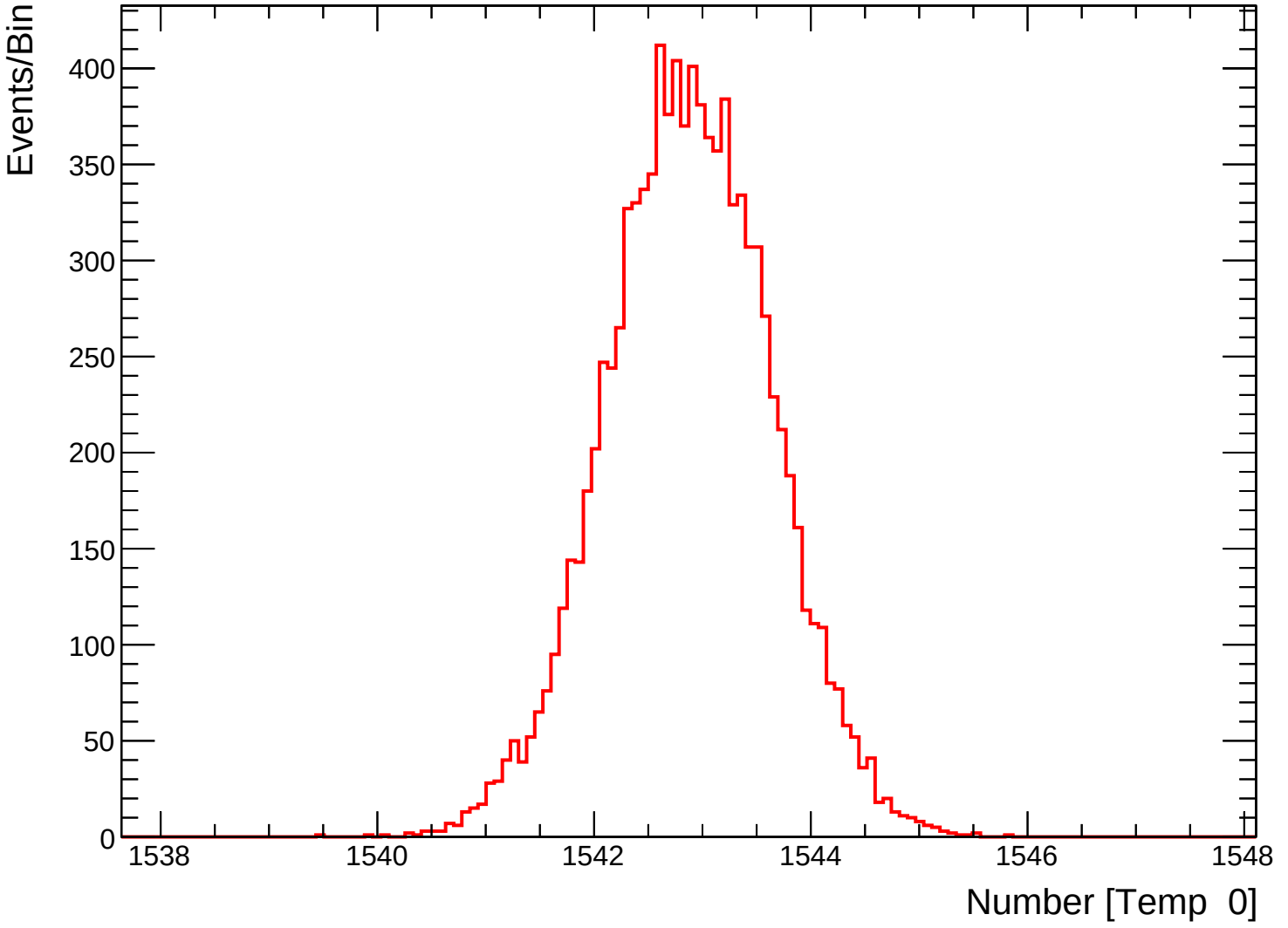

Time 31 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1131.7 ± 37.6)
e⁻+π⁻ (42.4 ± 17.7)
χ² 0.98
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

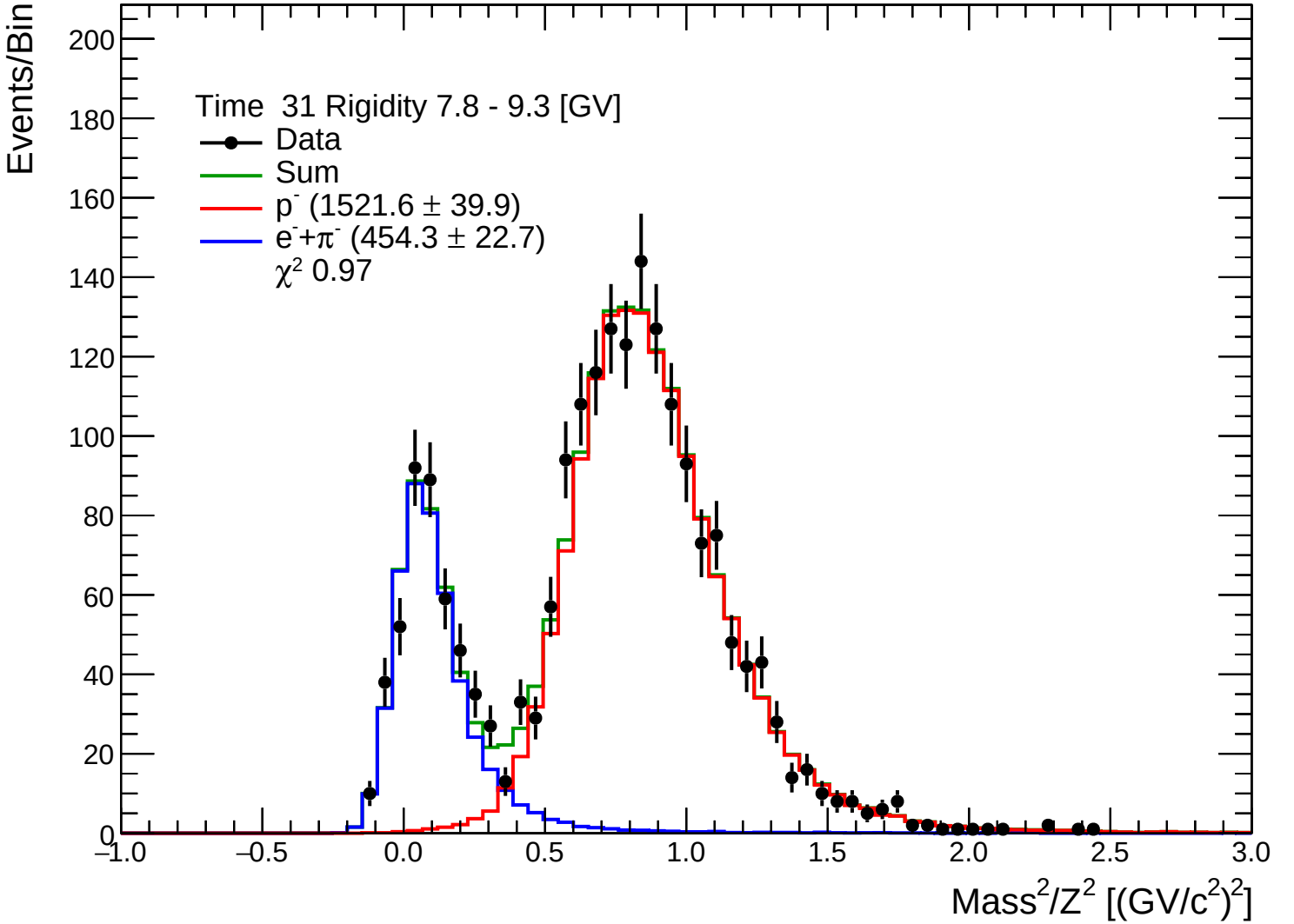

Events/Bin
450
400
350
300
250
200
150
100
50
0
1120
1125
1130
1135
1140
1145
1150
Number [Temp 0]

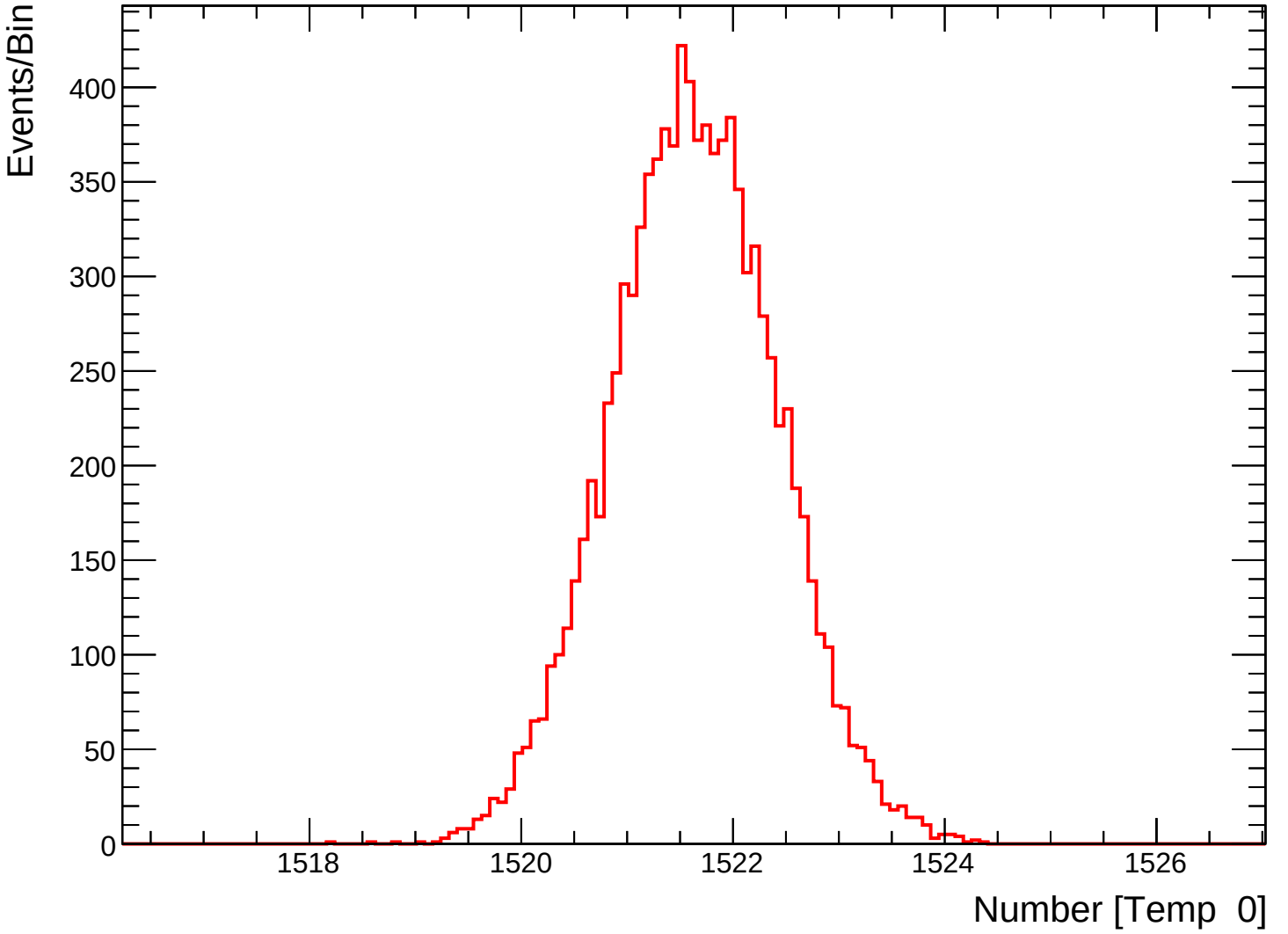

Time 31 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1467.8 ± 39.4)
e⁻+π⁻ (25.9 ± 9.7)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

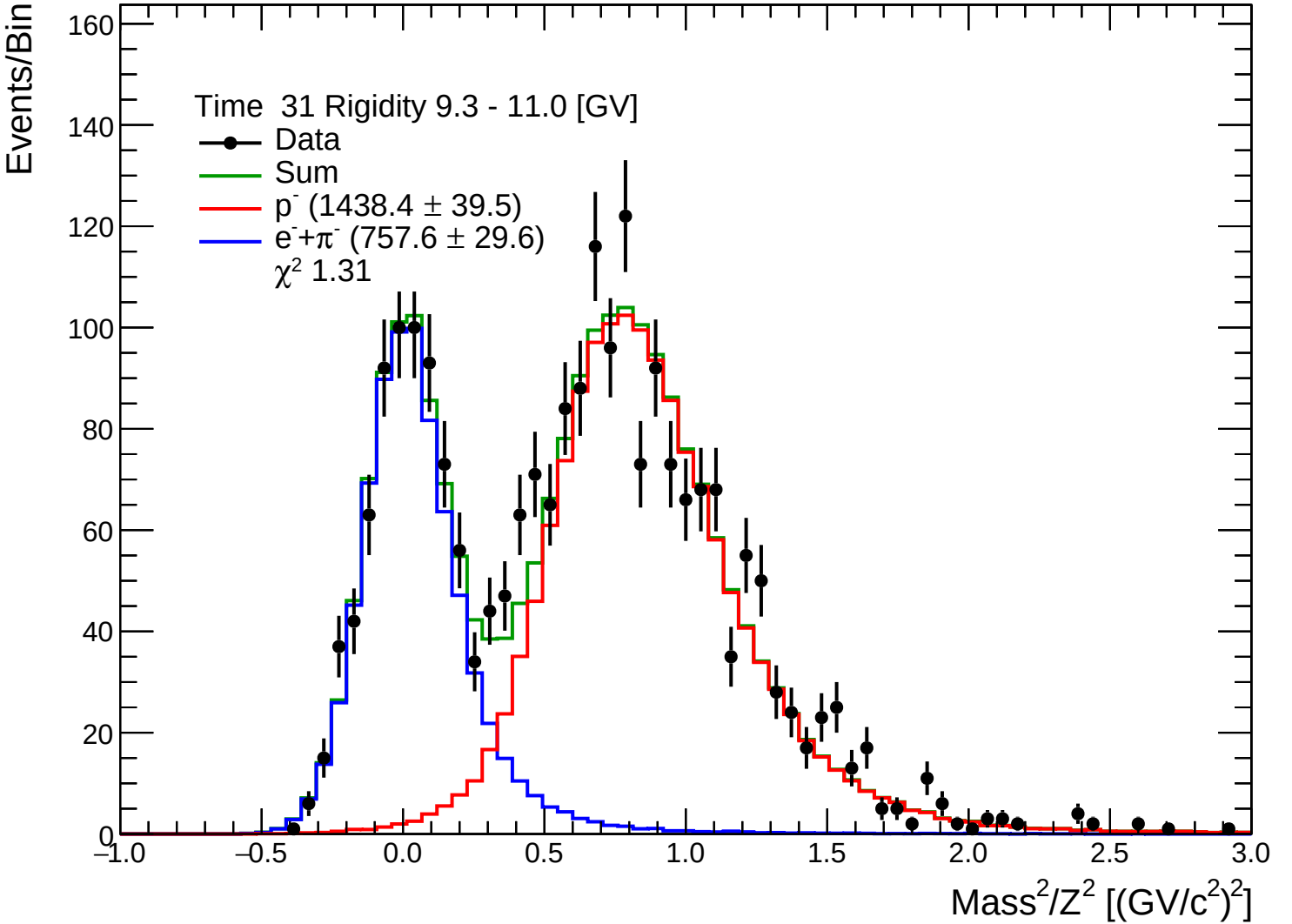

Events/Bin
400
350
300
250
200
150
100
50
0
1460
1462
1464
1466
1468
1470
1472
1474
1476
Number [Temp 0]

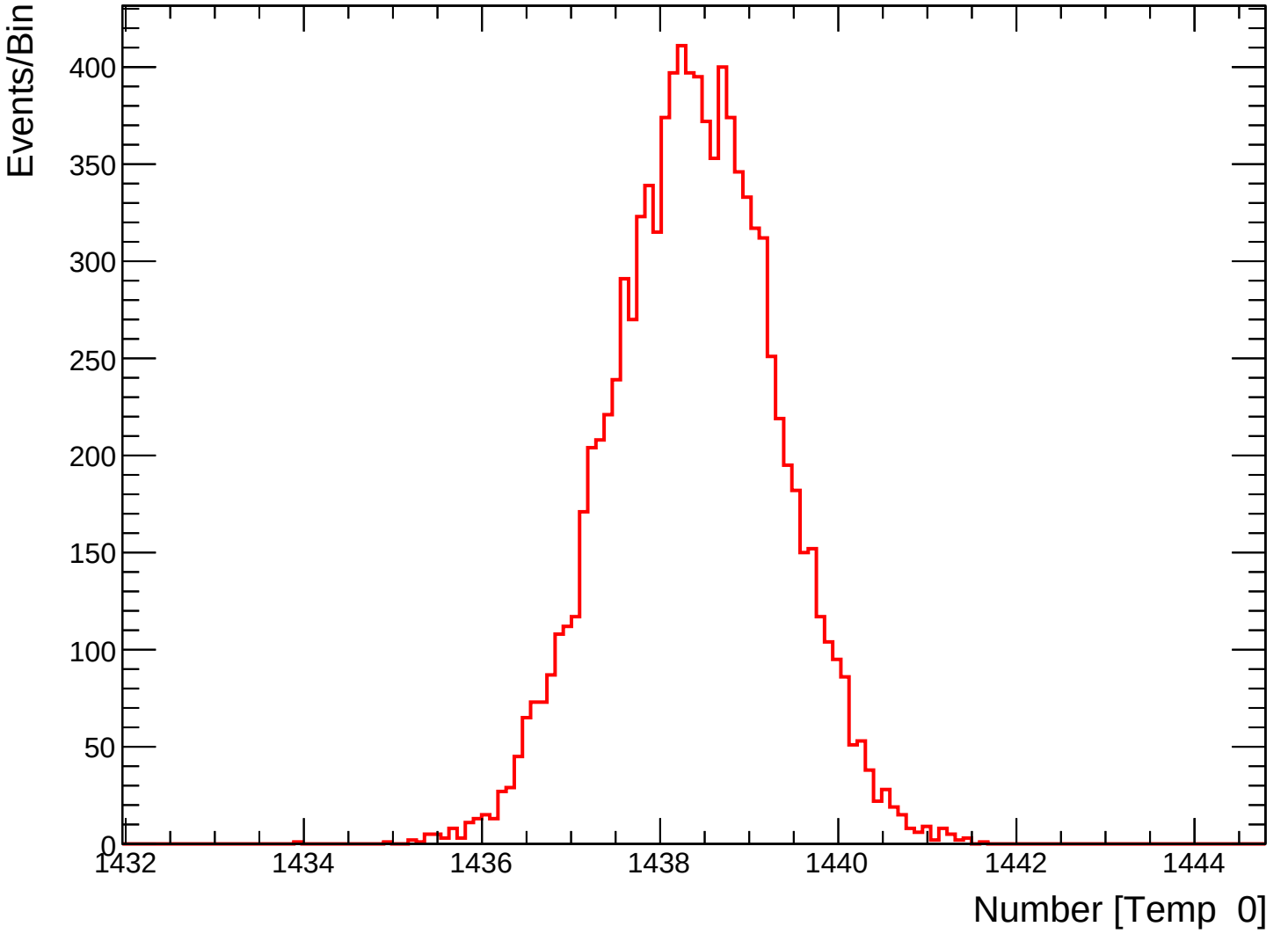

Time 31 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1542.8 ± 39.9)
e⁻+π⁻ (93.5 ± 11.4)
χ² 1.02
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

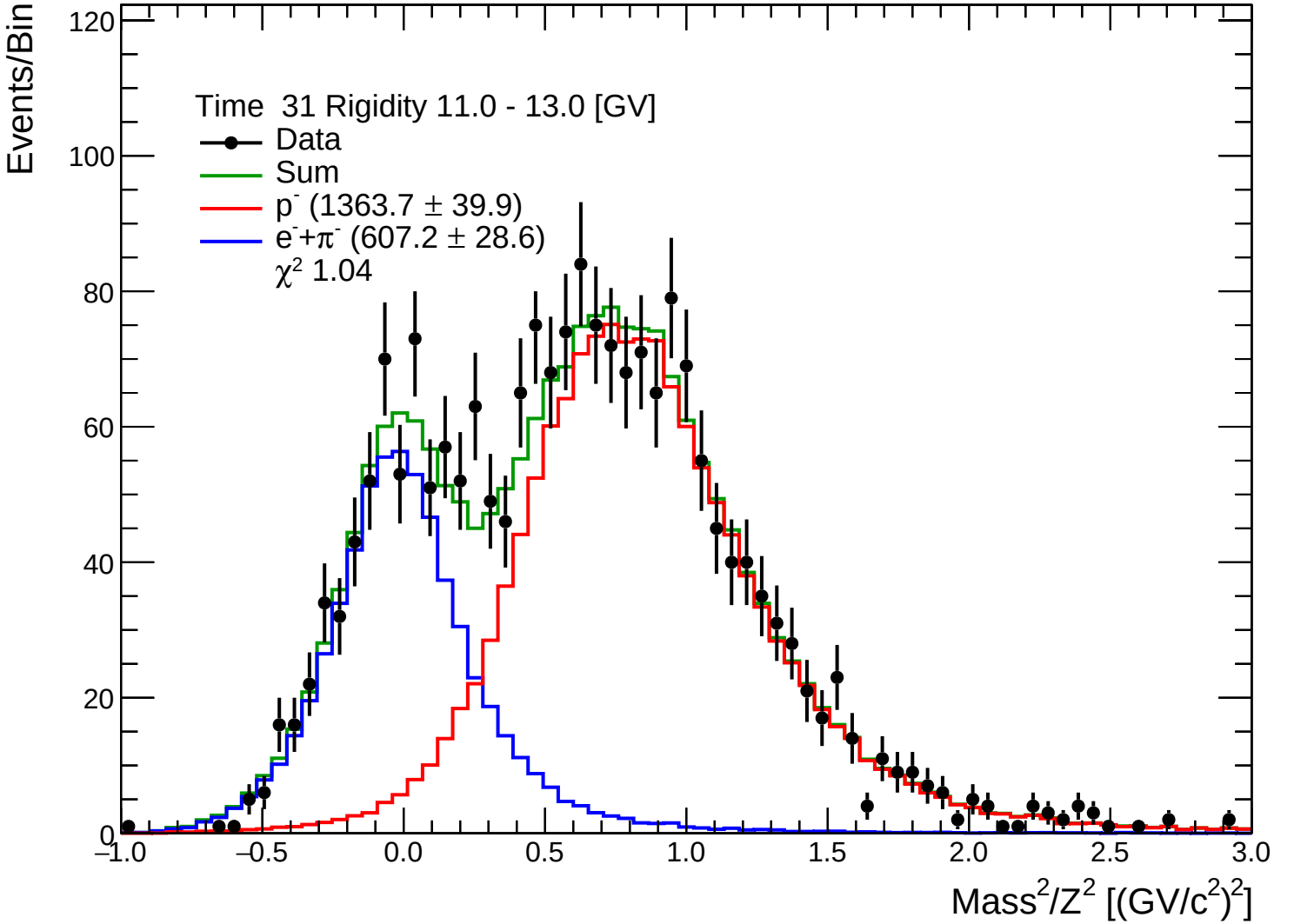

Events/Bin
400
350
300
250
200
150
100
50
0
1538
1540
1542
1544
1546
1548
Number [Temp 0]

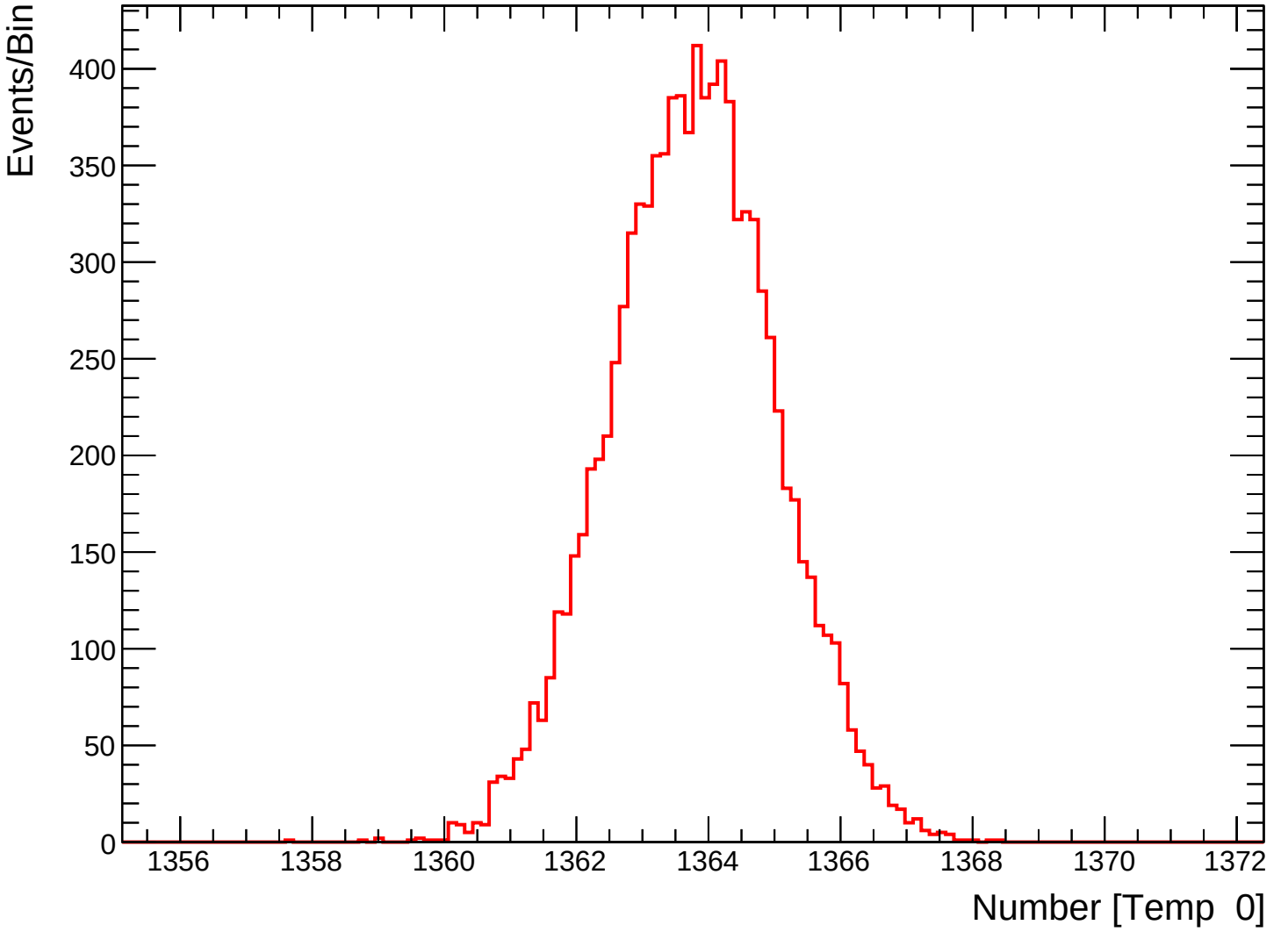

Time 31 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1521.6 ± 39.9)
e⁻+π⁻ (454.3 ± 22.7)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
200
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

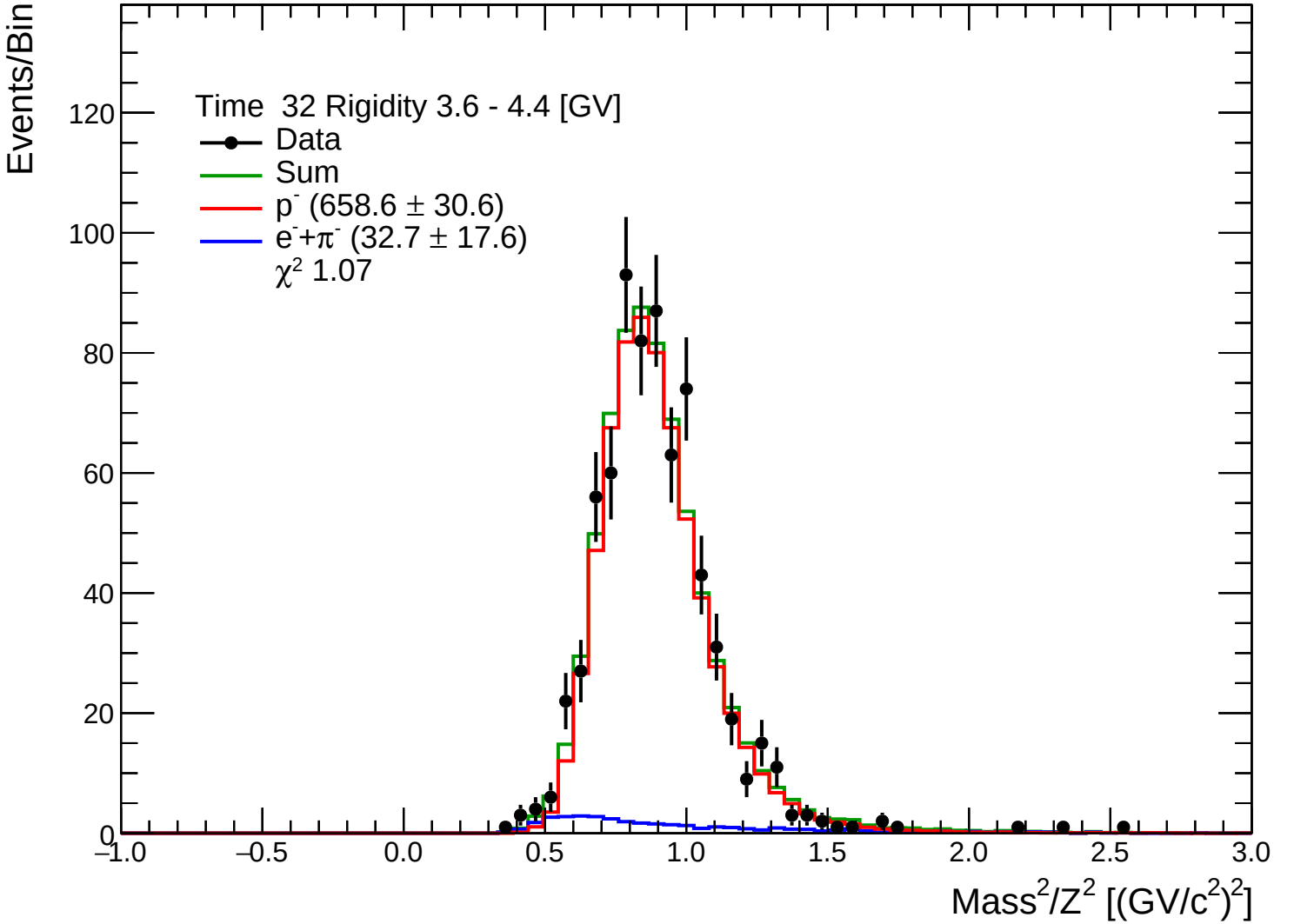

Events/Bin
400
350
300
250
200
150
100
50
0
1518
1520
1522
1524
1526
Number [Temp 0]

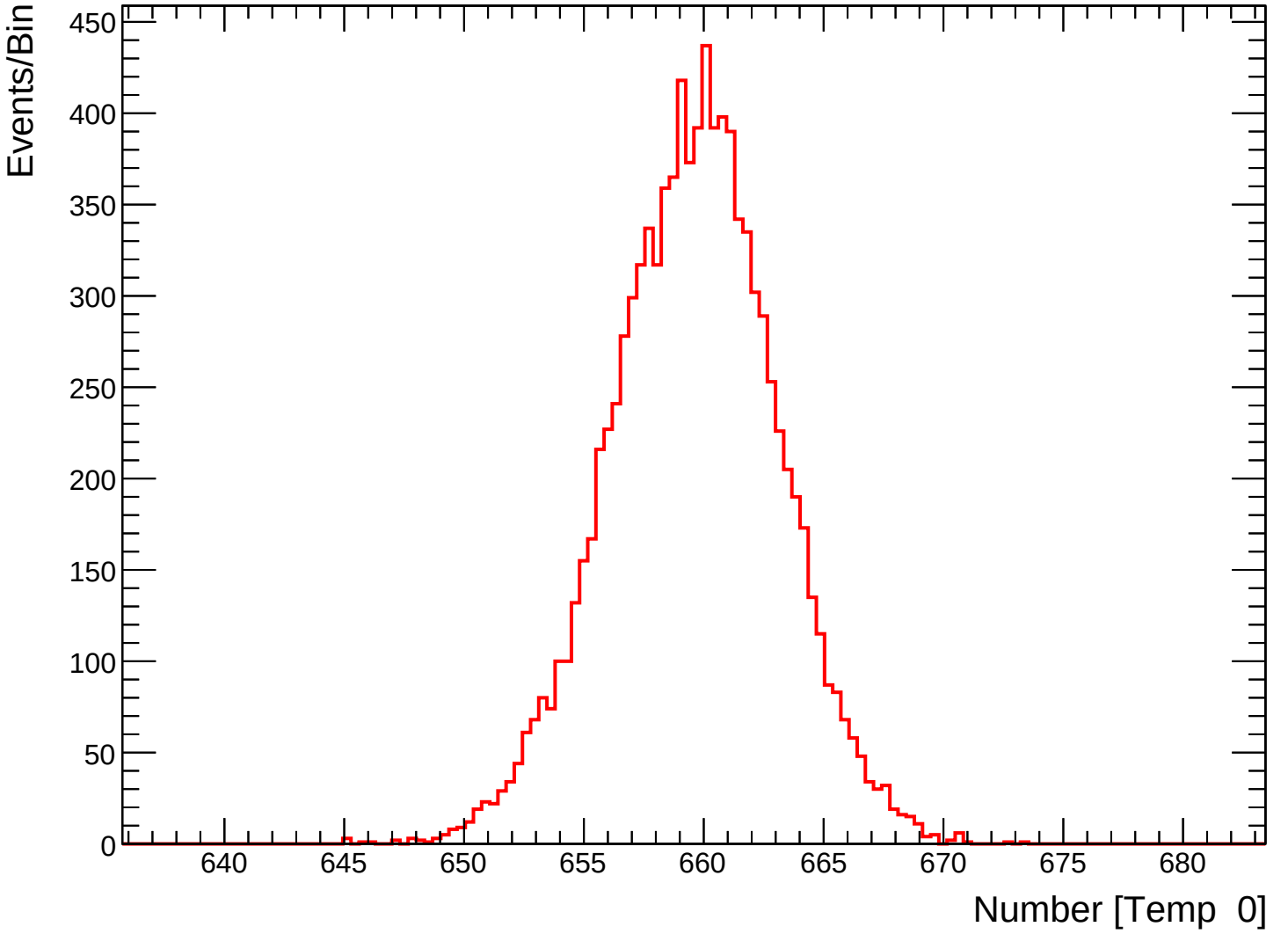

Time 31 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1438.4 ± 39.5)
e⁻+π⁻ (757.6 ± 29.6)
χ² 1.31
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

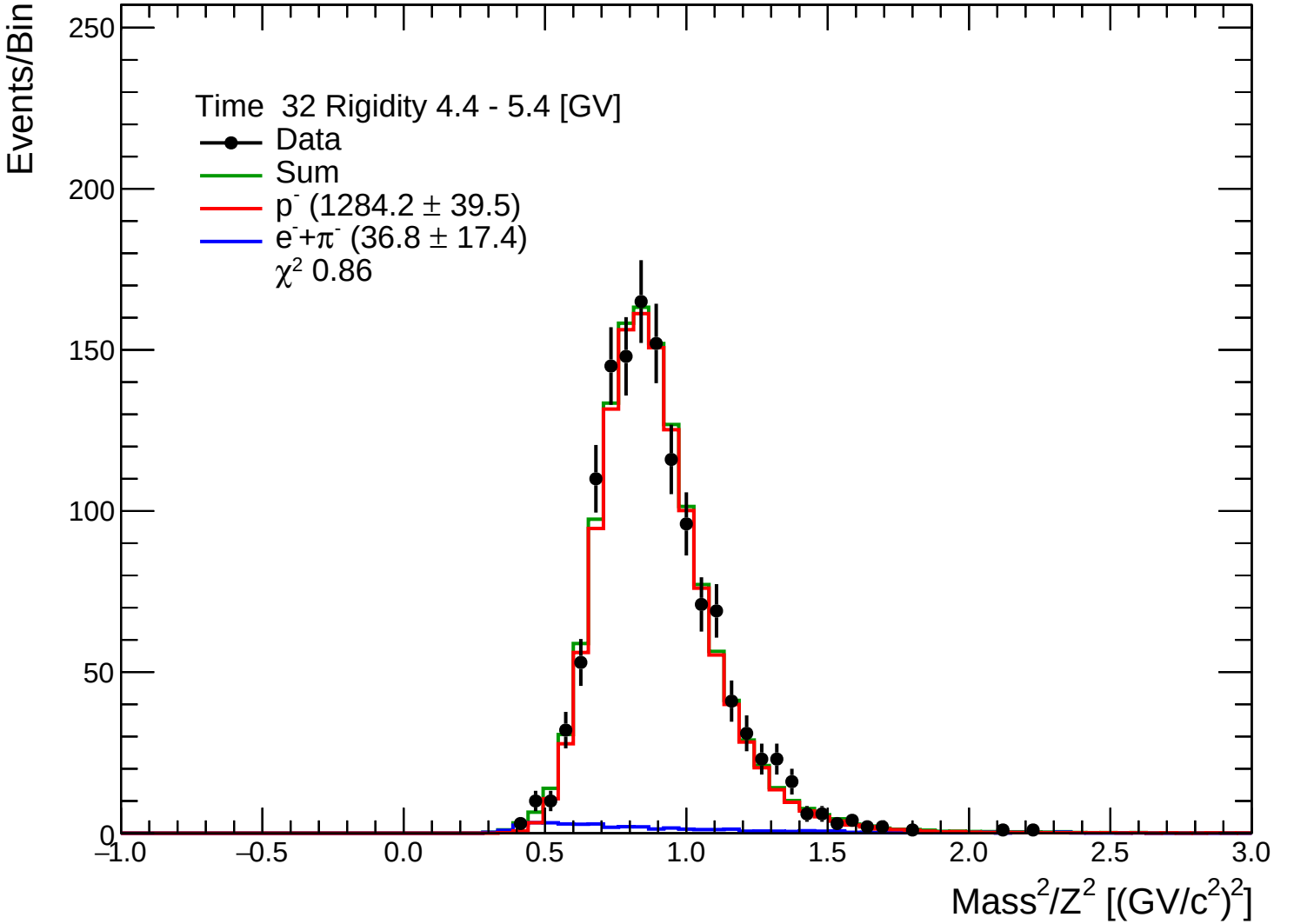

Events/Bin
400
350
300
250
200
150
100
50
0
1432
1434
1436
1438
1440
1442
1444
Number [Temp 0]

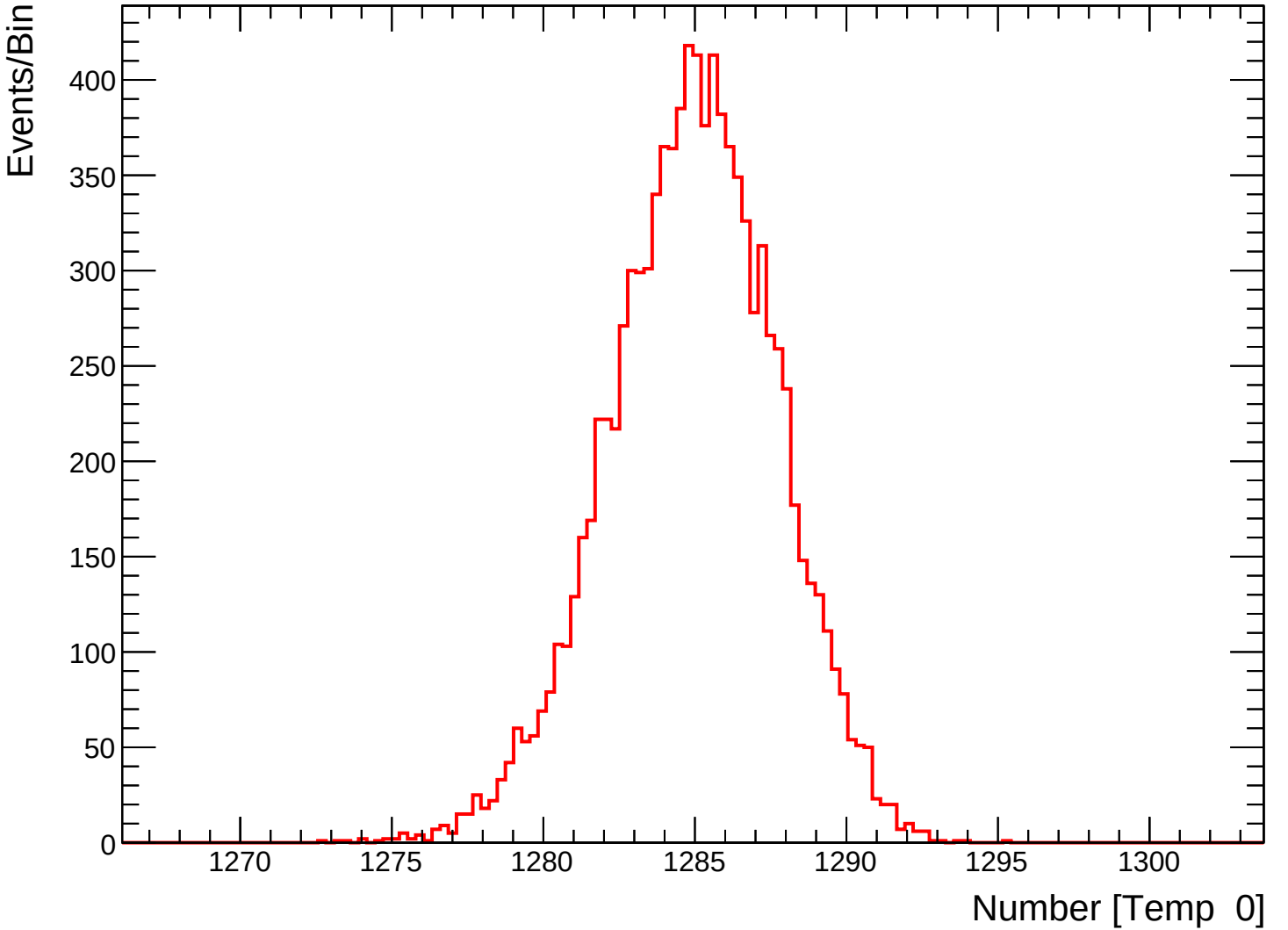

Time 31 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1363.7 ± 39.9)
e⁻+π⁻ (607.2 ± 28.6)
χ² 1.04
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

