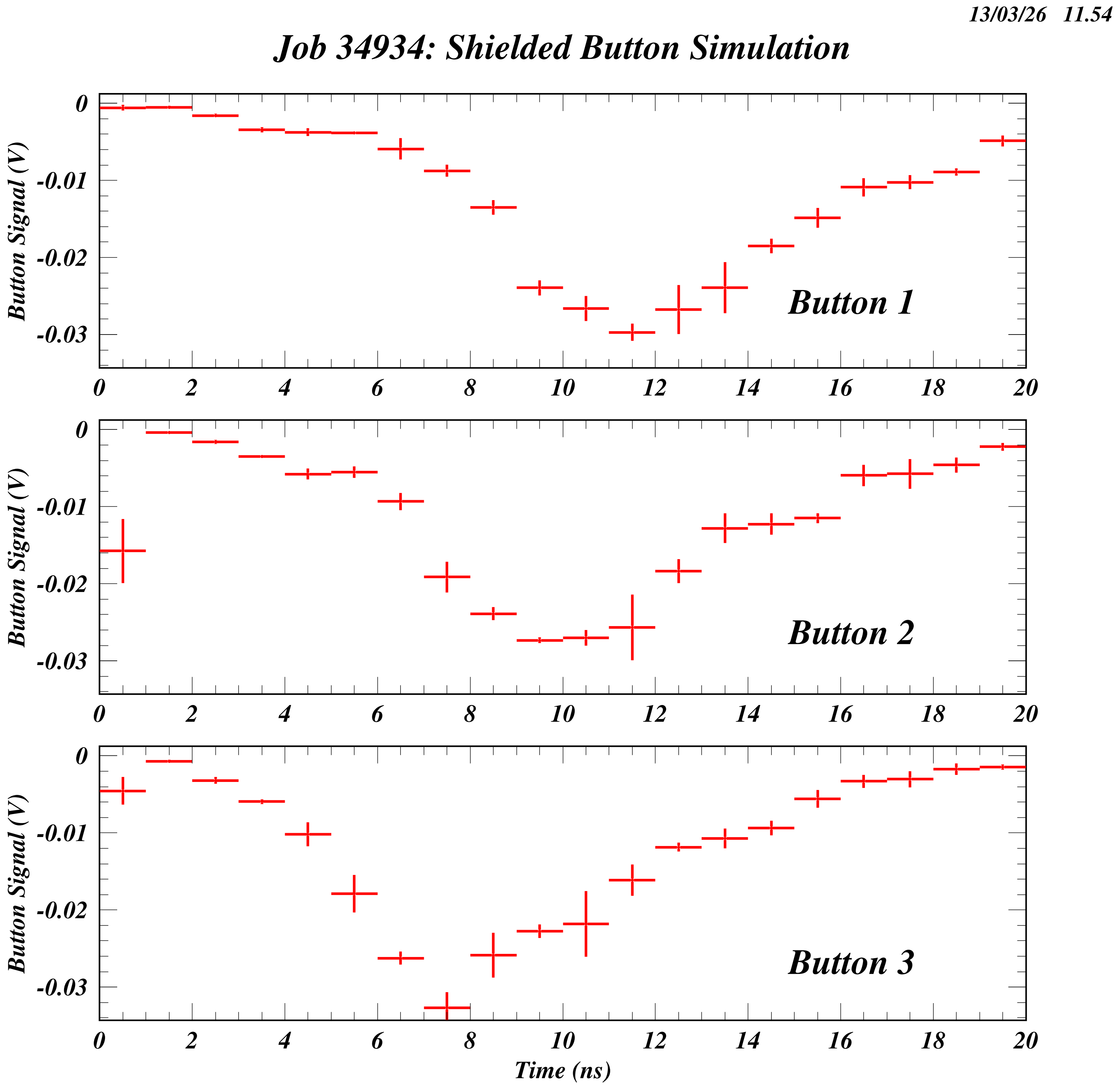
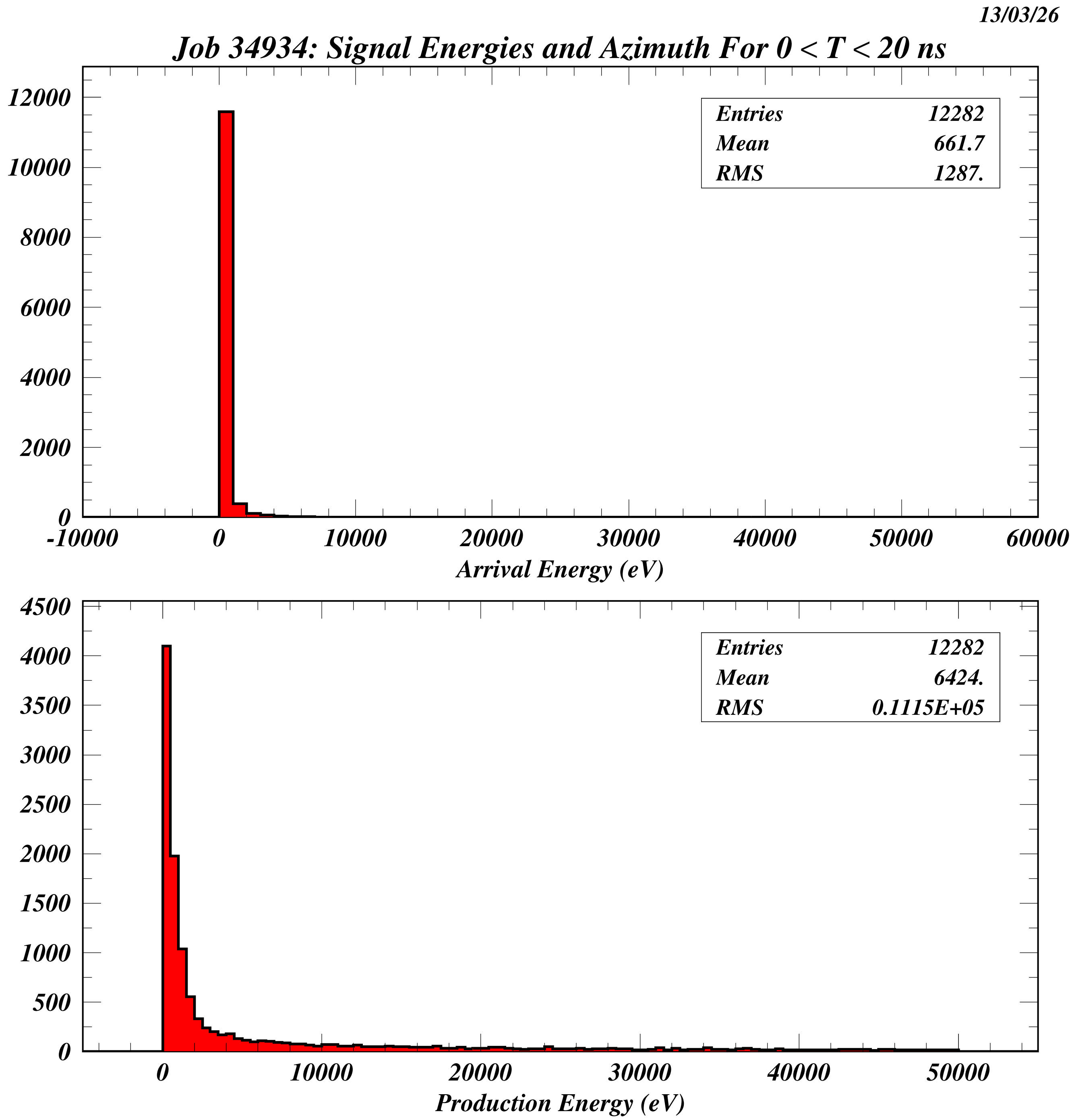
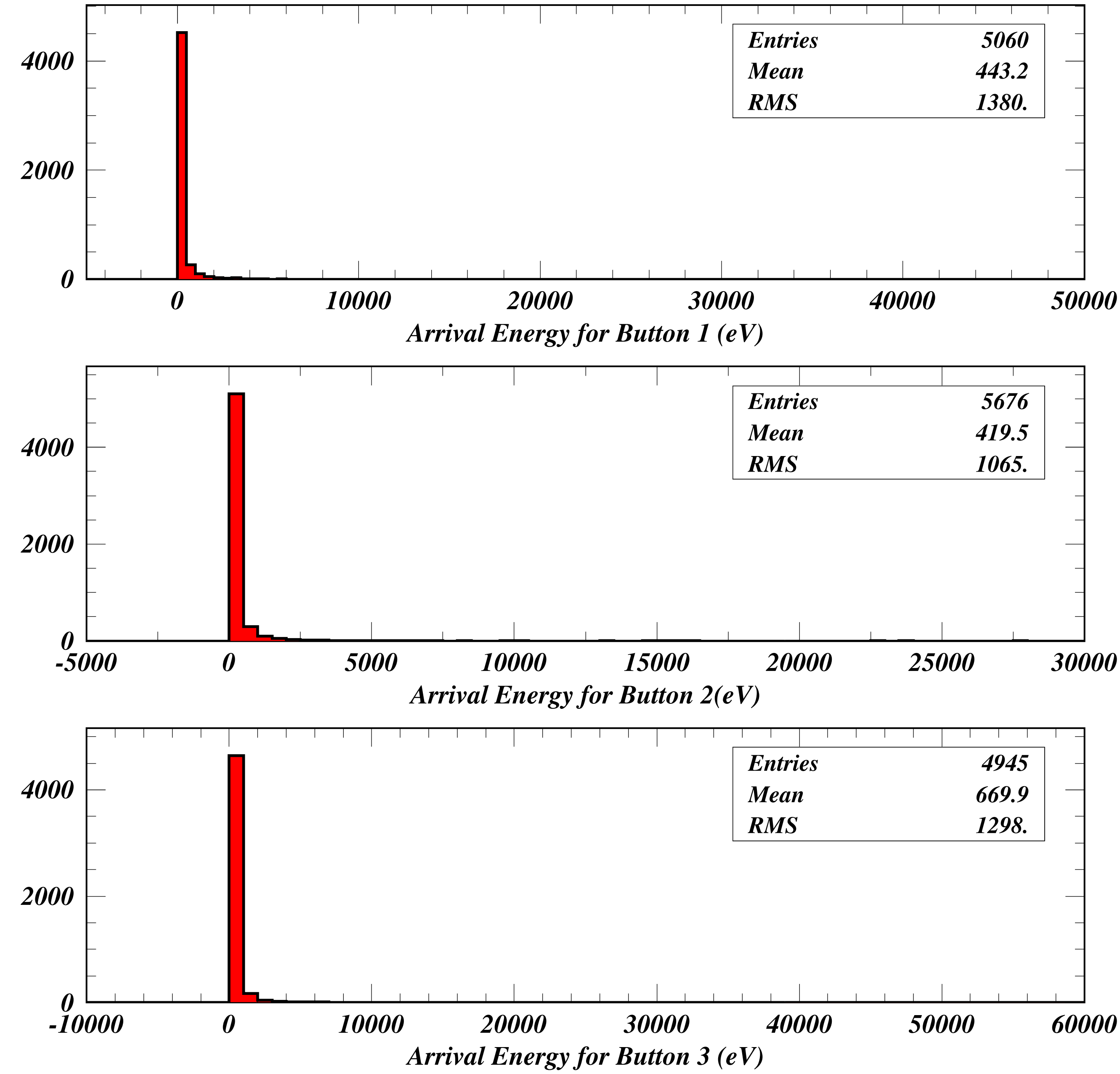