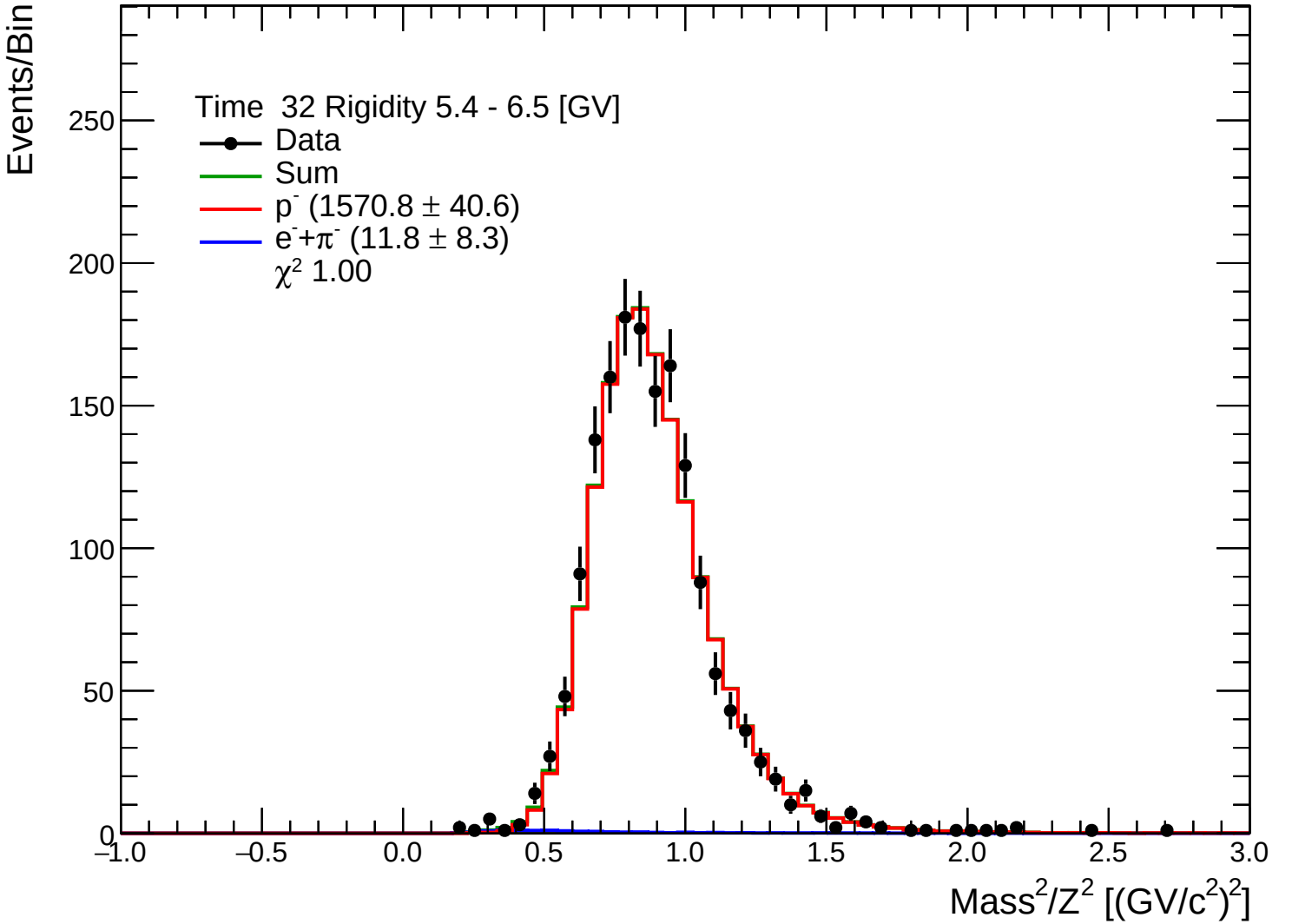

Events/Bin
400
350
300
250
200
150
100
50
0
1356
1358
1360
1362
1364
1366
1368
1370
1372
Number [Temp 0]

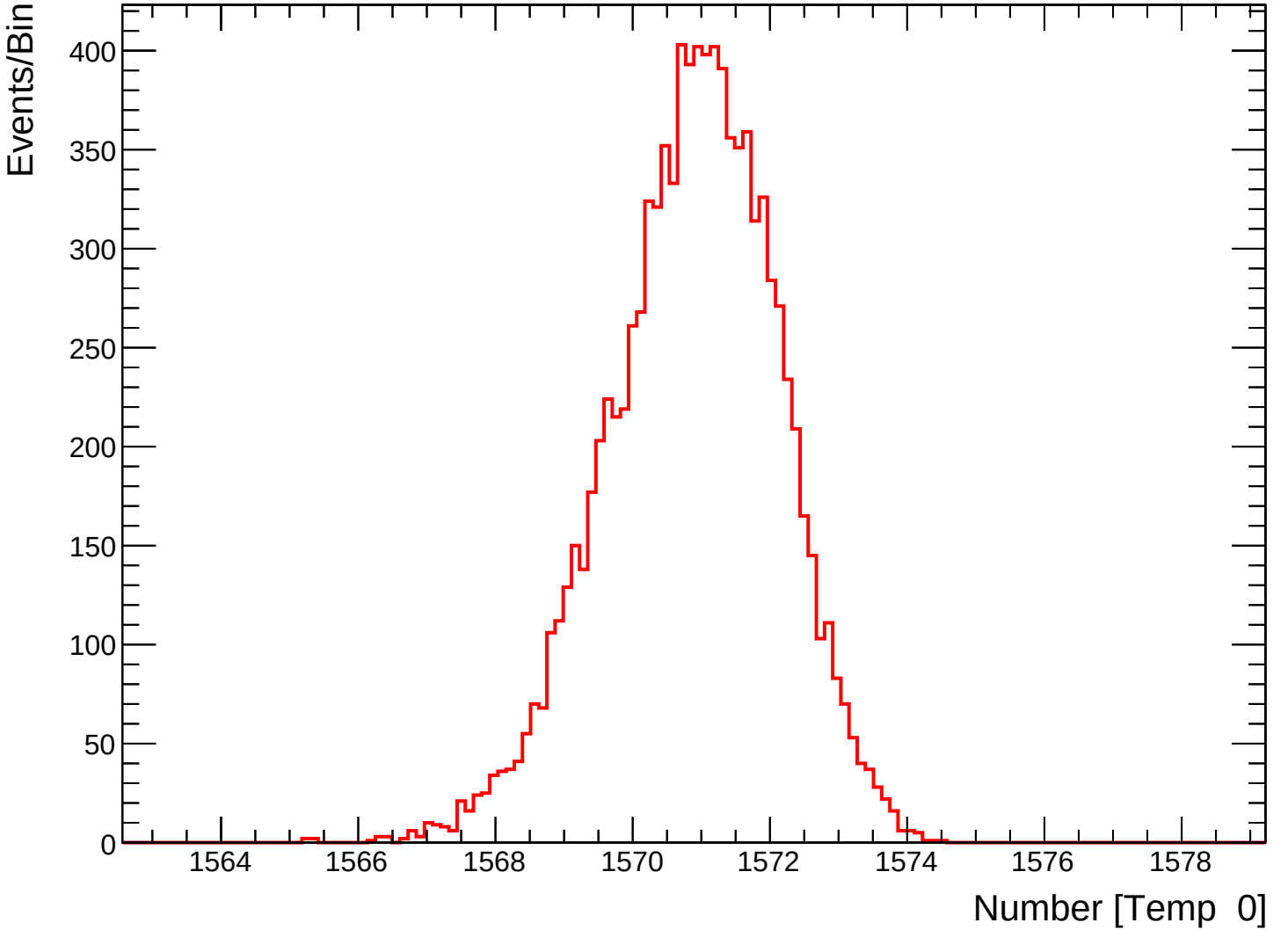

Time 32 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (658.6 ± 30.6)
e⁻+π⁻ (32.7 ± 17.6)
χ² 1.07
Events/Bin
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Mass²/Z² [(GV/c²)²]

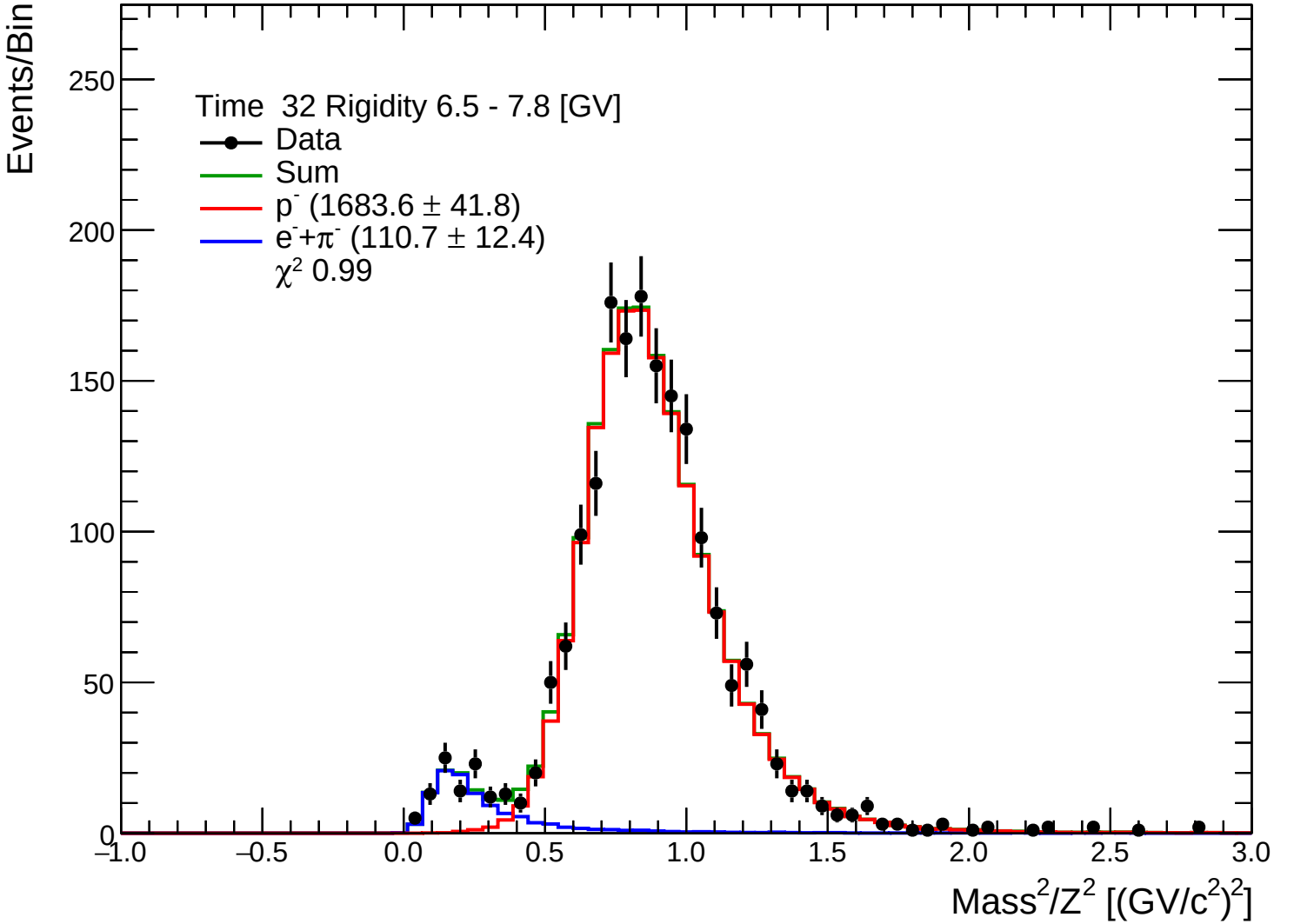

Events/Bin
450
400
350
300
250
200
150
100
50
0
640
645
650
655
660
665
670
675
680
Number [Temp 0]

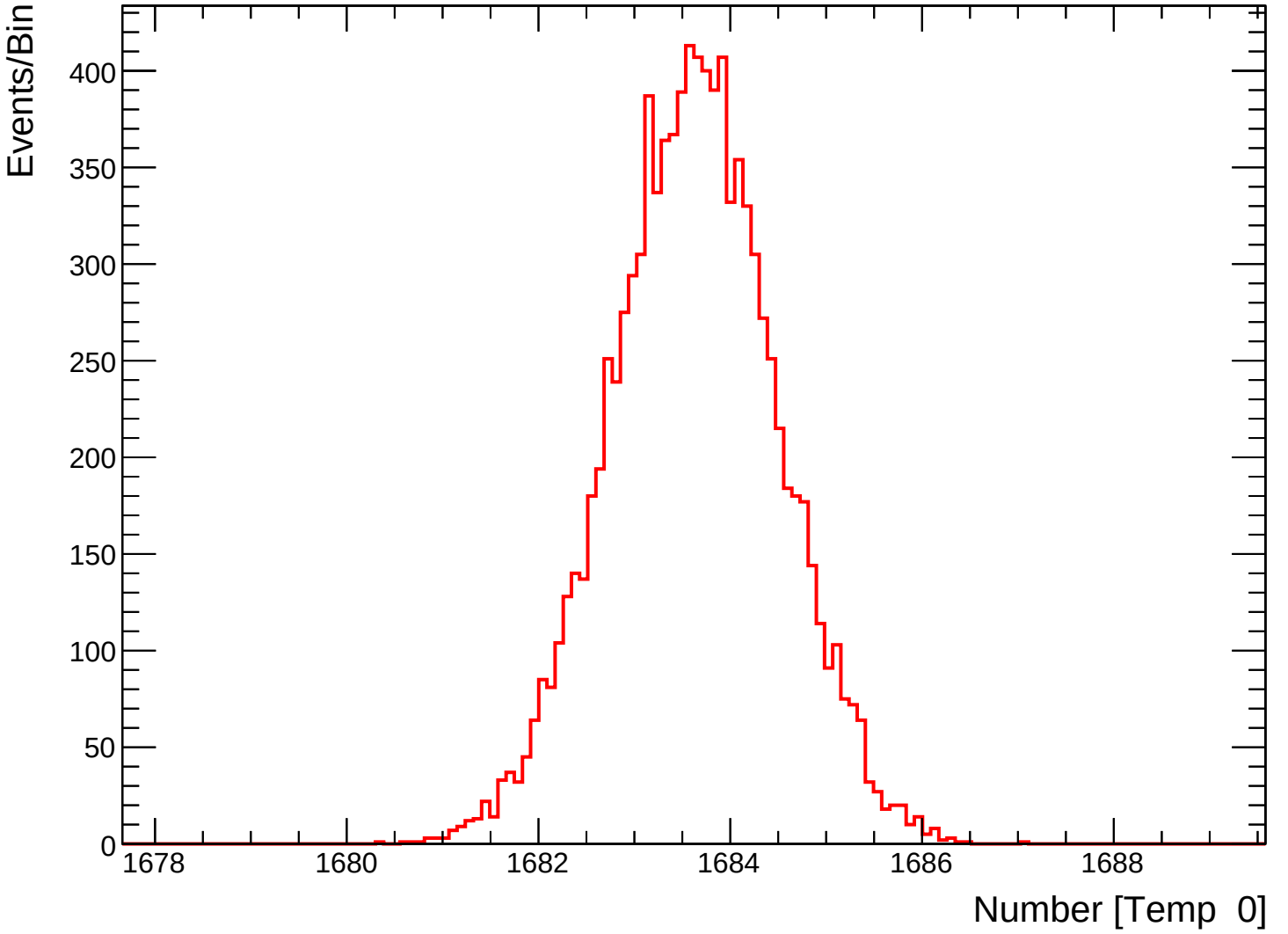

Time 32 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (1284.2 ± 39.5)
e⁻+π⁻ (36.8 ± 17.4)
χ² 0.86
Events/Bin
Mass²/Z² [(GV/c²)²]
250
200
150
100
50
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

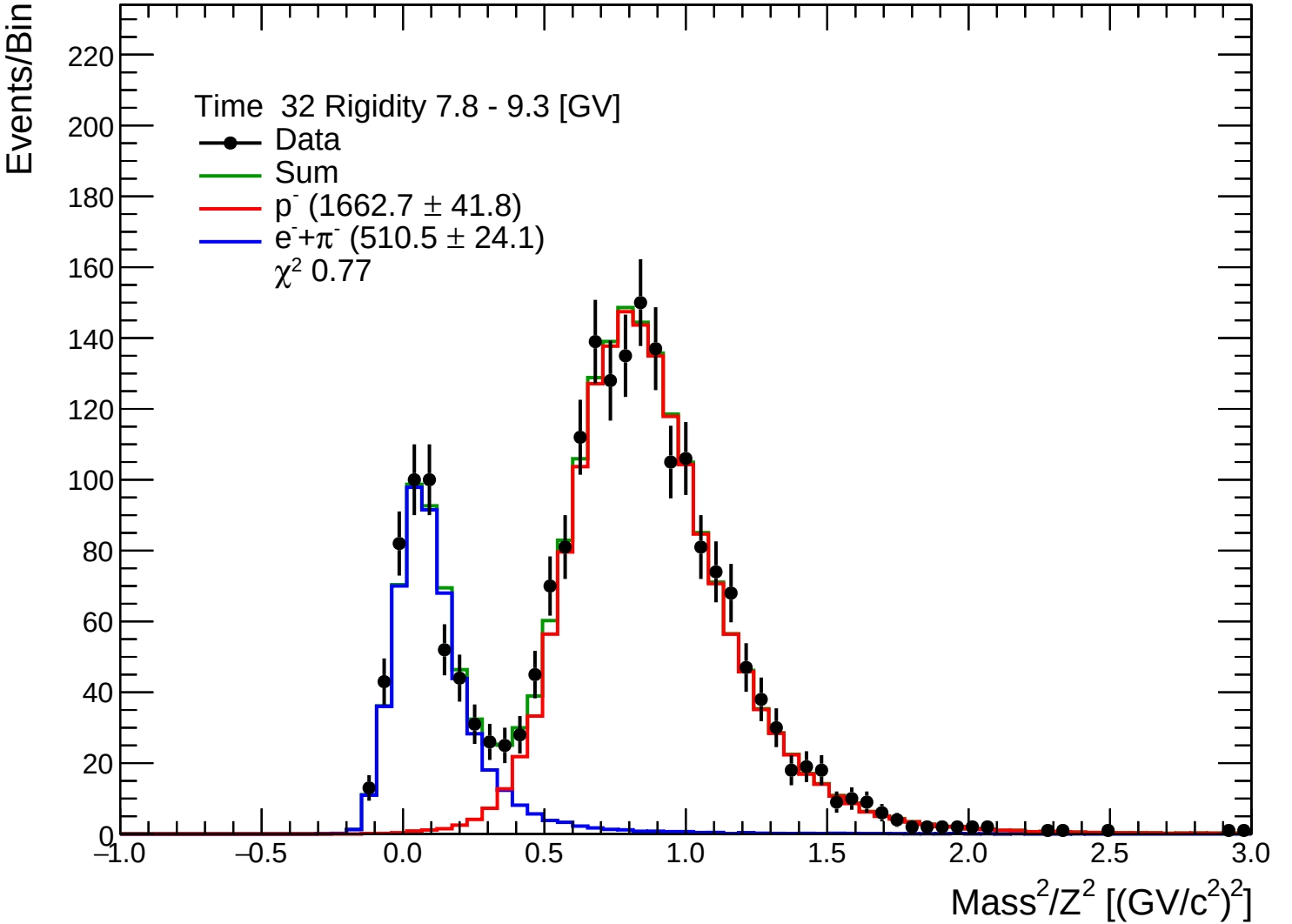

Events/Bin
400
350
300
250
200
150
100
50
0
1270
1275
1280
1285
1290
1295
1300
Number [Temp 0]

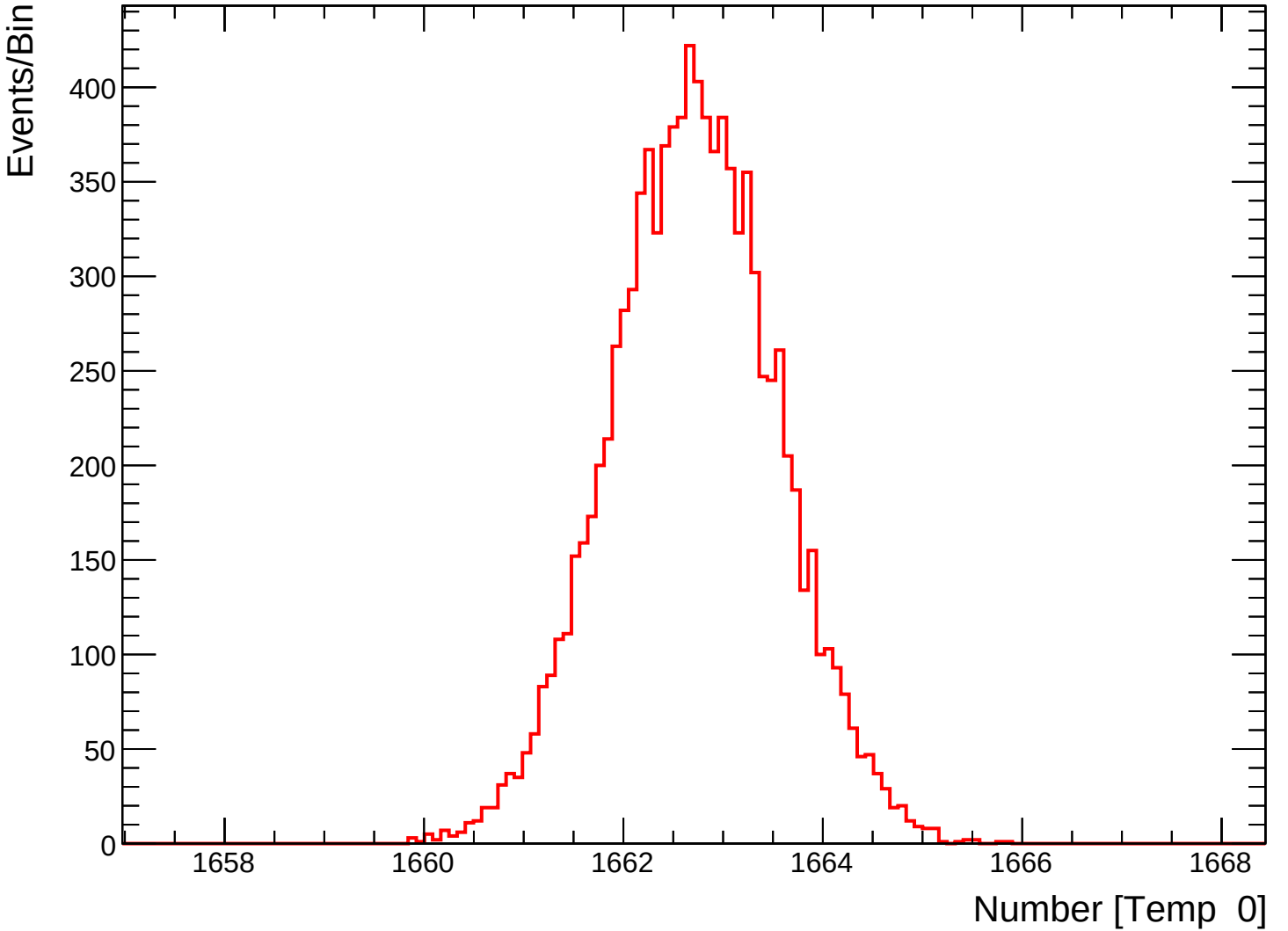

Time 32 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1570.8 ± 40.6)
e⁻+π⁻ (11.8 ± 8.3)
χ² 1.00
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

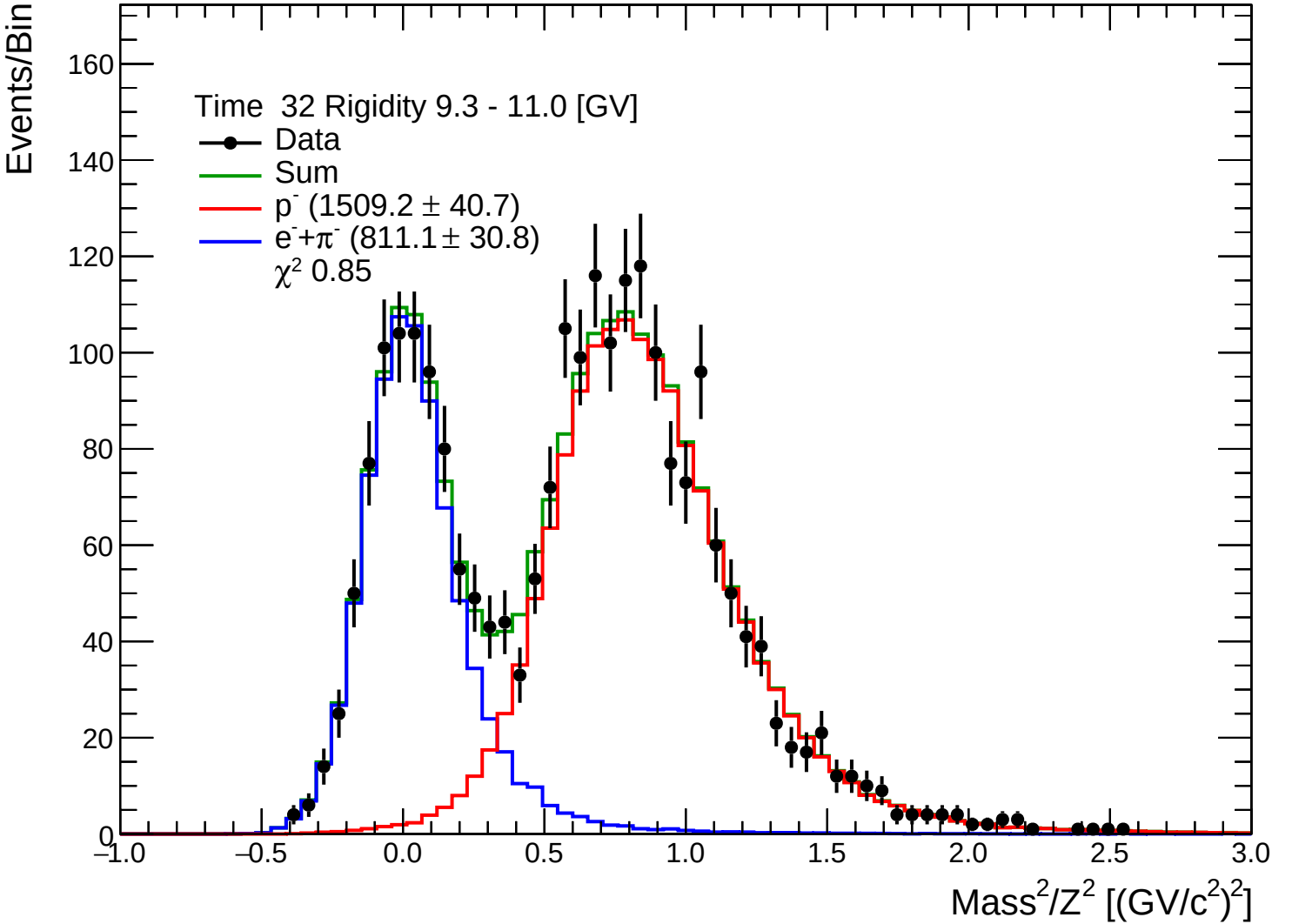

Events/Bin
400
350
300
250
200
150
100
50
0
1564
1566
1568
1570
1572
1574
1576
1578
Number [Temp 0]

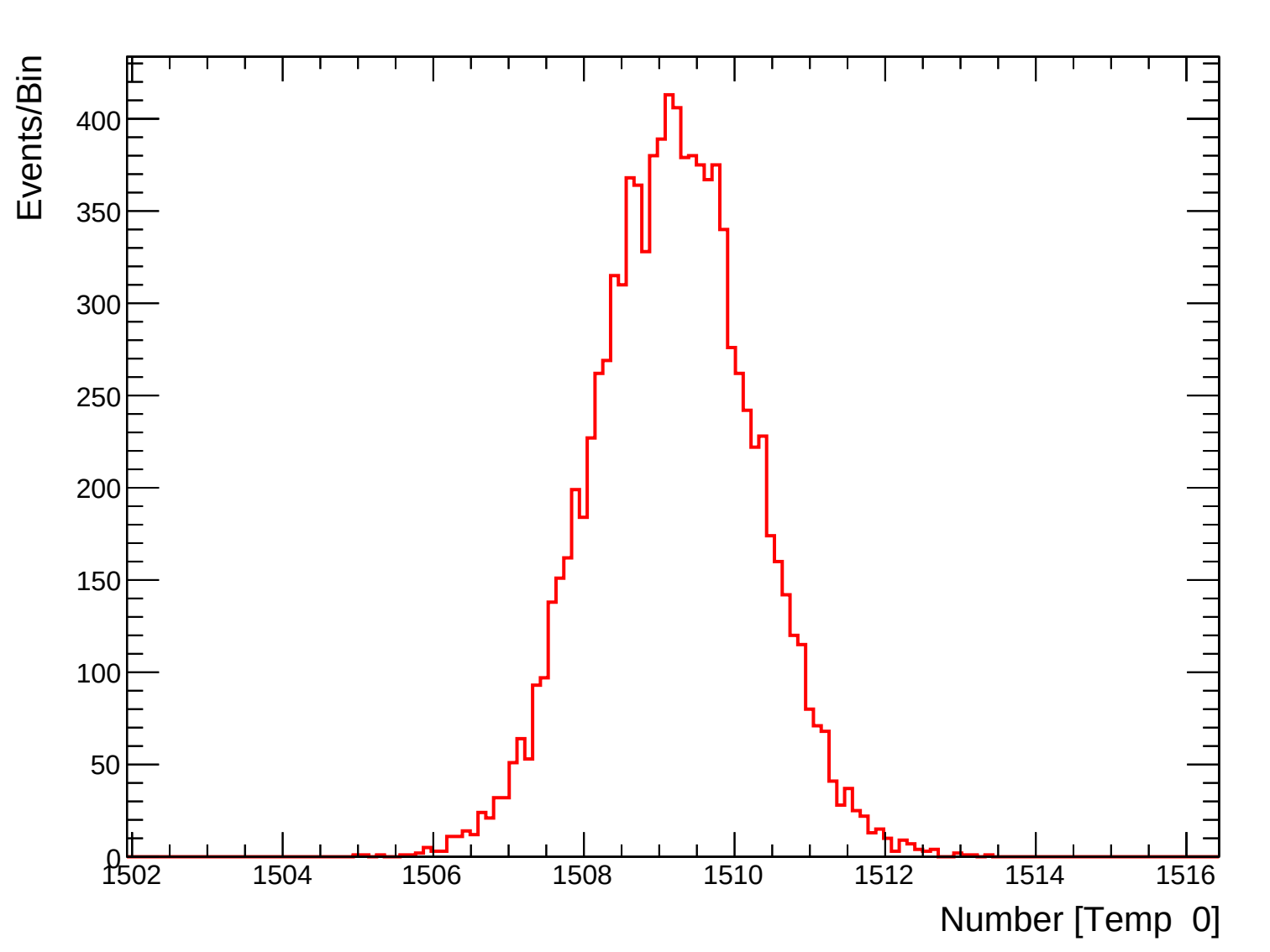

Time 32 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1683.6 ± 41.8)
e⁻+π⁻ (110.7 ± 12.4)
χ² 0.99
Events/Bin
Mass²/Z² [(GV/c²)²]
0
50
100
150
200
250
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

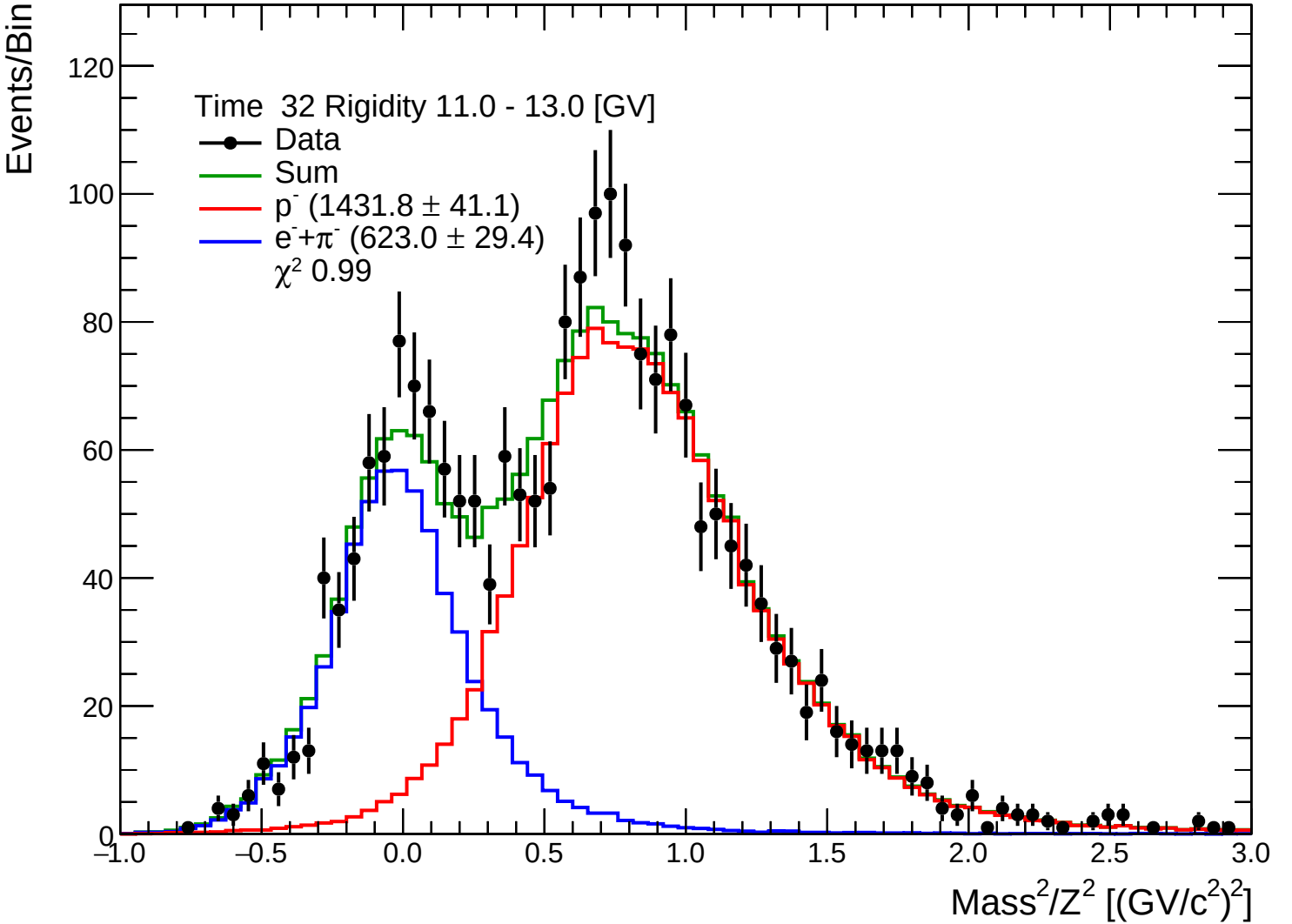

Events/Bin
400
350
300
250
200
150
100
50
0
1678
1680
1682
1684
1686
1688
Number [Temp 0]

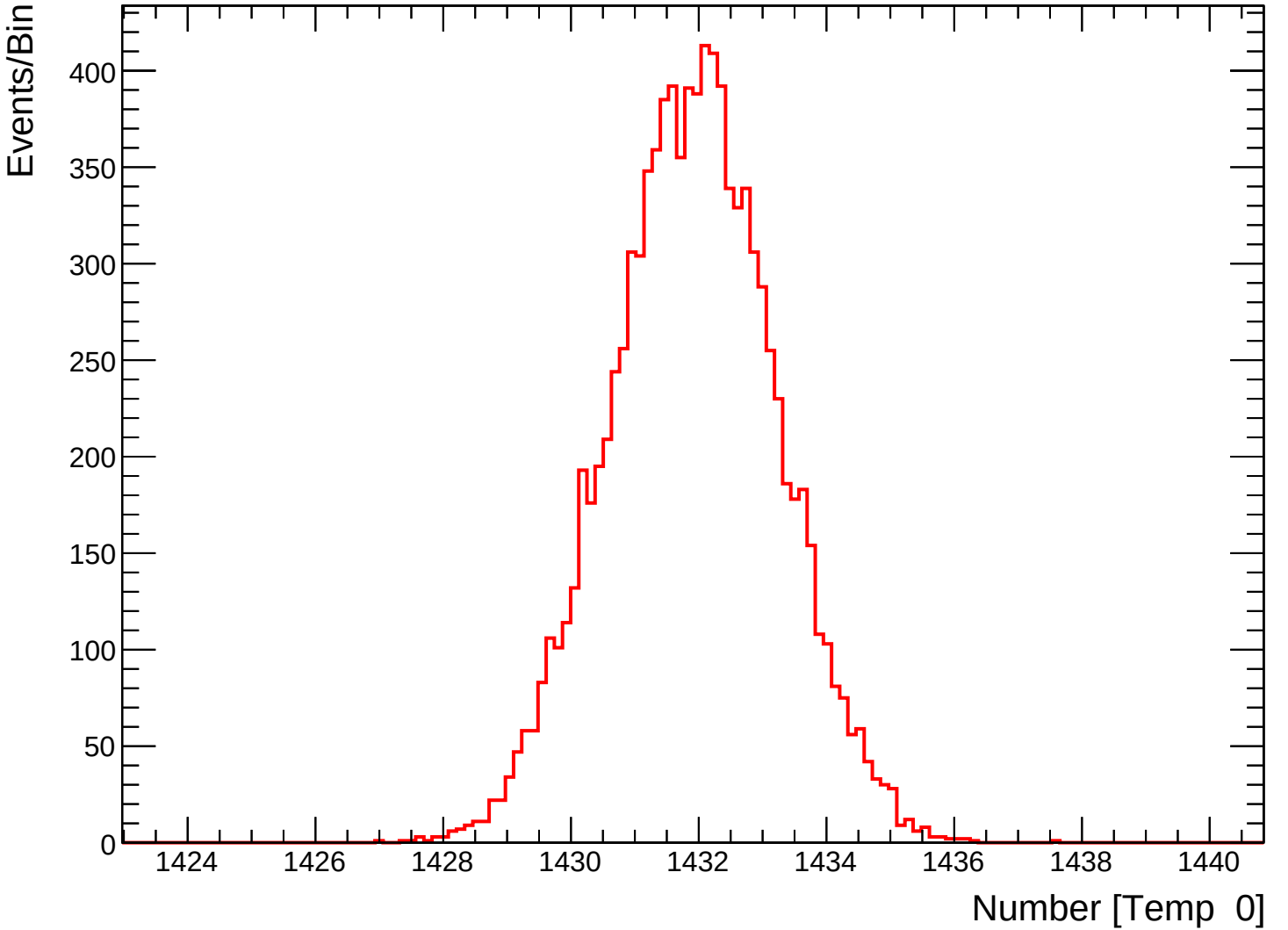

Time 32 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1662.7 ± 41.8)
e⁻+π⁻ (510.5 ± 24.1)
χ² 0.77
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
200
220
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

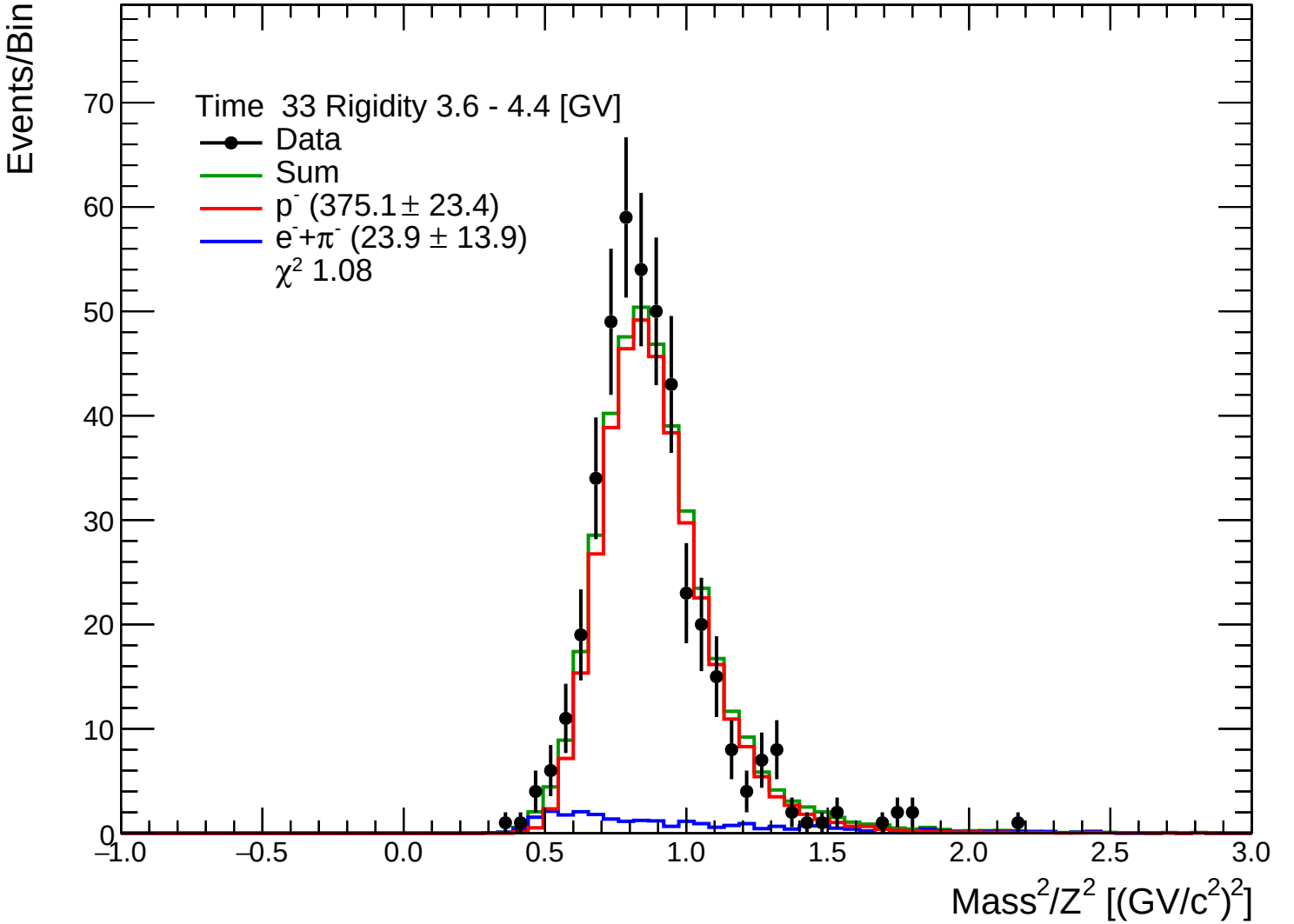

Events/Bin
400
350
300
250
200
150
100
50
0
1658
1660
1662
1664
1666
1668
Number [Temp 0]

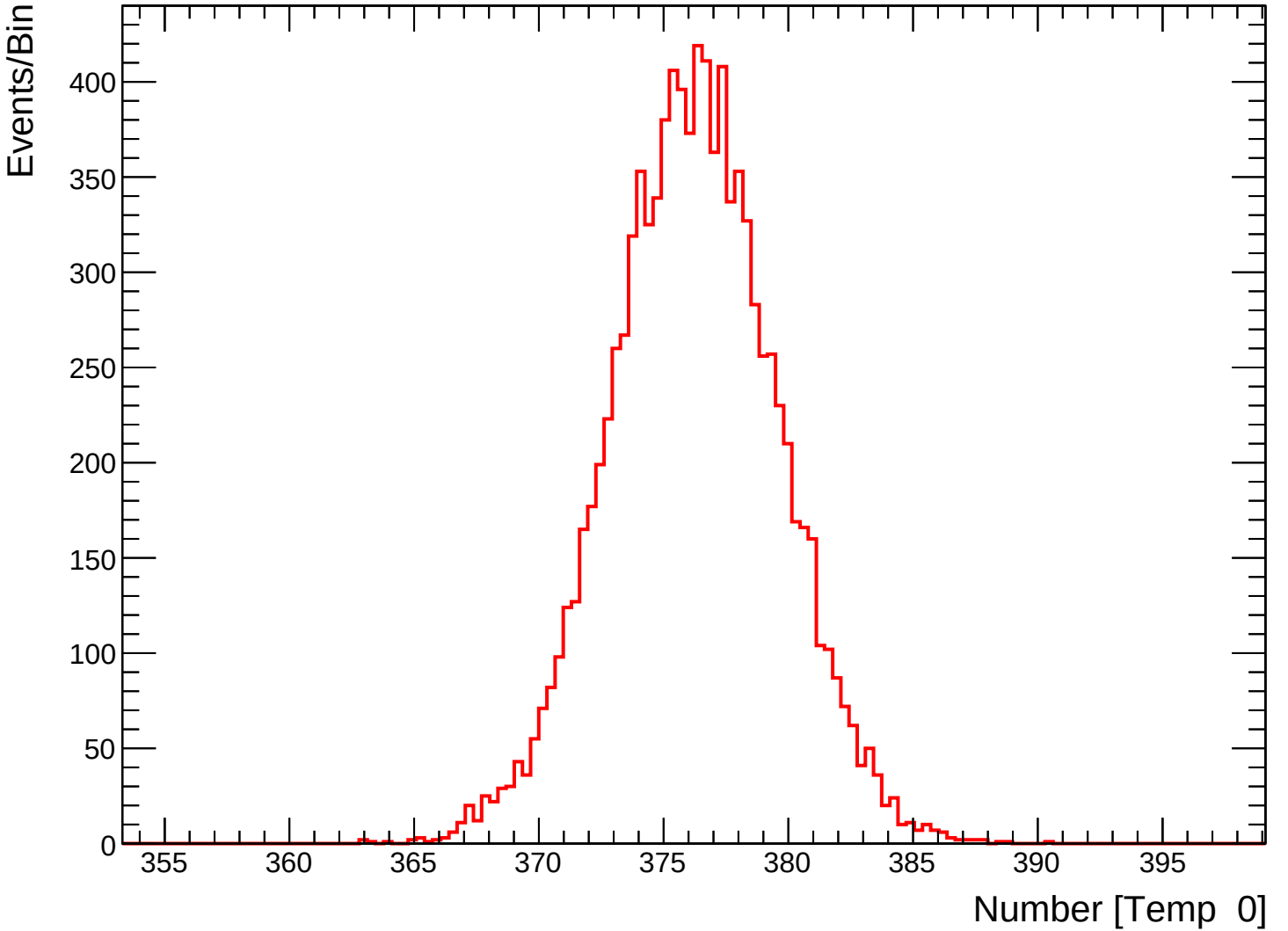

Time 32 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1509.2 ± 40.7)
e⁻+π⁻ (811.1 ± 30.8)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

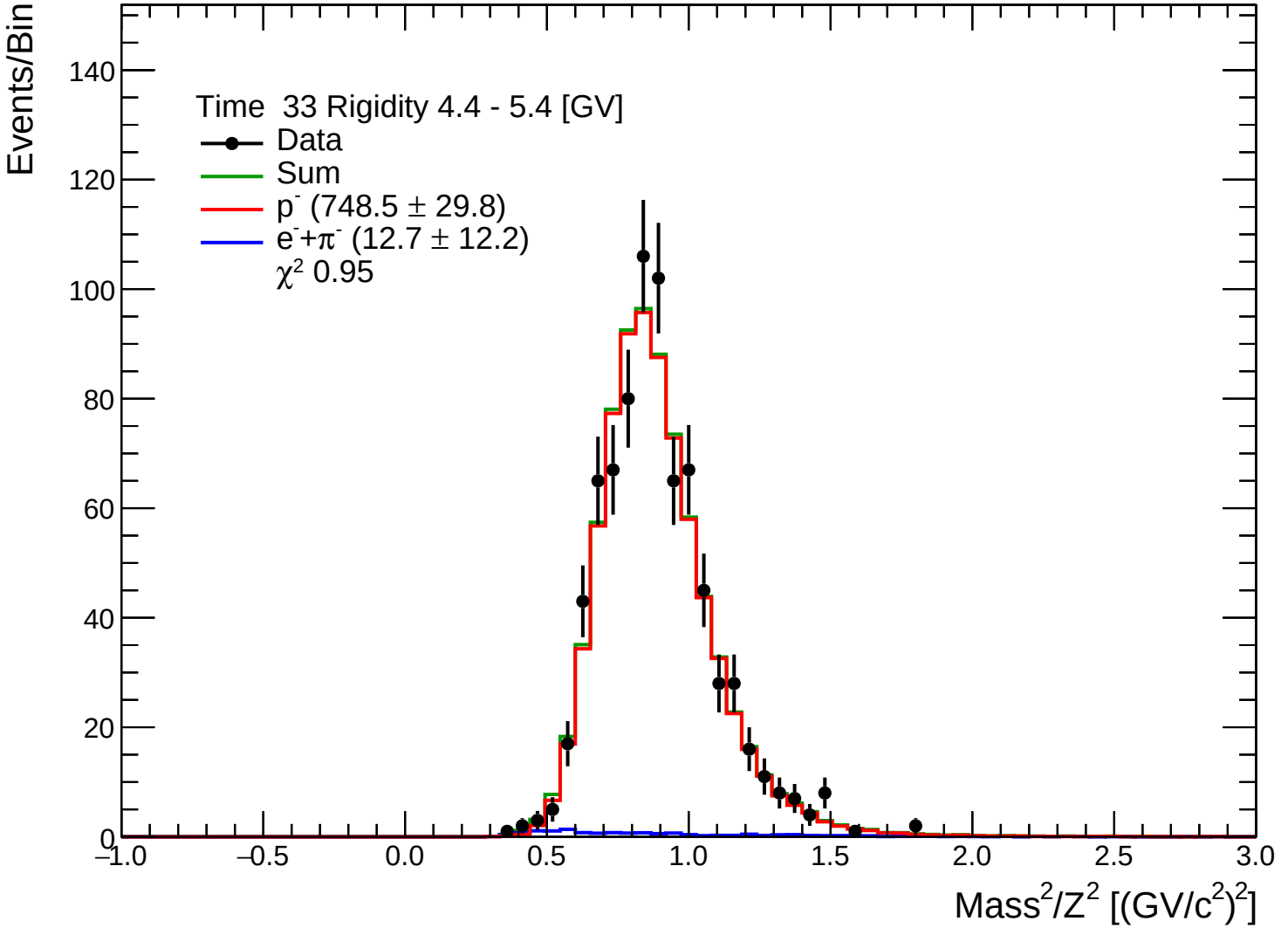

Events/Bin
400
350
300
250
200
150
100
50
0
1502
1504
1506
1508
1510
1512
1514
1516
Number [Temp 0]

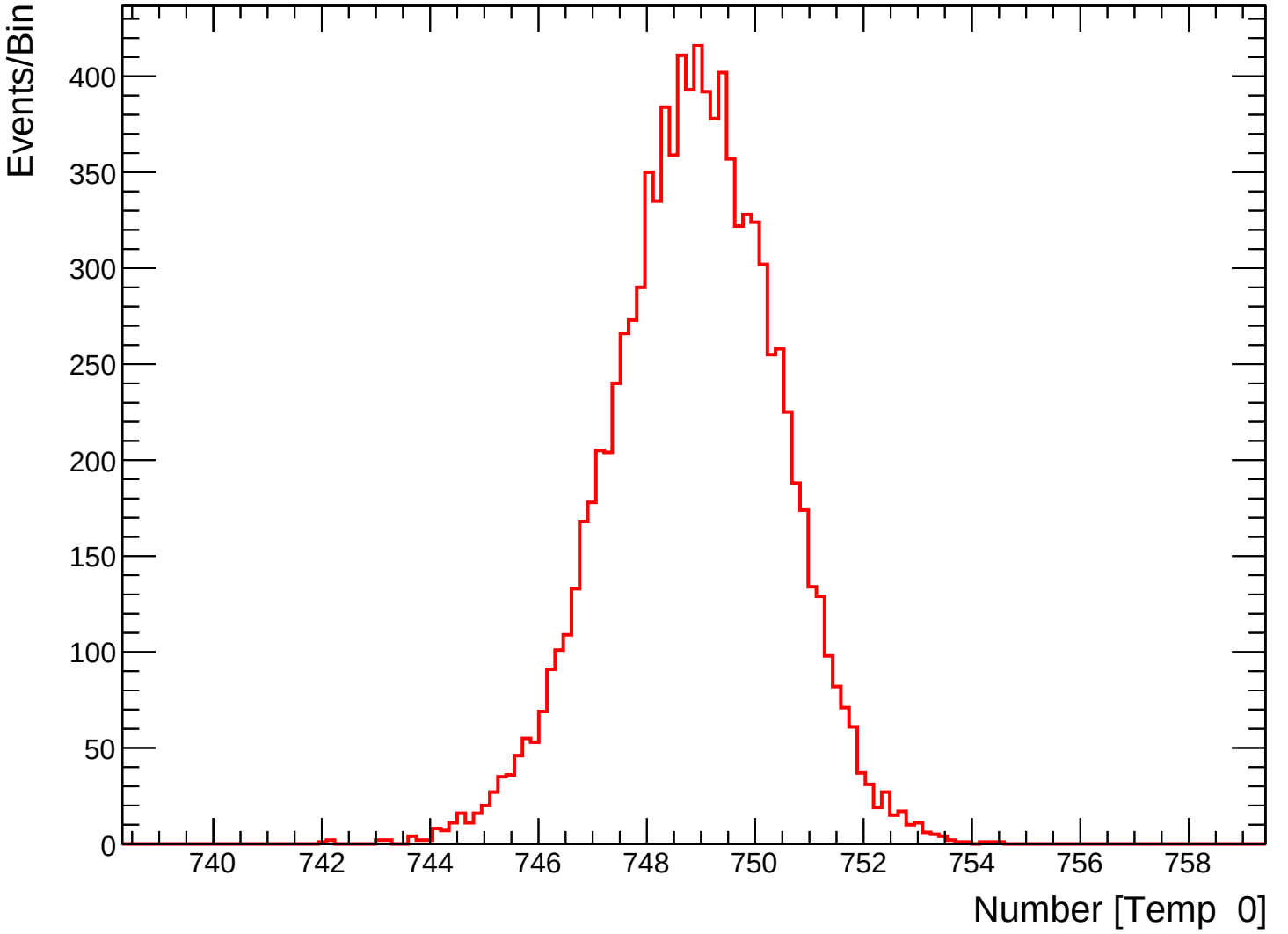

Time 32 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (1431.8 ± 41.1)
e⁻+π⁻ (623.0 ± 29.4)
χ² 0.99
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

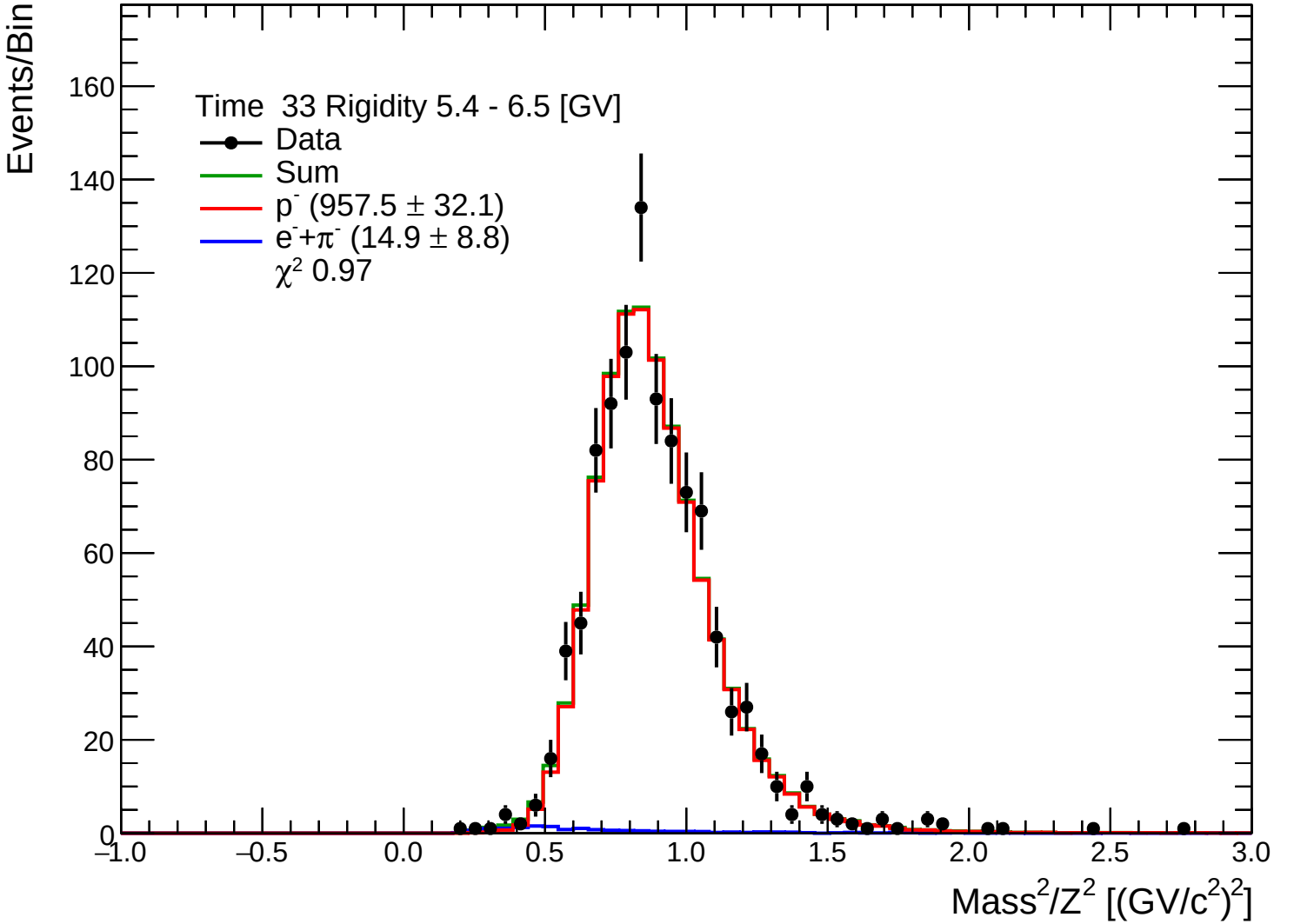

Events/Bin
400
350
300
250
200
150
100
50
0
1424
1426
1428
1430
1432
1434
1436
1438
1440
Number [Temp 0]

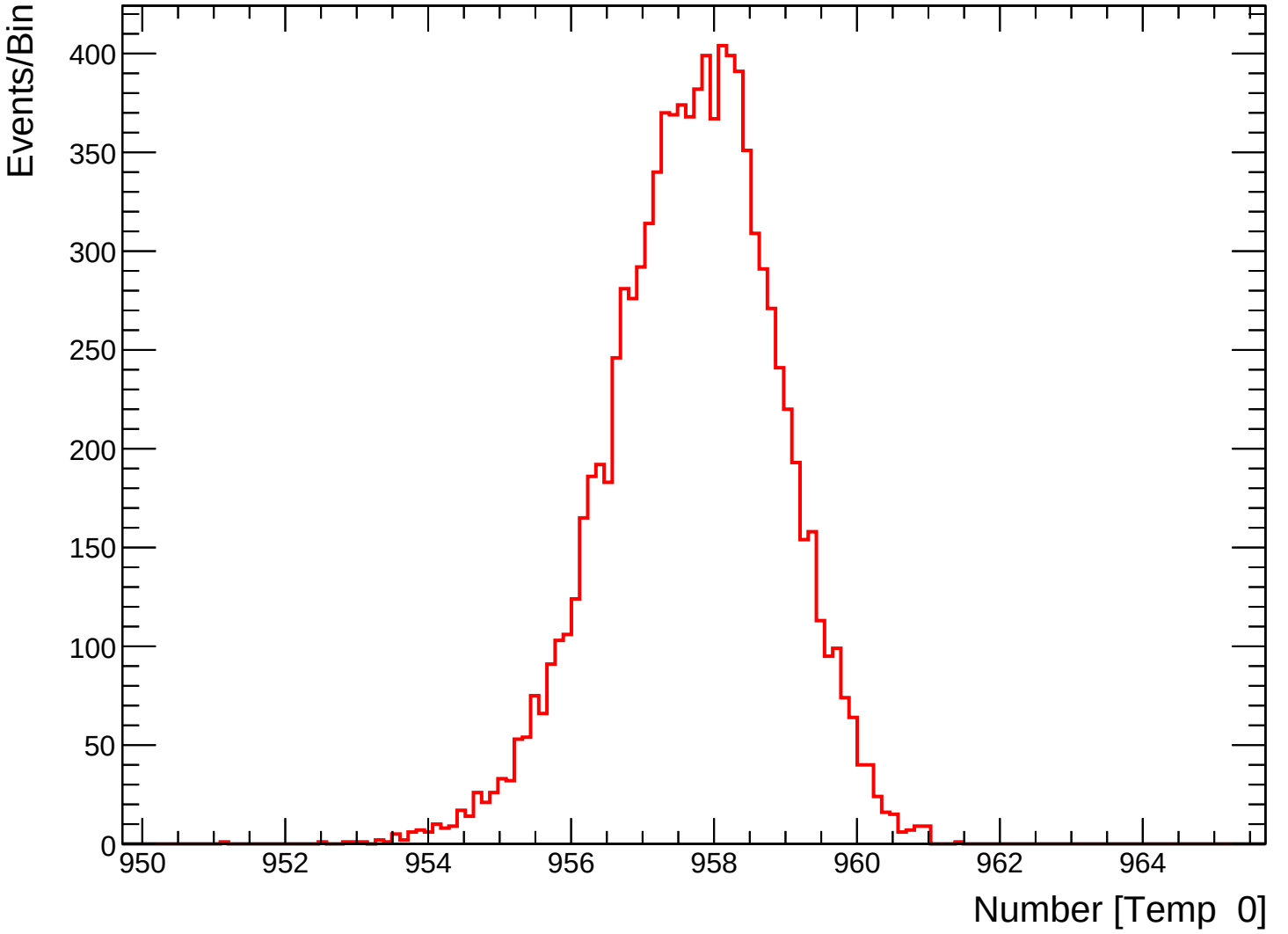

Time 33 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (375.1 ± 23.4)
e⁻+π⁻ (23.9 ± 13.9)
χ² 1.08
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

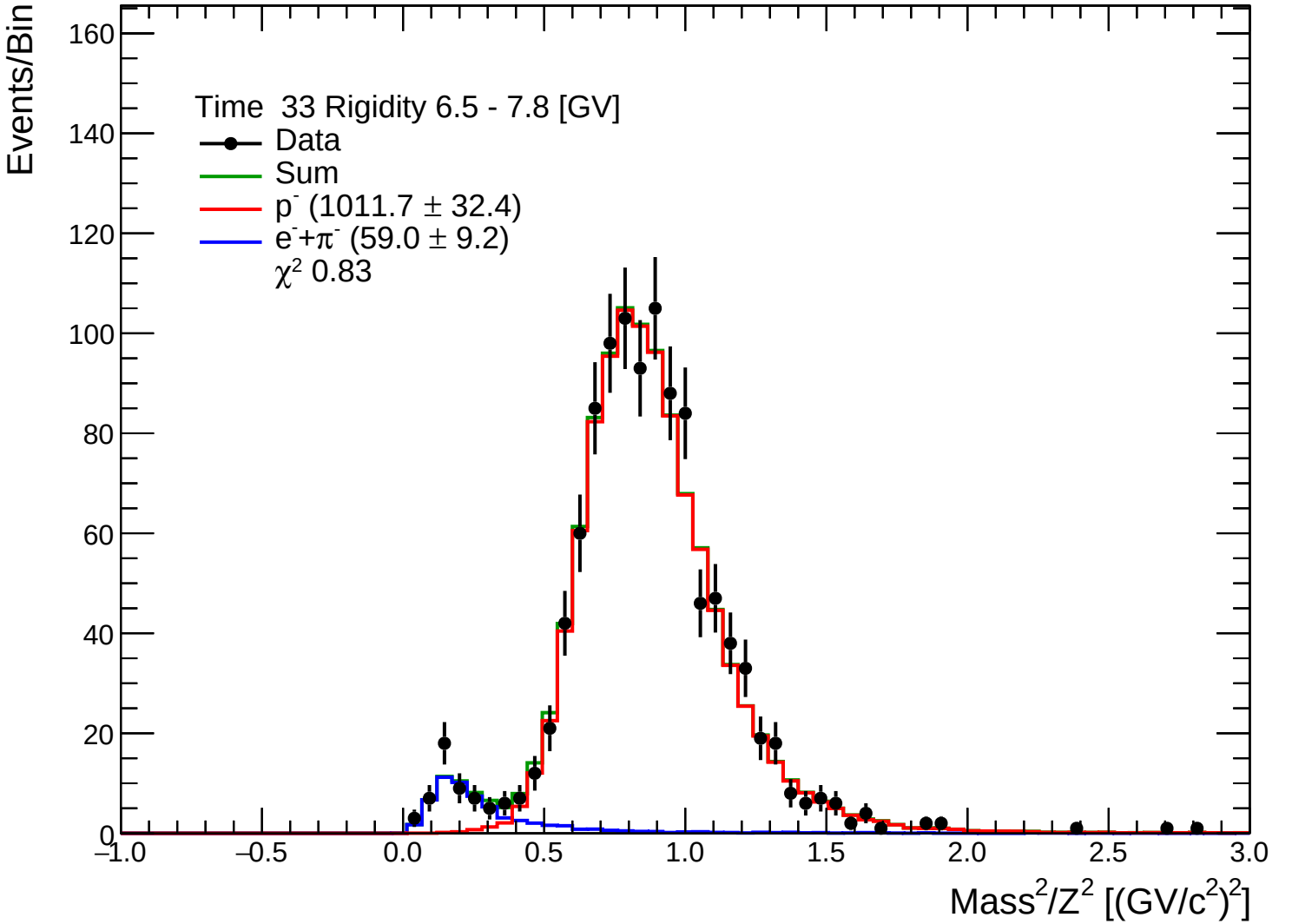

Events/Bin
400
350
300
250
200
150
100
50
0
355
360
365
370
375
380
385
390
395
Number [Temp 0]

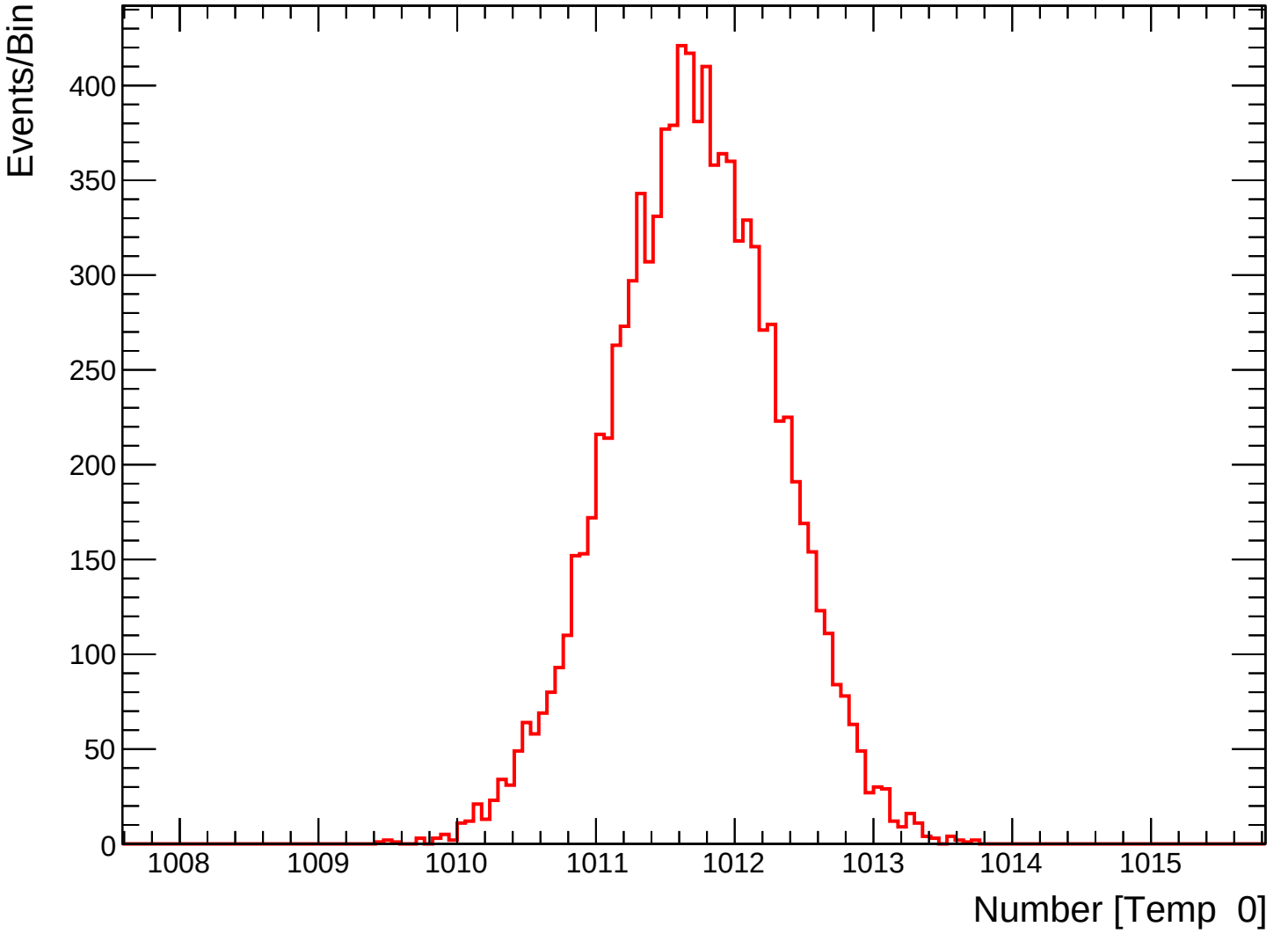

Time 33 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (748.5 ± 29.8)
e⁻+π⁻ (12.7 ± 12.2)
χ² 0.95
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

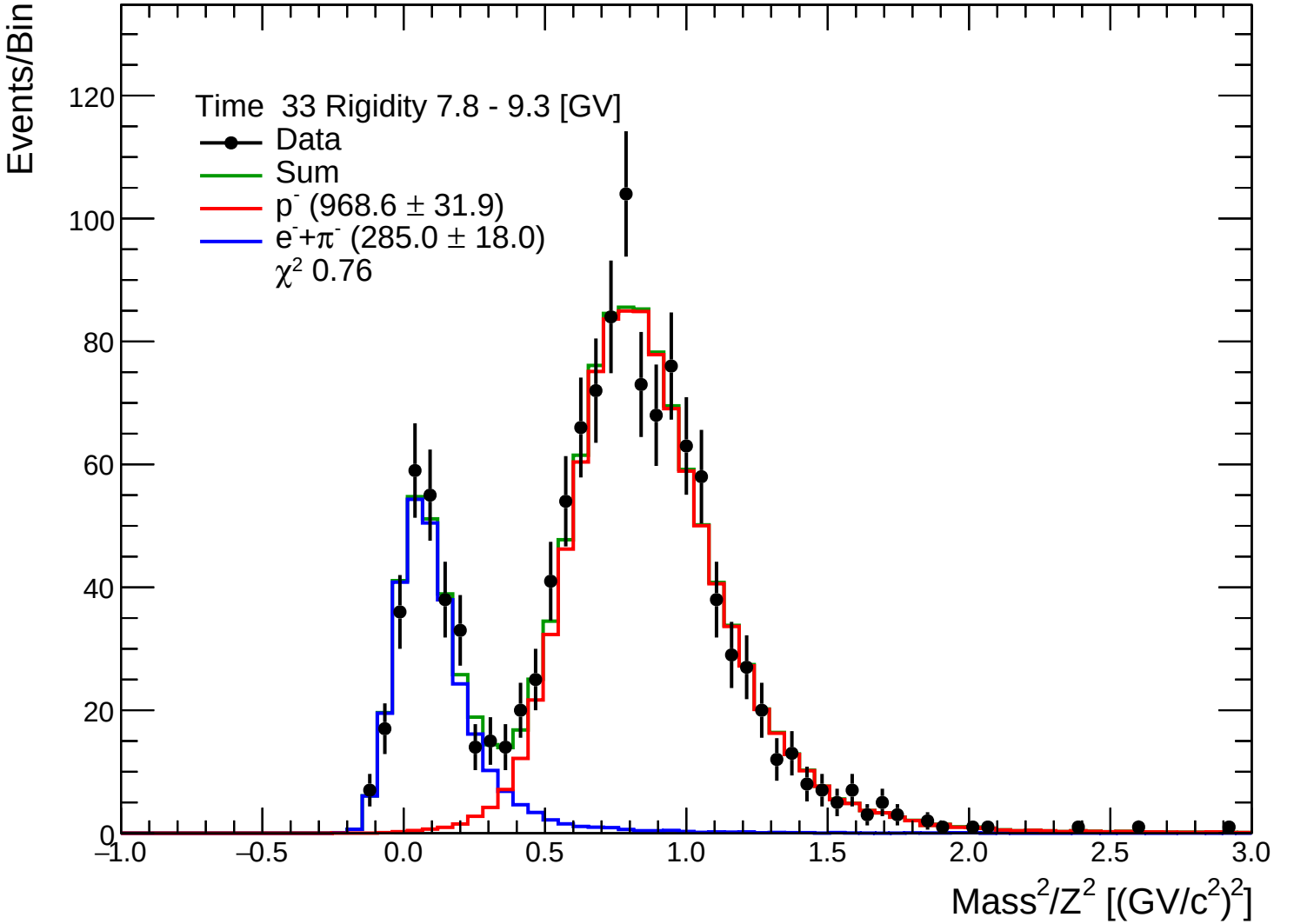

Events/Bin
400
350
300
250
200
150
100
50
0
740
742
744
746
748
750
752
754
756
758
Number [Temp 0]

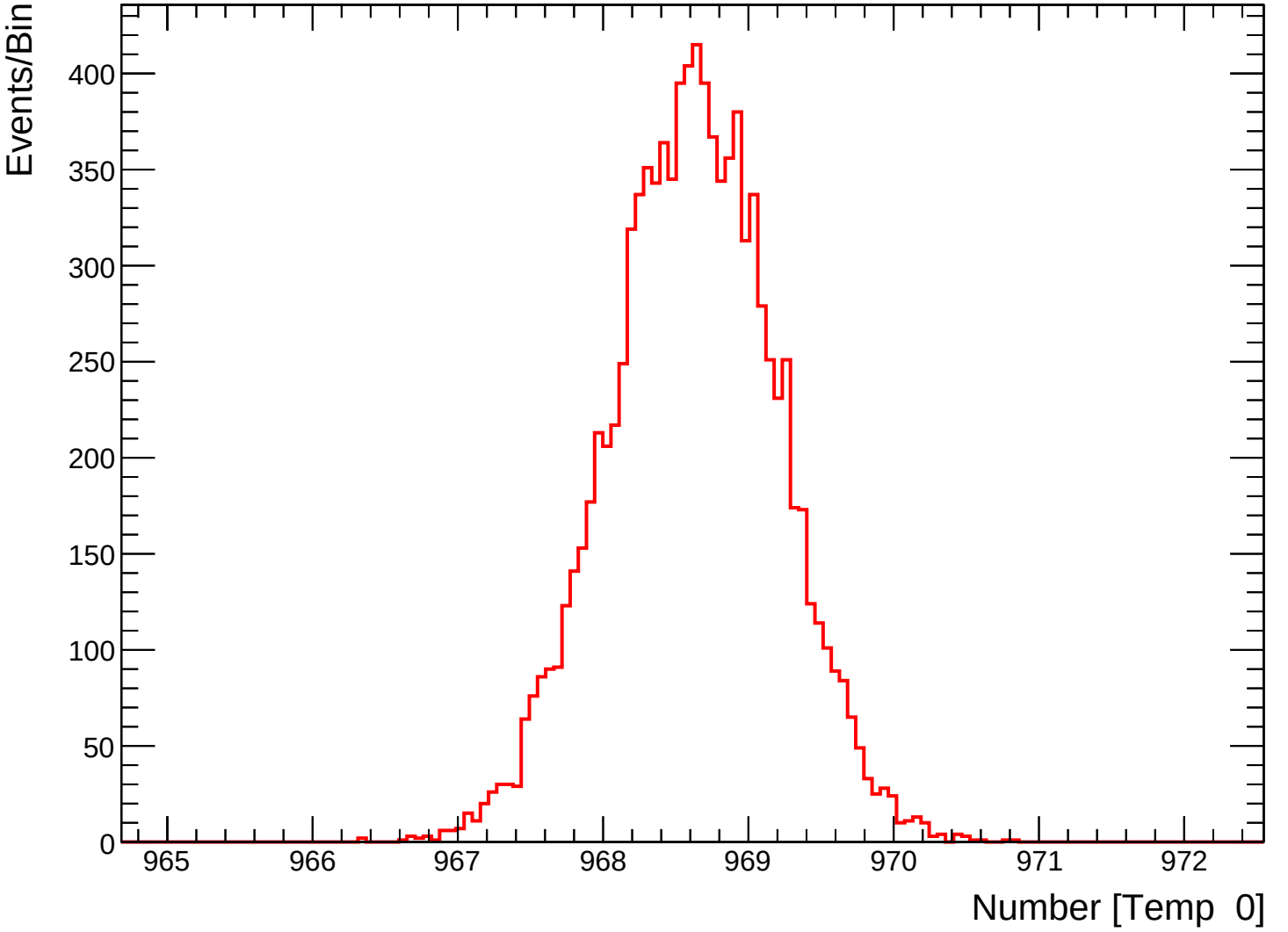

Time 33 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (957.5 ± 32.1)
e⁻+π⁻ (14.9 ± 8.8)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

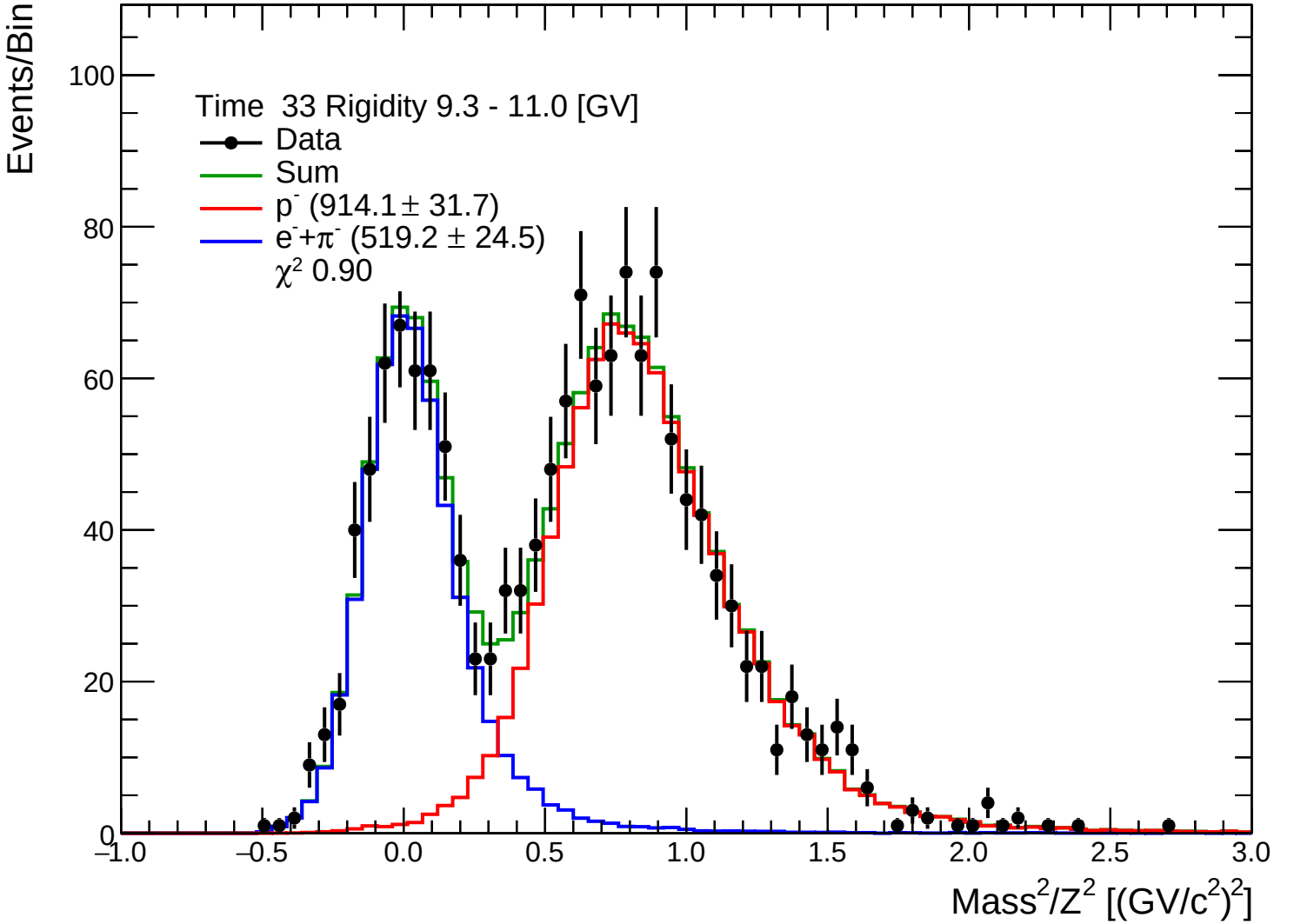

Events/Bin
400
350
300
250
200
150
100
50
0
950
952
954
956
958
960
962
964
Number [Temp 0]

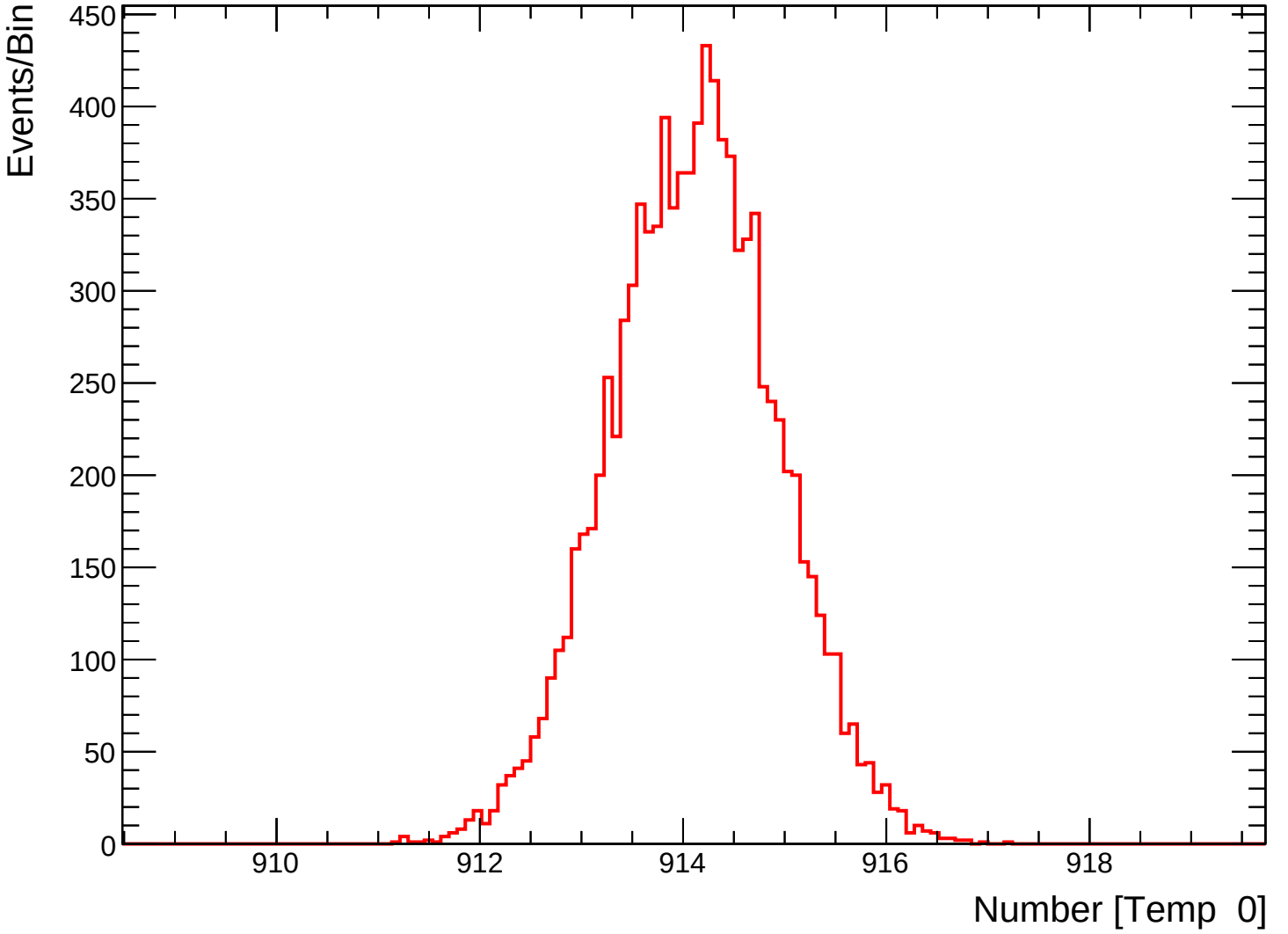

Time 33 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1011.7 ± 32.4)
e⁻+π⁻ (59.0 ± 9.2)
χ² 0.83
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

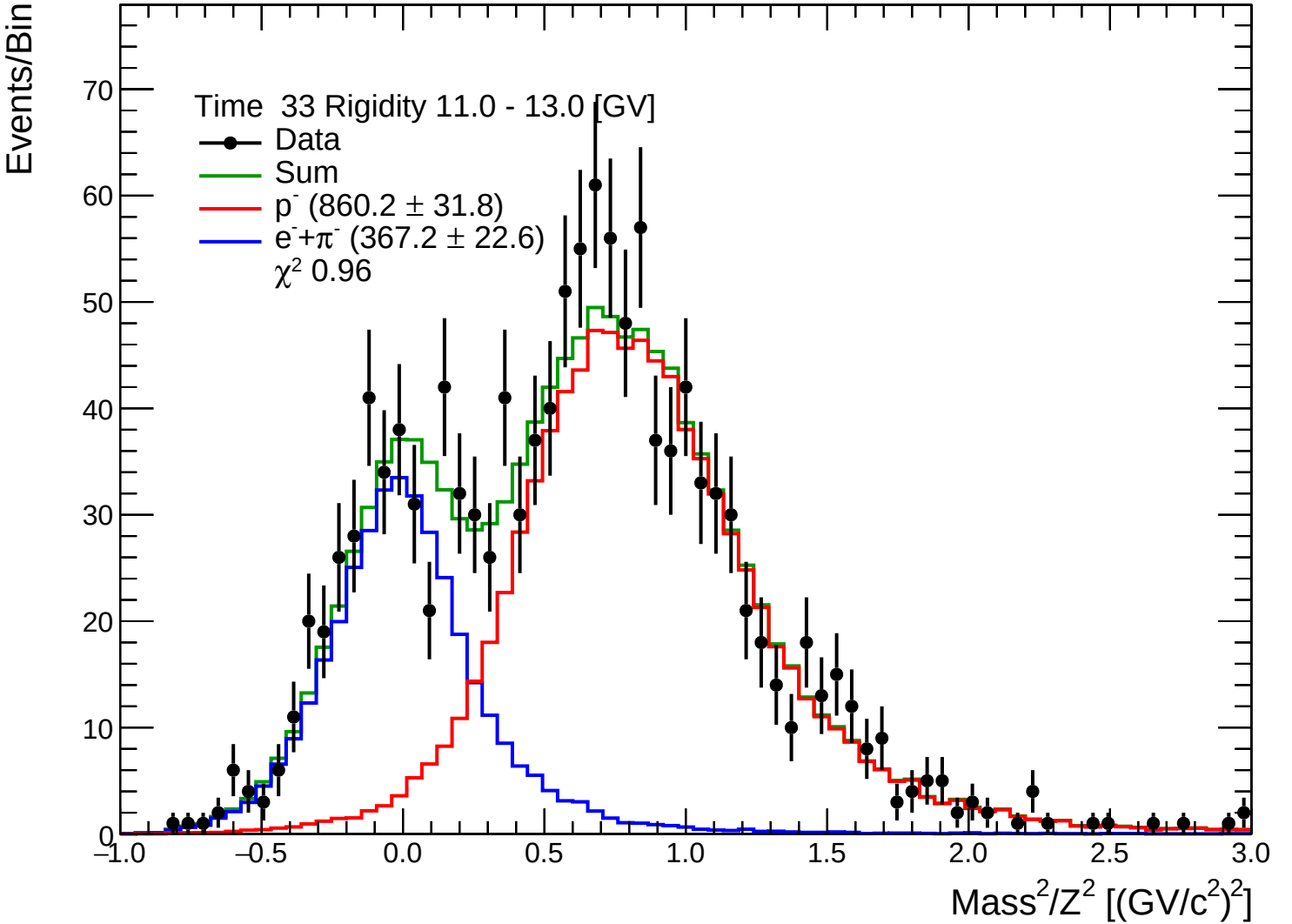

Events/Bin
400
350
300
250
200
150
100
50
0
1008
1009
1010
1011
1012
1013
1014
1015
Number [Temp 0]