13/03/26 11.54
Job 34934: Shielded Button Simulation
Button Signal (V)
Button 1
Button 2
Button 3
0
-0.01
-0.02
-0.03
0 2 4 6 8 10 12 14 16 18 20
Time (ns)


13/03/26 11.54
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns
Entries 12282
Mean 661.7
RMS 1287.
12000
10000
8000
6000
4000
2000
0
-10000
0
10000
20000
30000
40000
50000
60000
Arrival Energy (eV)
Entries 12282
Mean 6424.
RMS 0.1115E+05
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
Production Energy (eV)

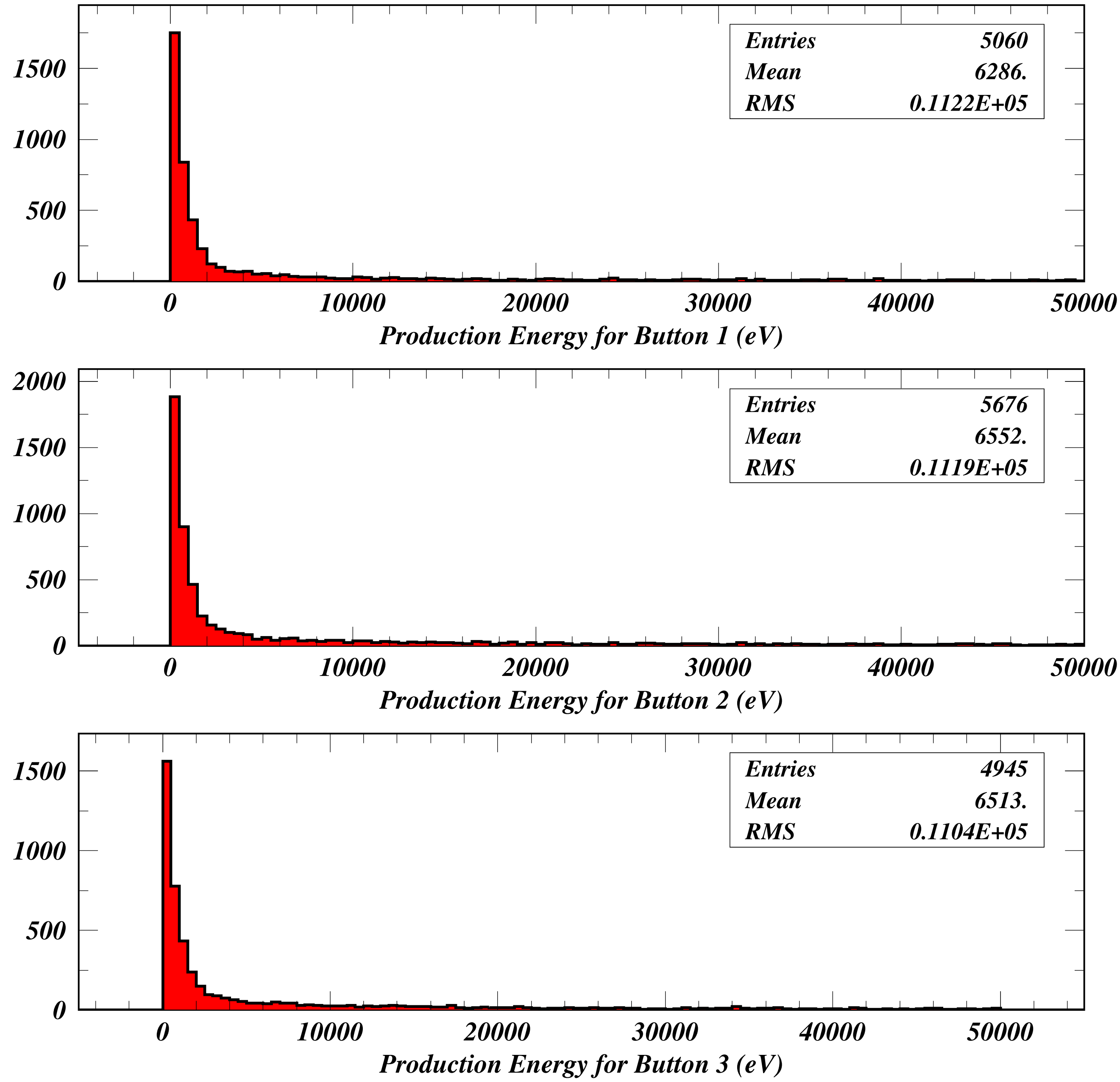
13/03/26 11.54

Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns



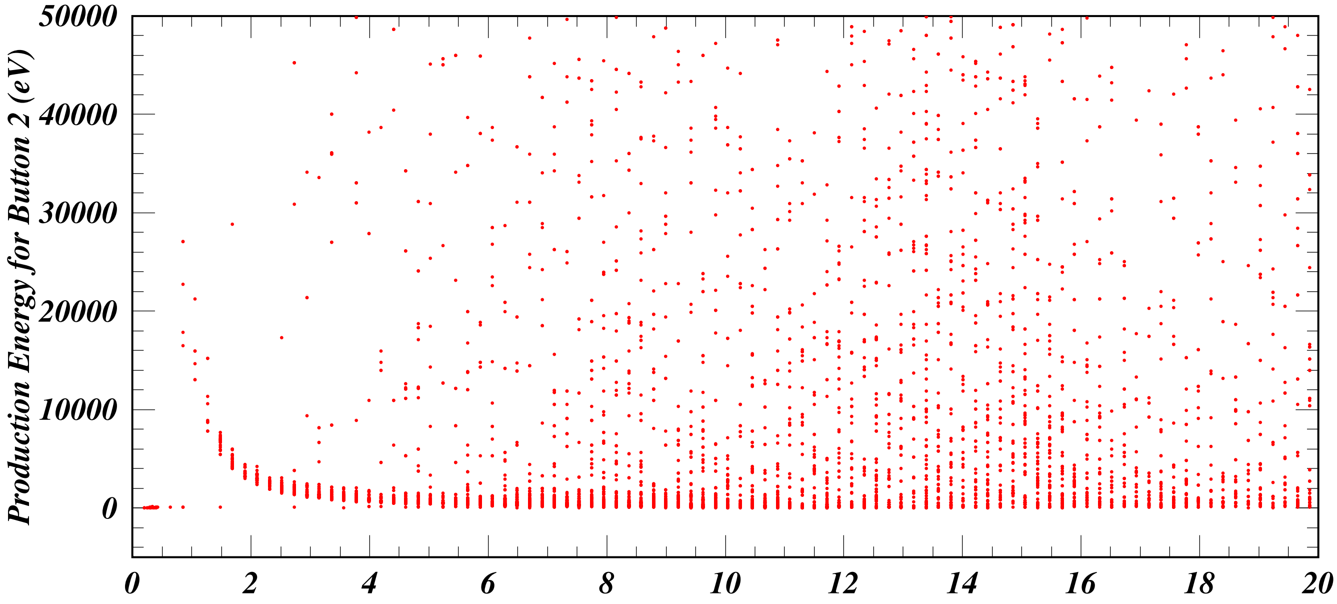
13/03/26 11.54

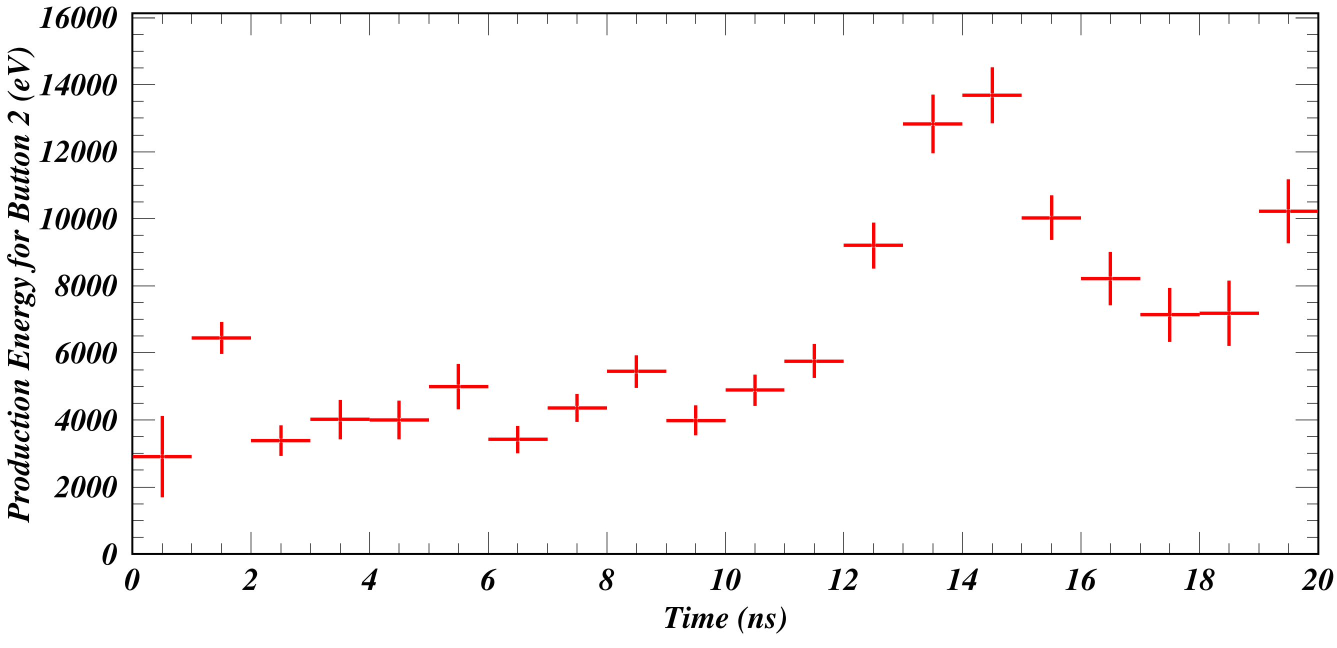
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns



13/03/26 11.54

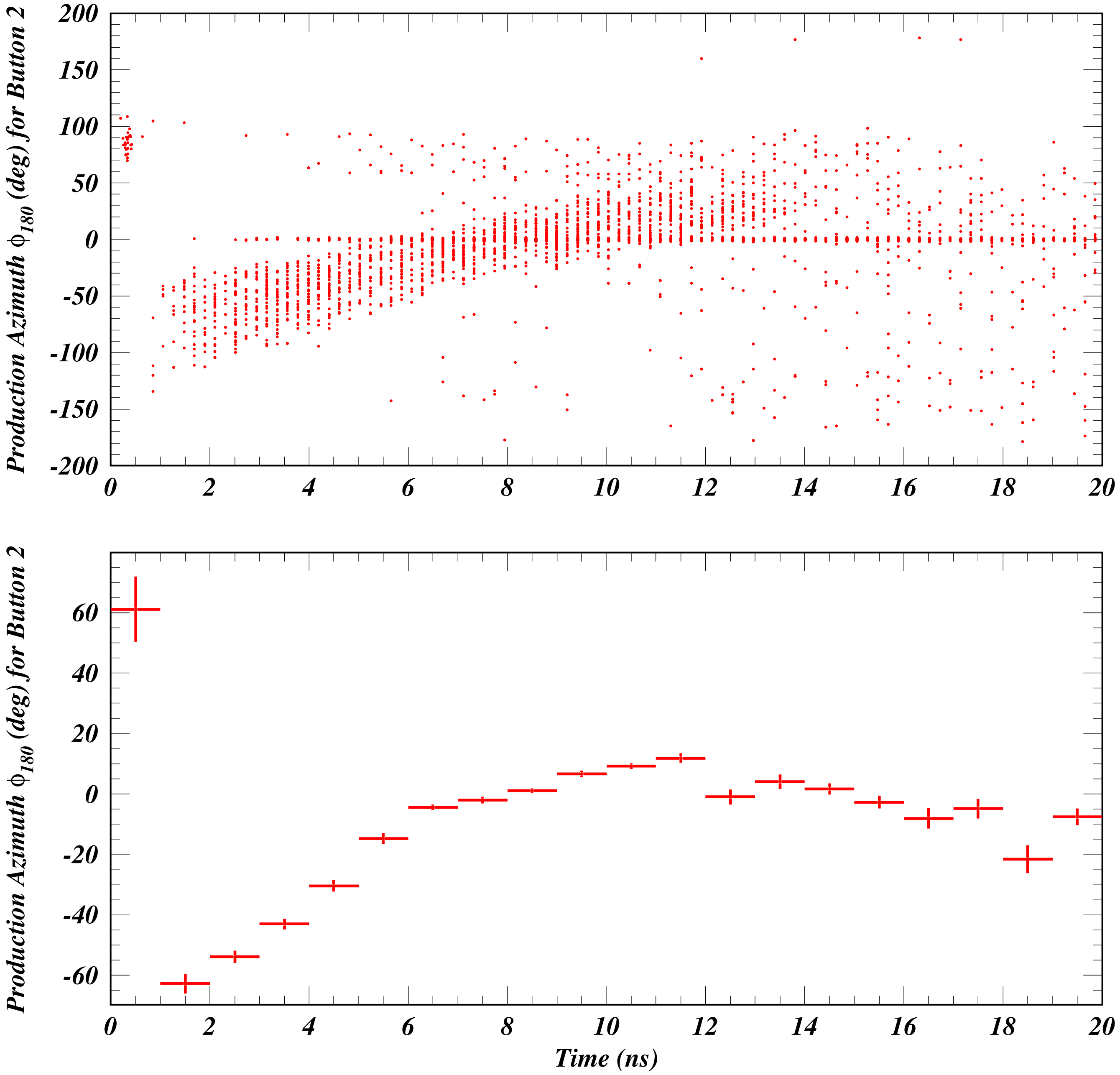
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns