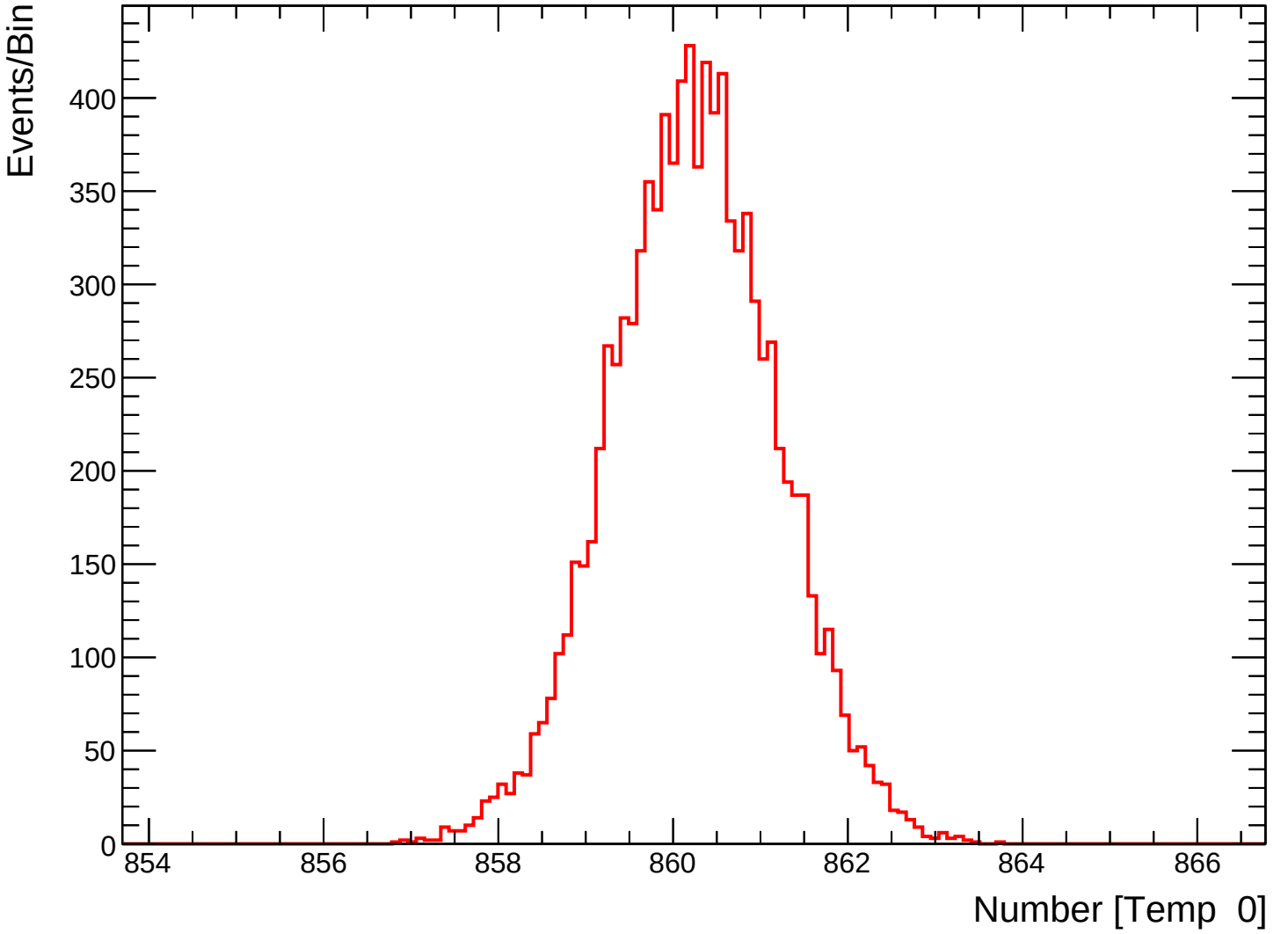

Time 33 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (968.6 ± 31.9)
e⁻+π⁻ (285.0 ± 18.0)
χ² 0.76
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

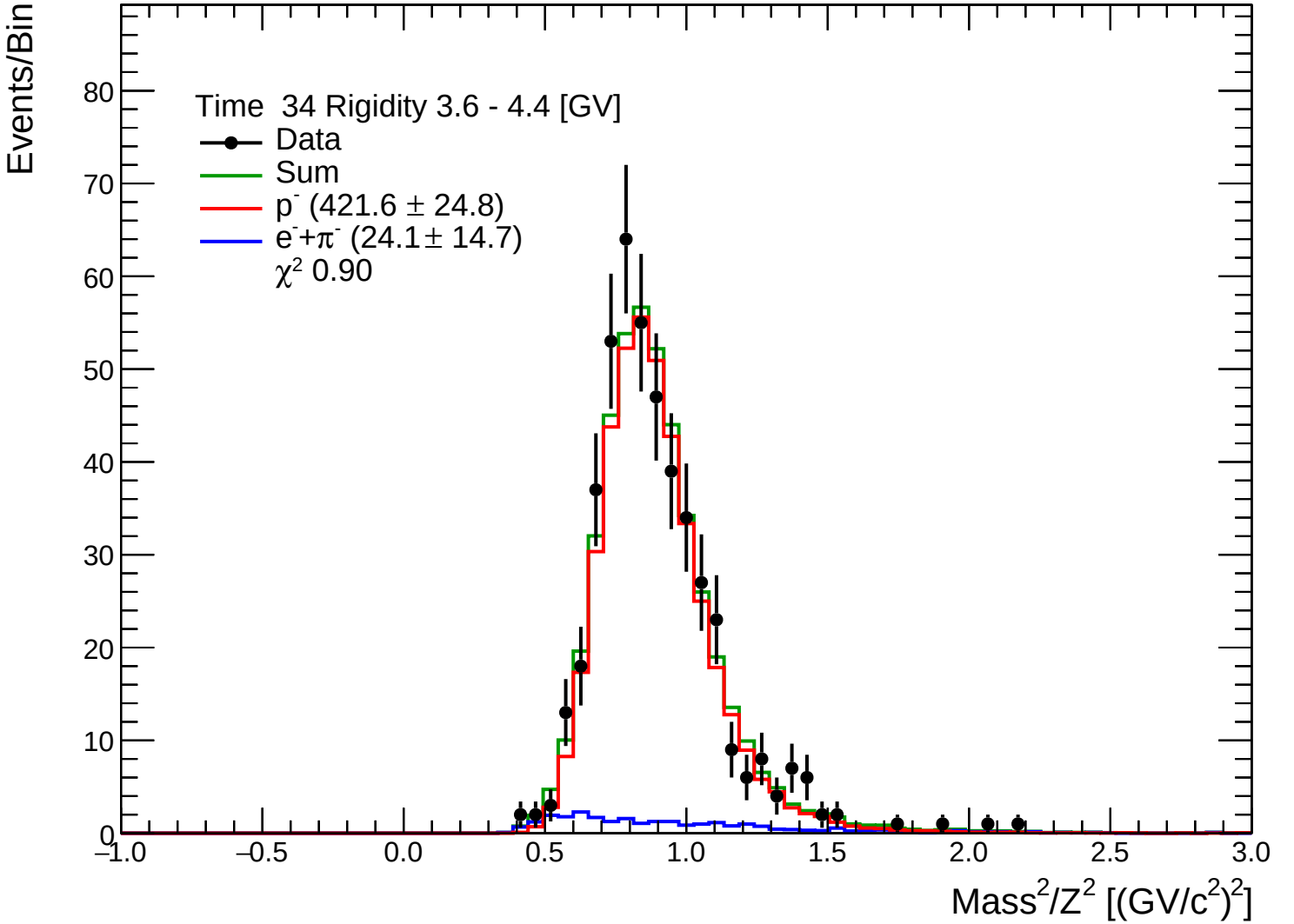

Events/Bin
400
350
300
250
200
150
100
50
0
965
966
967
968
969
970
971
972
Number [Temp 0]

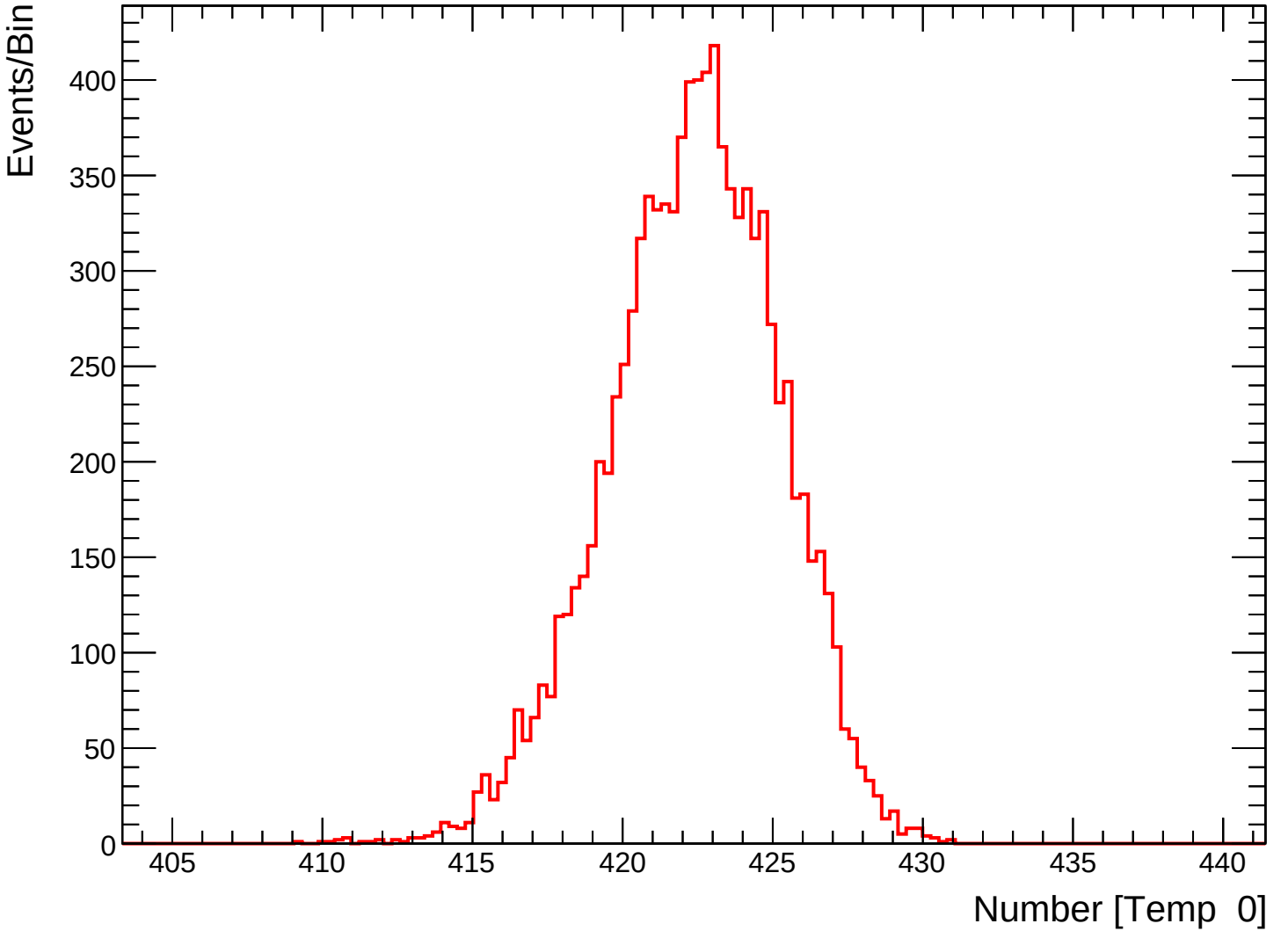

Events/Bin
Time 33 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (914.1 ± 31.7)
e⁻+π⁻ (519.2 ± 24.5)
χ² 0.90
Mass²/Z² [(GV/c²)²]

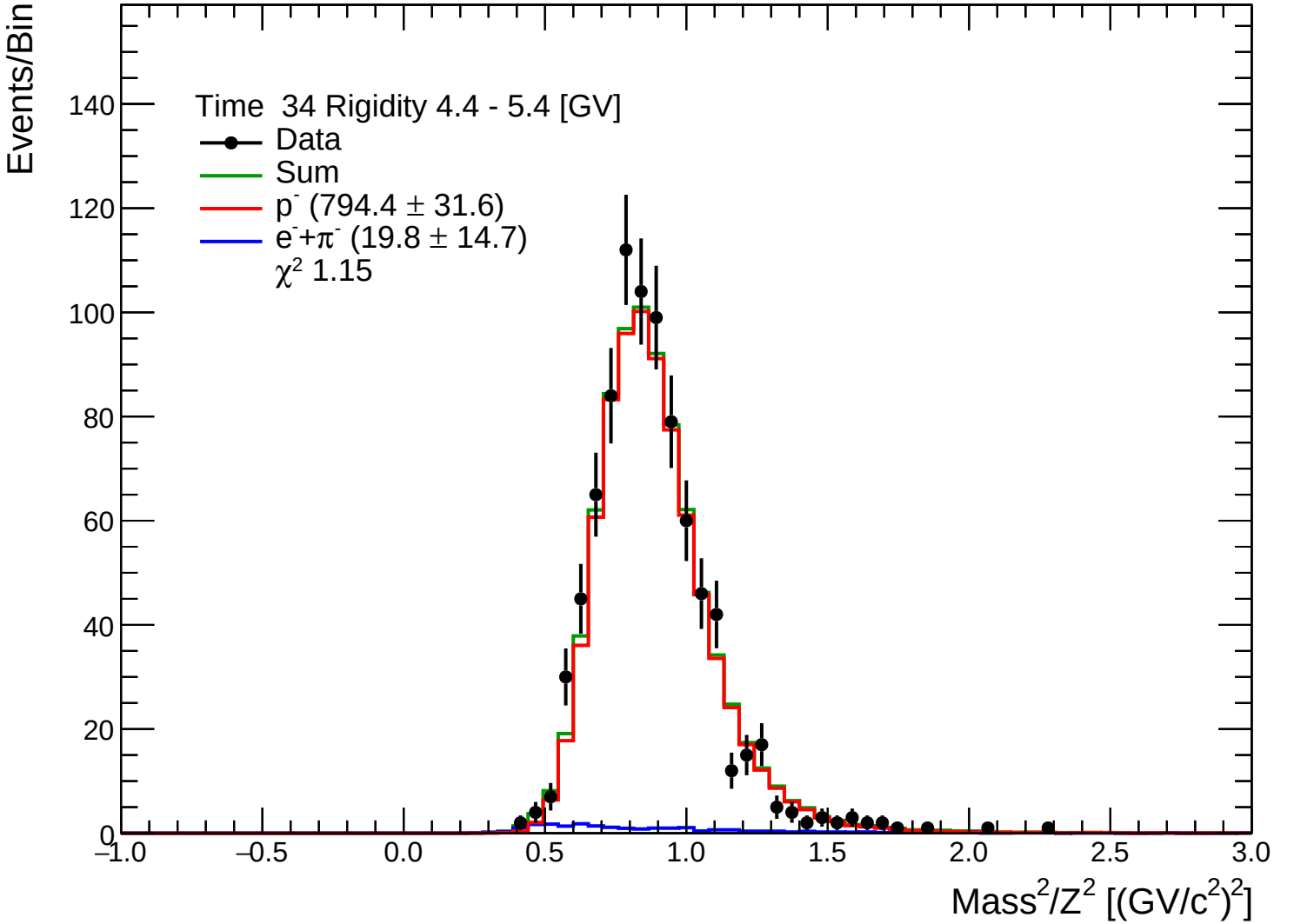

Events/Bin
450
400
350
300
250
200
150
100
50
0
910
912
914
916
918
Number [Temp 0]

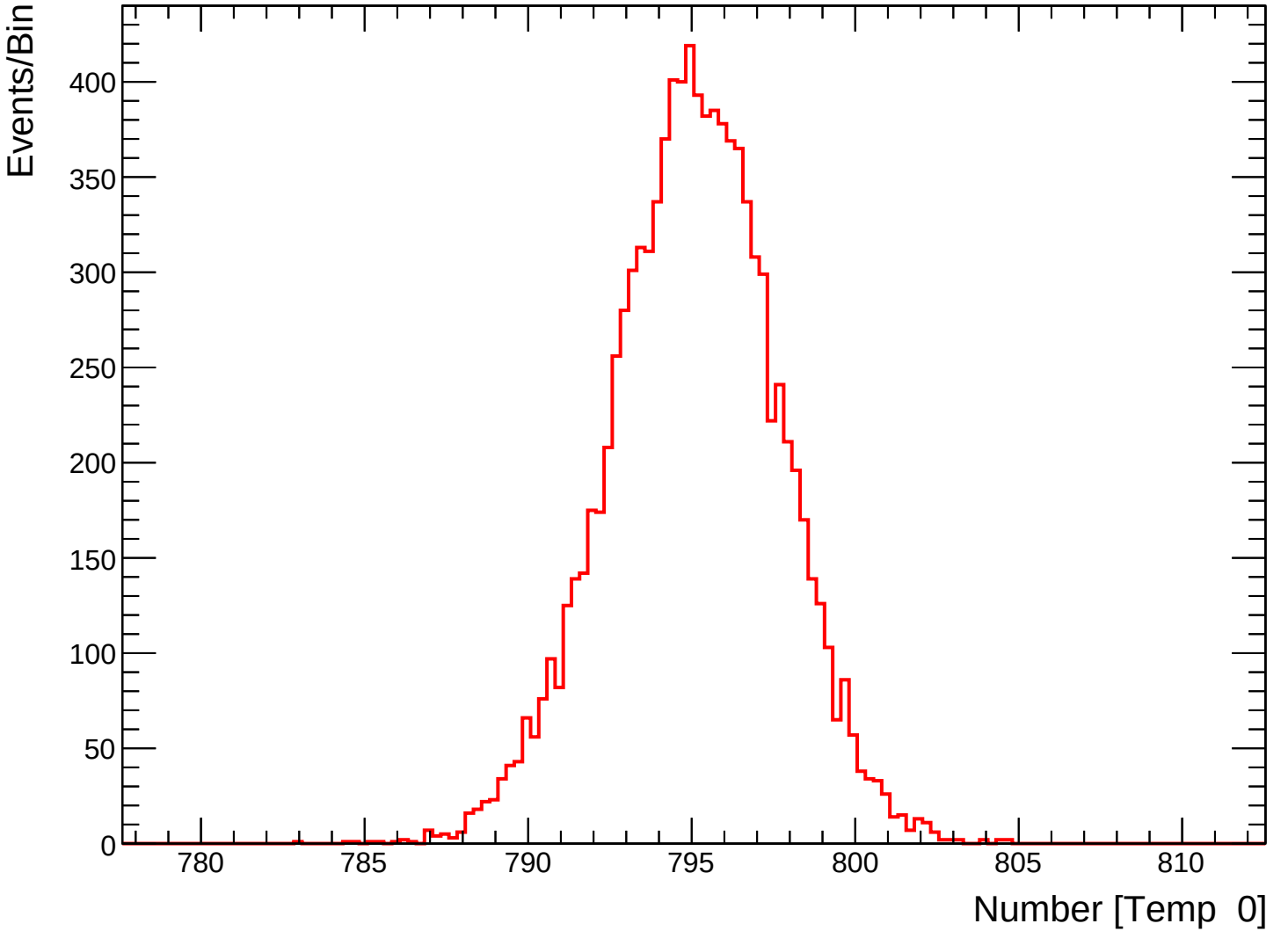

Time 33 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (860.2 ± 31.8)
e⁻+π⁻ (367.2 ± 22.6)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

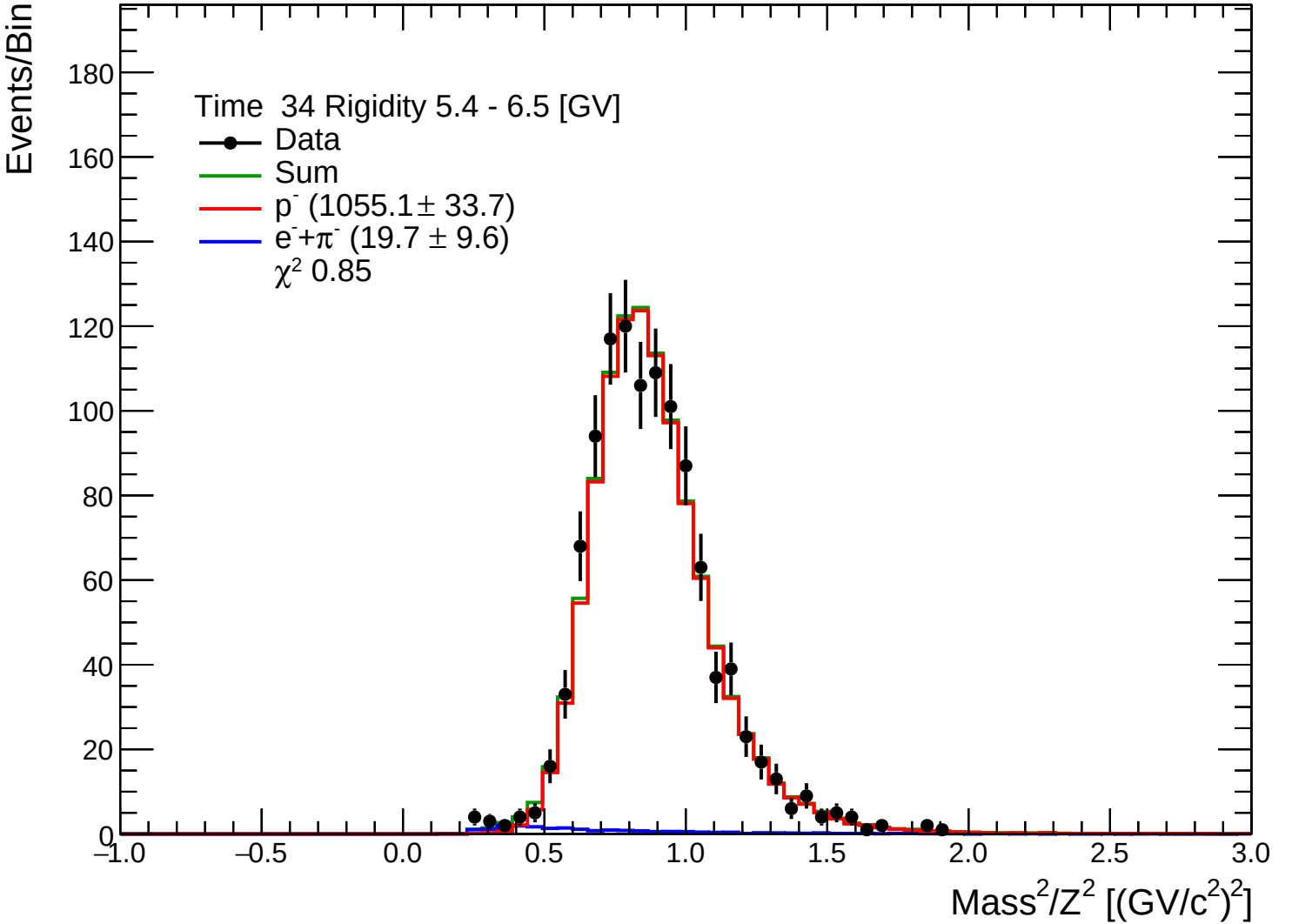

Events/Bin
400
350
300
250
200
150
100
50
0
854
856
858
860
862
864
866
Number [Temp 0]

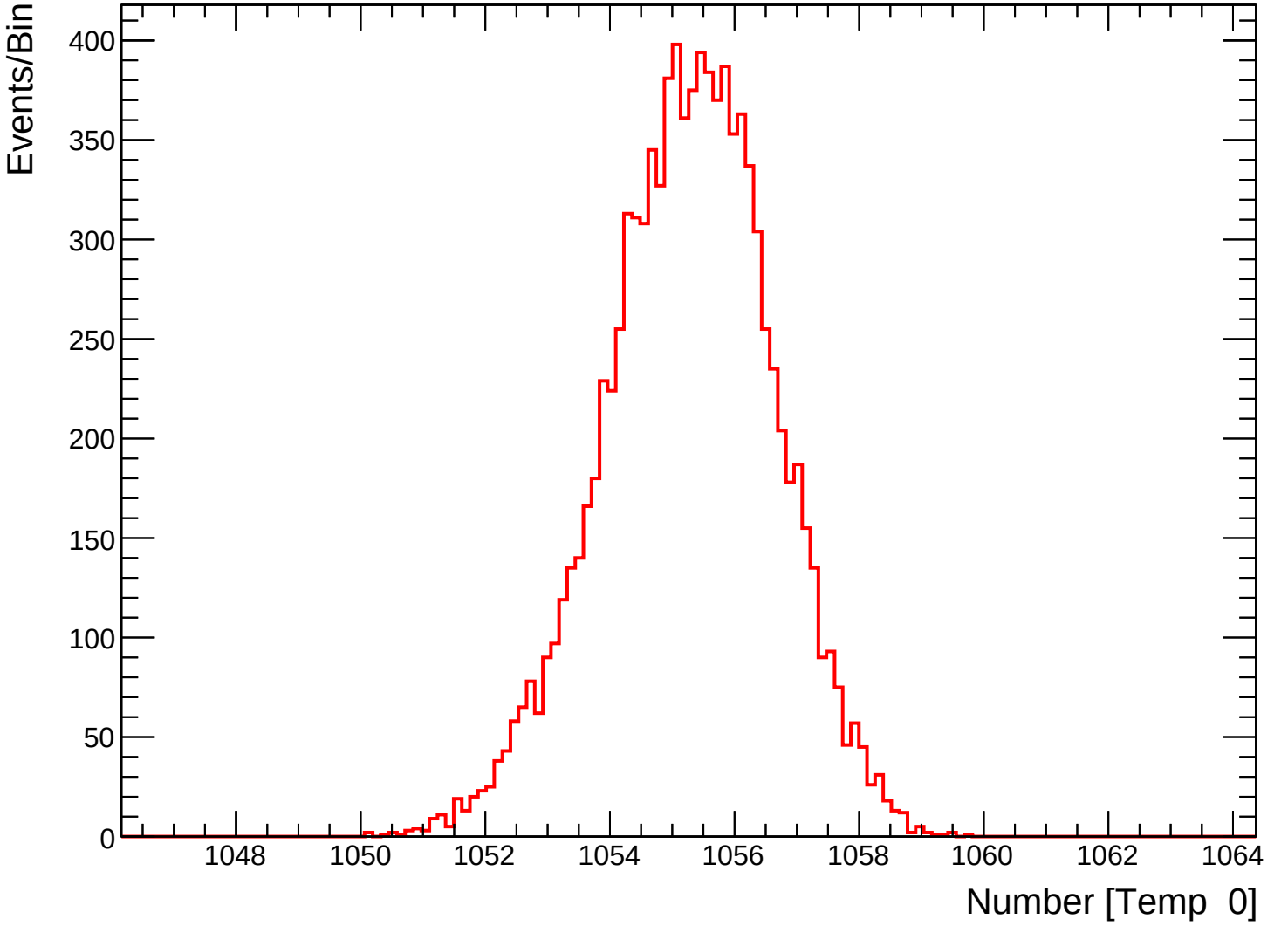

Time 34 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (421.6 ± 24.8)
e⁻+π⁻ (24.1± 14.7)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

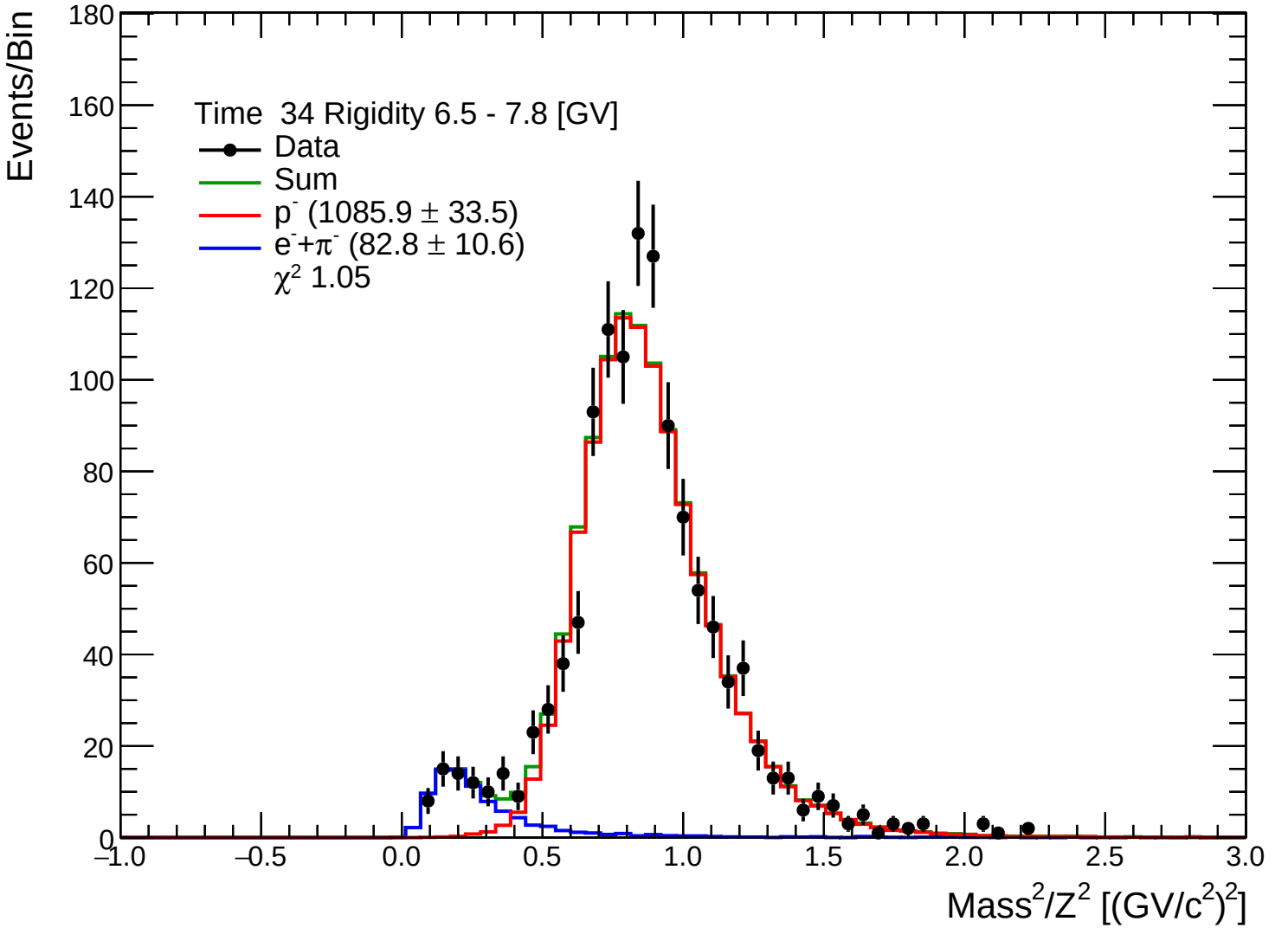

Events/Bin
400
350
300
250
200
150
100
50
0
405
410
415
420
425
430
435
440
Number [Temp 0]

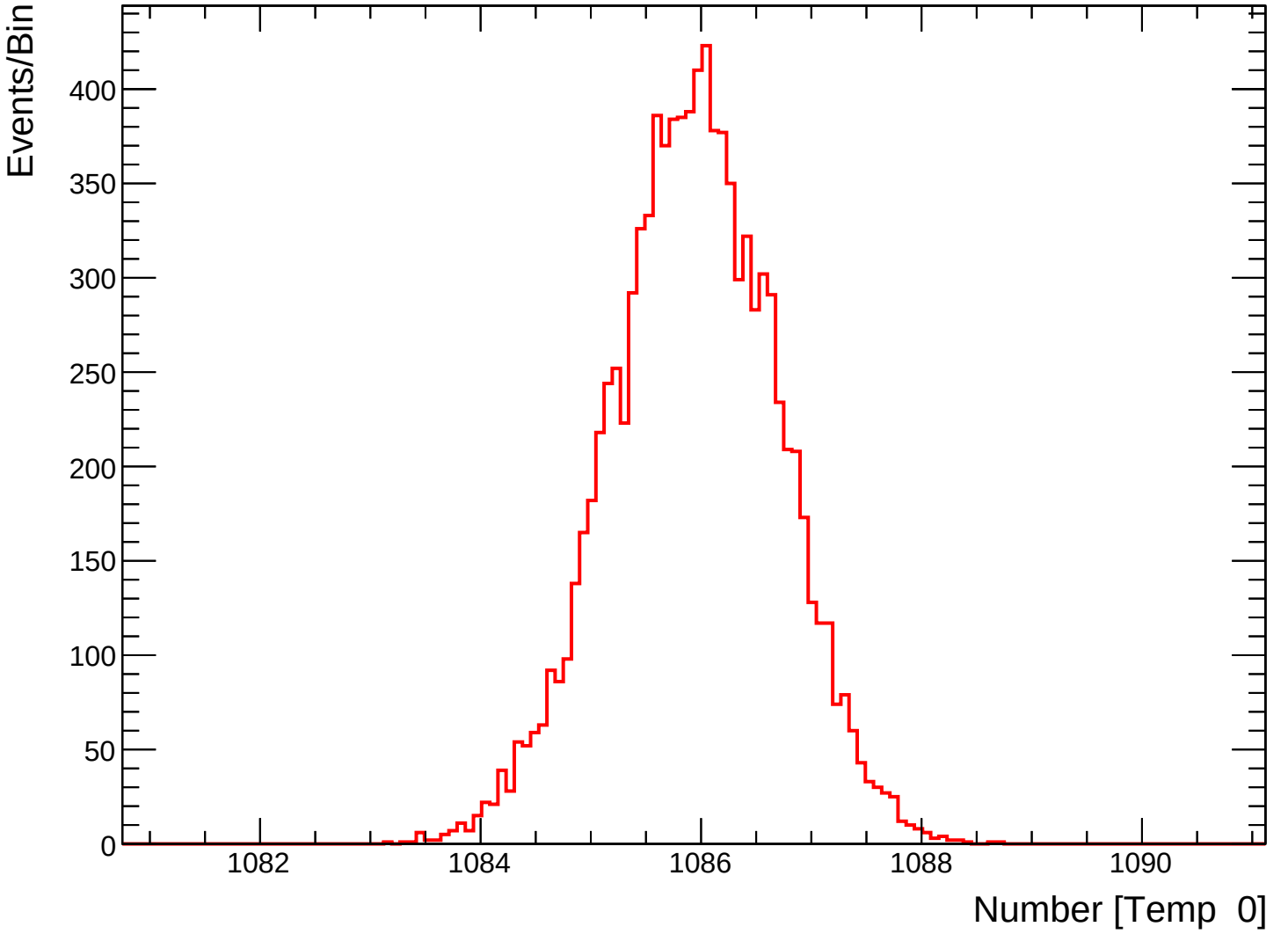

Time 34 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (794.4 ± 31.6)
e⁻+π⁻ (19.8 ± 14.7)
χ² 1.15
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

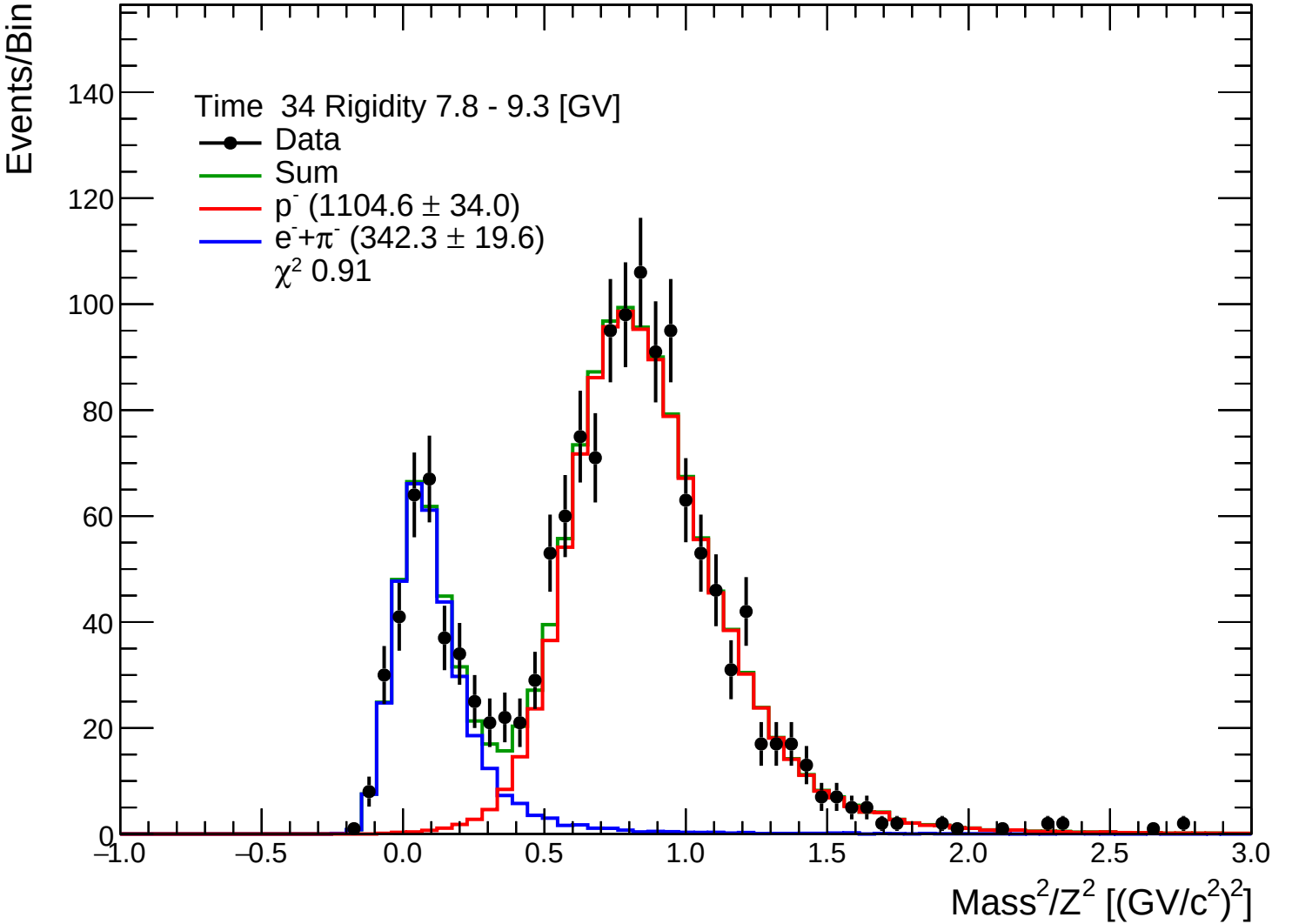

Events/Bin
400
350
300
250
200
150
100
50
0
780
785
790
795
800
805
810
Number [Temp 0]

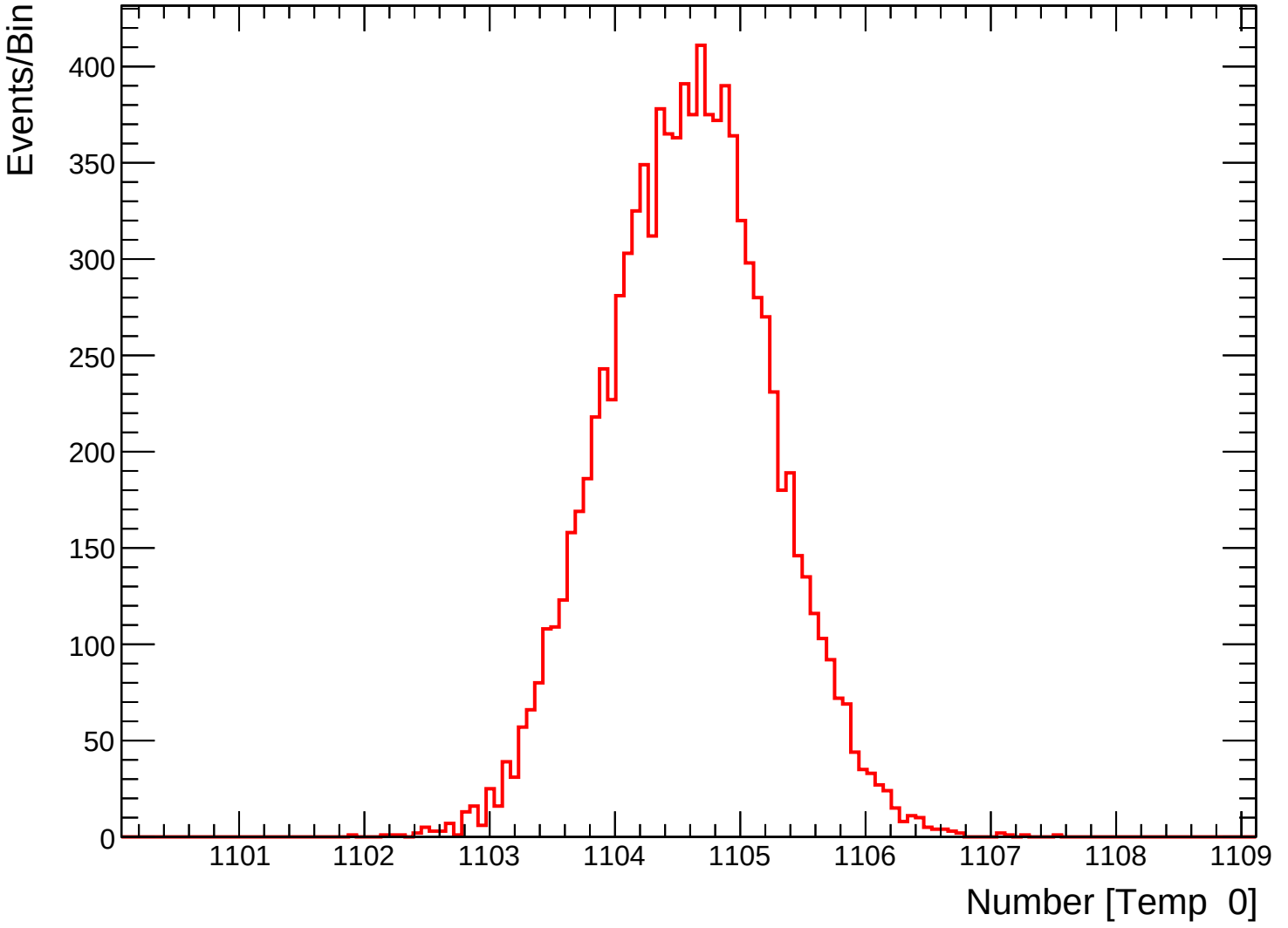

Time 34 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1055.1± 33.7)
e⁻+π⁻ (19.7 ± 9.6)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

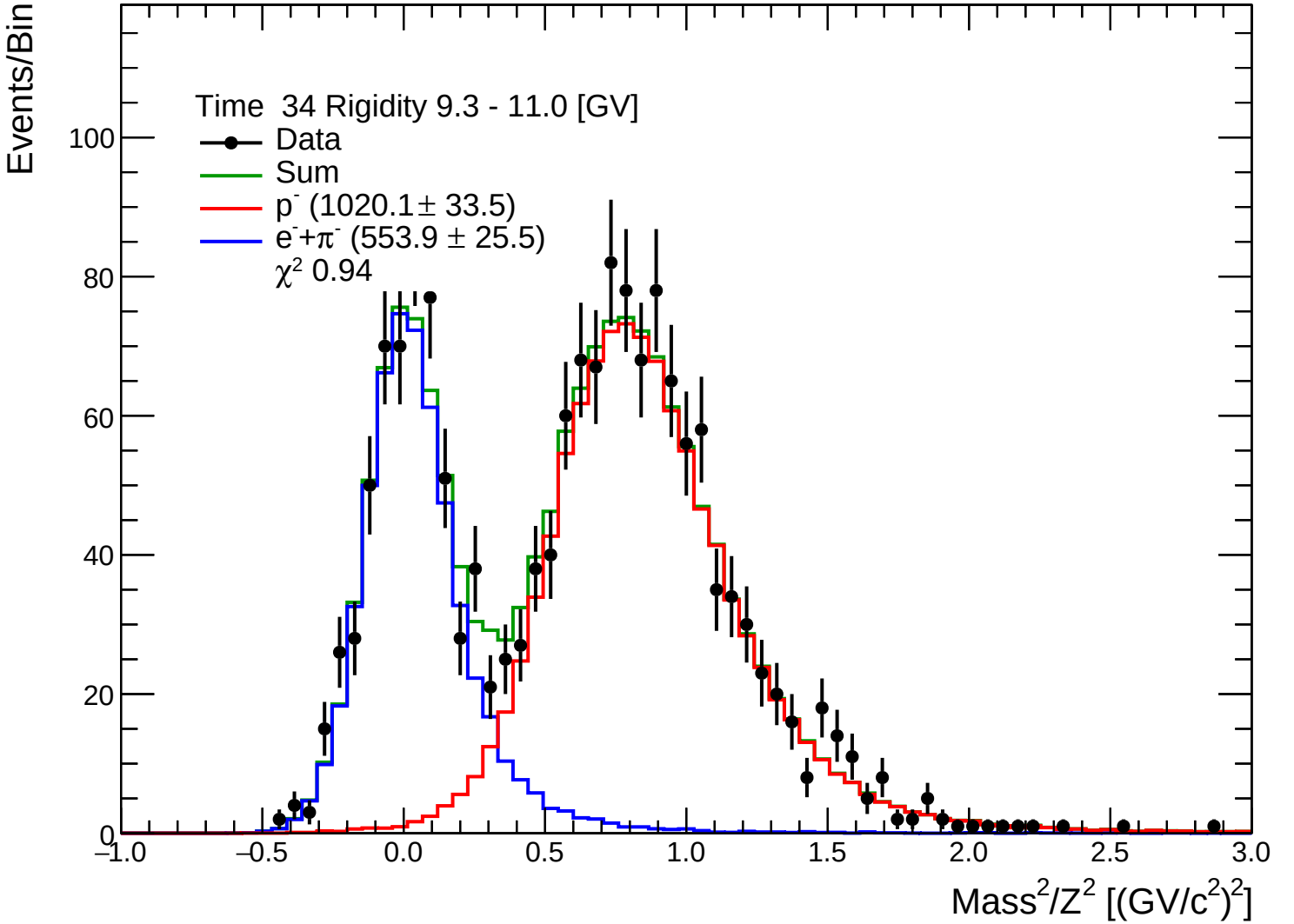

Events/Bin
400
350
300
250
200
150
100
50
0
1048
1050
1052
1054
1056
1058
1060
1062
1064
Number [Temp 0]