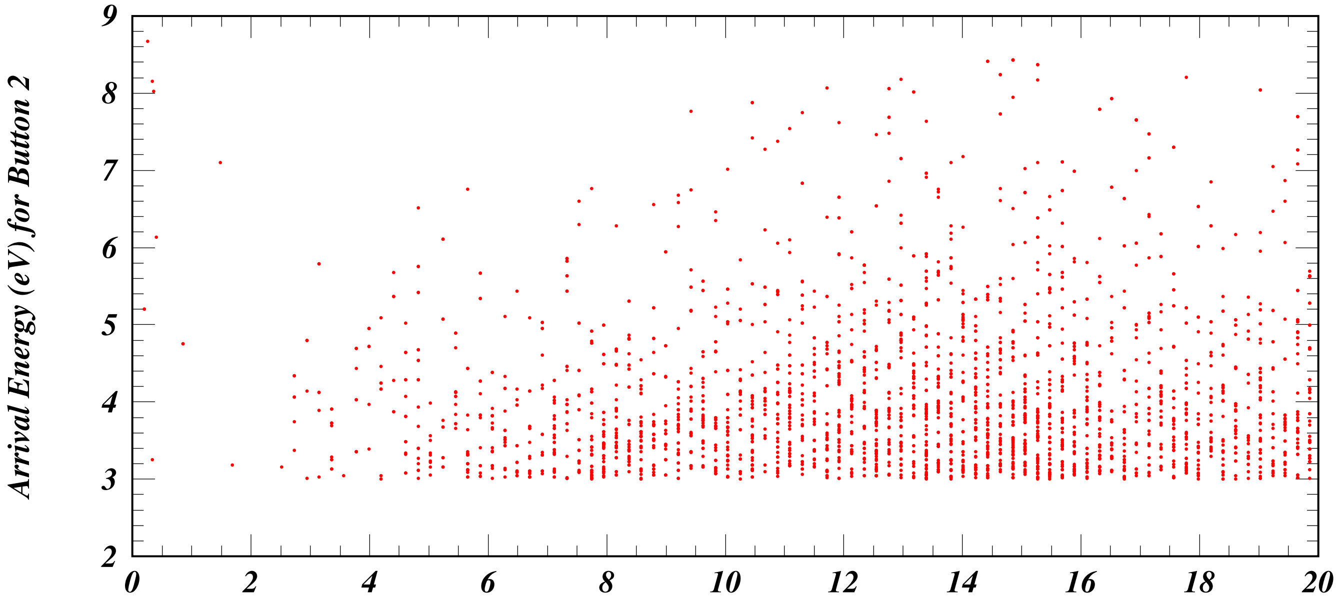
13/03/26 11.54

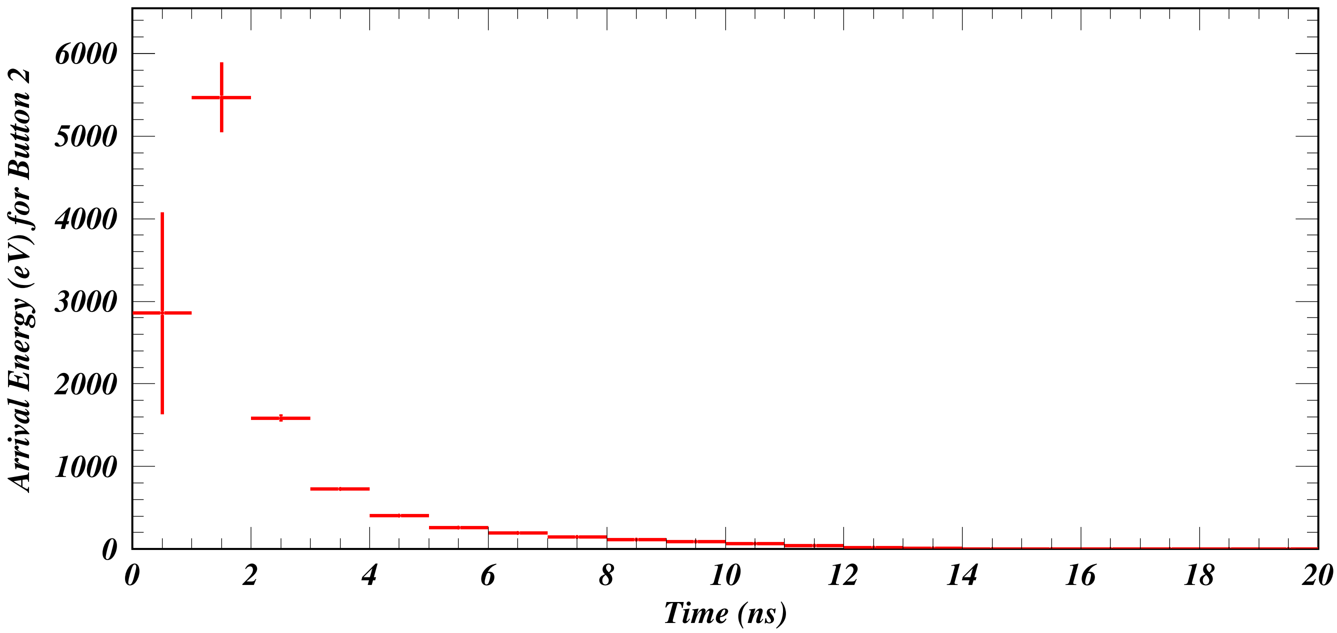
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns