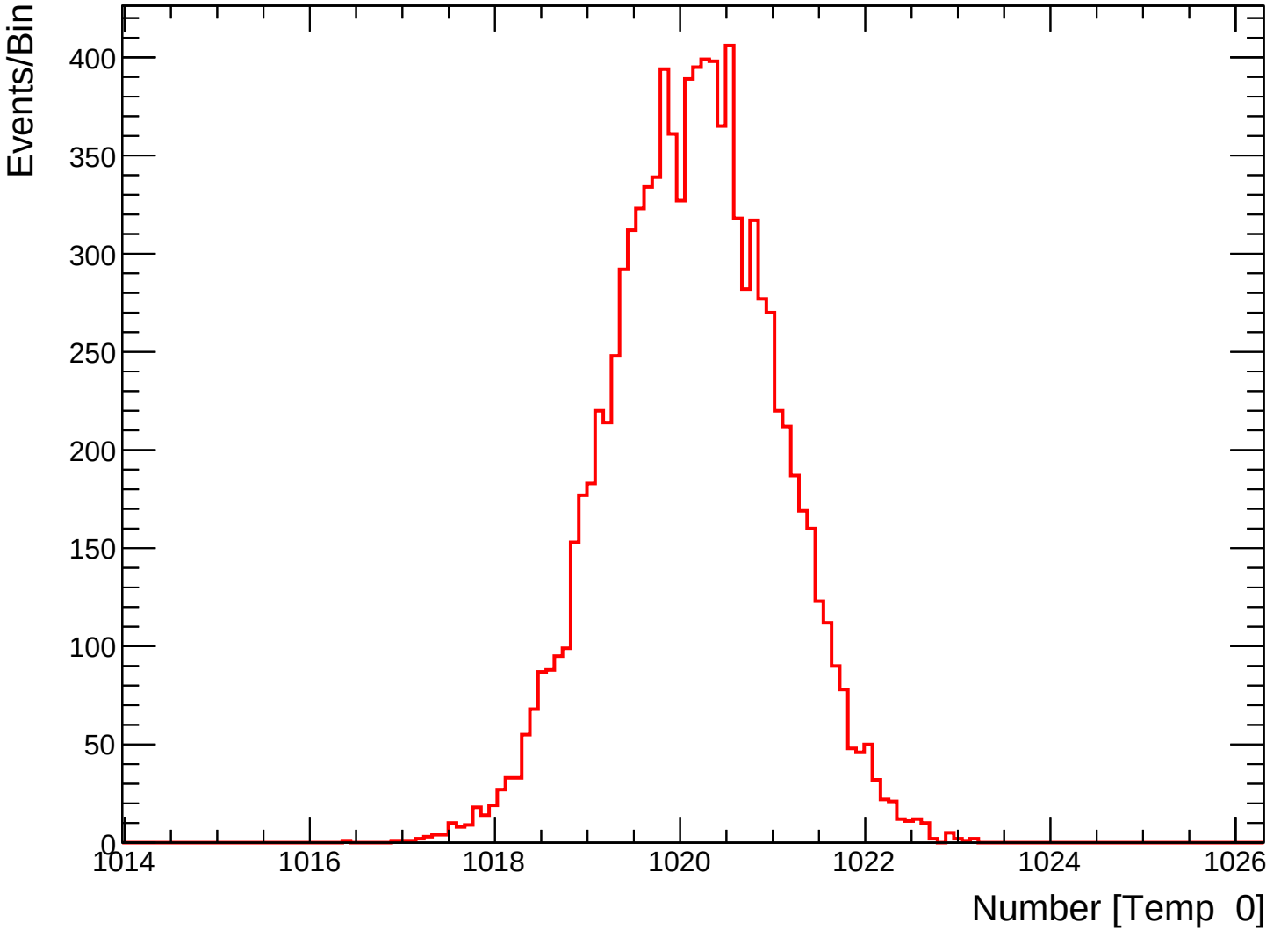

Time 34 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1085.9 ± 33.5)
e⁻+π⁻ (82.8 ± 10.6)
χ² 1.05
Events/Bin
Mass²/Z² [(GV/c²)²]
180
160
140
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

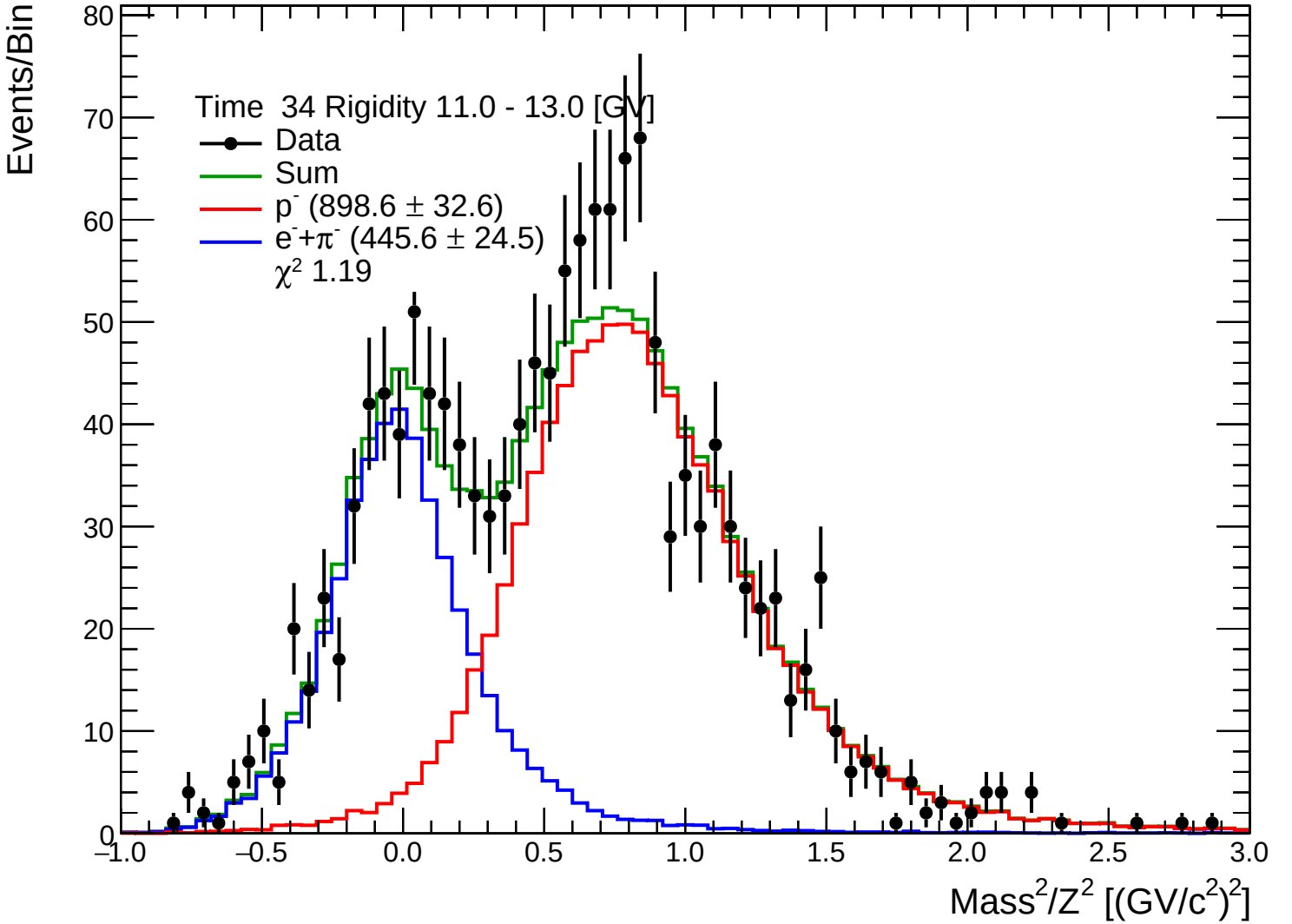

Events/Bin
400
350
300
250
200
150
100
50
0
1082
1084
1086
1088
1090
Number [Temp 0]

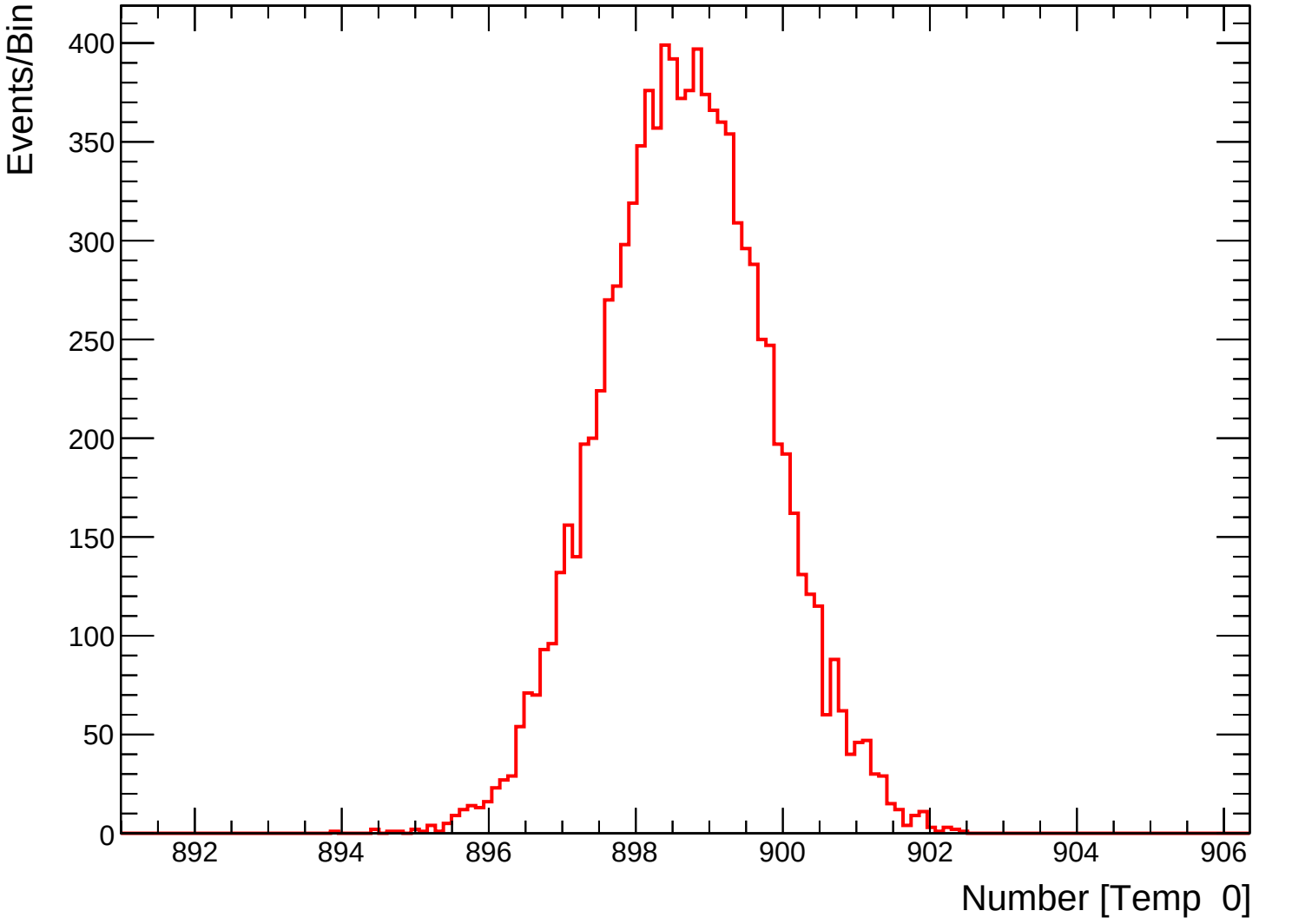

Time 34 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1104.6 ± 34.0)
e⁻+π⁻ (342.3 ± 19.6)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

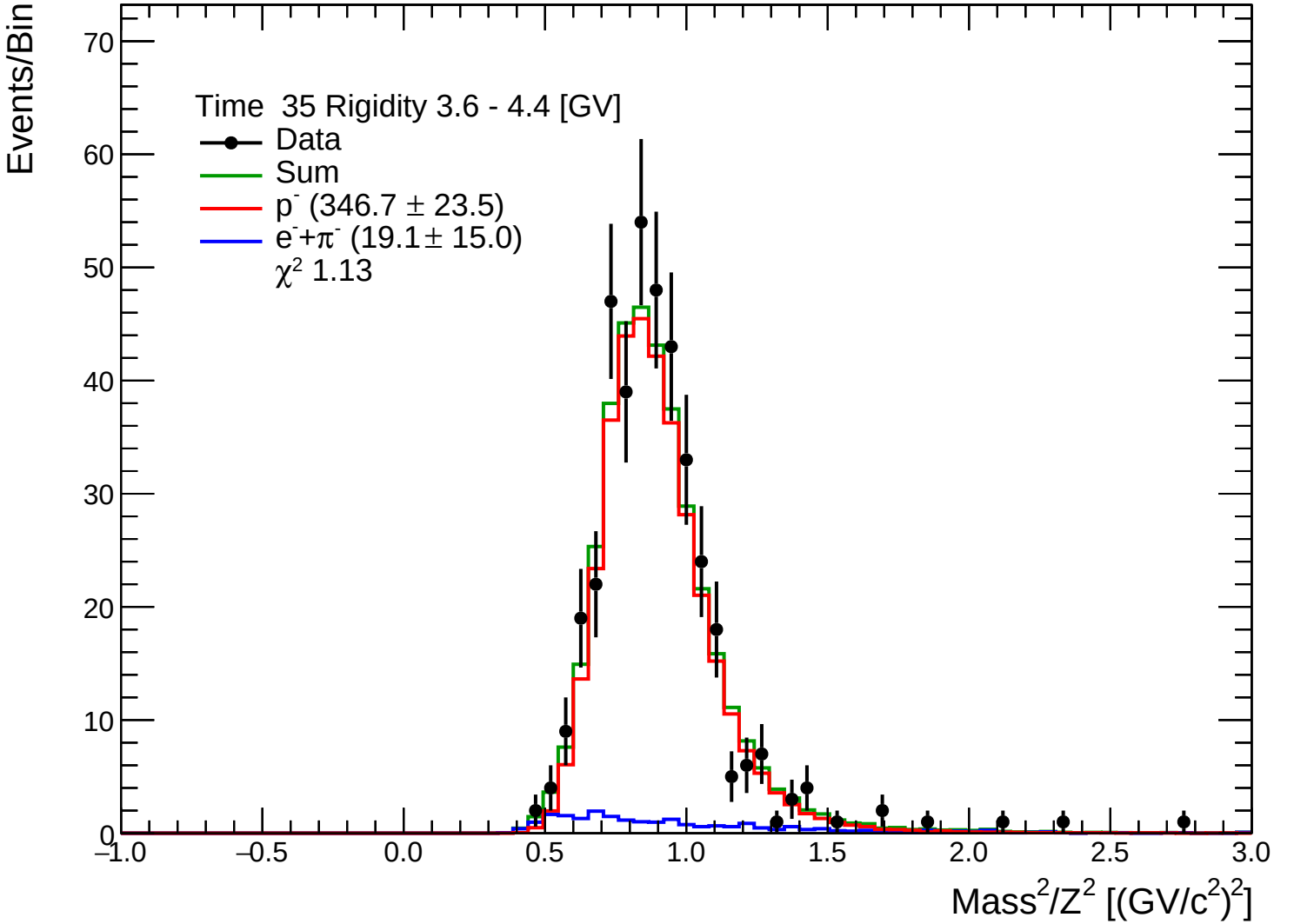

Events/Bin
400
350
300
250
200
150
100
50
0
1101
1102
1103
1104
1105
1106
1107
1108
1109
Number [Temp 0]

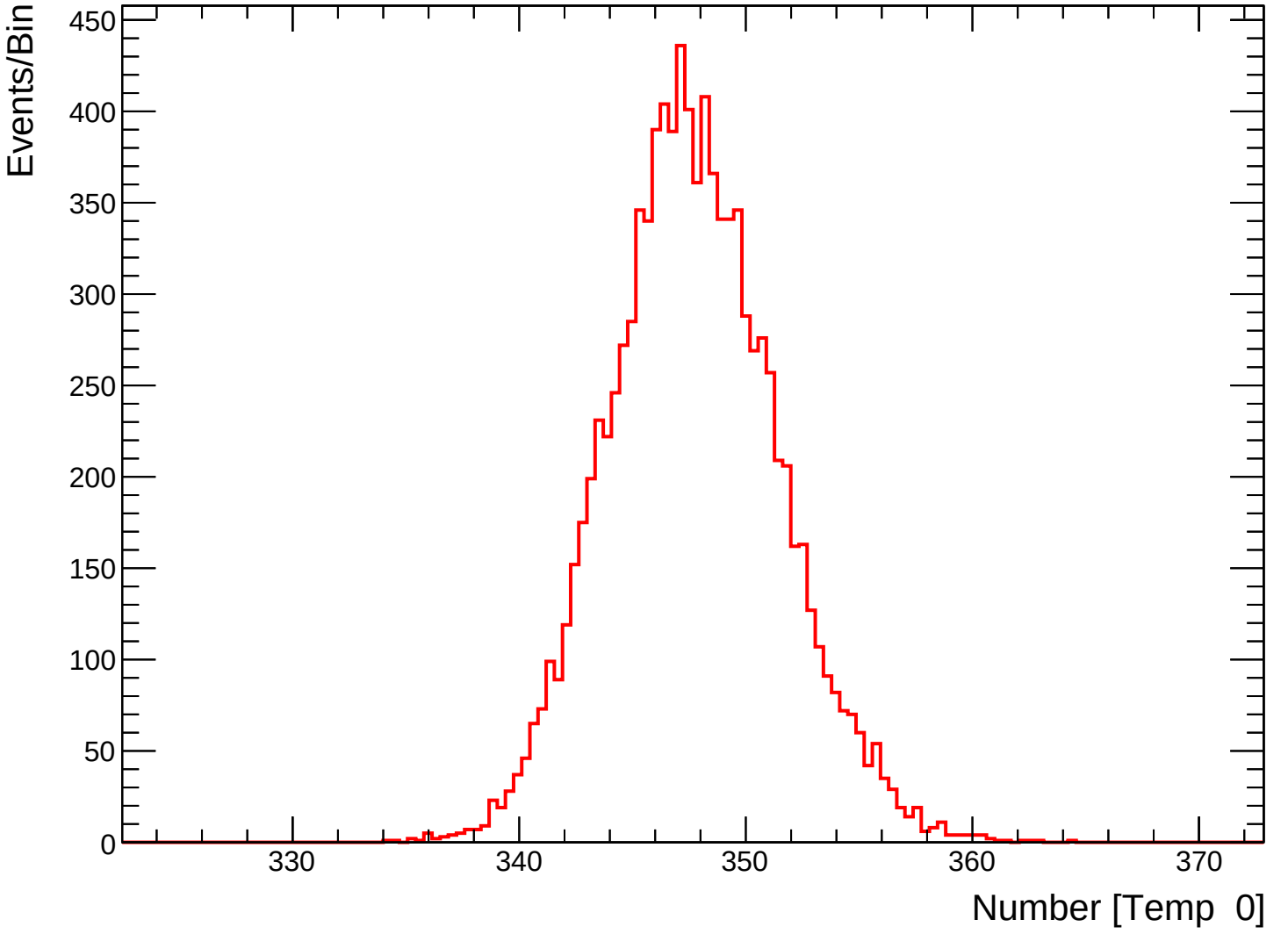

Time 34 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1020.1± 33.5)
e⁻+π⁻ (553.9 ± 25.5)
χ² 0.94
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

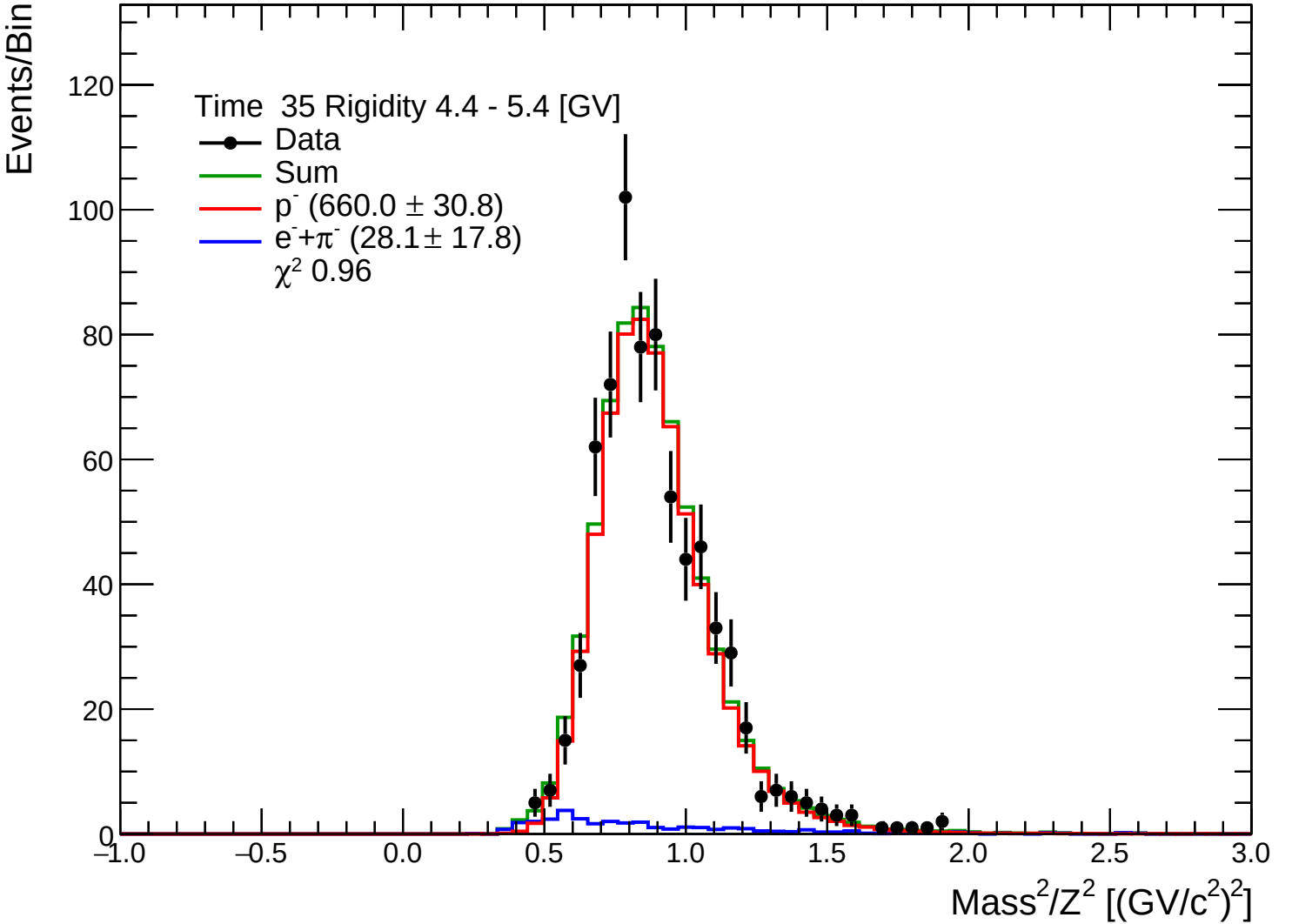

Events/Bin
400
350
300
250
200
150
100
50
0
1014
1016
1018
1020
1022
1024
1026
Number [Temp 0]

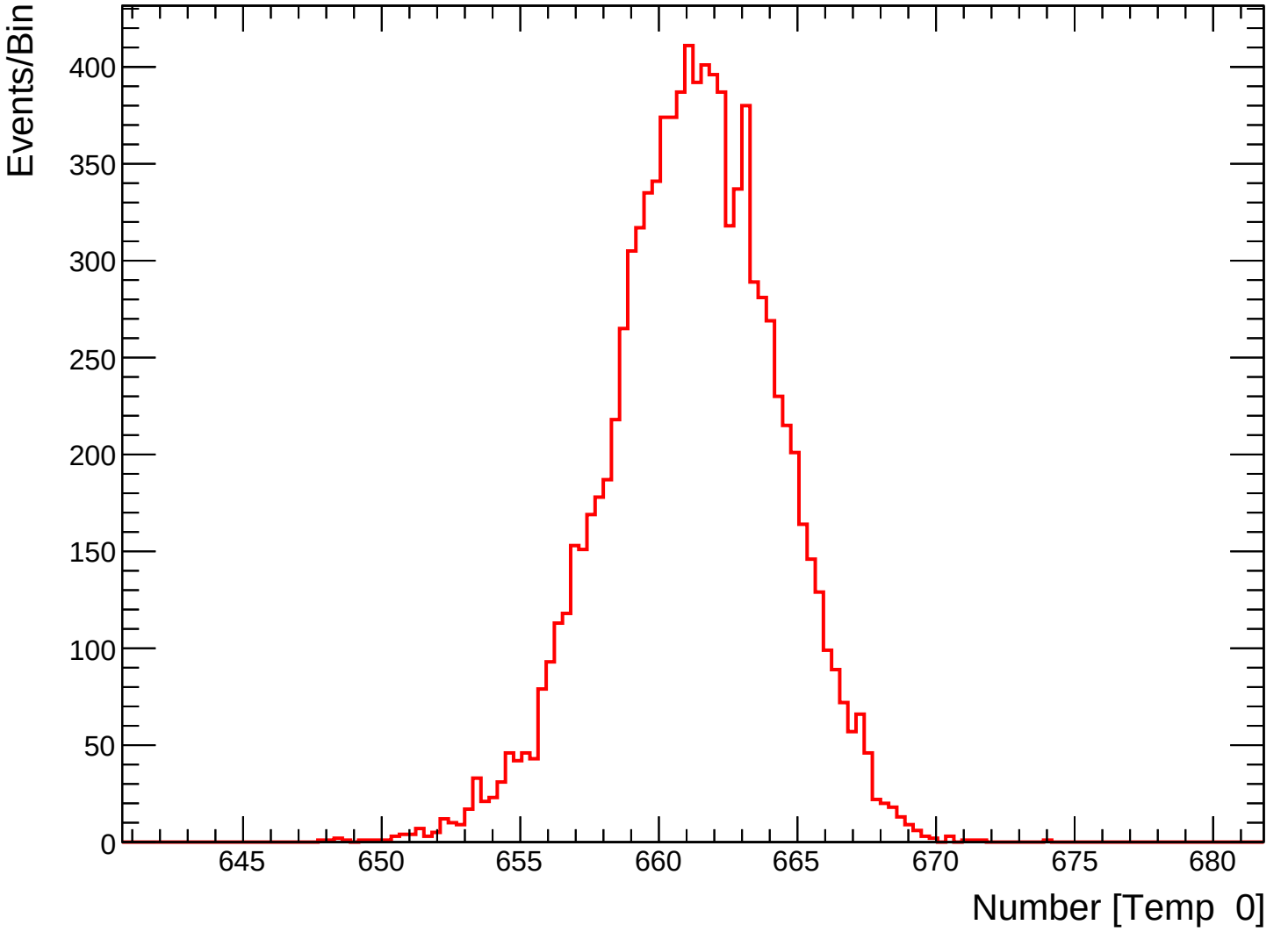

Time 34 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (898.6 ± 32.6)
e⁻+π⁻ (445.6 ± 24.5)
χ² 1.19
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

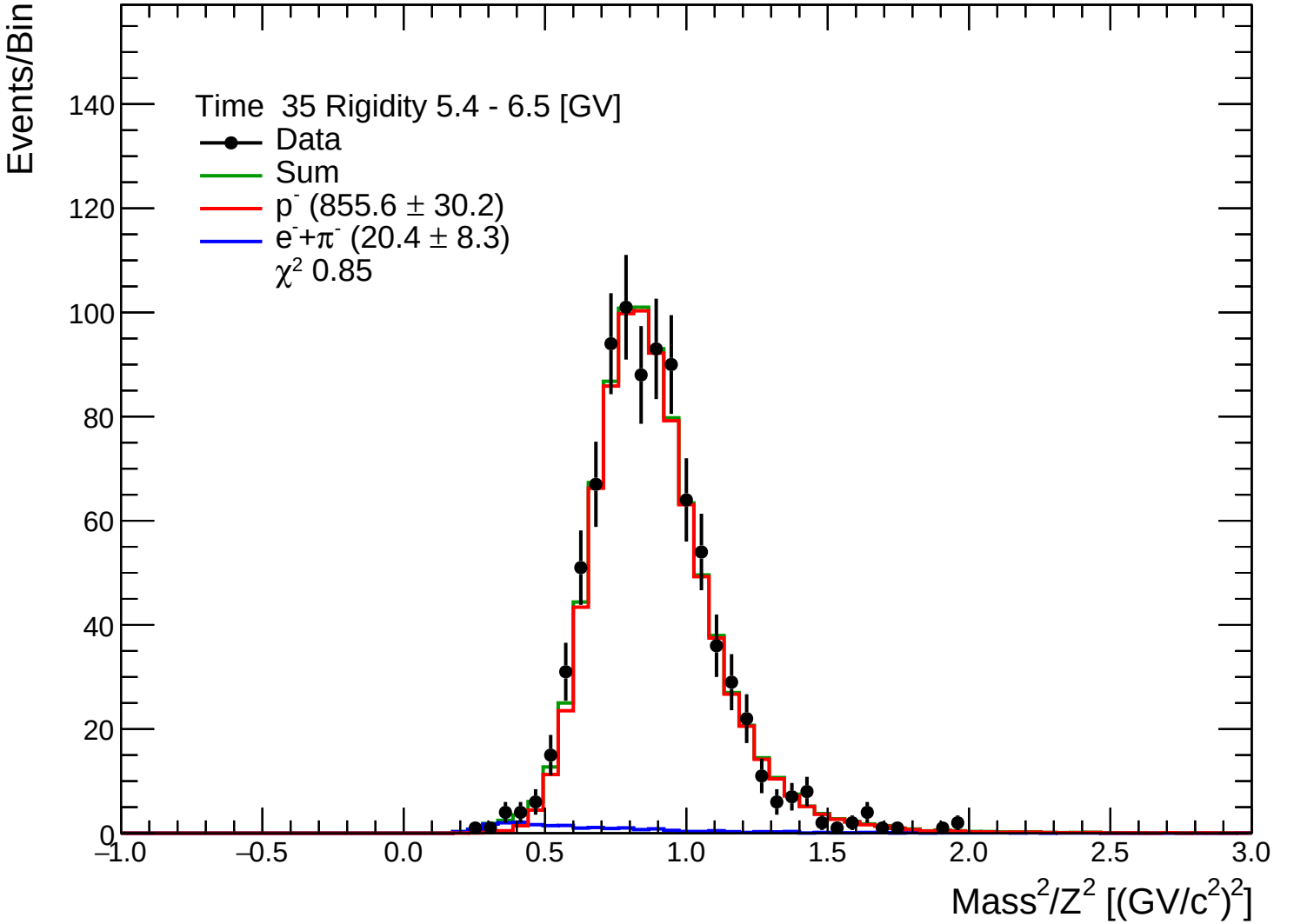

Events/Bin
400
350
300
250
200
150
100
50
0
892
894
896
898
900
902
904
906
Number [Temp 0]

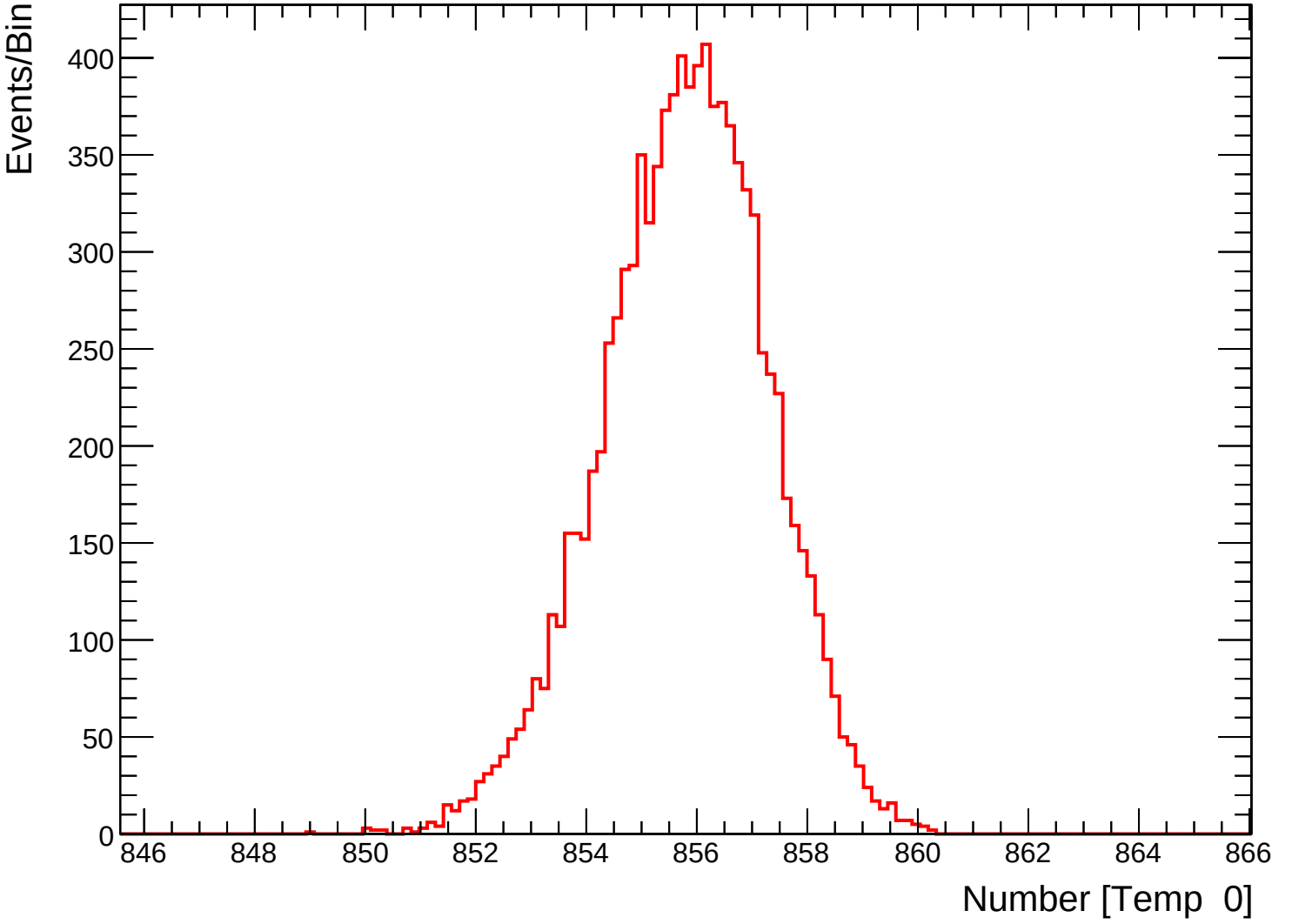

Time 35 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (346.7 ± 23.5)
e⁻+π⁻ (19.1± 15.0)
χ² 1.13
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

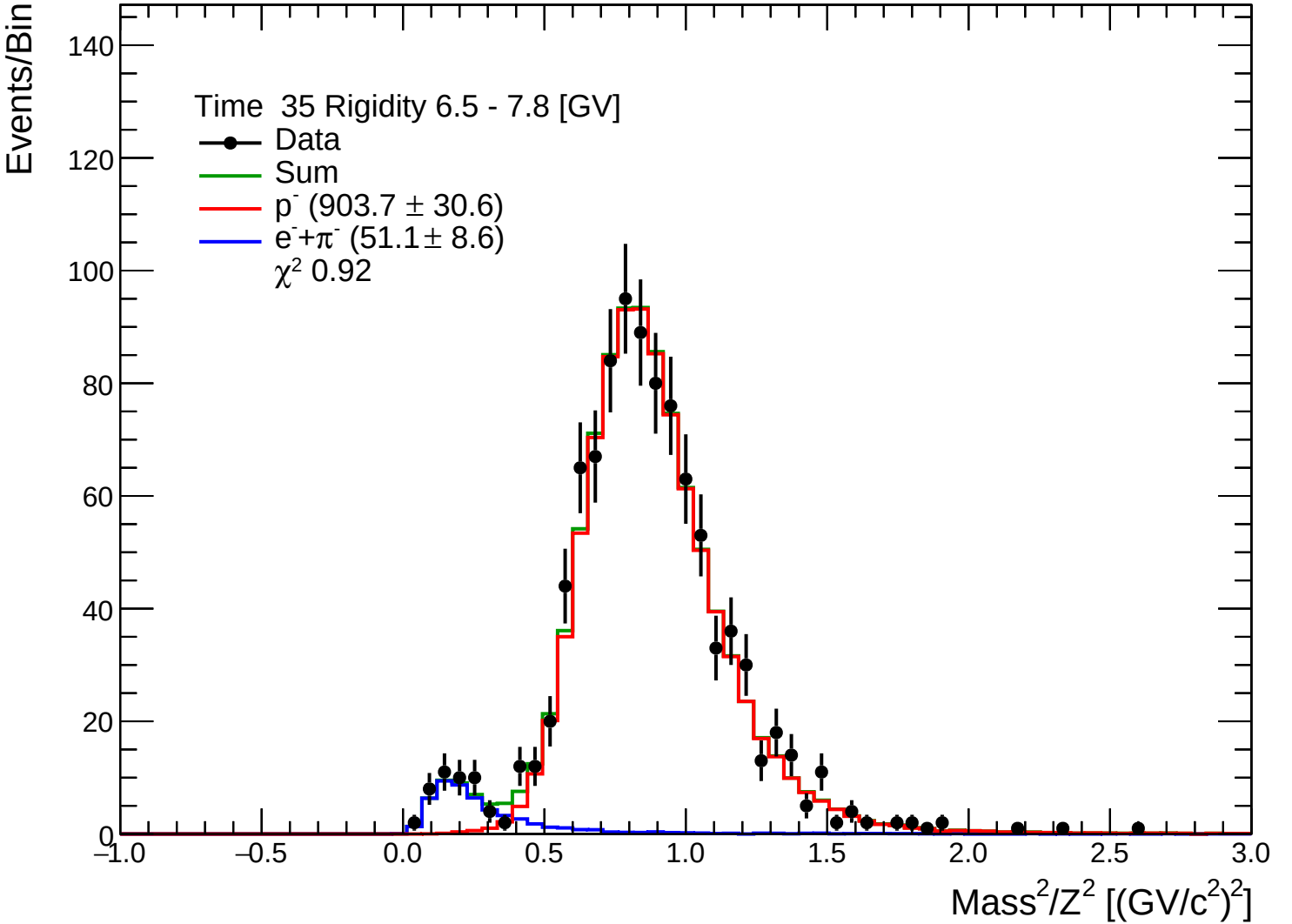

Events/Bin
450
400
350
300
250
200
150
100
50
0
330
340
350
360
370
Number [Temp 0]

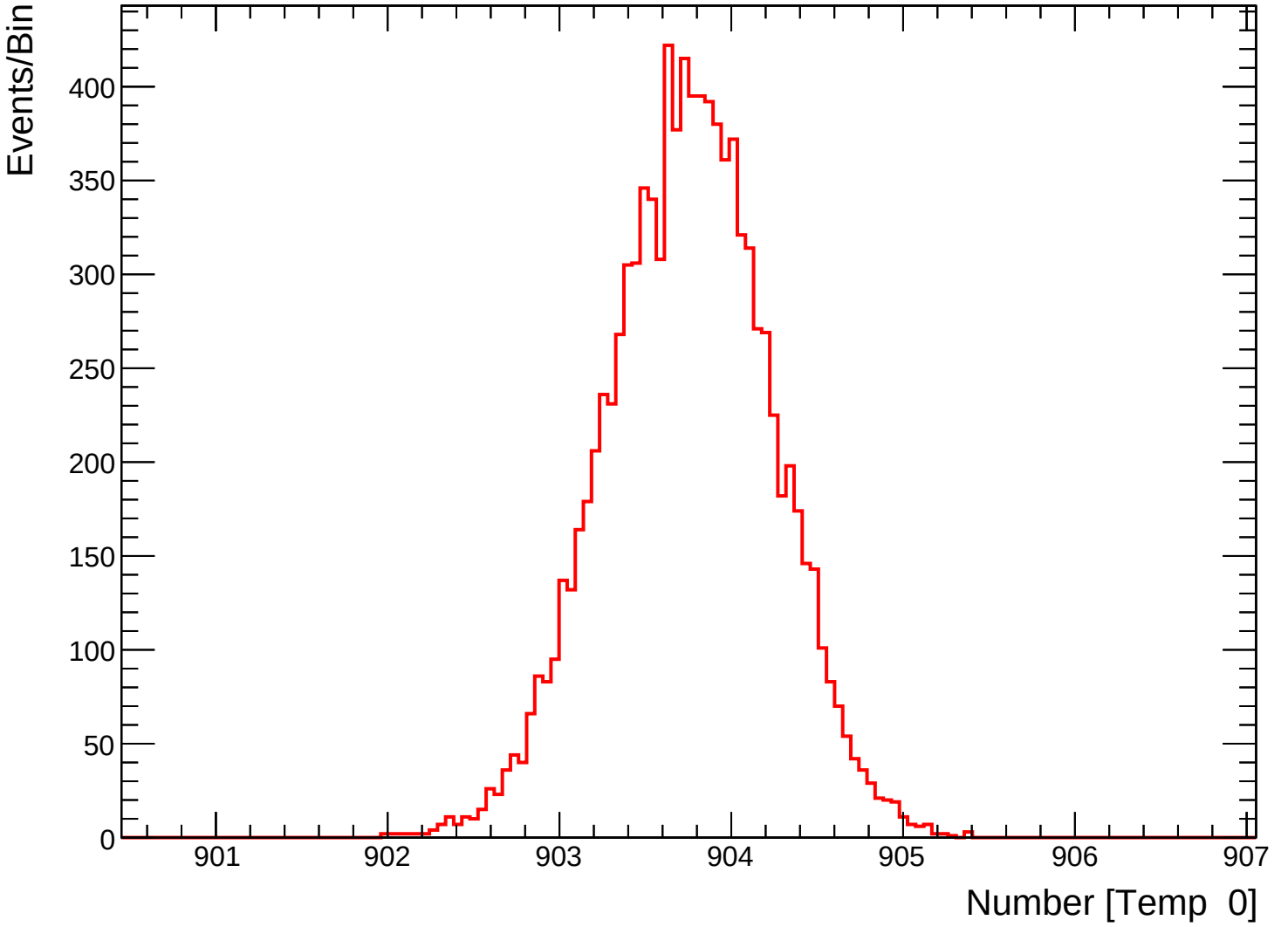

Time 35 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (660.0 ± 30.8)
e⁻+π⁻ (28.1± 17.8)
χ² 0.96
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