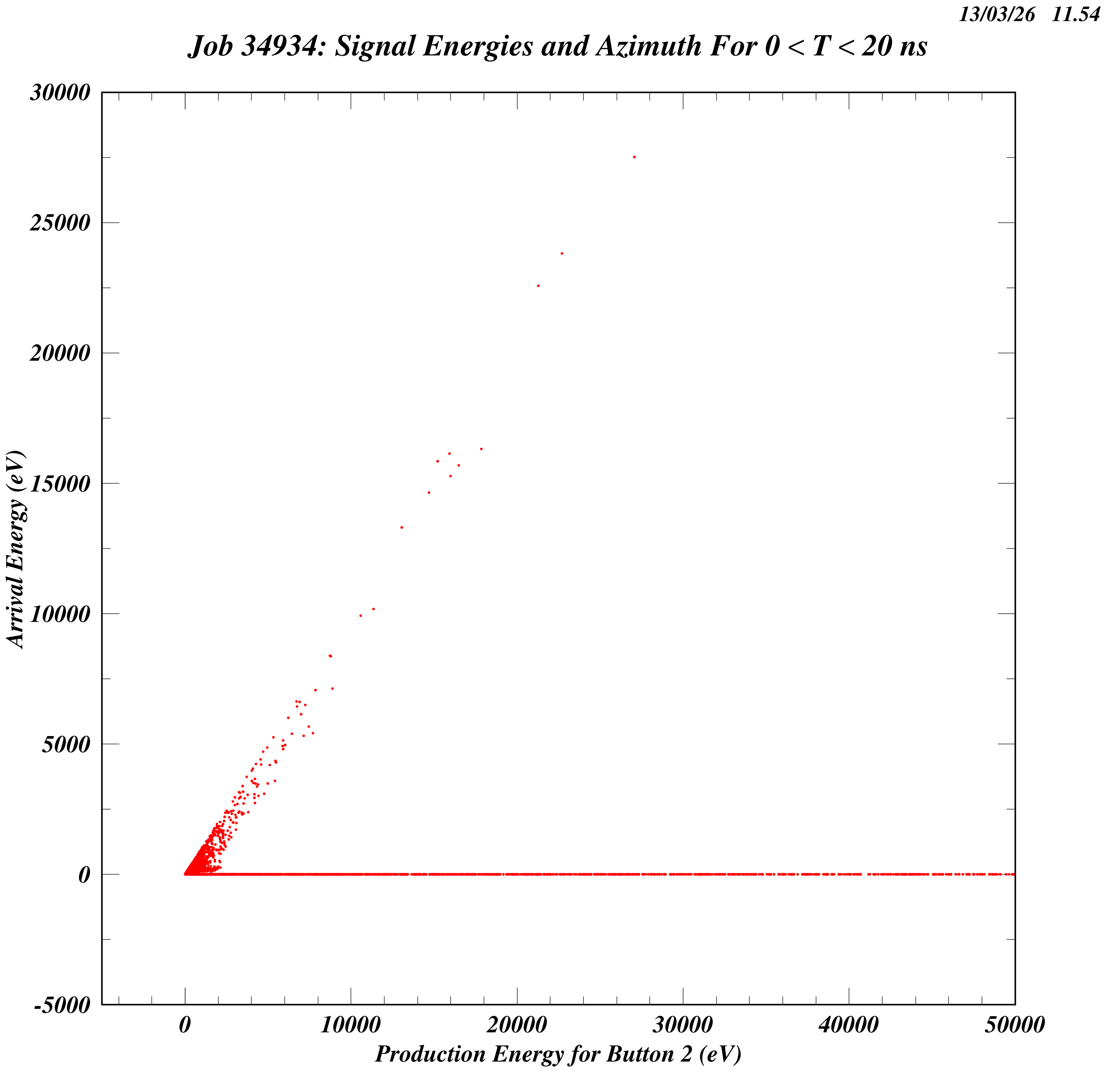


13/03/26 11.54

Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns



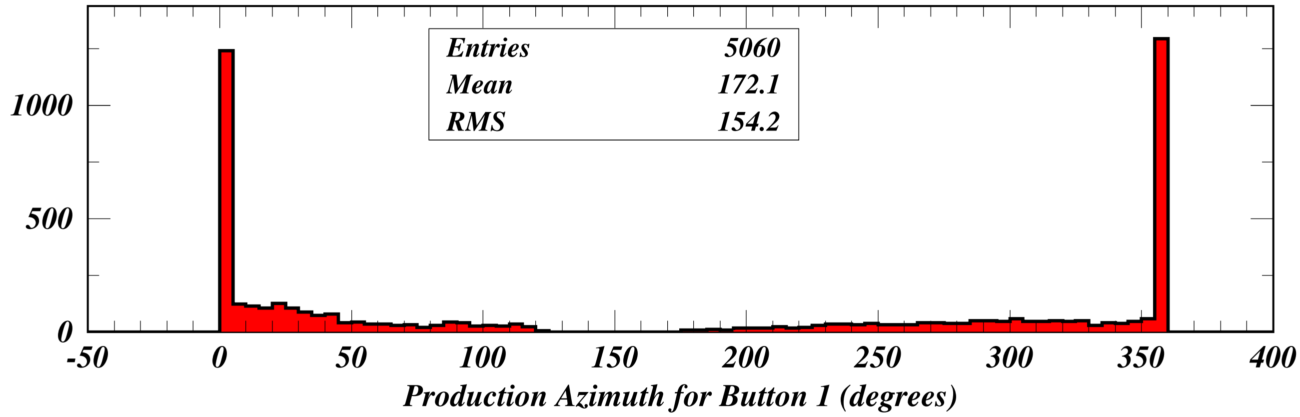


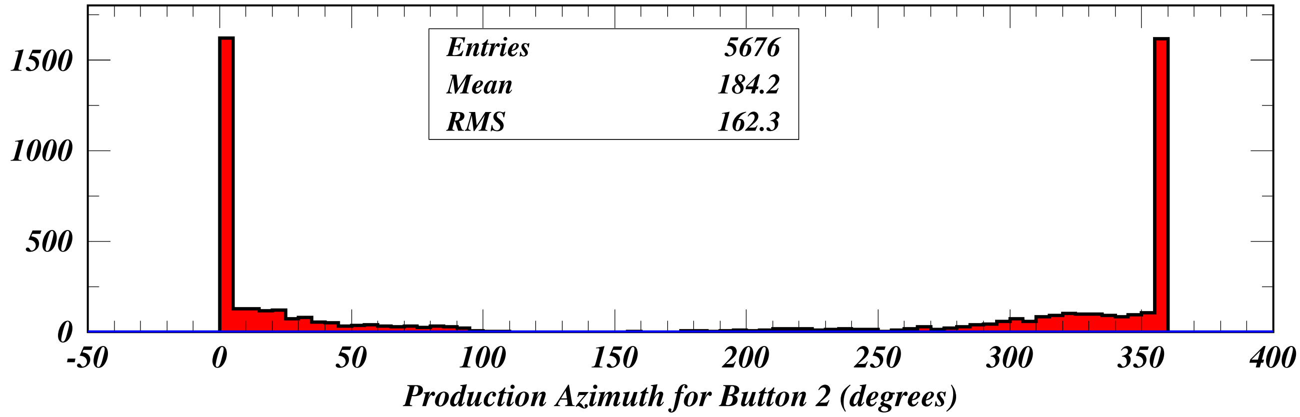


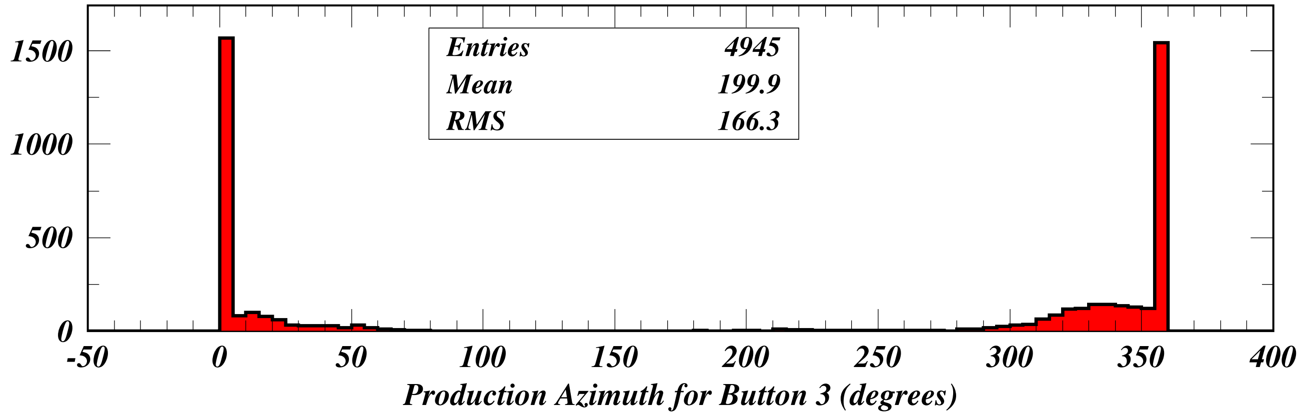
13/03/26 11.54
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns
Arrival Energy (eV)
Production Energy for Button 2 (eV)
30000
25000
20000
15000
10000
5000
0
-5000
0
10000
20000
30000
40000
50000

13/03/26 11.54

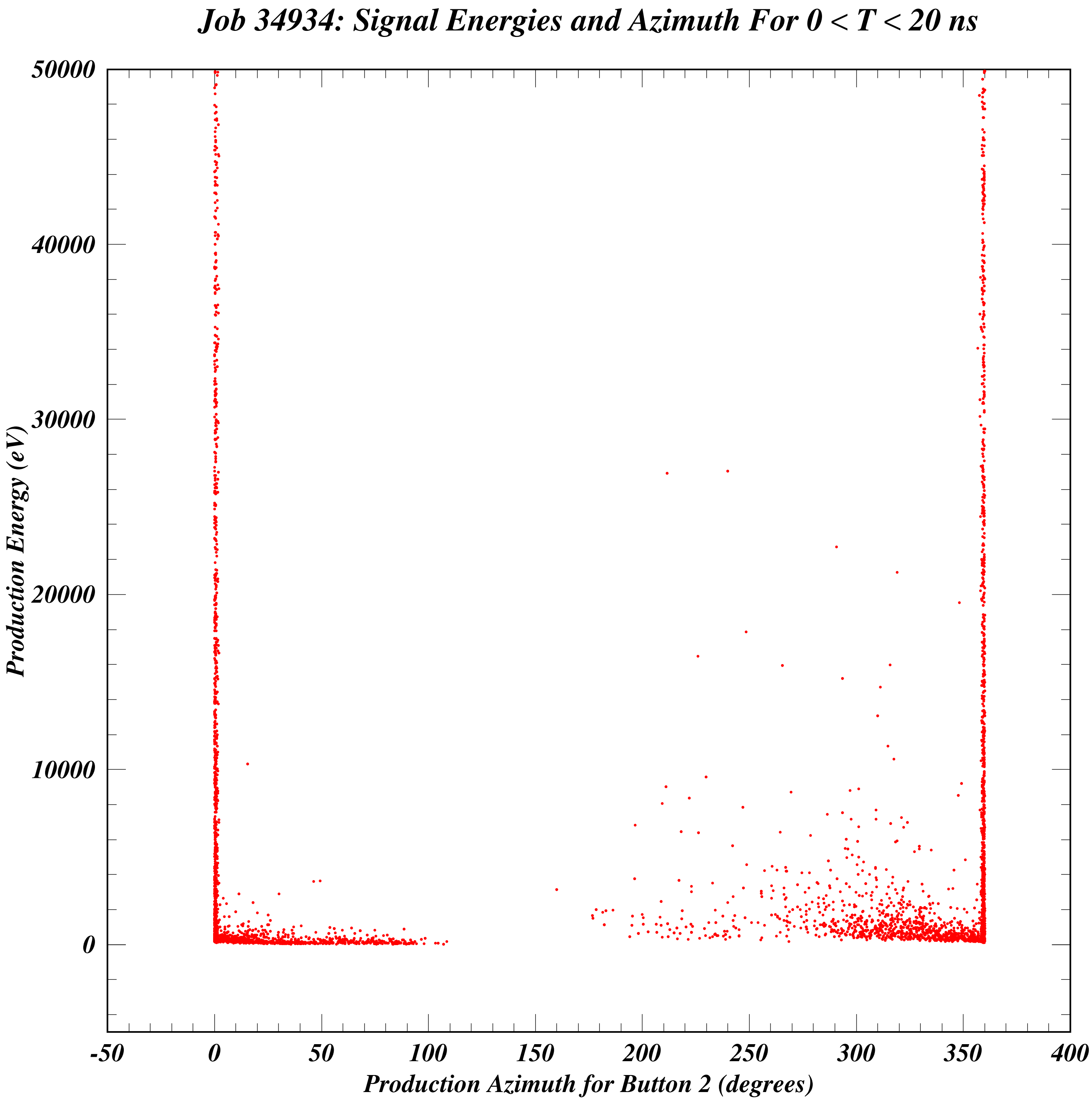
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns







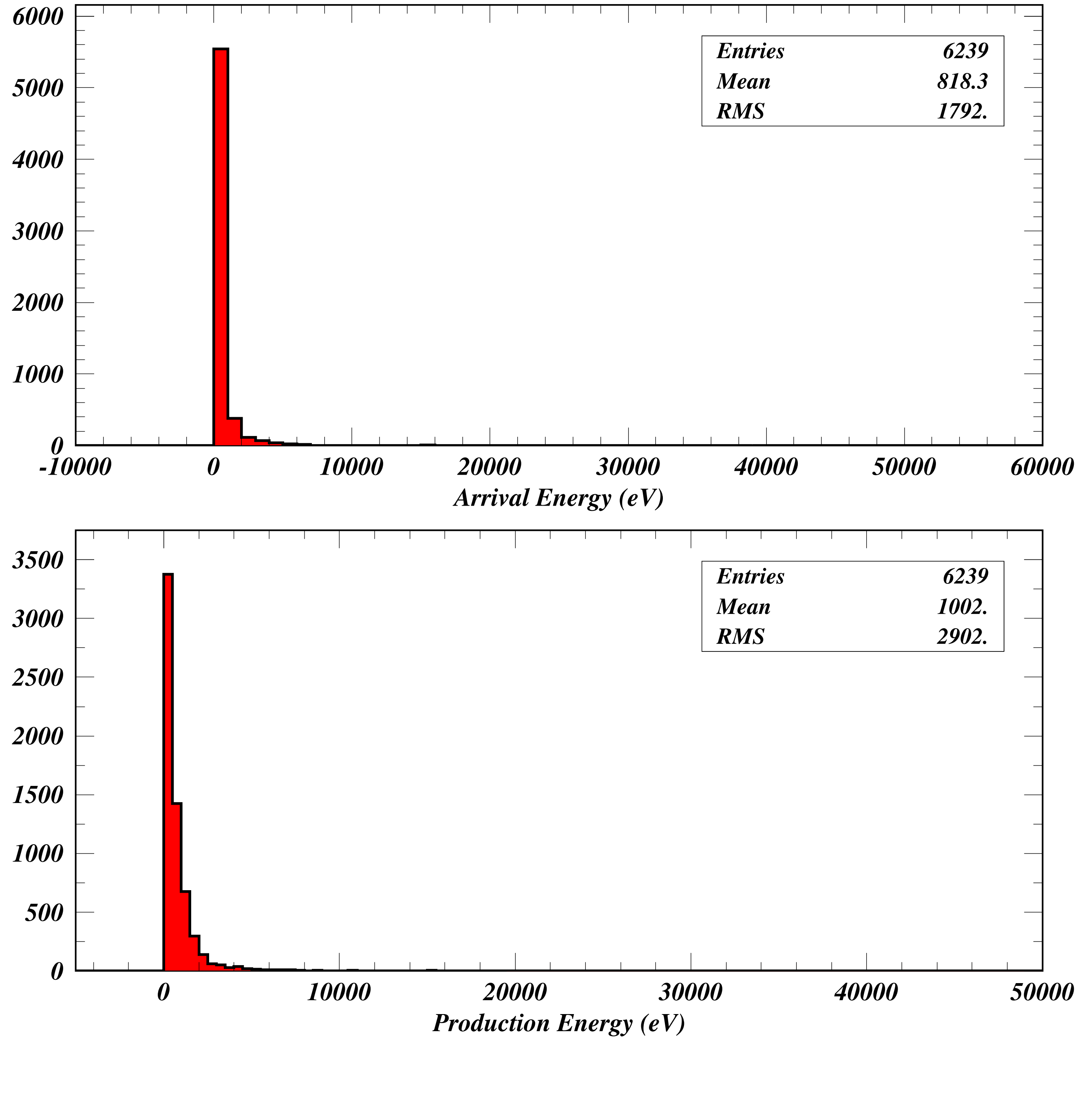
13/03/26 11.54



Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns
Production Energy (eV)
50000
40000
30000
20000
10000
0
-50
0
50
100
150
200
250
300
350
400
Production Azimuth for Button 2 (degrees)

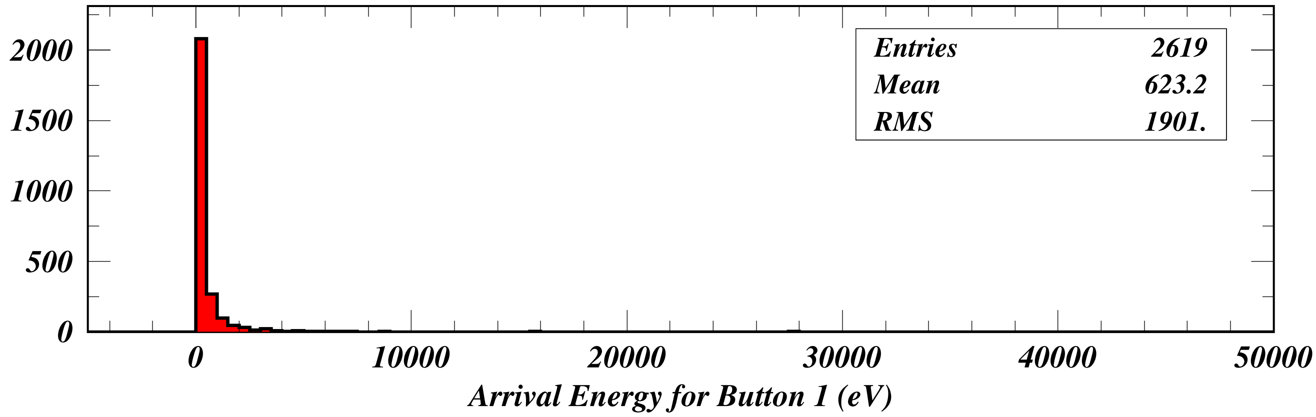
13/03/26 11.54

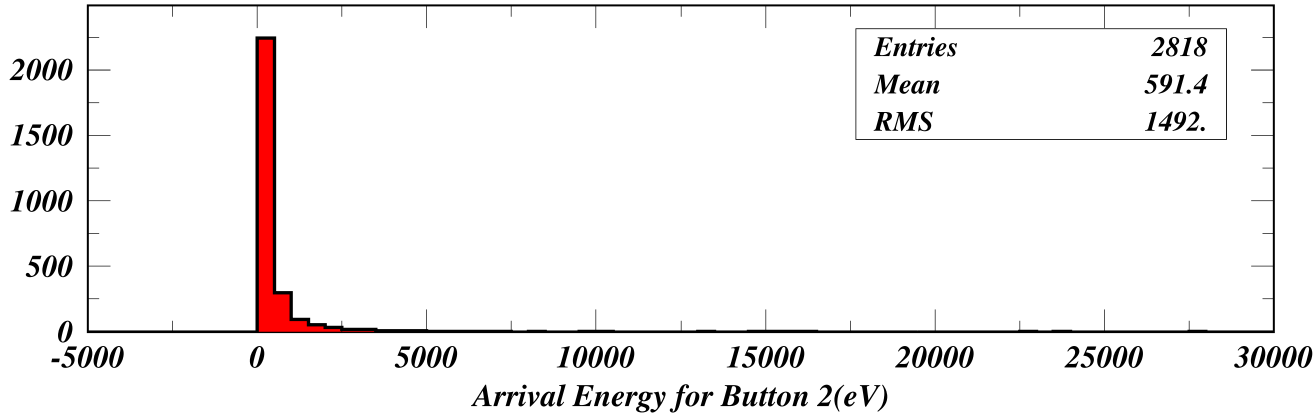
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only

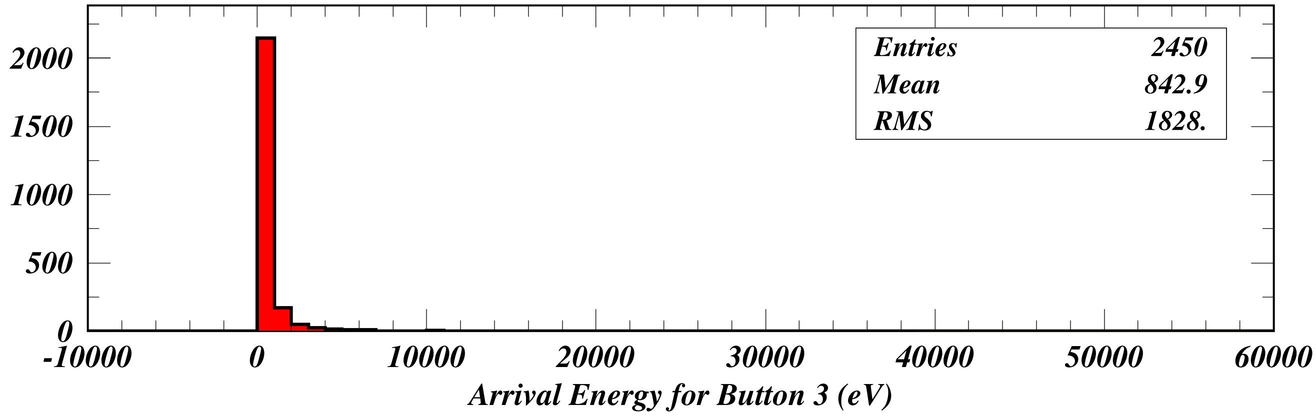


13/03/26 11.54

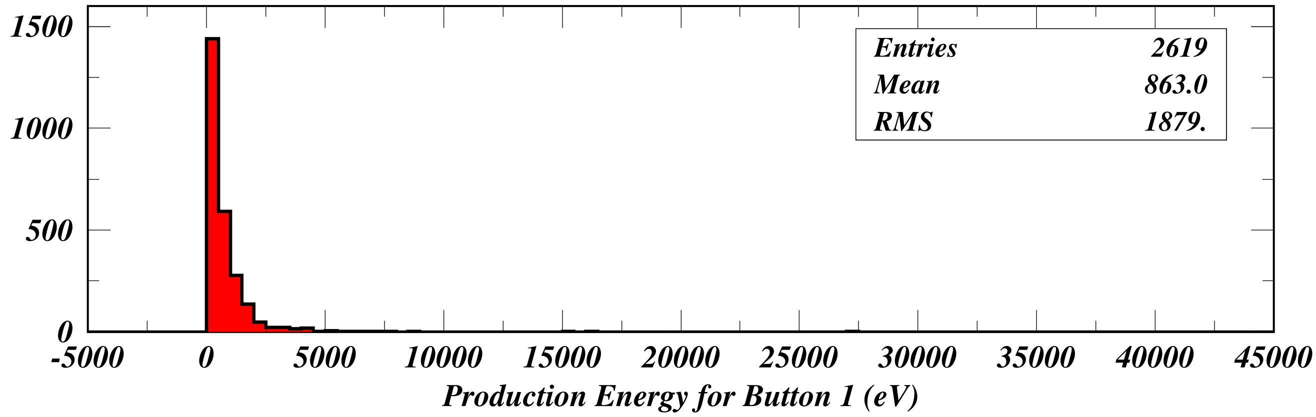
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only