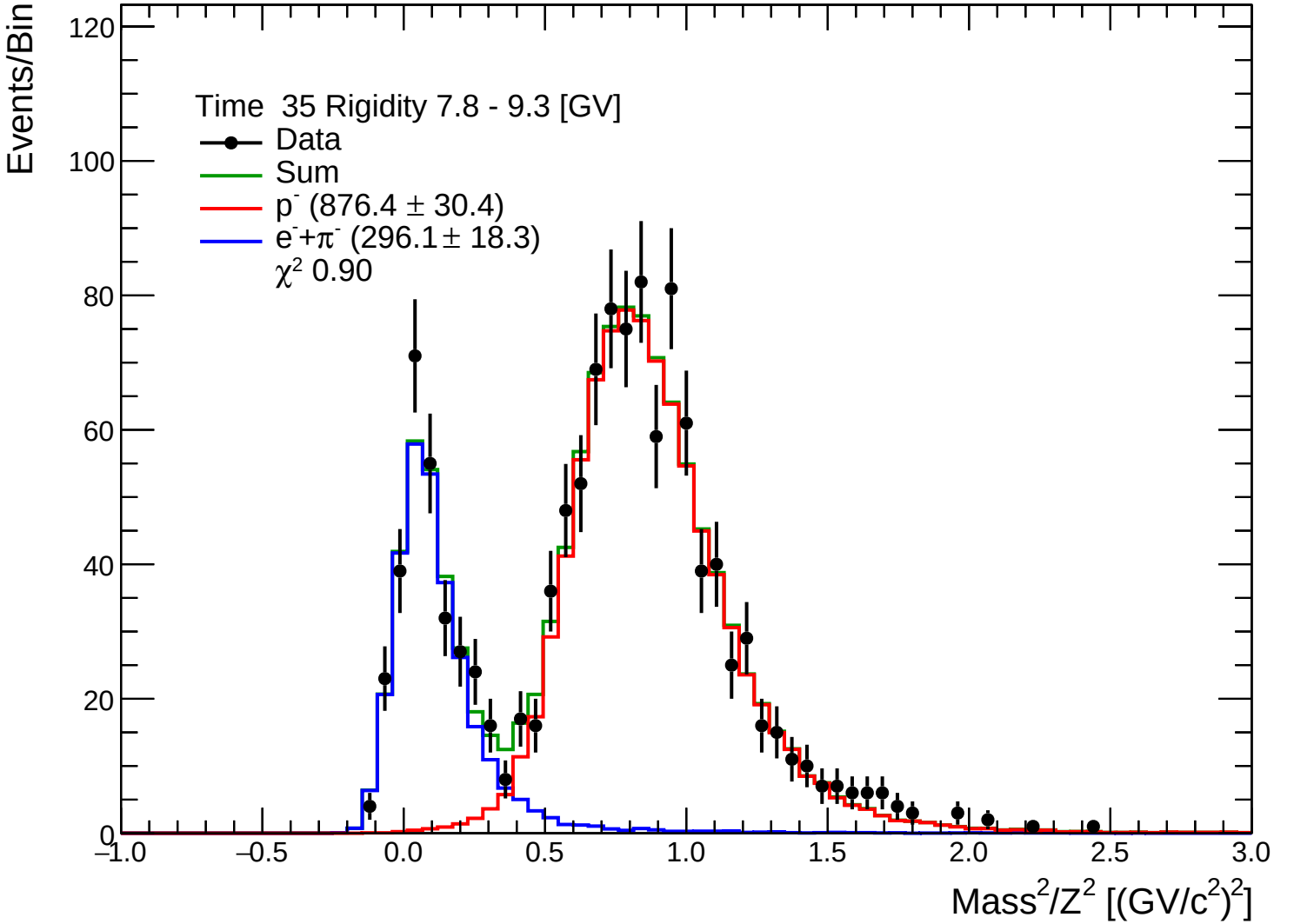

Events/Bin
400
350
300
250
200
150
100
50
0
645
650
655
660
665
670
675
680
Number [Temp 0]

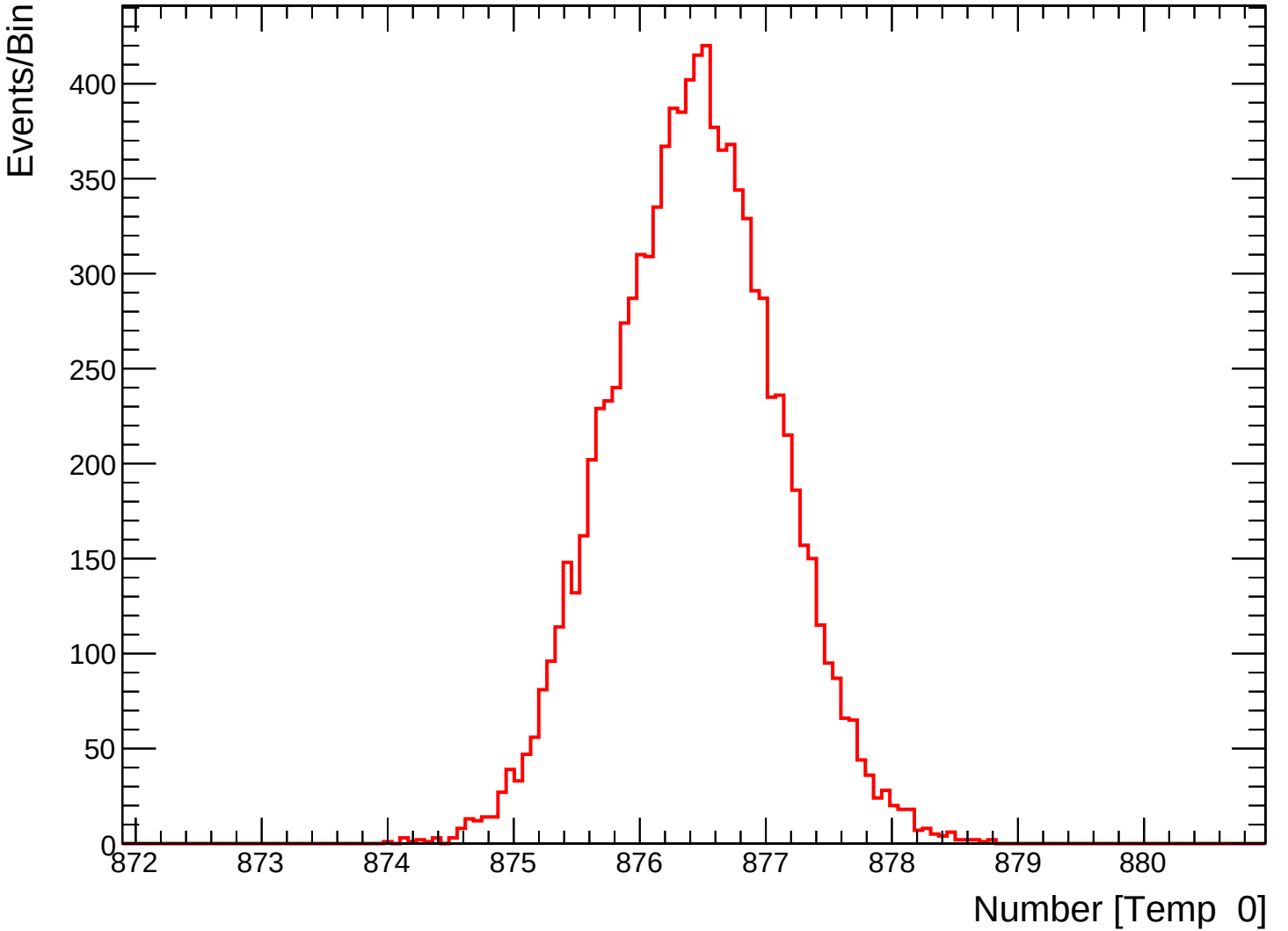

Time 35 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (855.6 ± 30.2)
e⁻+π⁻ (20.4 ± 8.3)
χ² 0.85
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

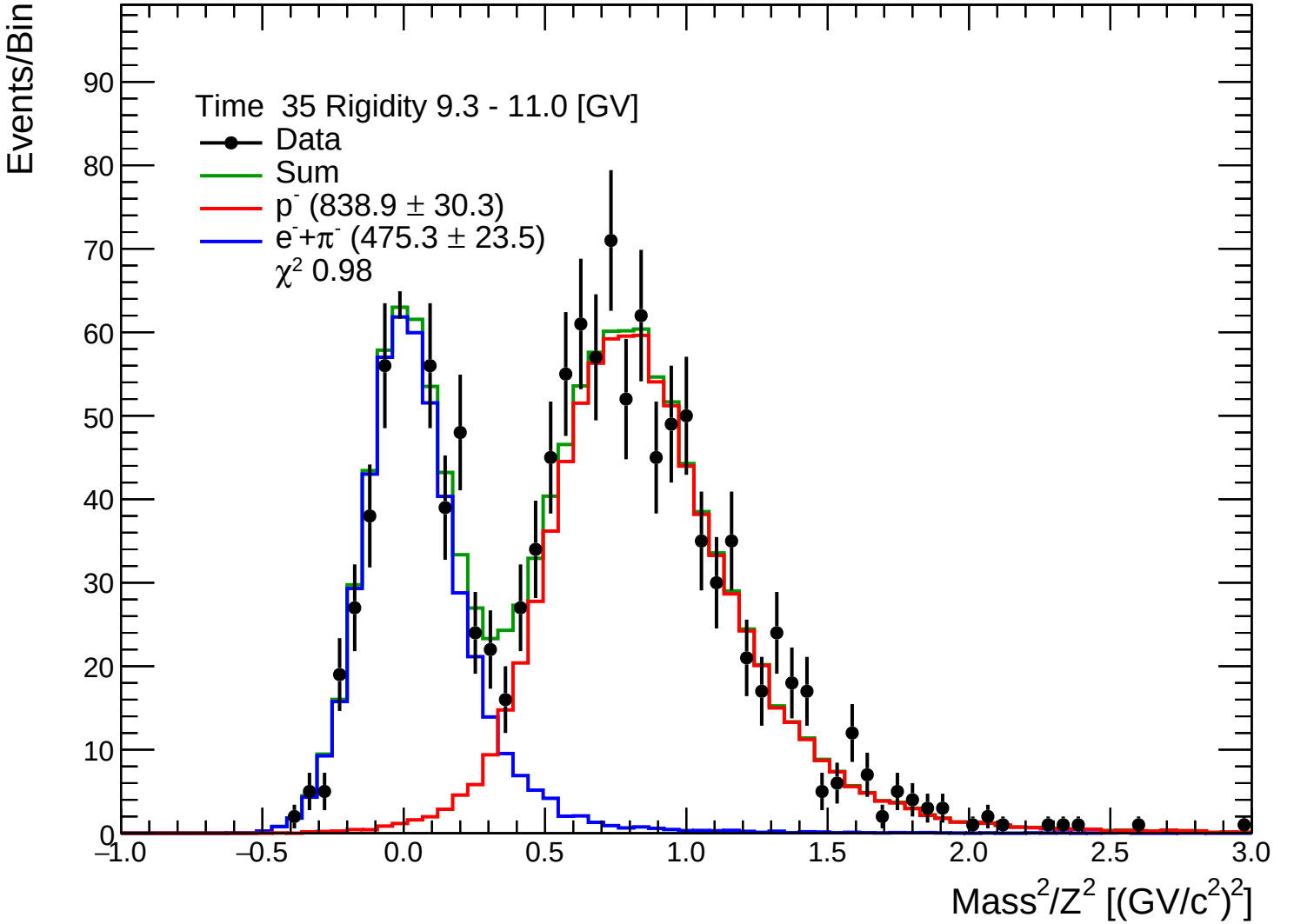

Events/Bin
0
50
100
150
200
250
300
350
400
846
848
850
852
854
856
858
860
862
864
866
Number [Temp 0]

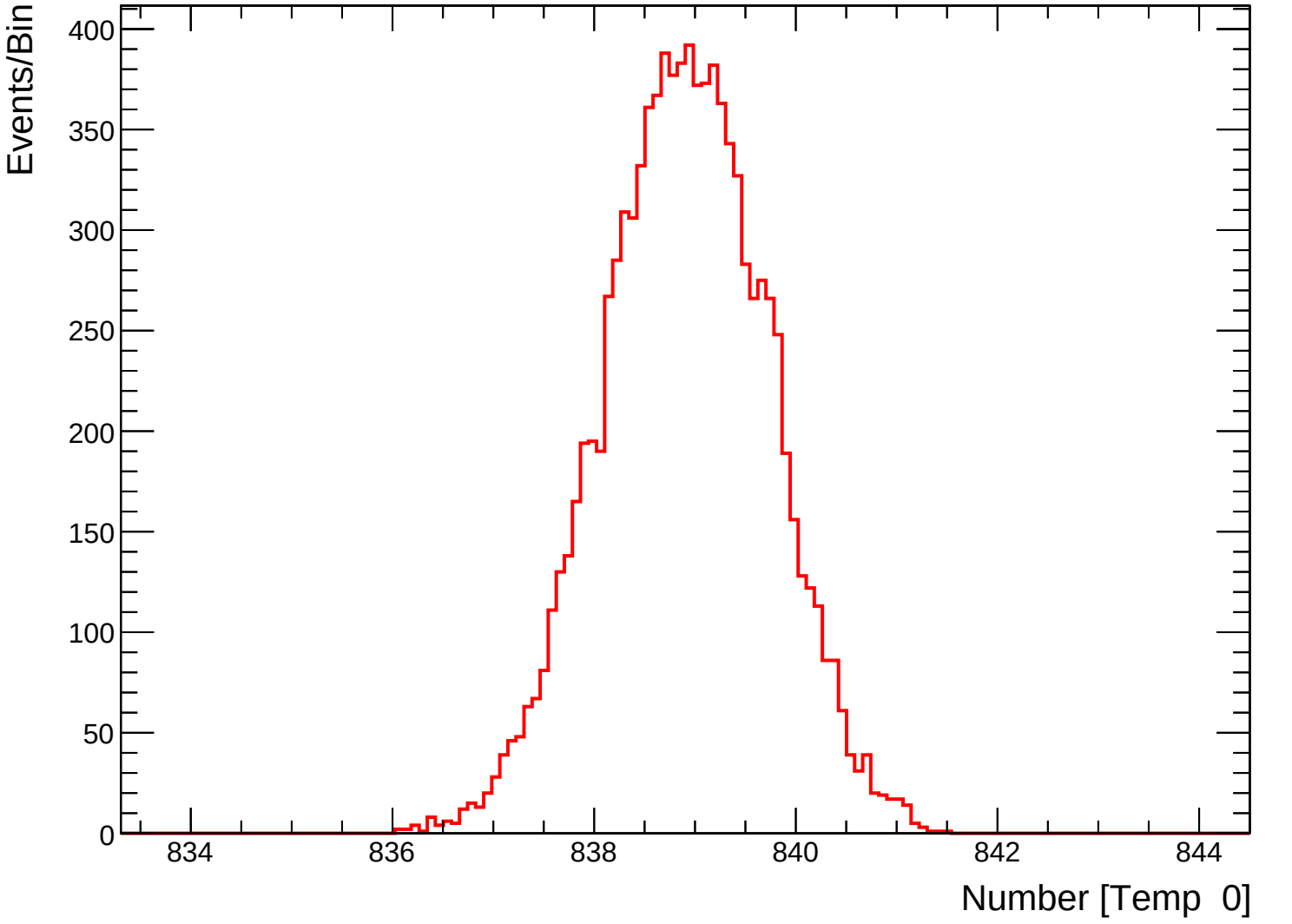

Time 35 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (903.7 ± 30.6)
e⁻+π⁻ (51.1± 8.6)
χ² 0.92
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

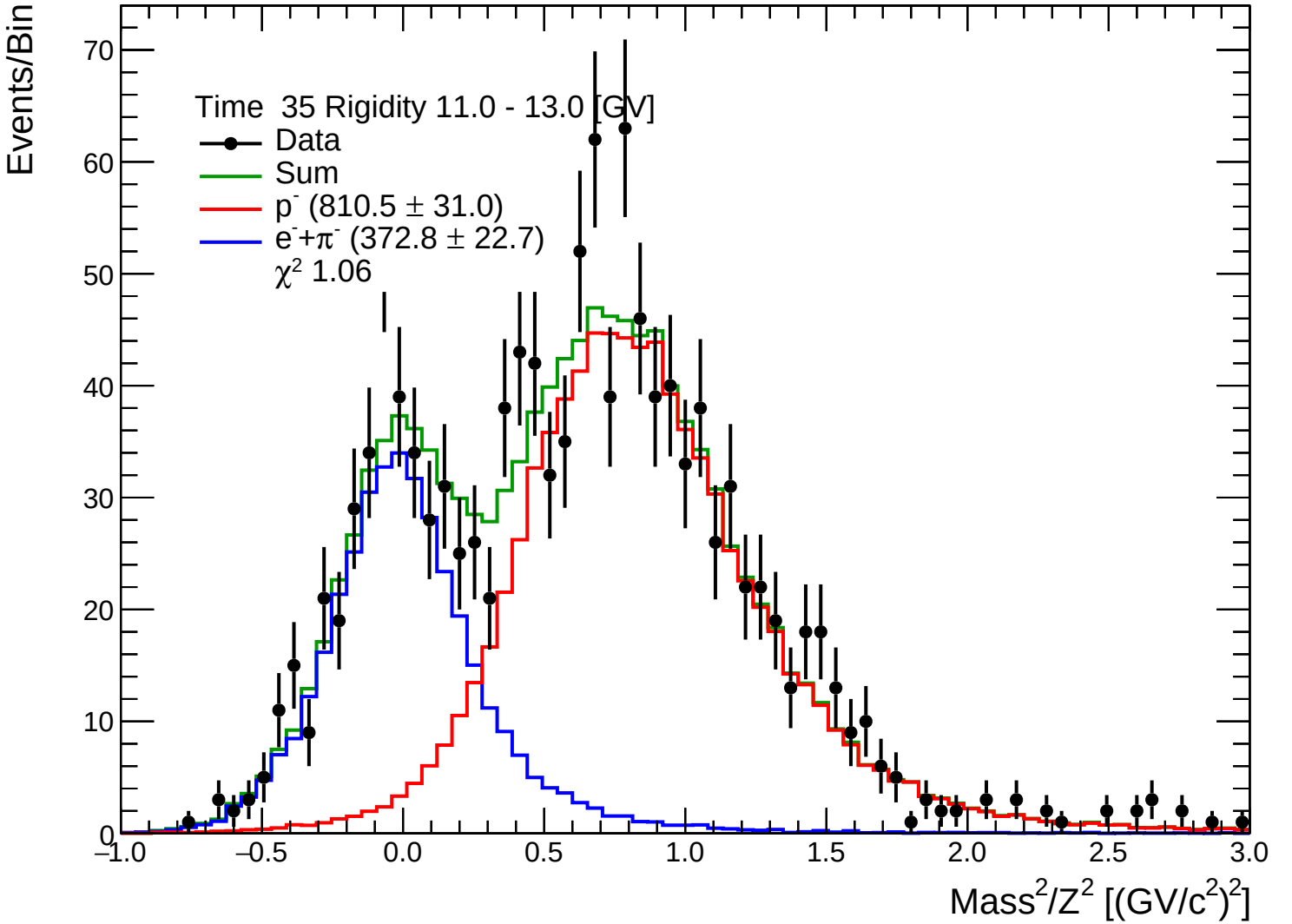

Events/Bin
400
350
300
250
200
150
100
50
0
901
902
903
904
905
906
907
Number [Temp 0]

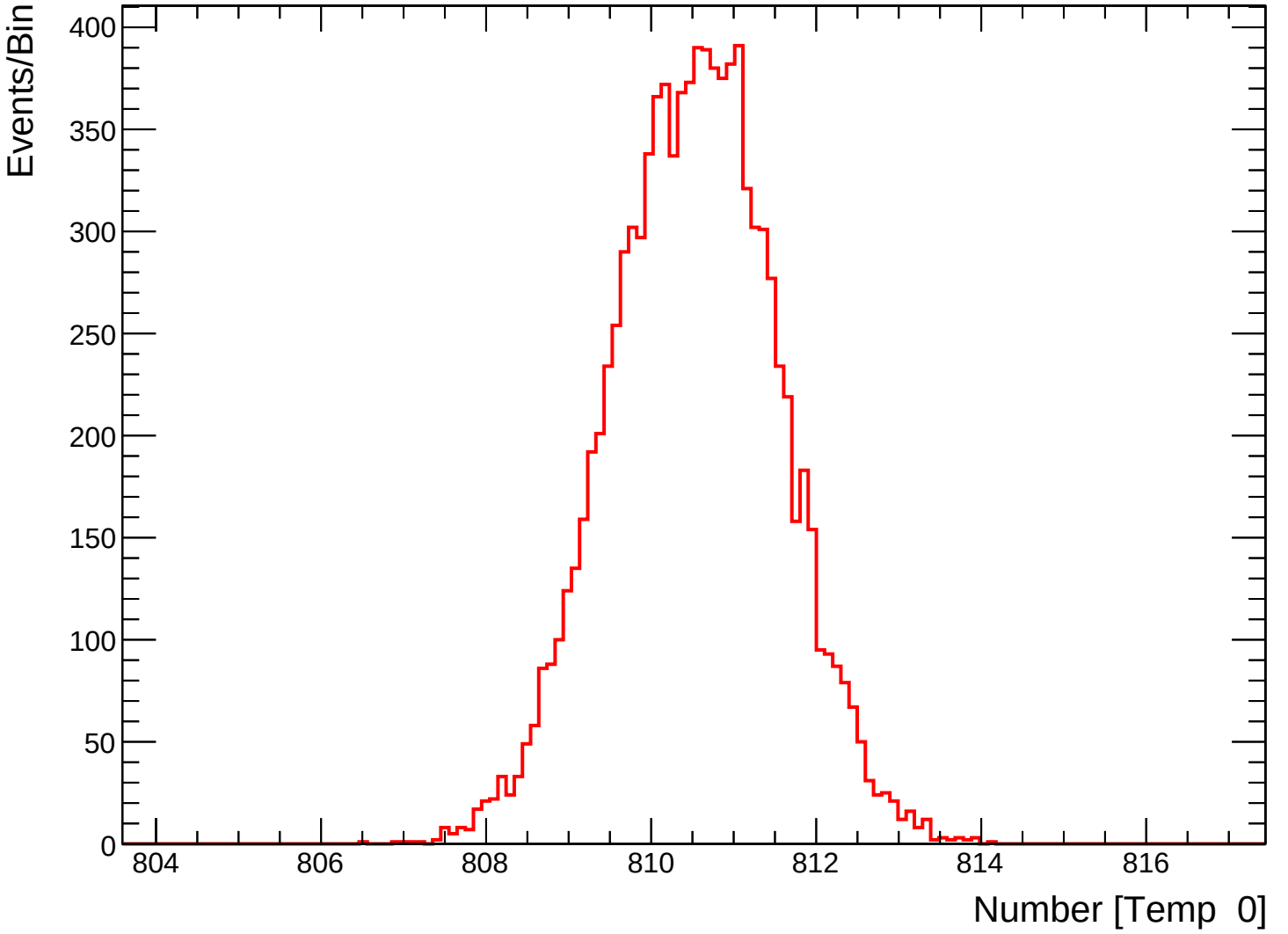

Time 35 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (876.4 ± 30.4)
e⁻+π⁻ (296.1 ± 18.3)
χ² 0.90
Events/Bin
Mass²/Z² [(GV/c²)²]
120
100
80
60
40
20
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

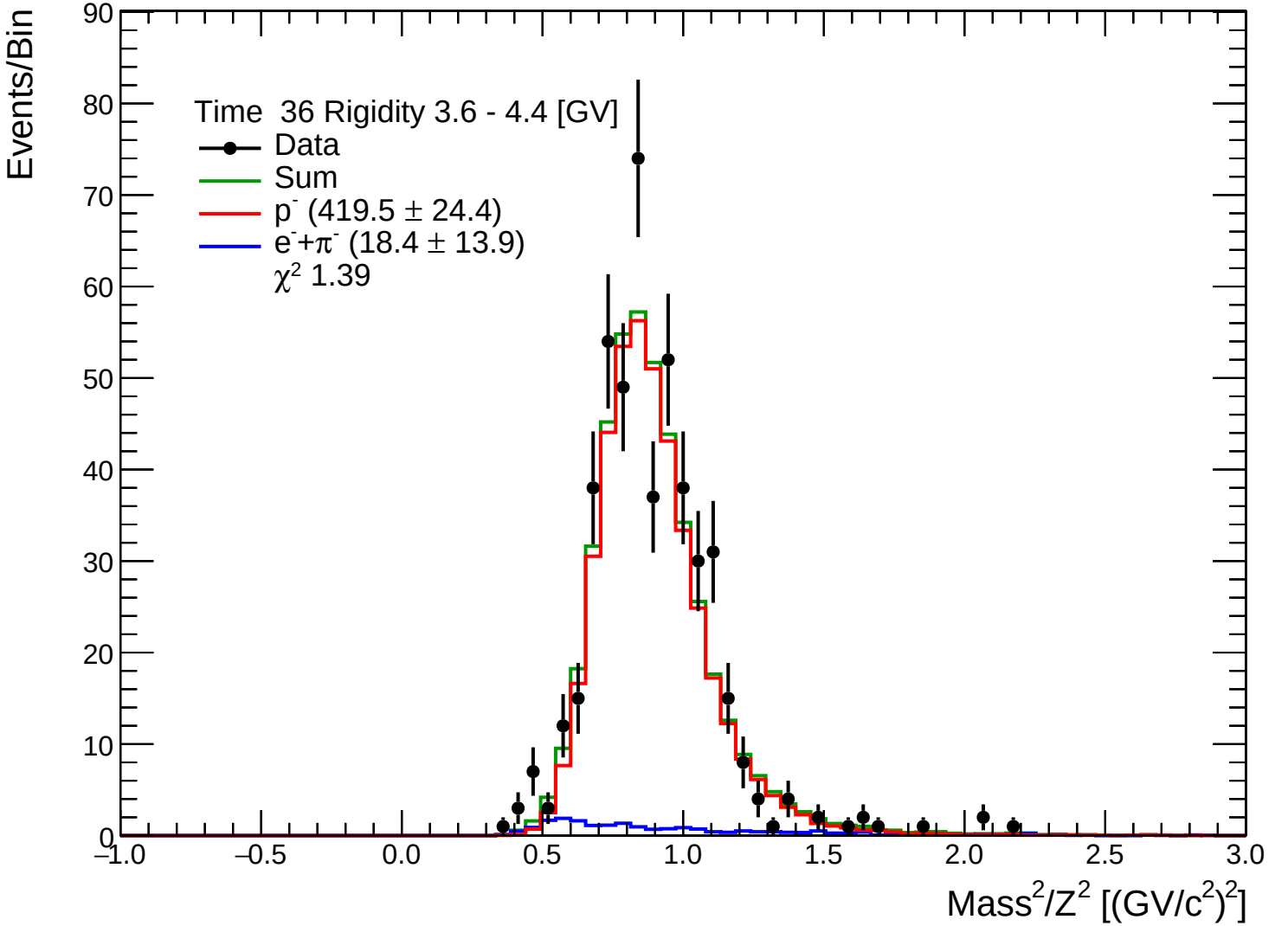

Events/Bin
400
350
300
250
200
150
100
50
0
872
873
874
875
876
877
878
879
880
Number [Temp 0]

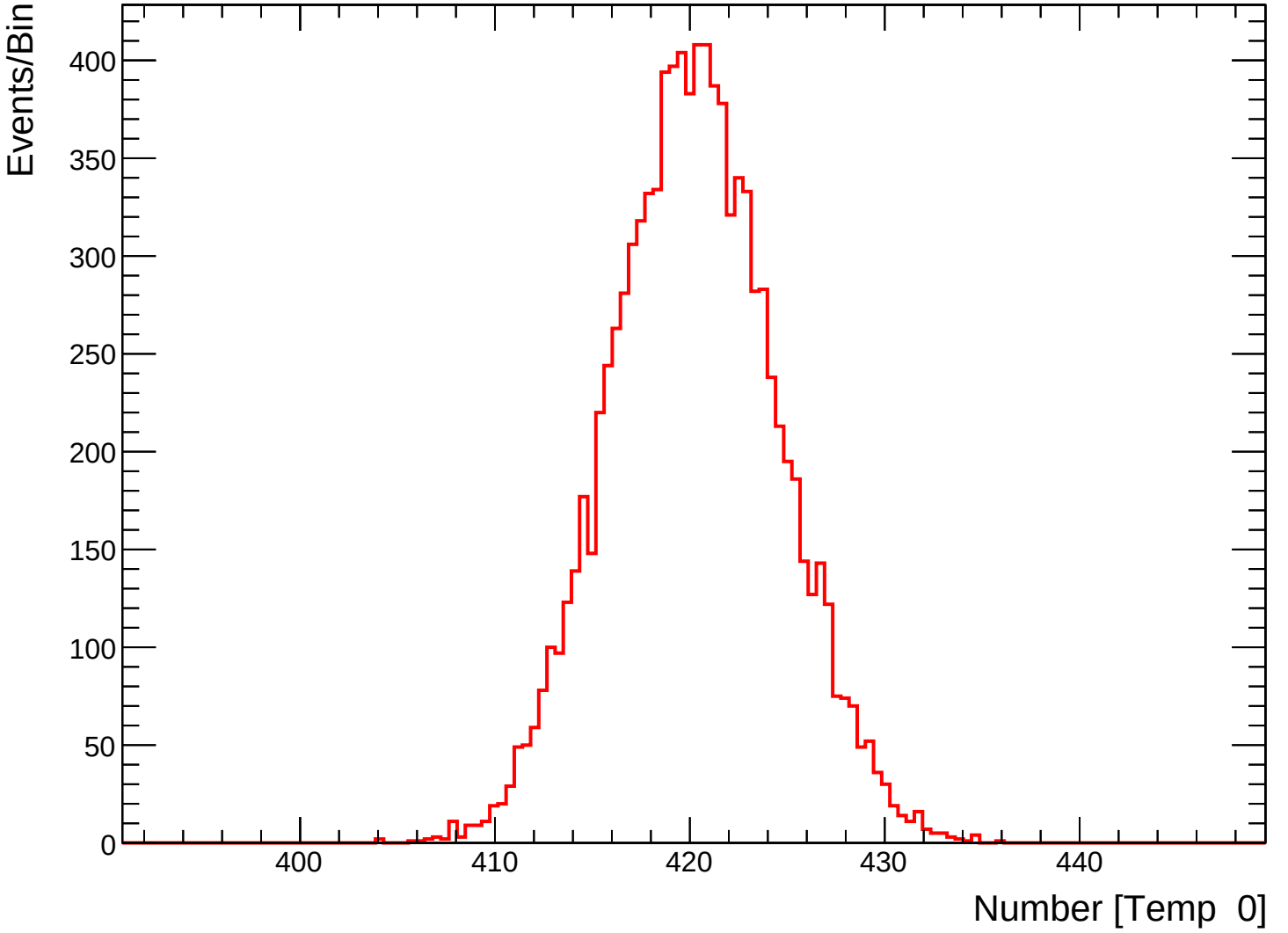

Events/Bin
Time 35 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (838.9 ± 30.3)
e⁻+π⁻ (475.3 ± 23.5)
χ² 0.98
Mass²/Z² [(GV/c²)²]

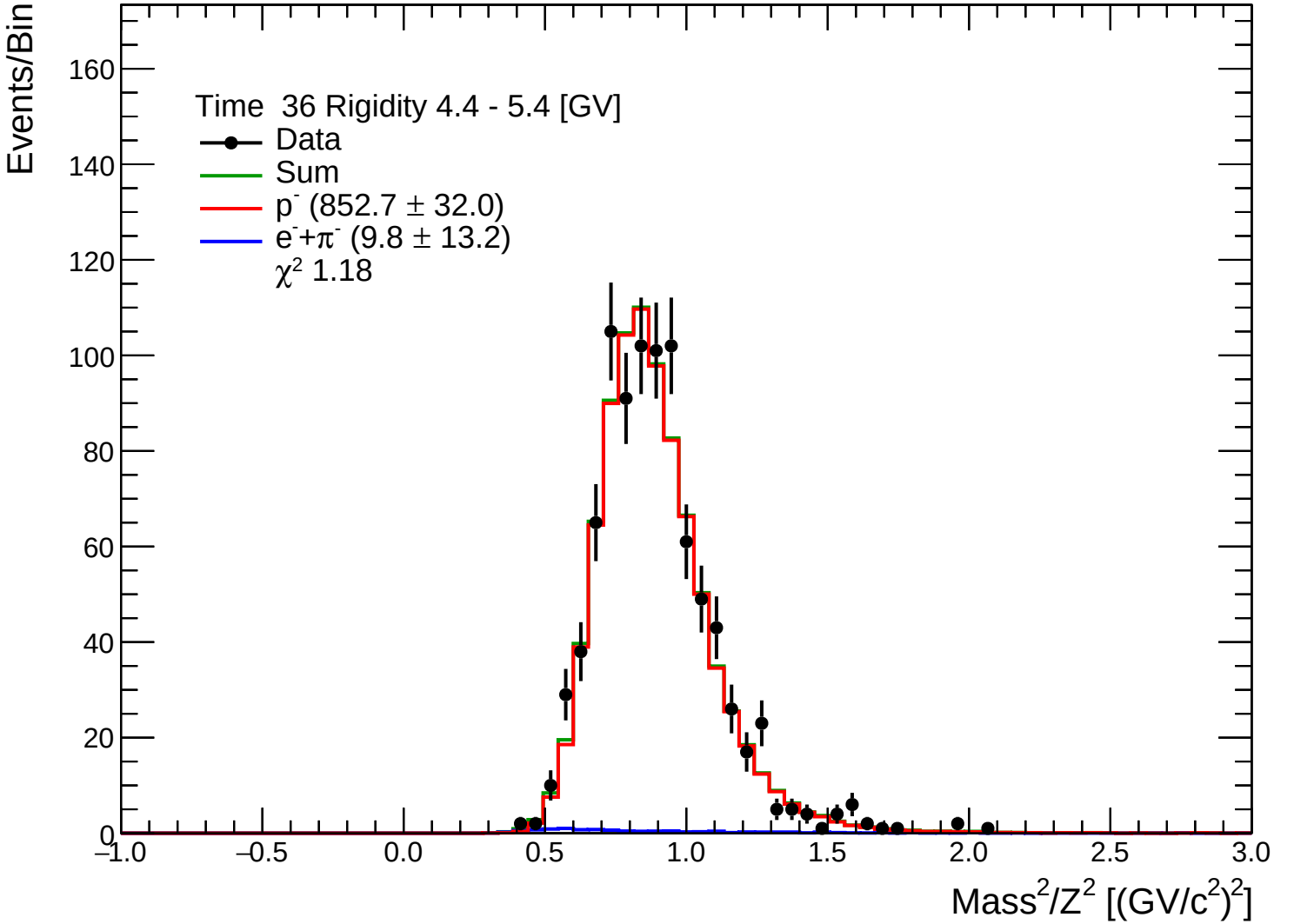

Events/Bin
400
350
300
250
200
150
100
50
0
834
836
838
840
842
844
Number [Temp 0]

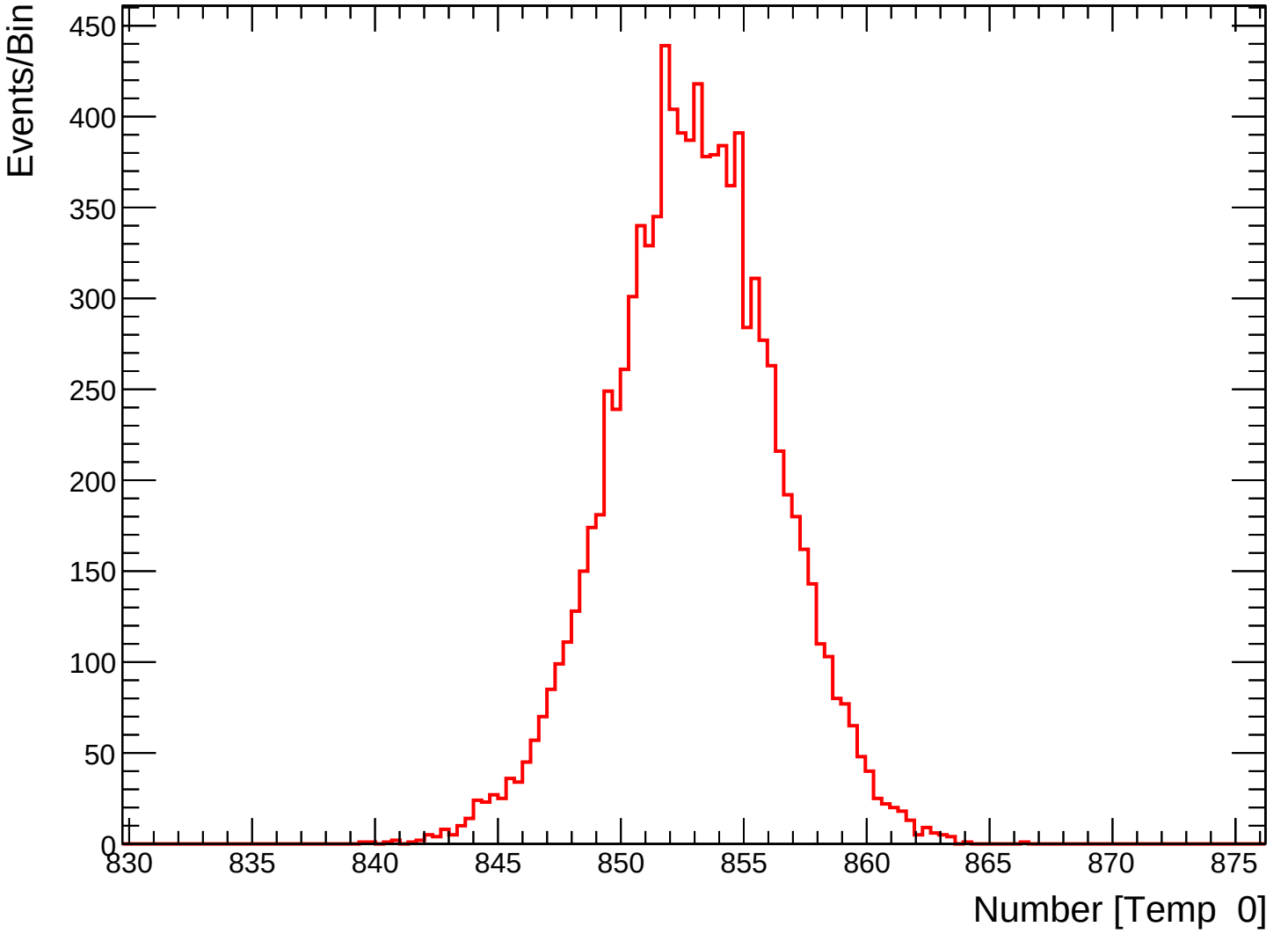

Time 35 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (810.5 ± 31.0)
e⁻+π⁻ (372.8 ± 22.7)
χ² 1.06
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

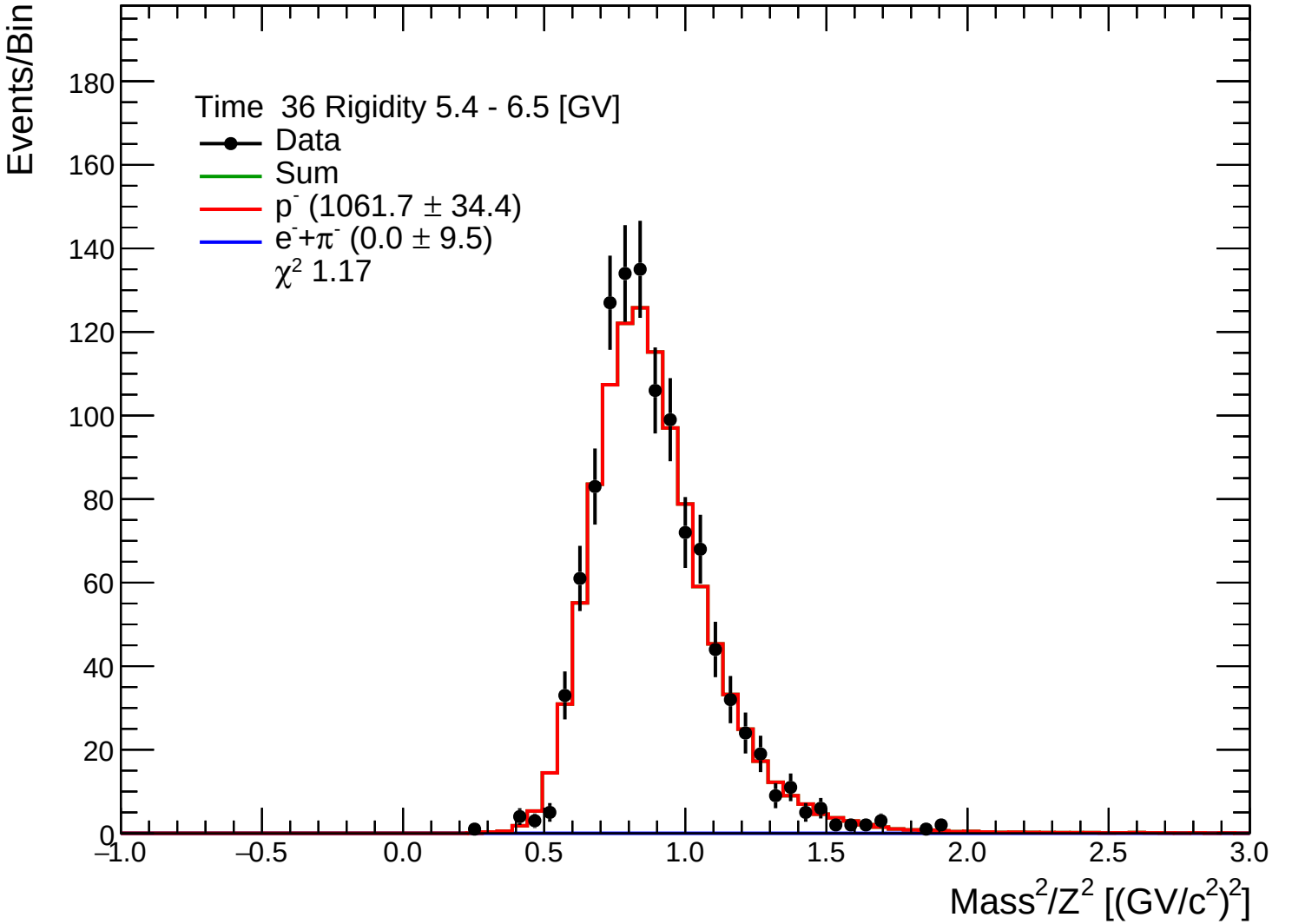

Events/Bin
400
350
300
250
200
150
100
50
0
804
806
808
810
812
814
816
Number [Temp 0]

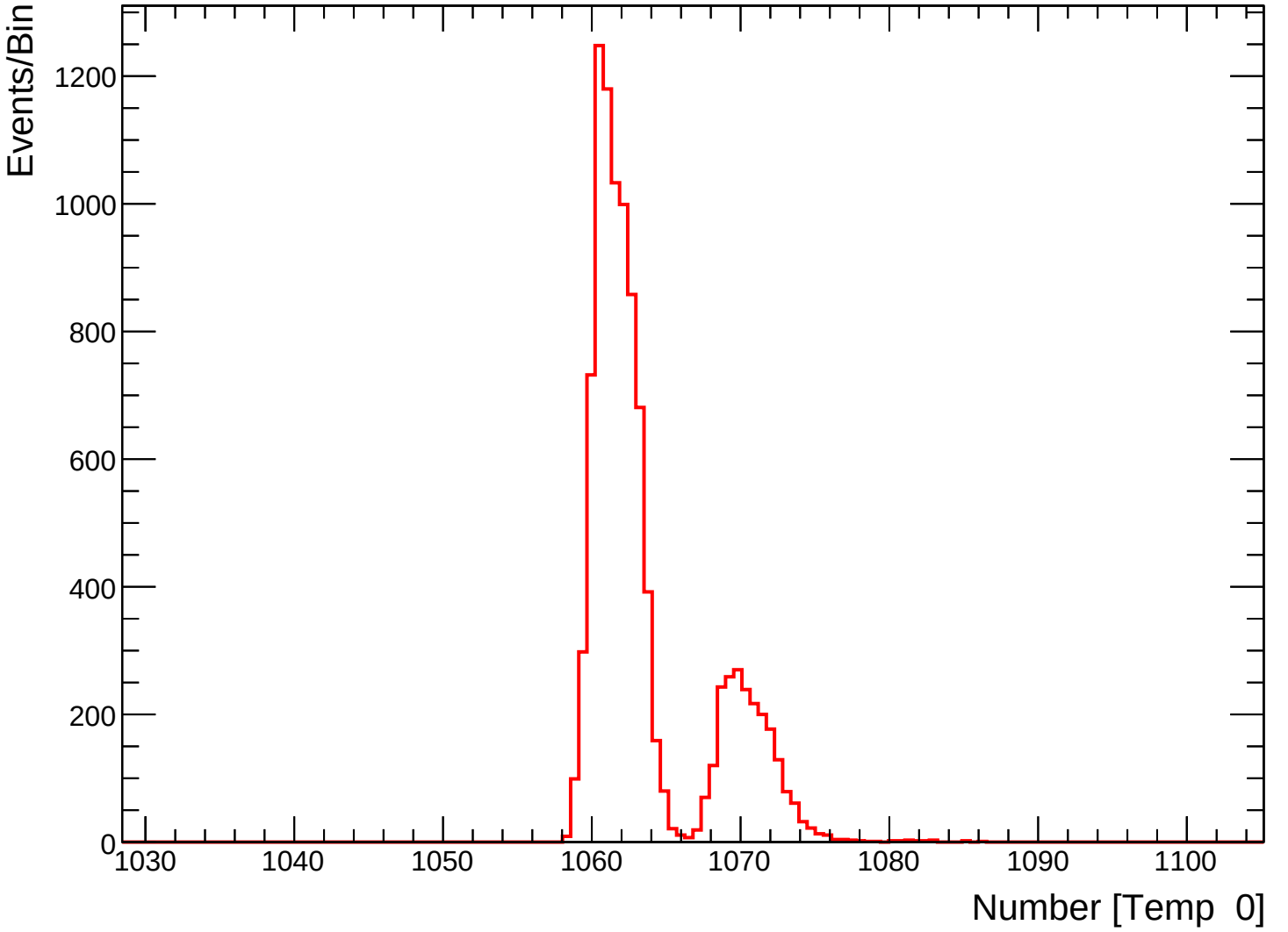

Time 36 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (419.5 ± 24.4)
e⁻+π⁻ (18.4 ± 13.9)
χ² 1.39
Events/Bin
Mass²/Z² [(GV/c²)²]
90
80
70
60
50
40
30
20
10
0
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

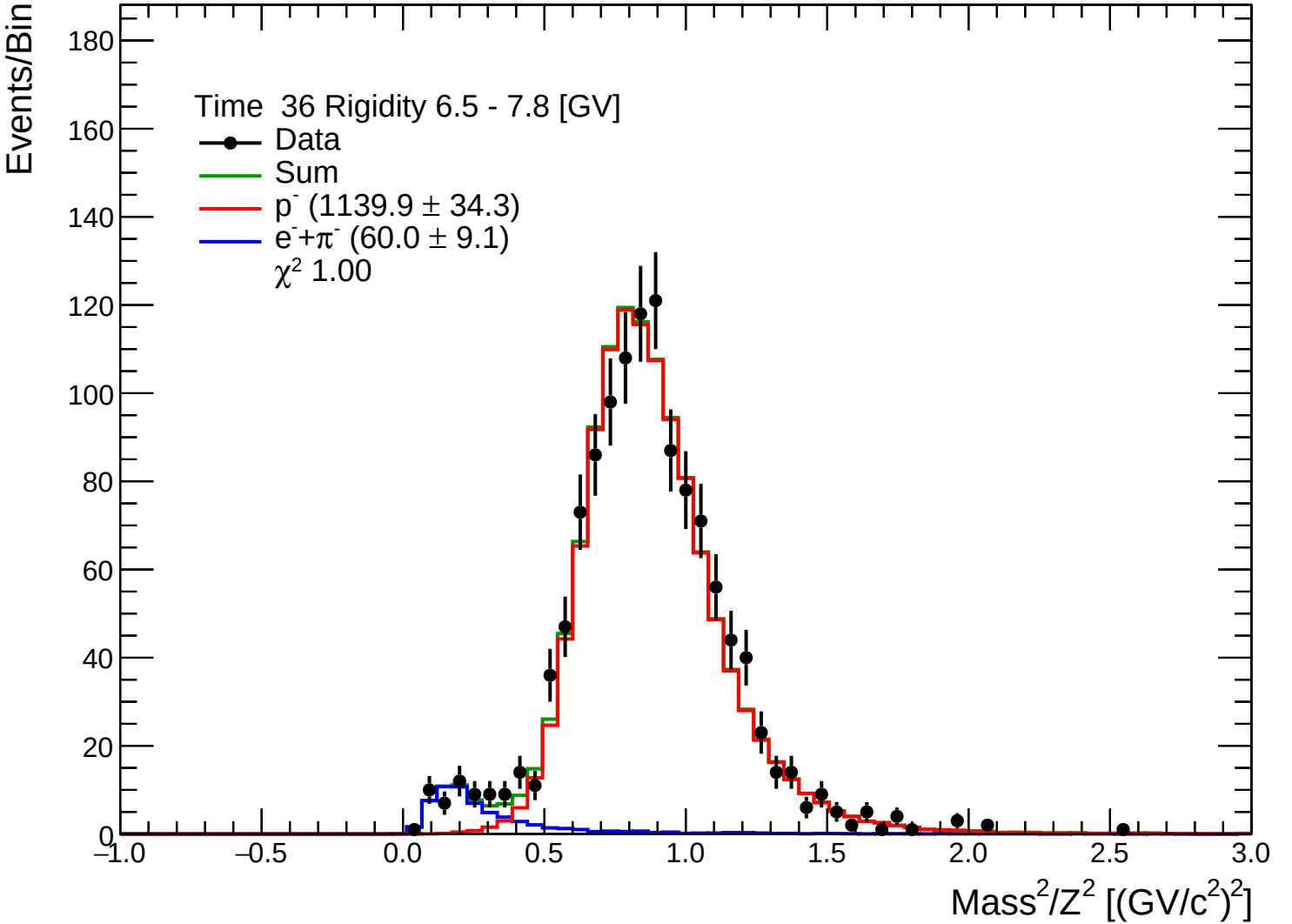

Events/Bin
400
350
300
250
200
150
100
50
0
400
410
420
430
440
Number [Temp 0]

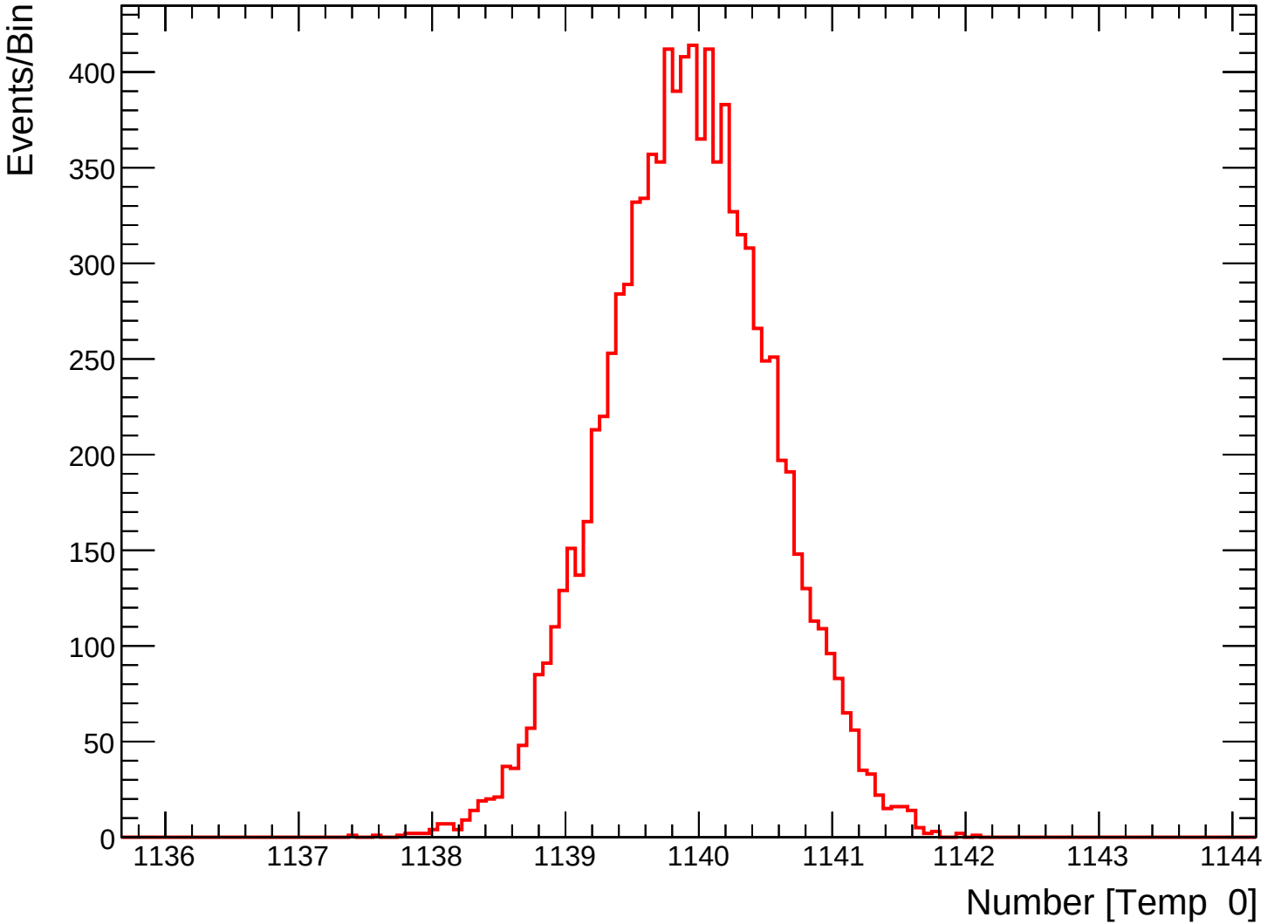

Time 36 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (852.7 ± 32.0)
e⁻+π⁻ (9.8 ± 13.2)
χ² 1.18
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

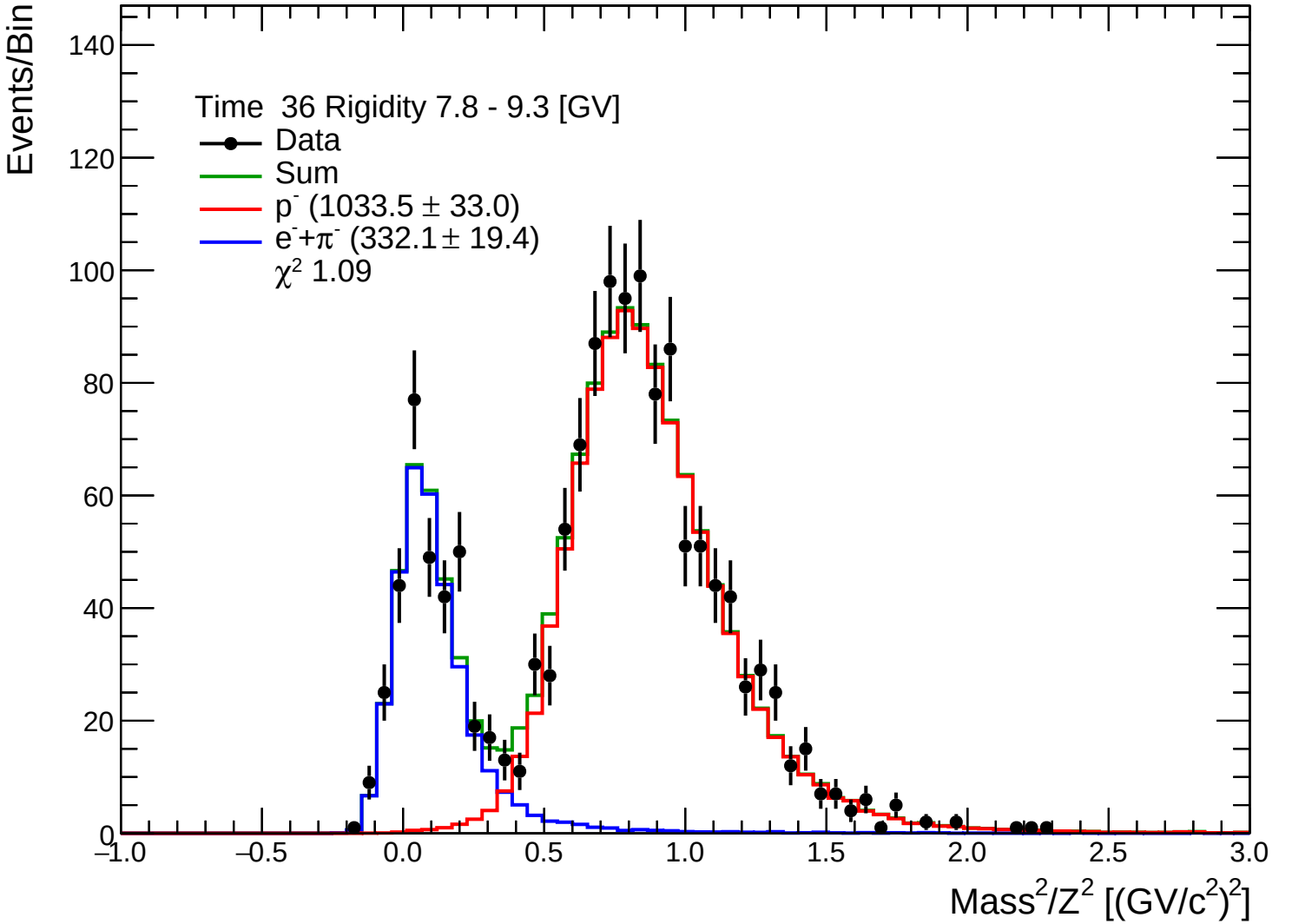

Events/Bin
450
400
350
300
250
200
150
100
50
0
830
835
840
845
850
855
860
865
870
875
Number [Temp 0]

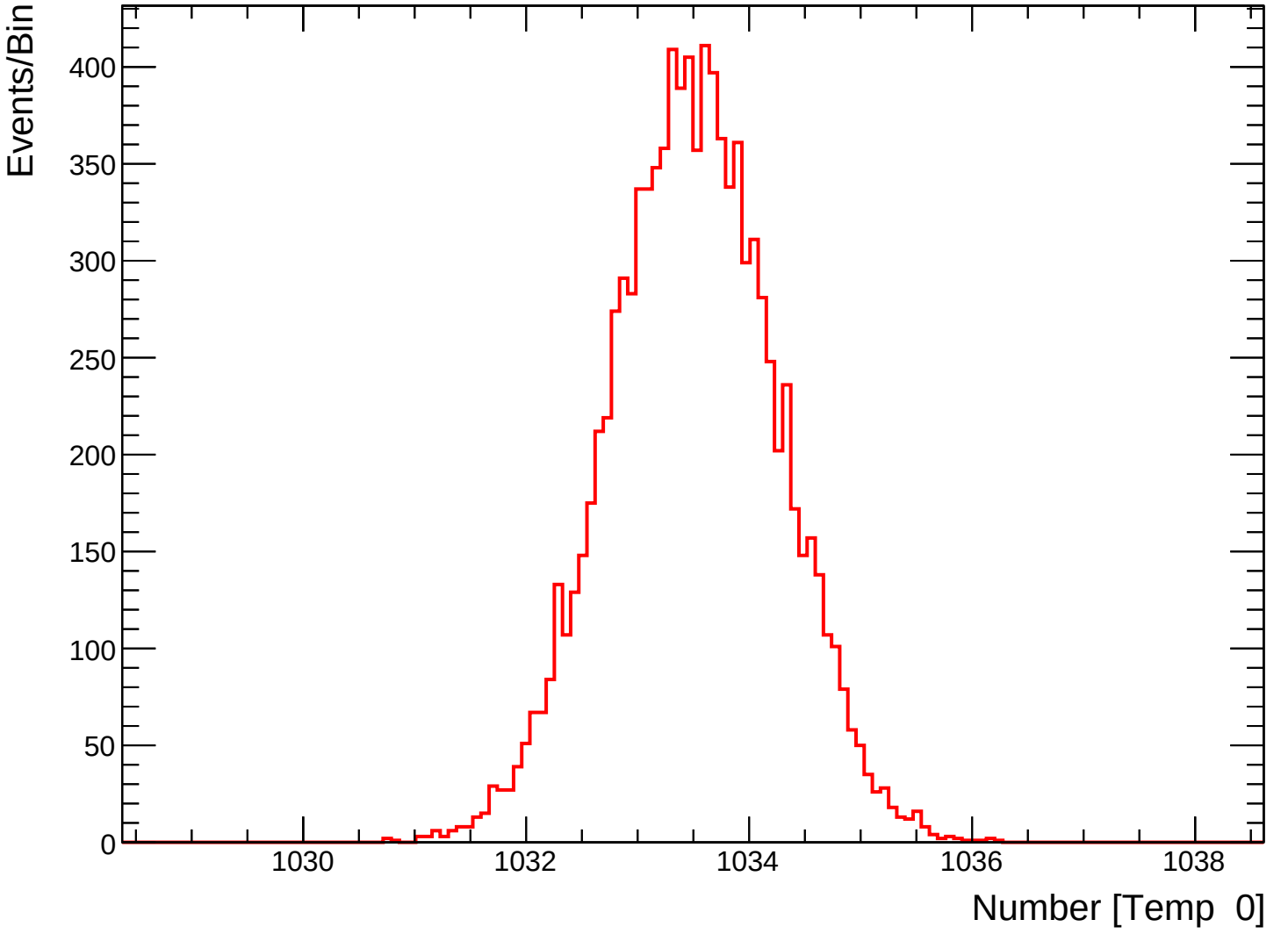

Time 36 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (1061.7 ± 34.4)
e⁻+π⁻ (0.0 ± 9.5)
χ² 1.17
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

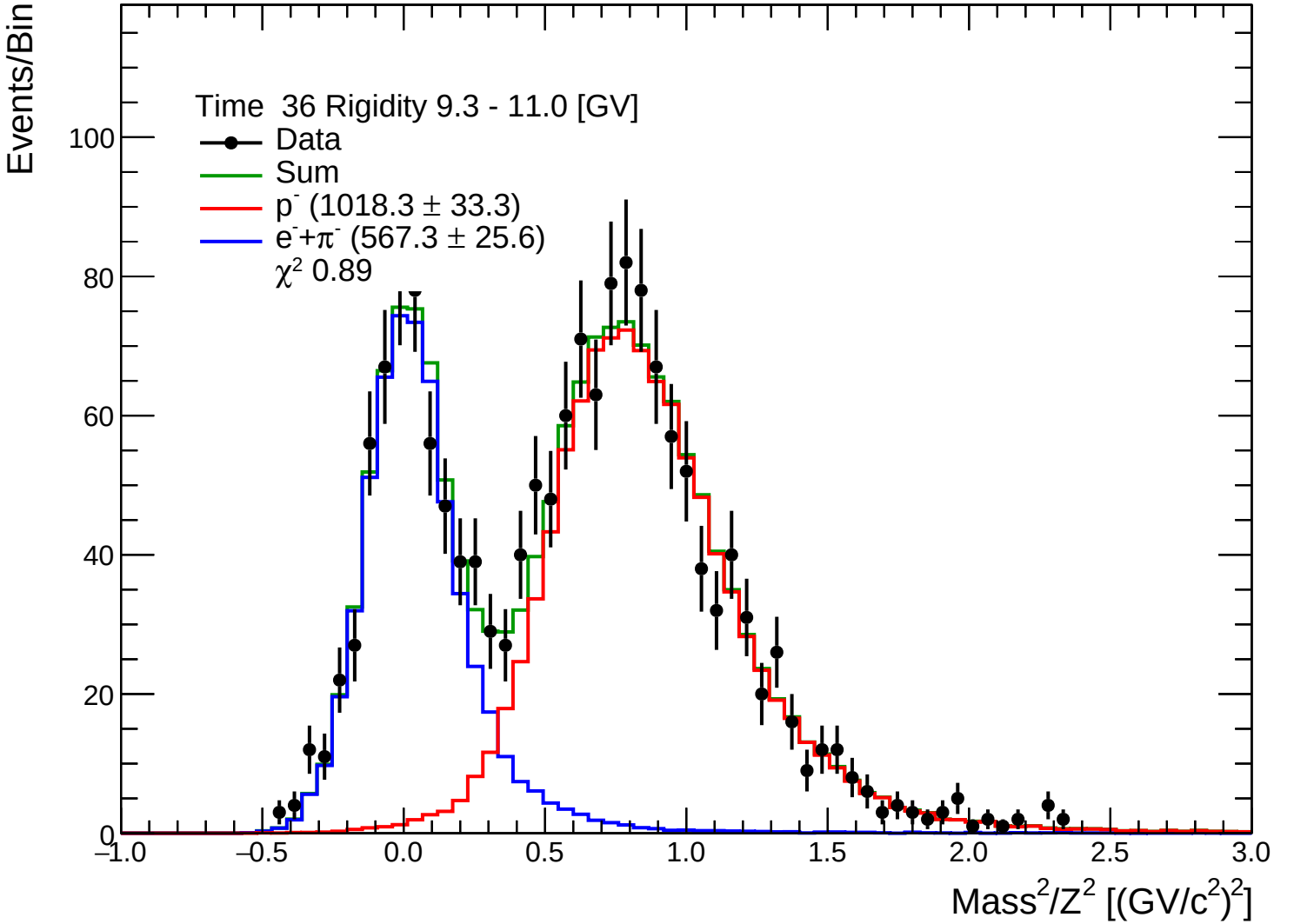

Events/Bin
1200
1000
800
600
400
200
0
1030
1040
1050
1060
1070
1080
1090
1100
Number [Temp 0]

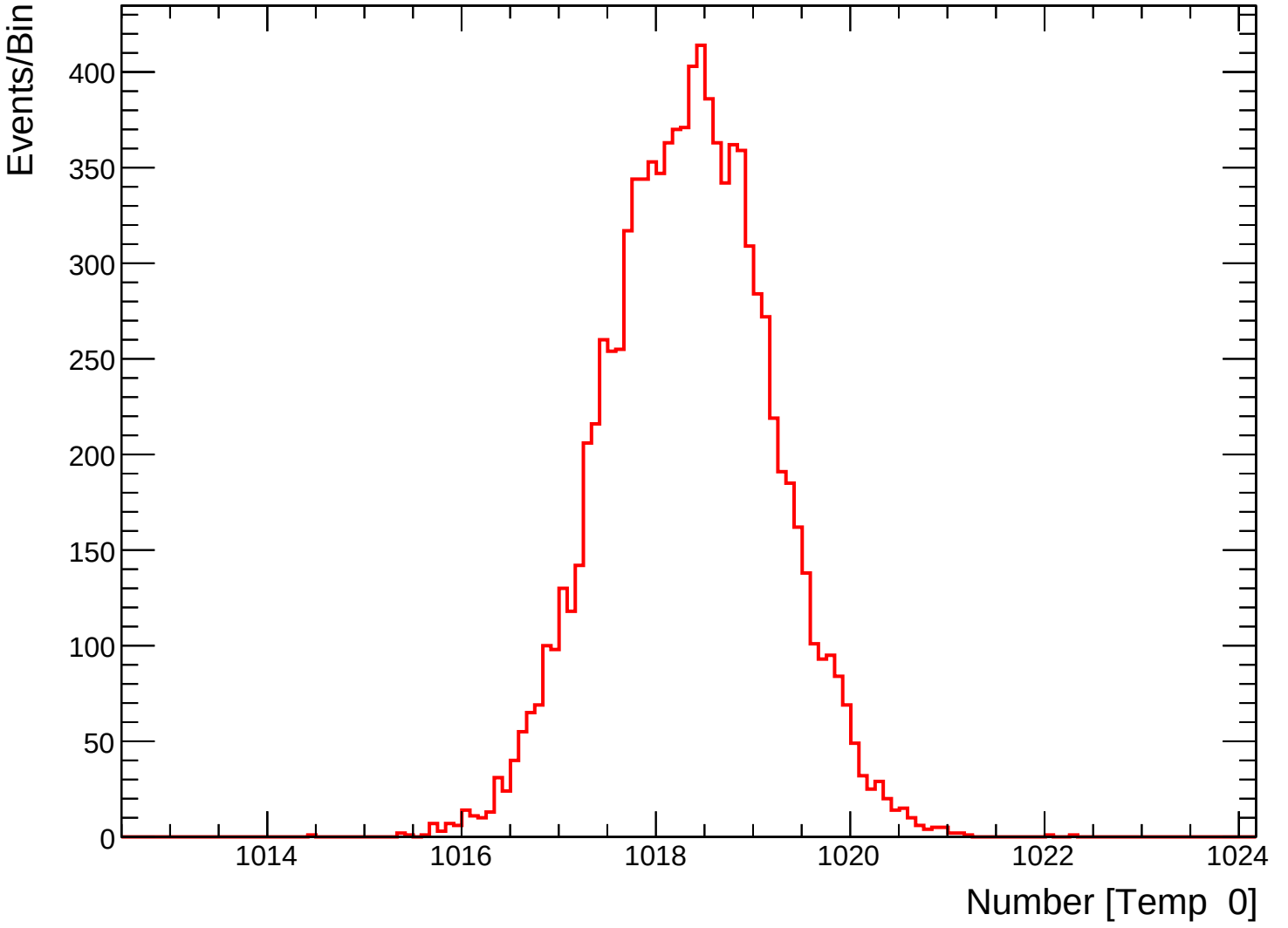

Time 36 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (1139.9 ± 34.3)
e⁻+π⁻ (60.0 ± 9.1)
χ² 1.00
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
160
180
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

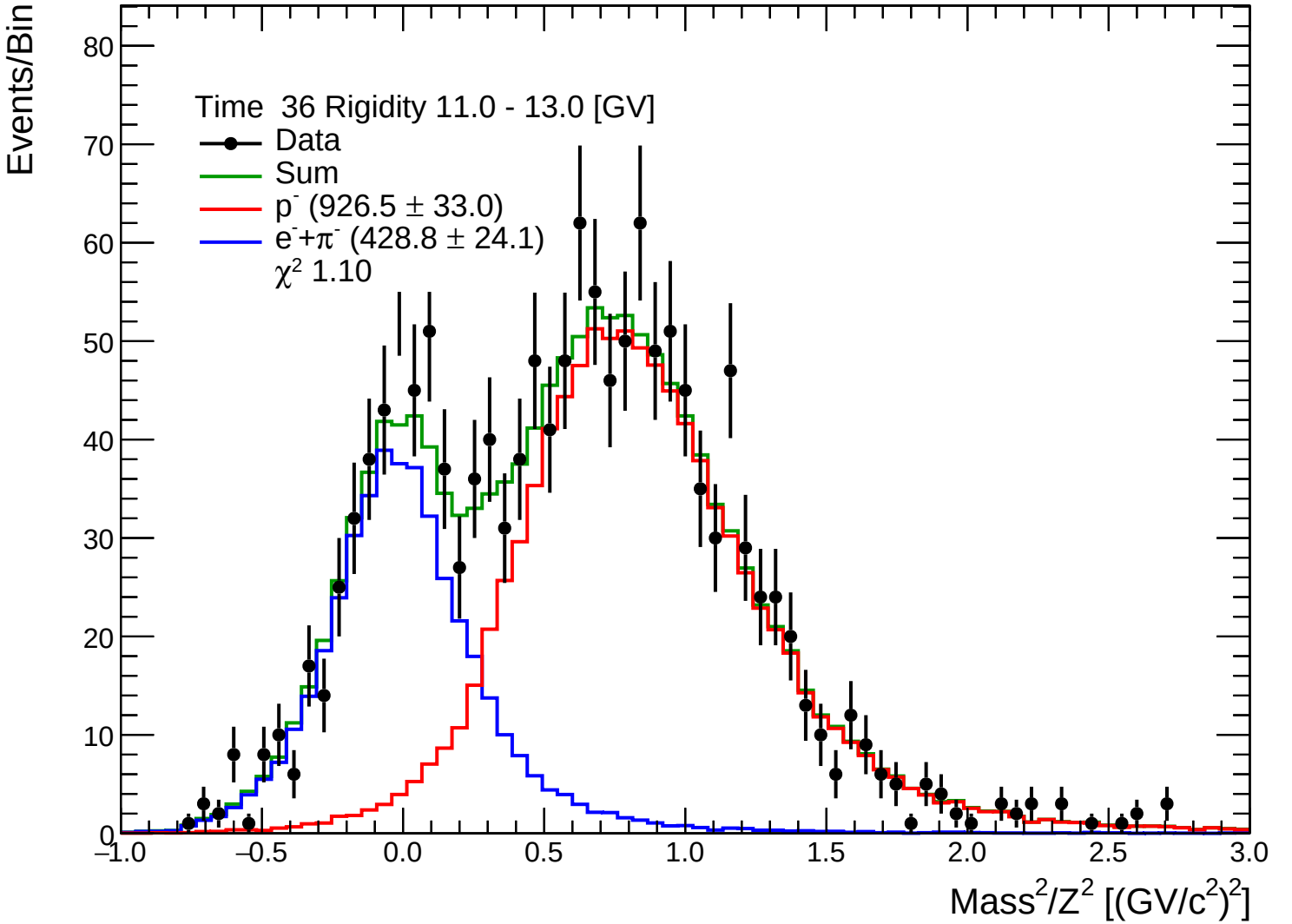

Events/Bin
400
350
300
250
200
150
100
50
0
1136
1137
1138
1139
1140
1141
1142
1143
1144
Number [Temp 0]

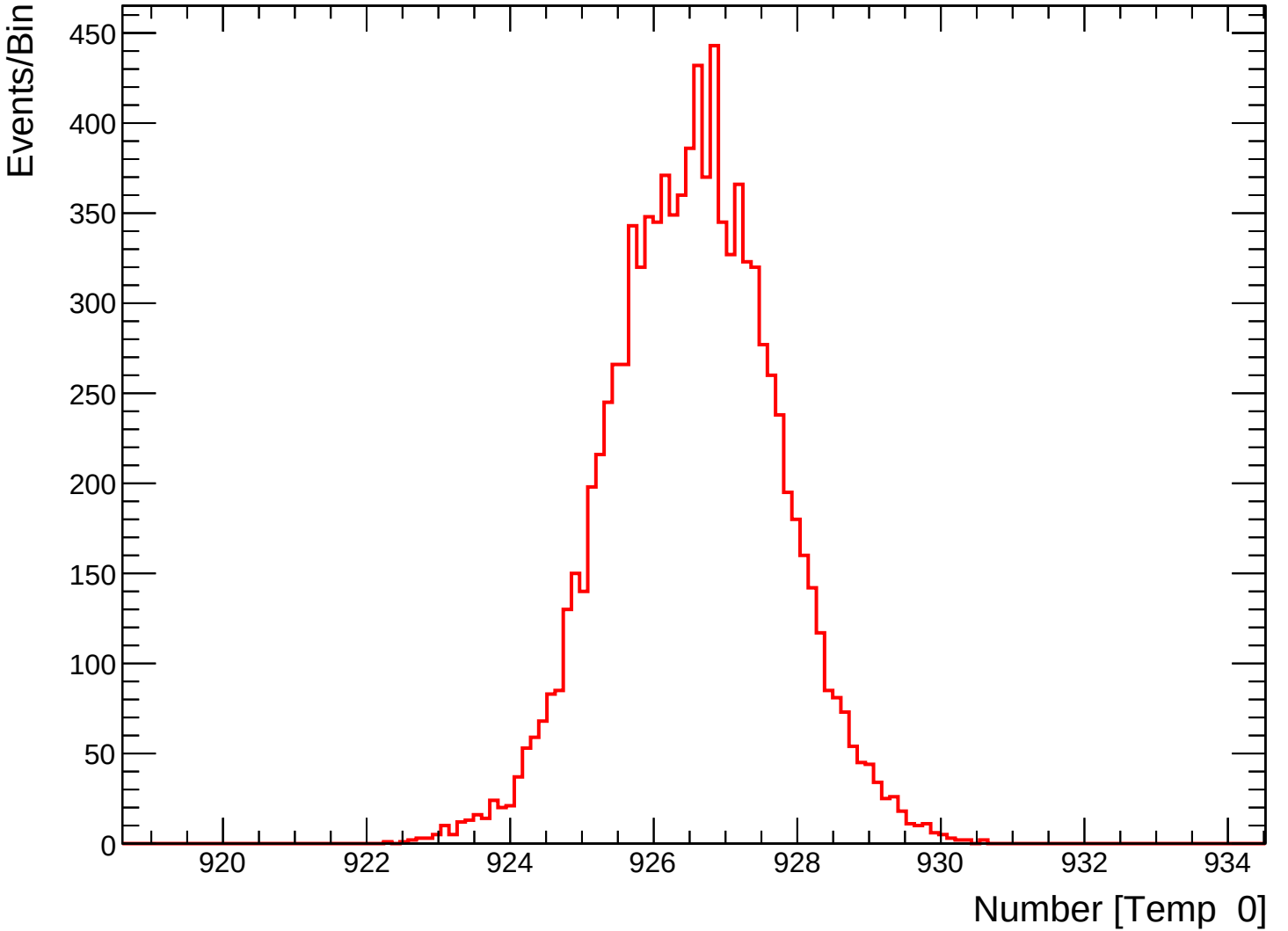

Time 36 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (1033.5 ± 33.0)
e⁻+π⁻ (332.1 ± 19.4)
χ² 1.09
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
120
140
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

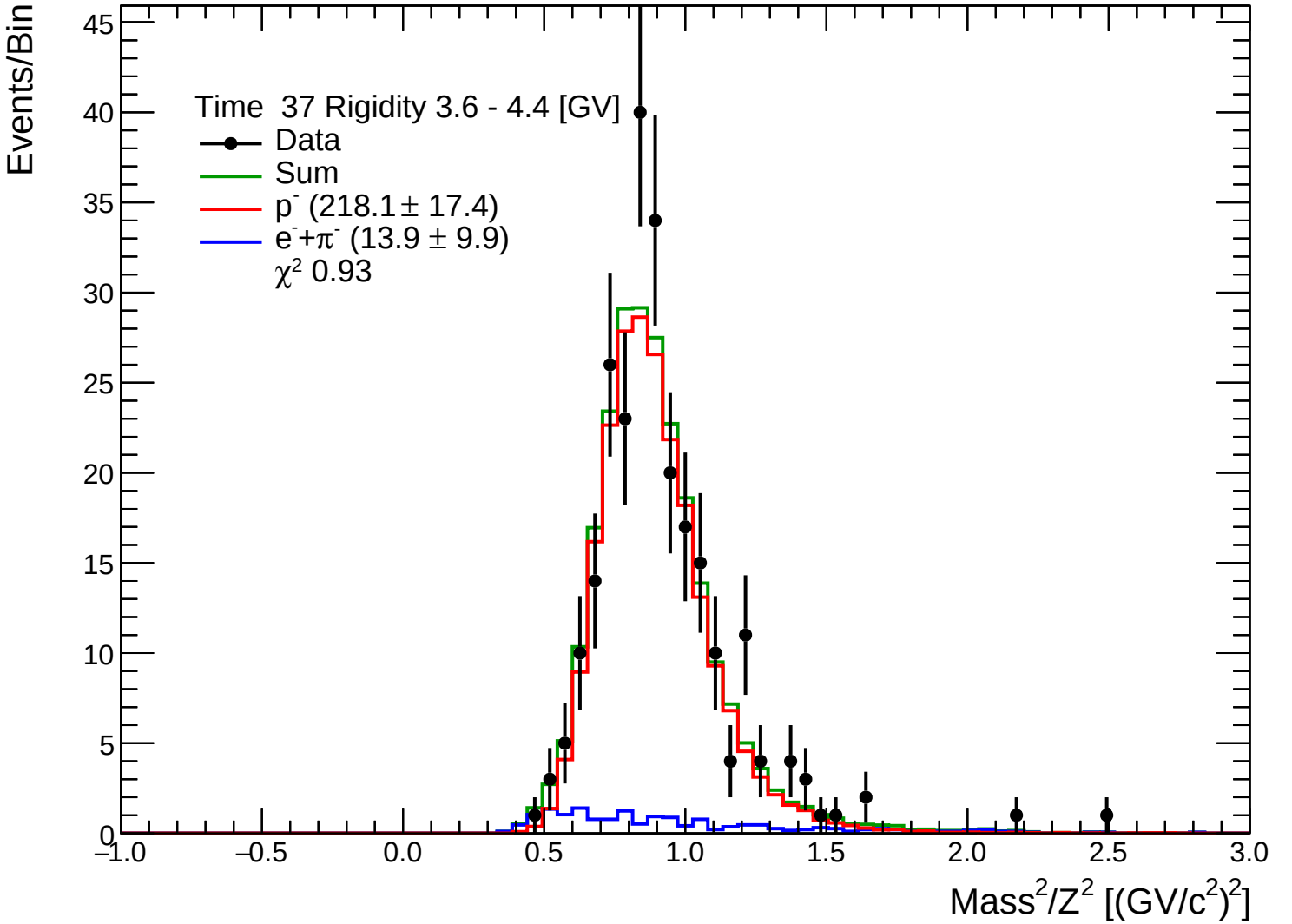

Events/Bin
400
350
300
250
200
150
100
50
0
1030
1032
1034
1036
1038
Number [Temp 0]

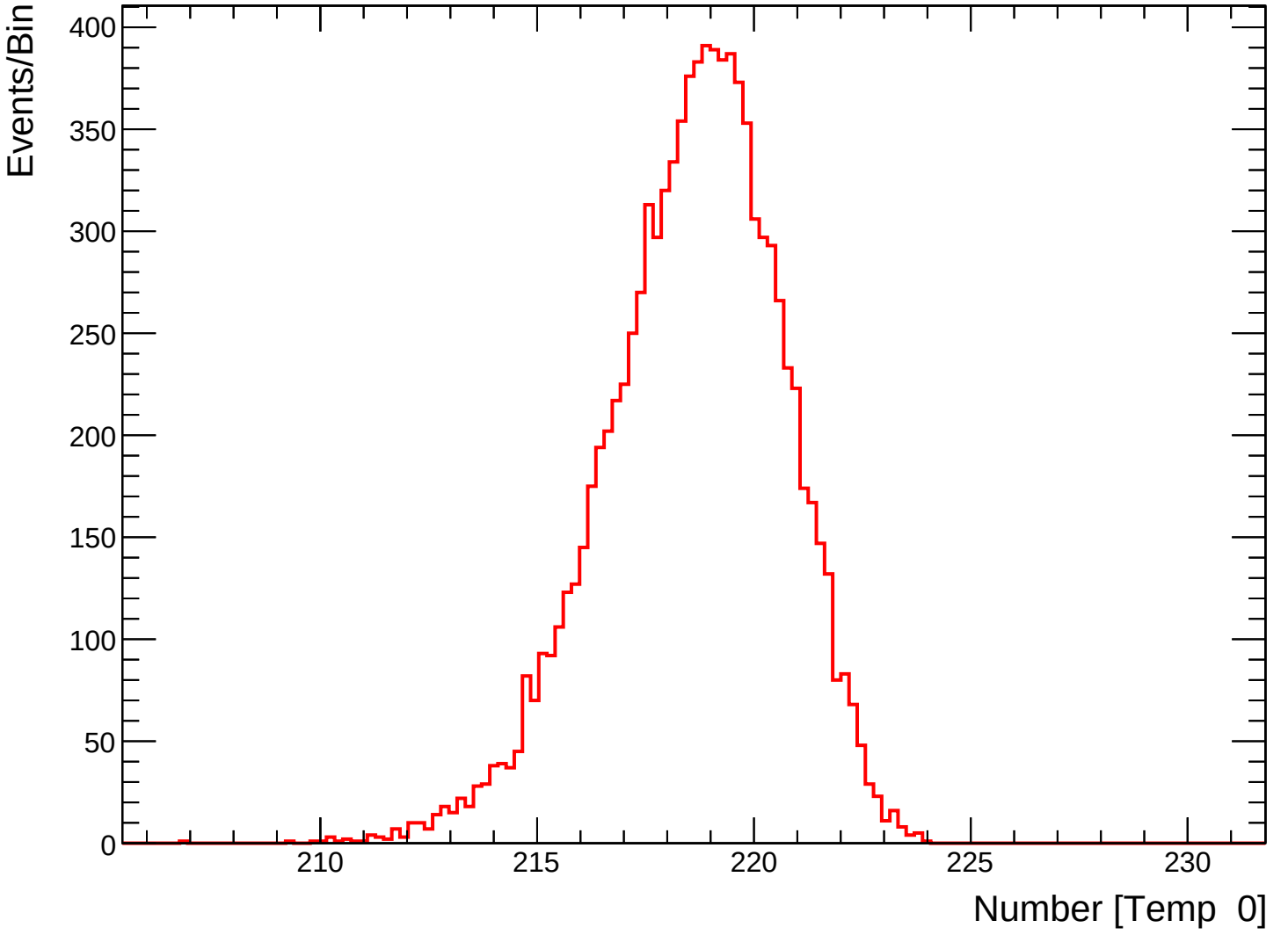

Time 36 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (1018.3 ± 33.3)
e⁻+π⁻ (567.3 ± 25.6)
χ² 0.89
Events/Bin
Mass²/Z² [(GV/c²)²]
0
20
40
60
80
100
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

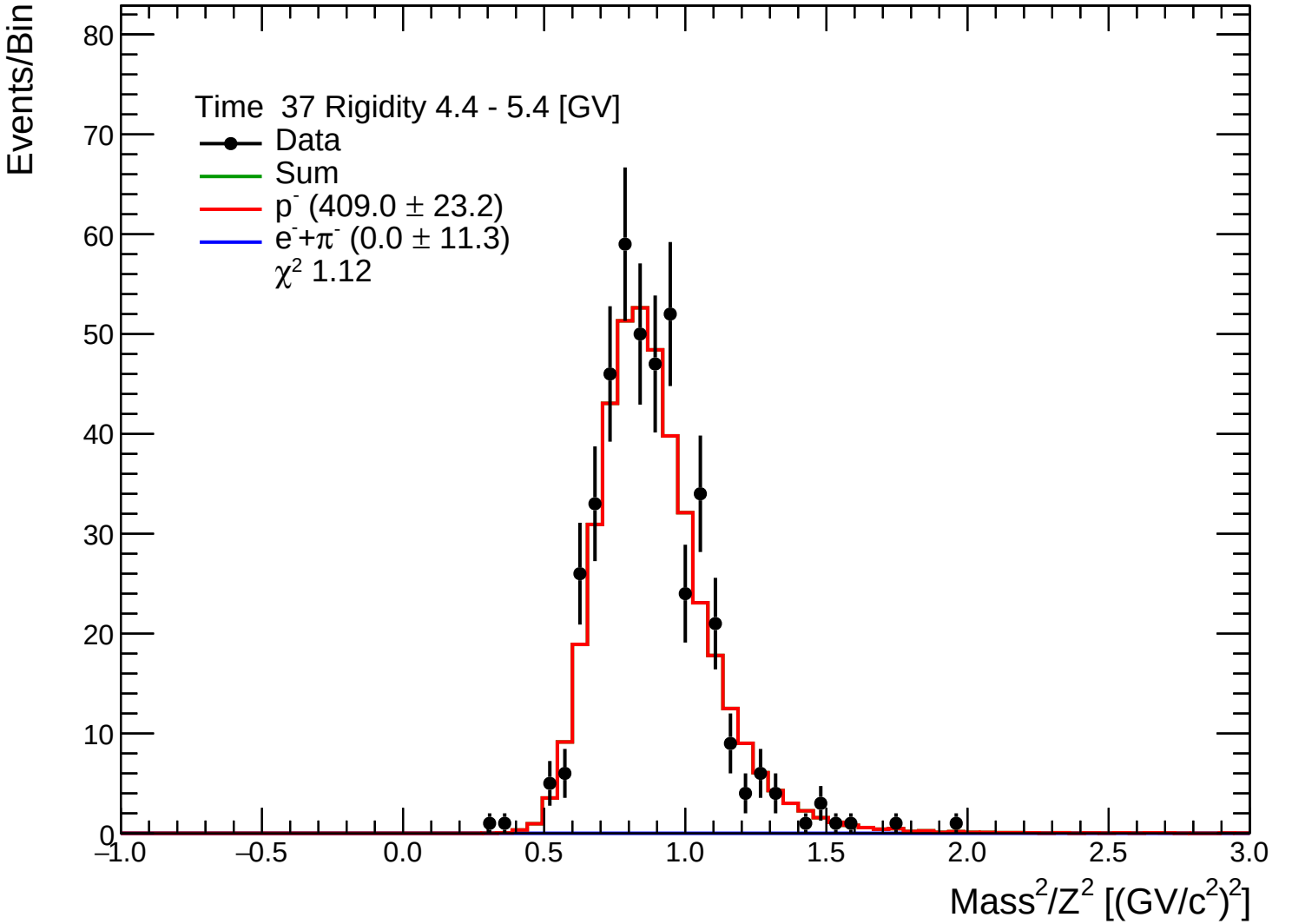

Events/Bin
400
350
300
250
200
150
100
50
0
1014
1016
1018
1020
1022
1024
Number [Temp 0]

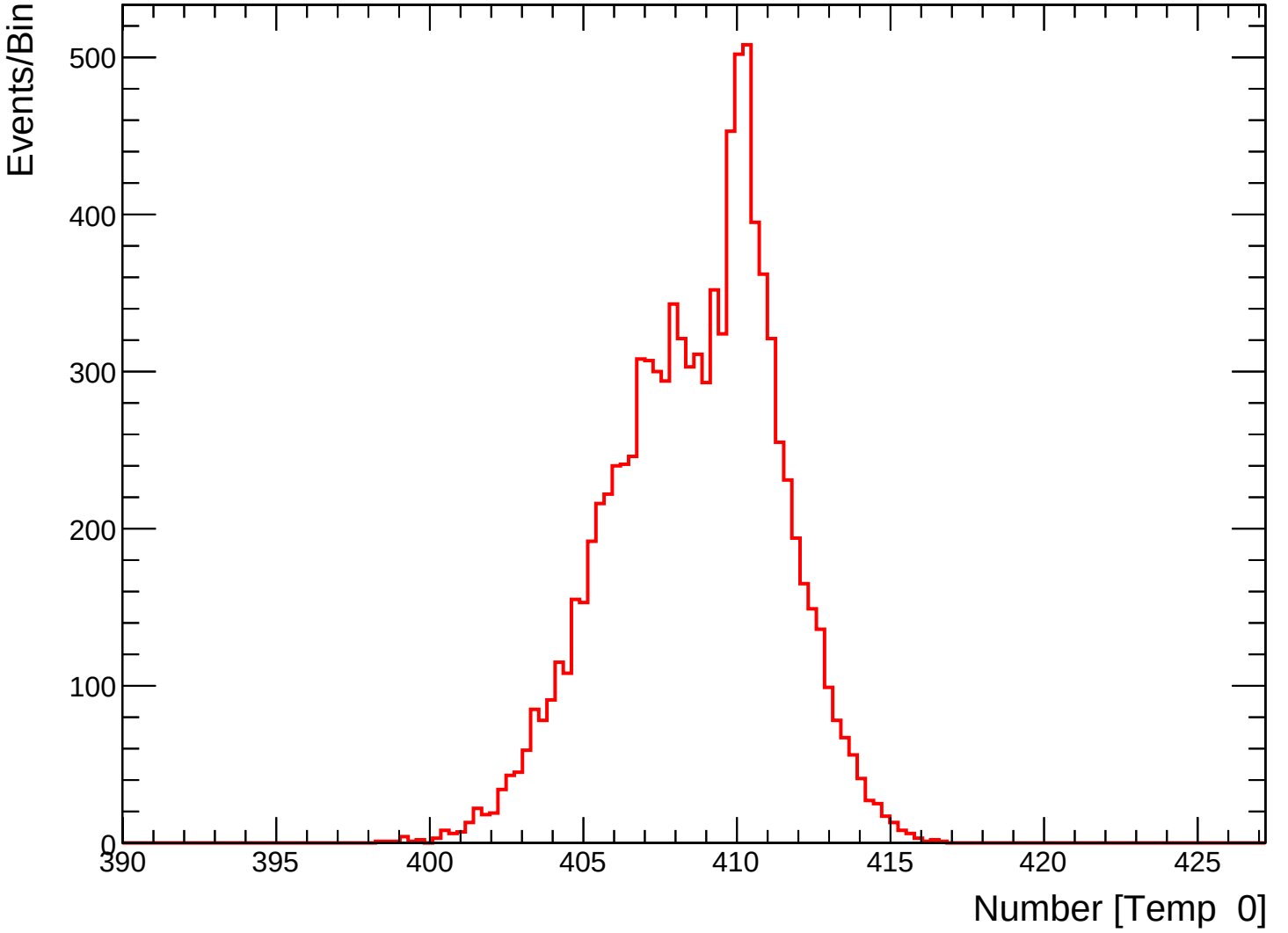

Time 36 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (926.5 ± 33.0)
e⁻+π⁻ (428.8 ± 24.1)
χ² 1.10
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

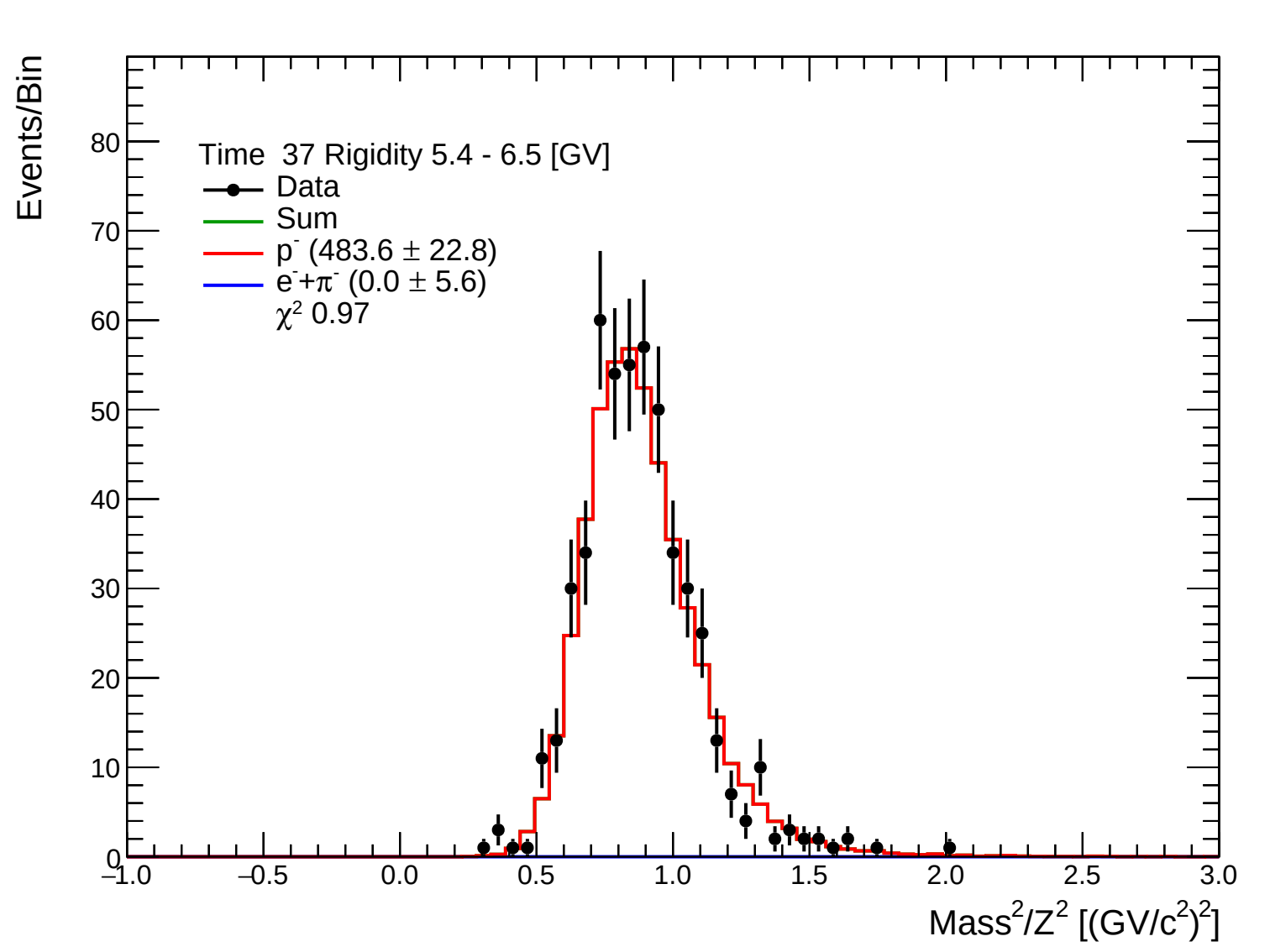

Events/Bin
450
400
350
300
250
200
150
100
50
0
920
922
924
926
928
930
932
934
Number [Temp 0]

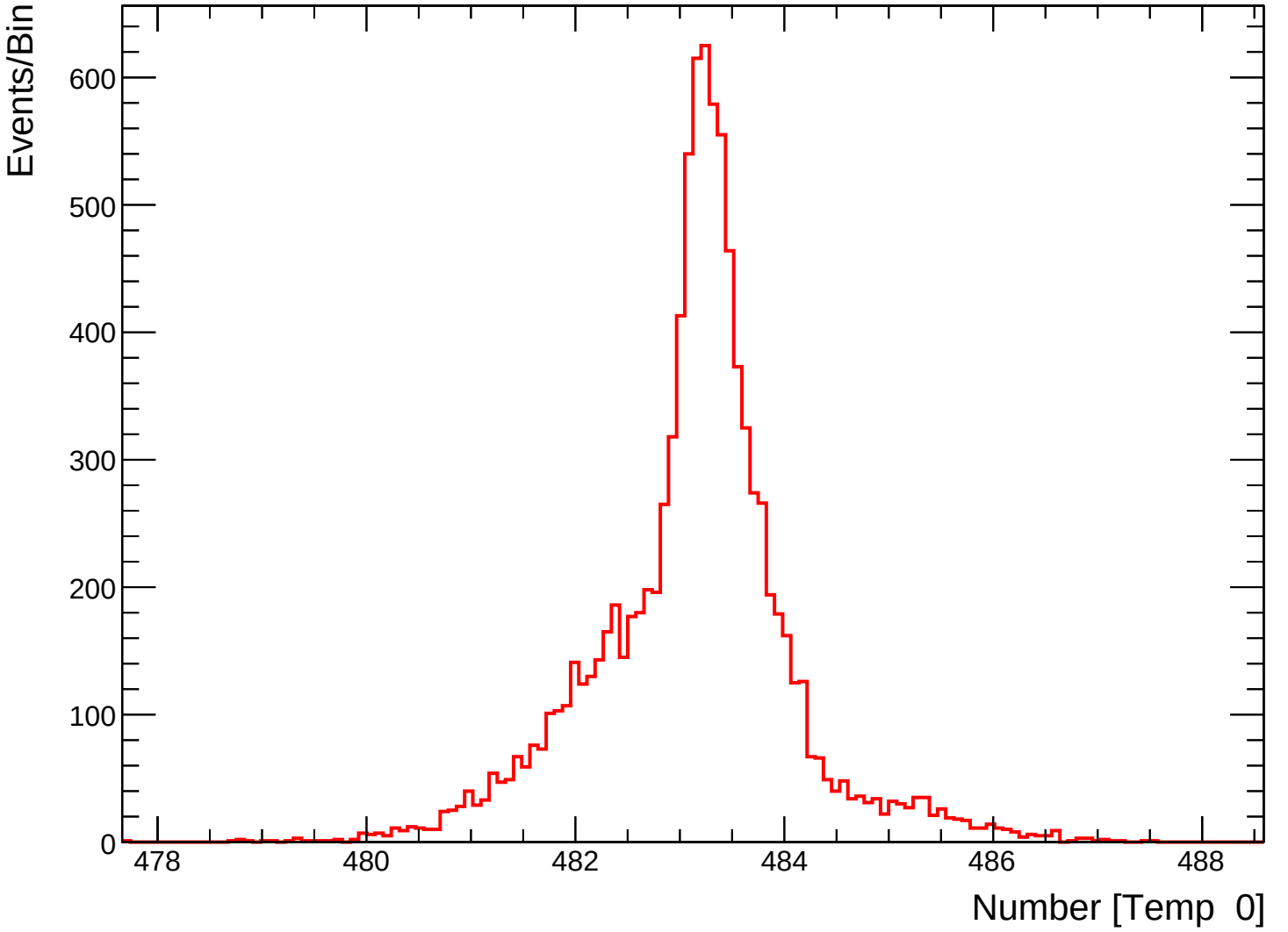

Time 37 Rigidity 3.6 - 4.4 [GV]
Data
Sum
p⁻ (218.1 ± 17.4)
e⁻+π⁻ (13.9 ± 9.9)
χ² 0.93
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
35
40
45
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

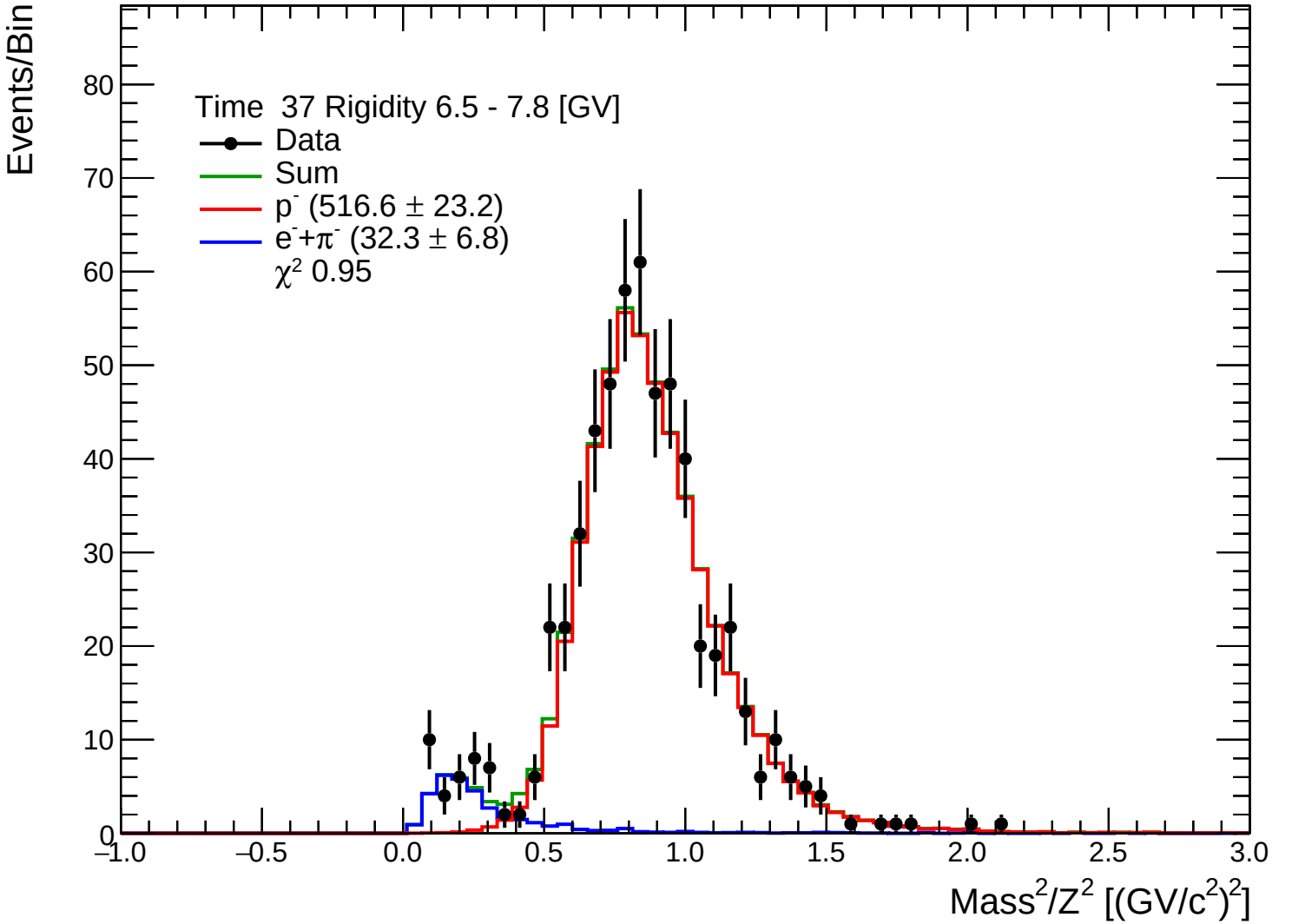

Events/Bin
400
350
300
250
200
150
100
50
0
210
215
220
225
230
Number [Temp 0]

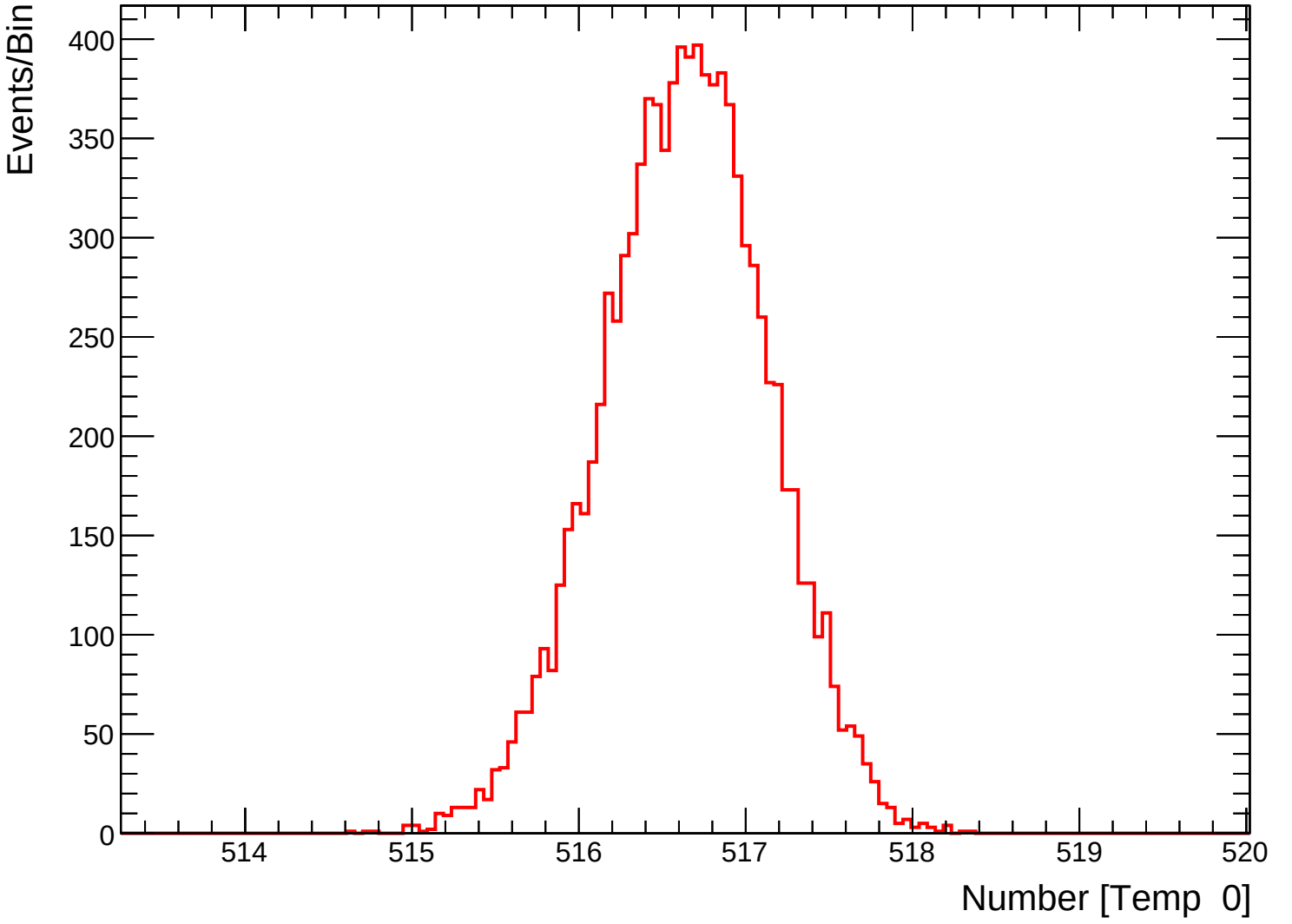

Time 37 Rigidity 4.4 - 5.4 [GV]
Data
Sum
p⁻ (409.0 ± 23.2)
e⁻+π⁻ (0.0 ± 11.3)
χ² 1.12
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

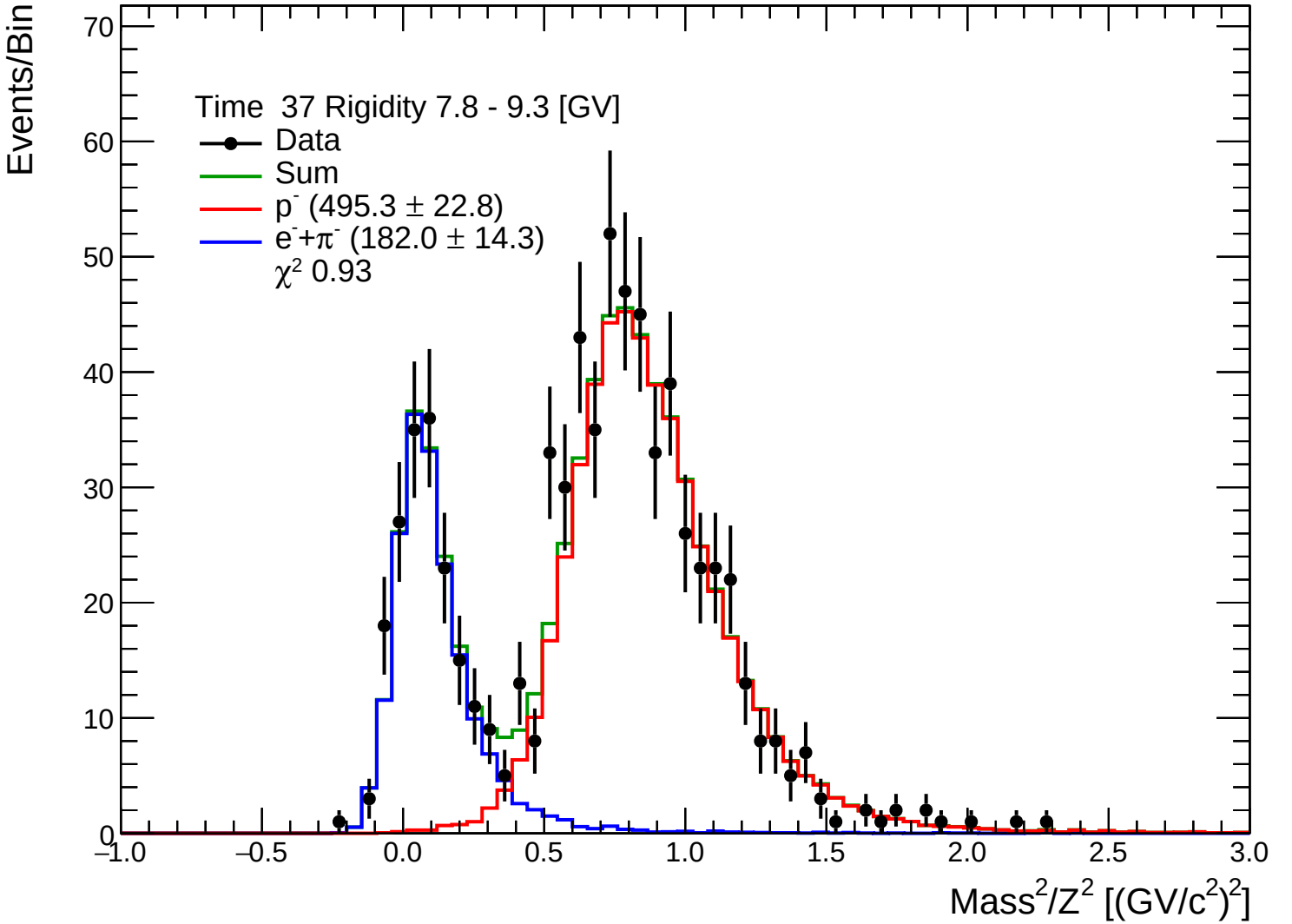

Events/Bin
500
400
300
200
100
0
390
395
400
405
410
415
420
425
Number [Temp 0]

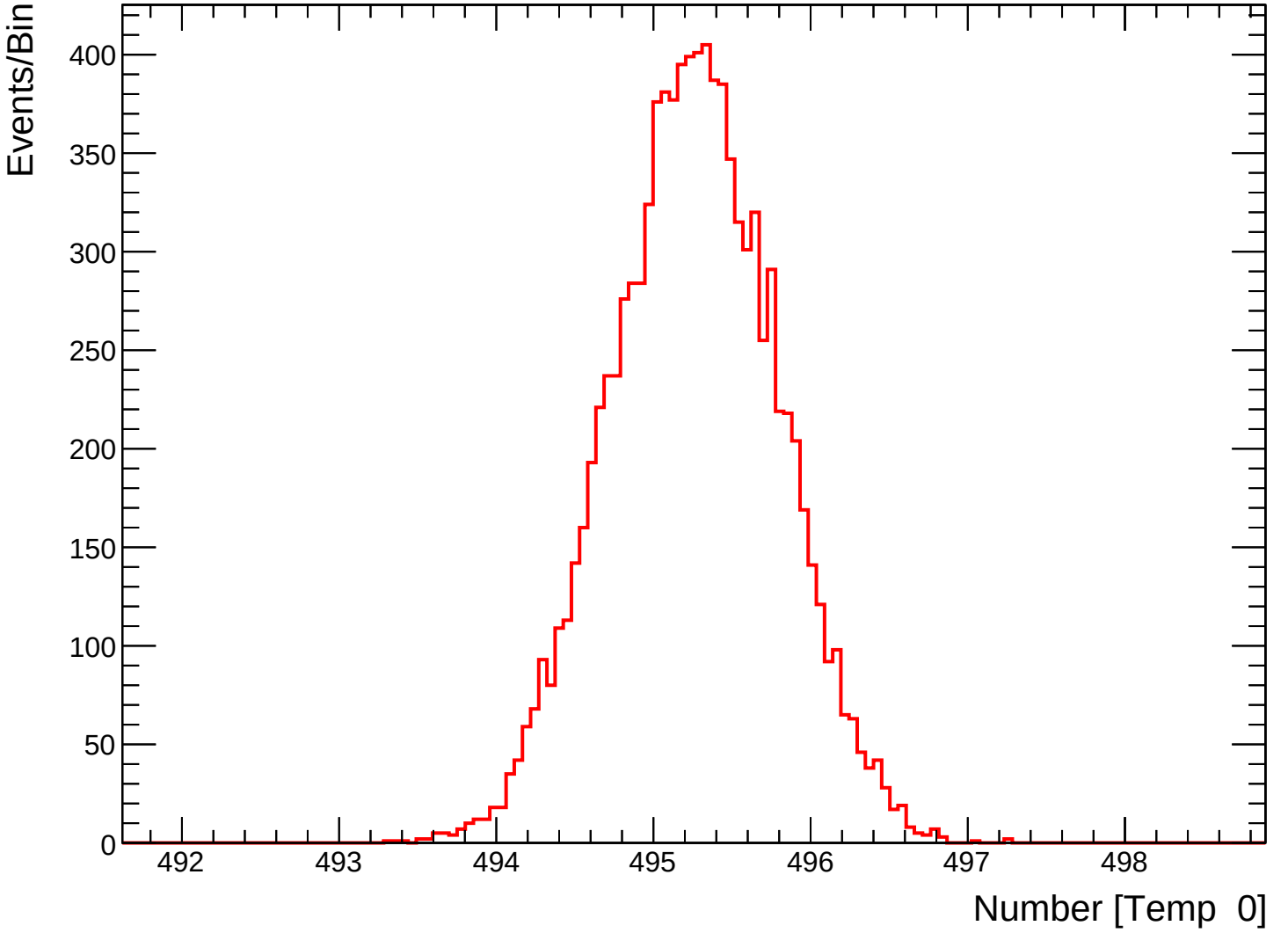

Time 37 Rigidity 5.4 - 6.5 [GV]
Data
Sum
p⁻ (483.6 ± 22.8)
e⁻+π⁻ (0.0 ± 5.6)
χ² 0.97
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

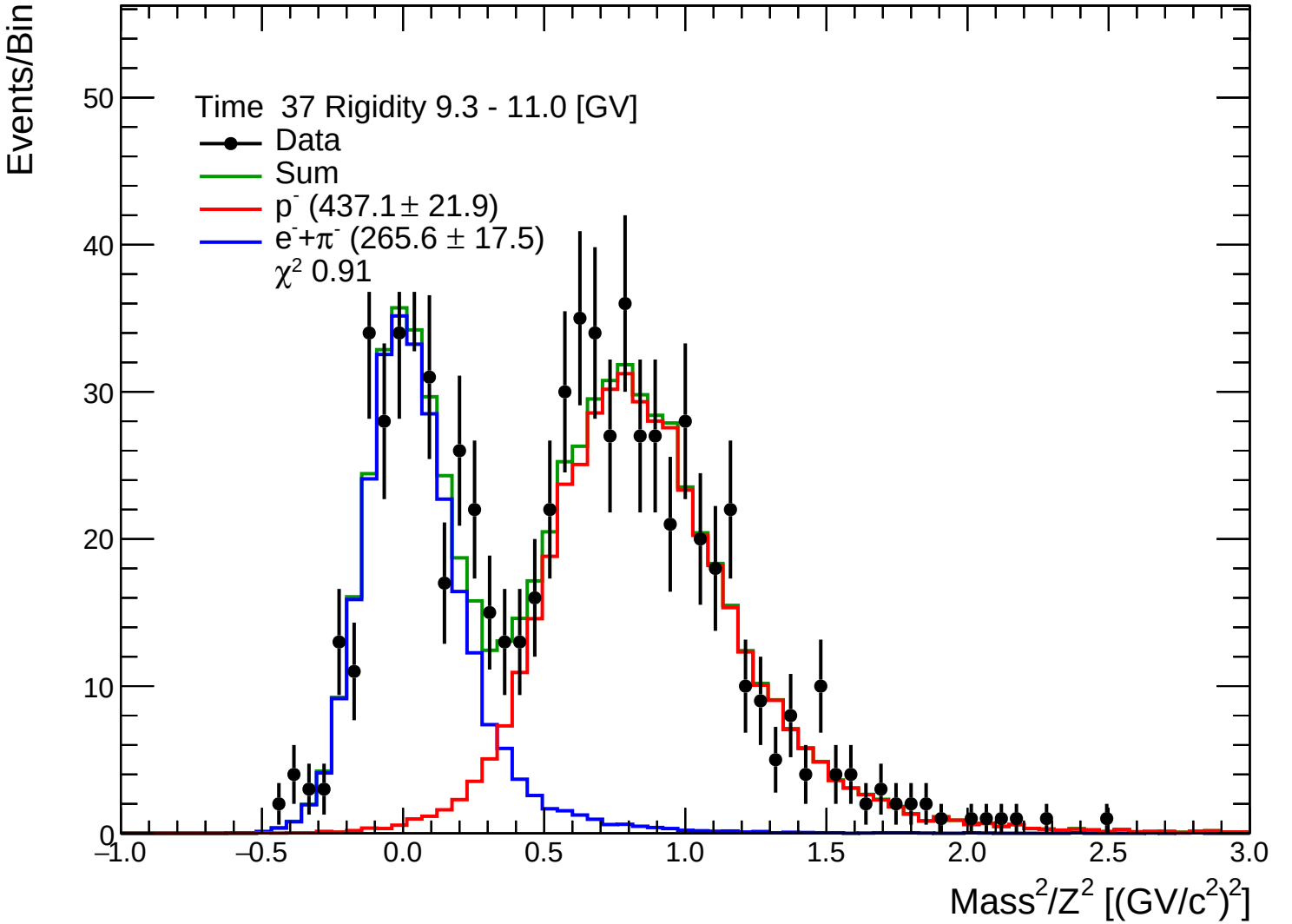

Events/Bin
600
500
400
300
200
100
0
478
480
482
484
486
488
Number [Temp 0]

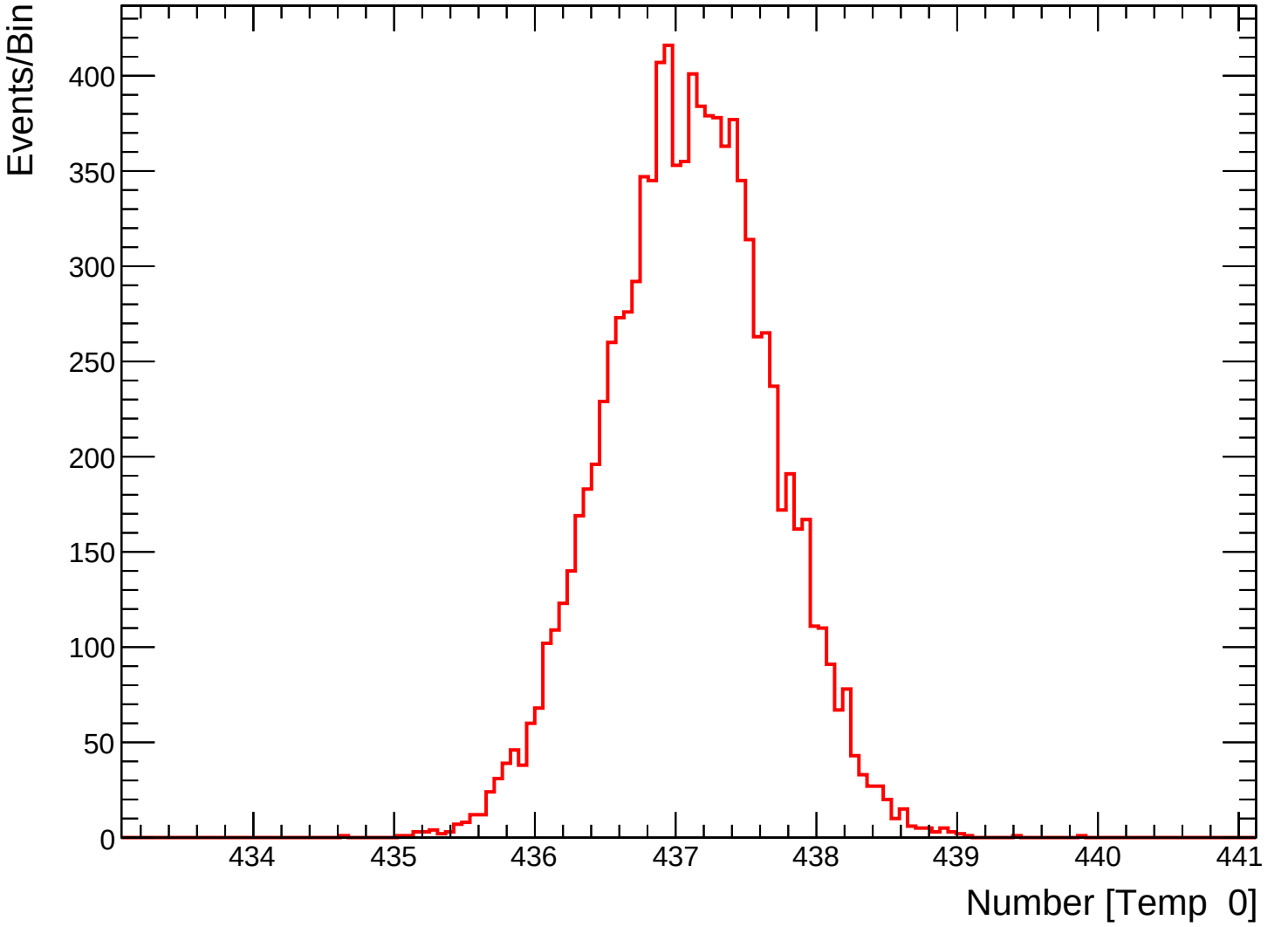

Time 37 Rigidity 6.5 - 7.8 [GV]
Data
Sum
p⁻ (516.6 ± 23.2)
e⁻+π⁻ (32.3 ± 6.8)
χ² 0.95
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
80
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

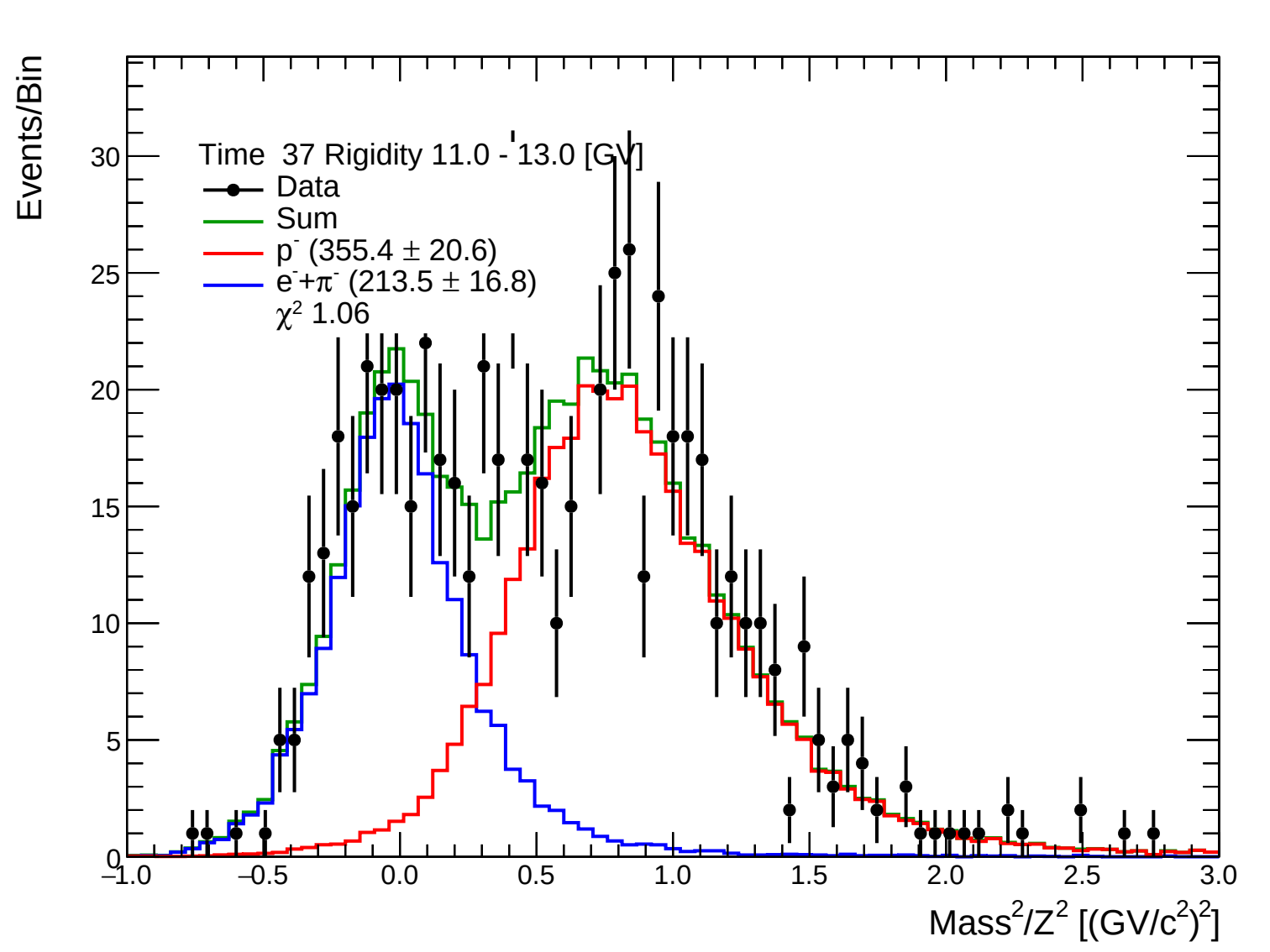

Events/Bin
400
350
300
250
200
150
100
50
0
514
515
516
517
518
519
520
Number [Temp 0]

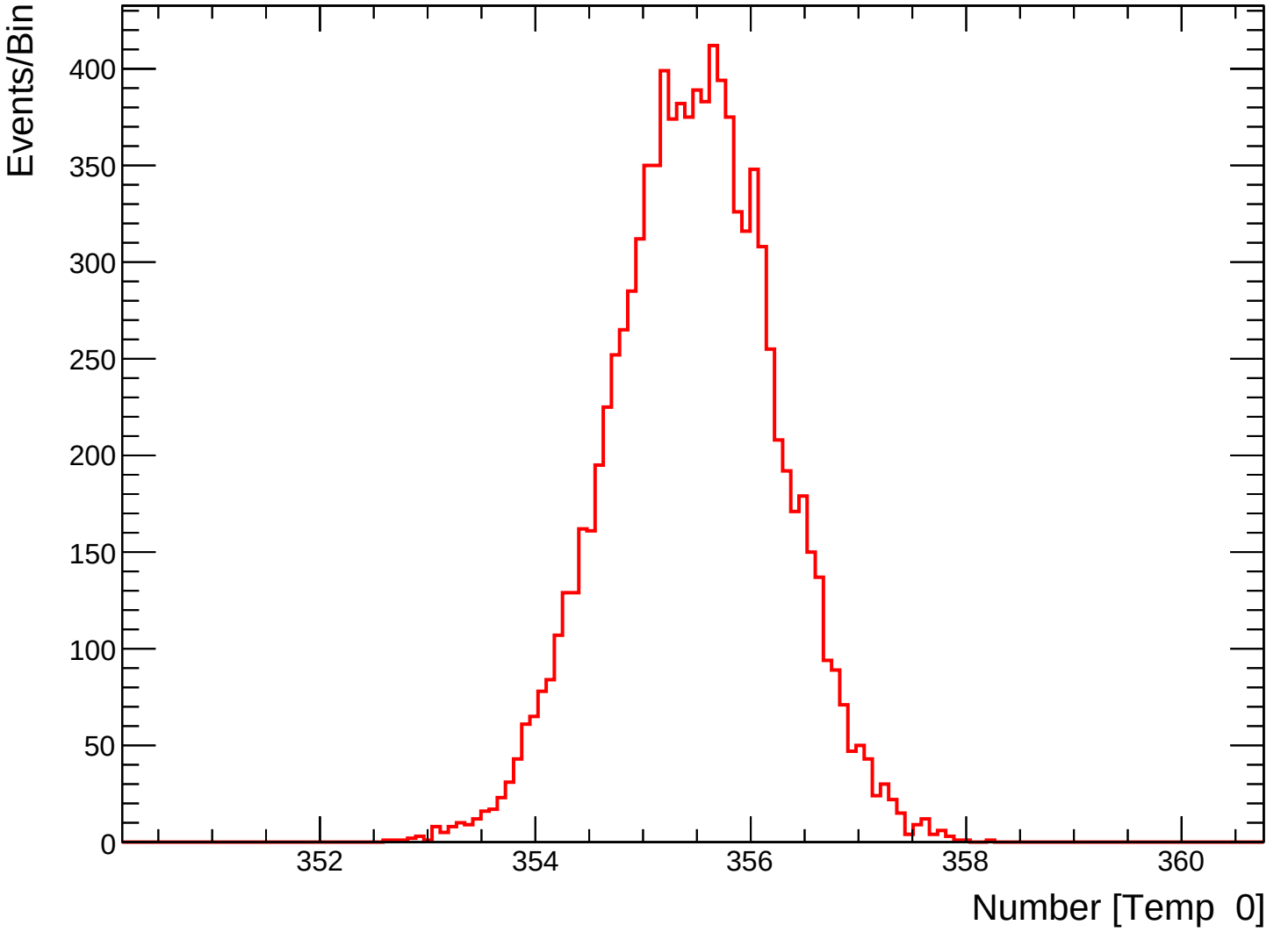

Time 37 Rigidity 7.8 - 9.3 [GV]
Data
Sum
p⁻ (495.3 ± 22.8)
e⁻+π⁻ (182.0 ± 14.3)
χ² 0.93
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
60
70
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Events/Bin
400
350
300
250
200
150
100
50
0
492
493
494
495
496
497
498
Number [Temp 0]


Time 37 Rigidity 9.3 - 11.0 [GV]
Data
Sum
p⁻ (437.1 ± 21.9)
e⁻+π⁻ (265.6 ± 17.5)
χ² 0.91
Events/Bin
Mass²/Z² [(GV/c²)²]
0
10
20
30
40
50
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Events/Bin
400
350
300
250
200
150
100
50
0
434
435
436
437
438
439
440
441
Number [Temp 0]


Time 37 Rigidity 11.0 - 13.0 [GV]
Data
Sum
p⁻ (355.4 ± 20.6)
e⁻+π⁻ (213.5 ± 16.8)
χ² 1.06
Events/Bin
Mass²/Z² [(GV/c²)²]
0
5
10
15
20
25
30
–1.0
–0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Events/Bin
400
350
300
250
200
150
100
50
0
352
354
356
358
360
Number [Temp 0]

<< END >> apflux_tme3M_lrh