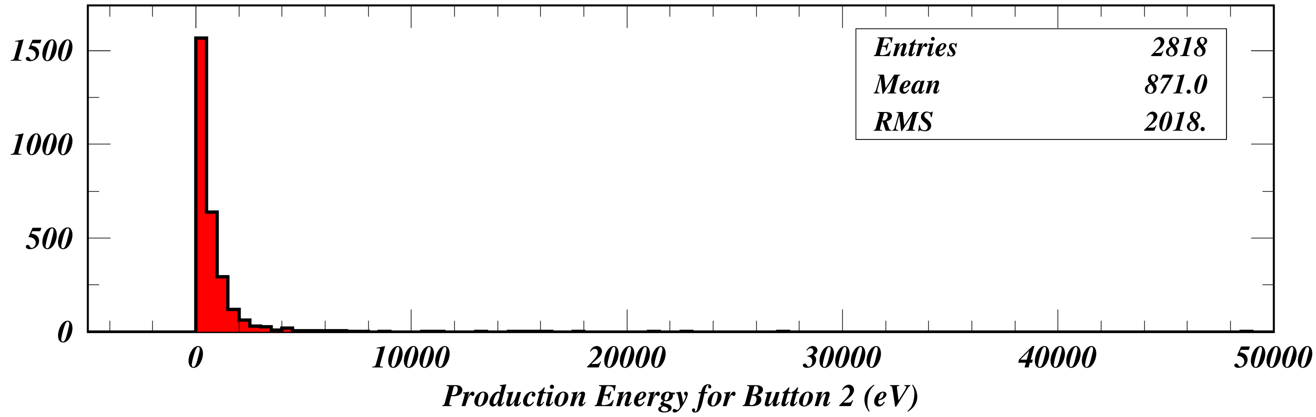


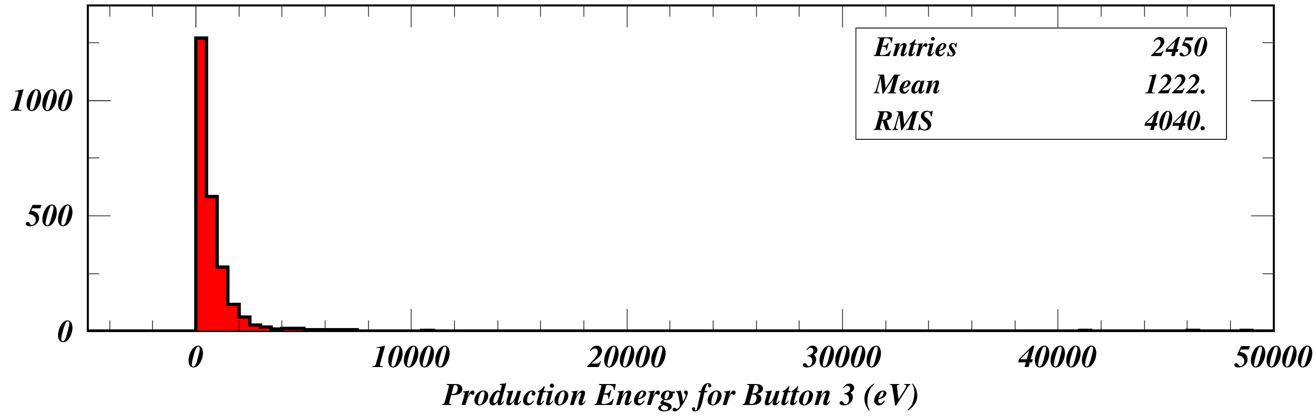




Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only

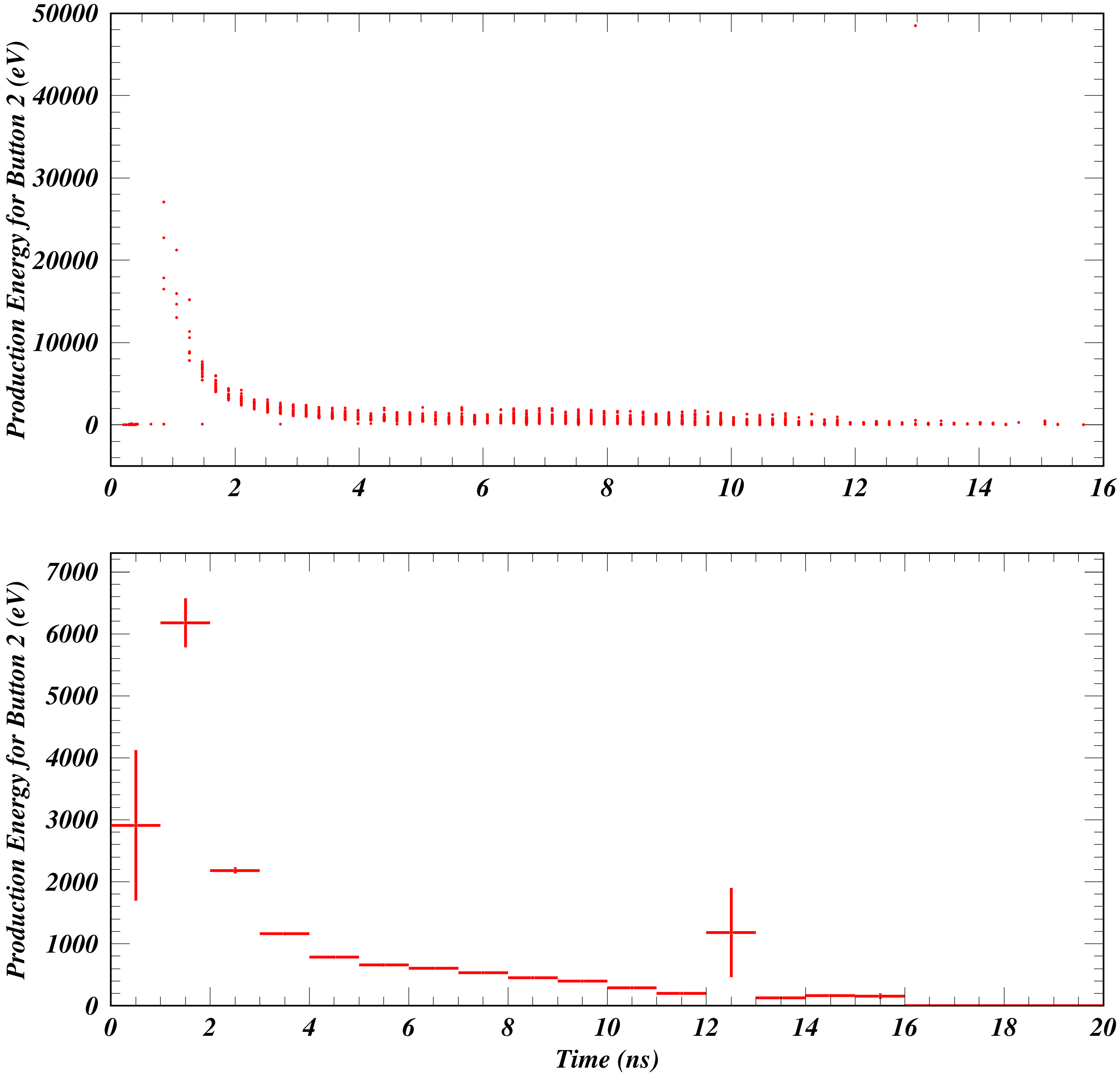






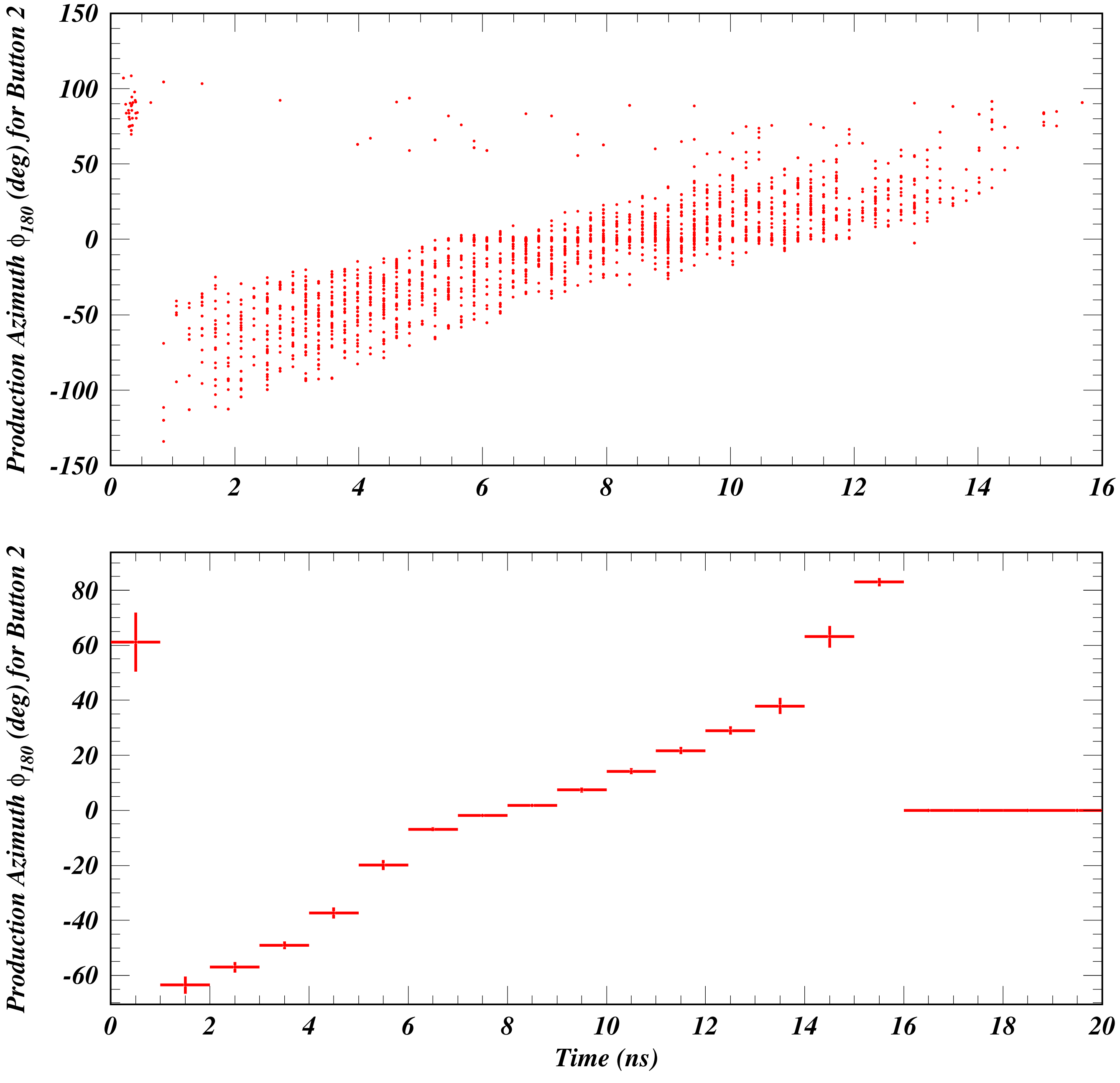
13/03/26 11.54

Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only



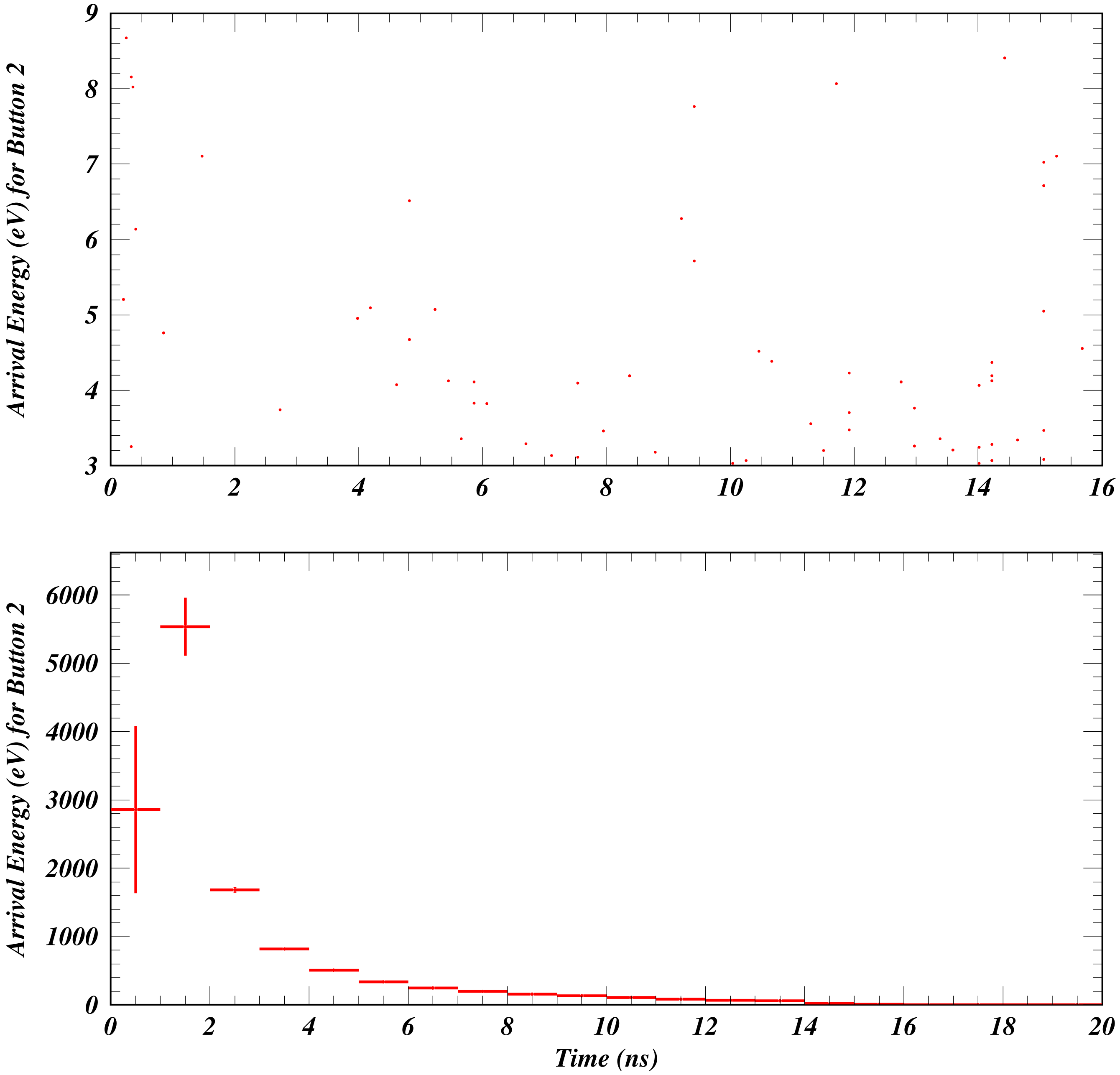
13/03/26   11.54

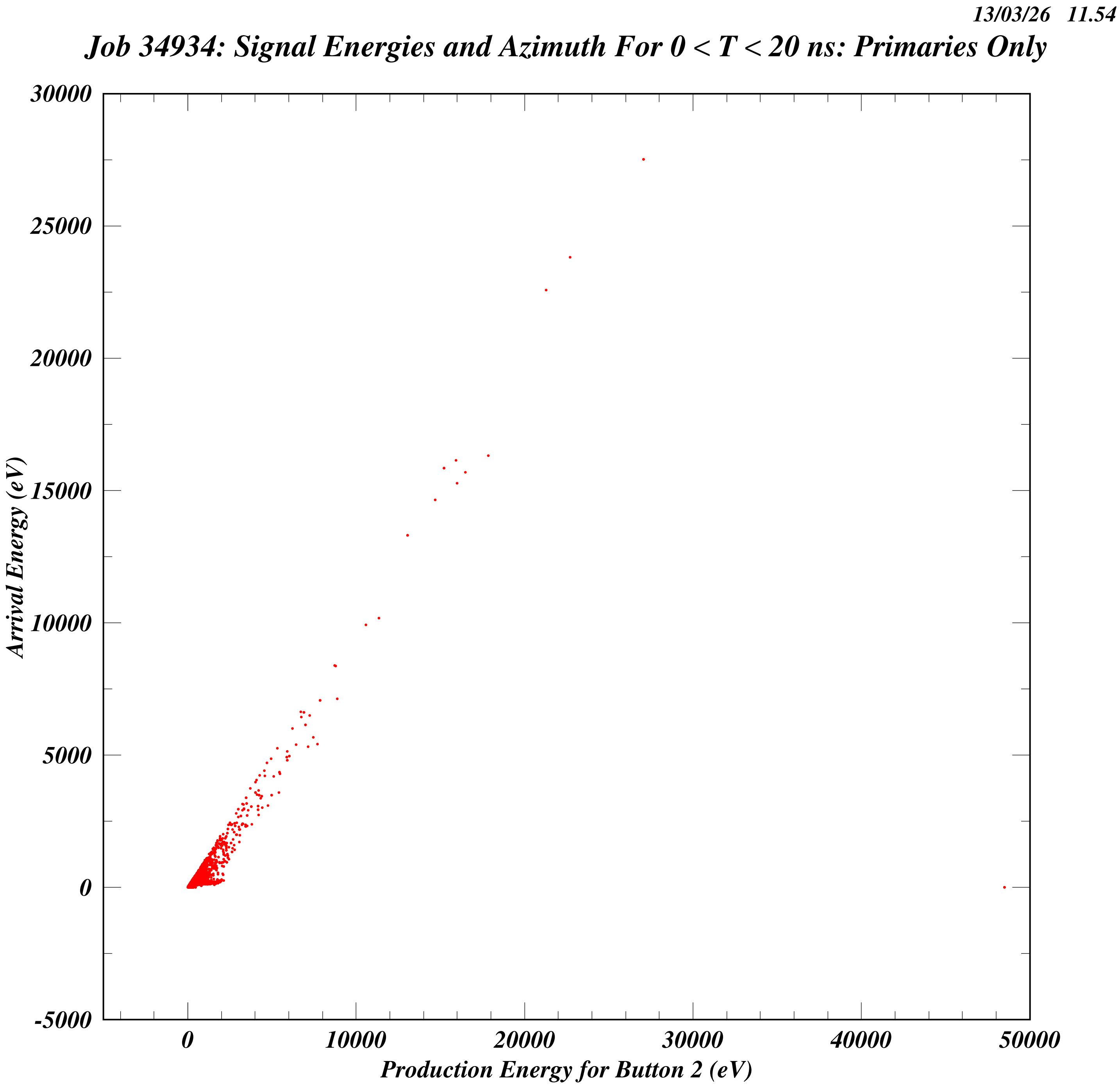
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only



13/03/26 11.54

Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only

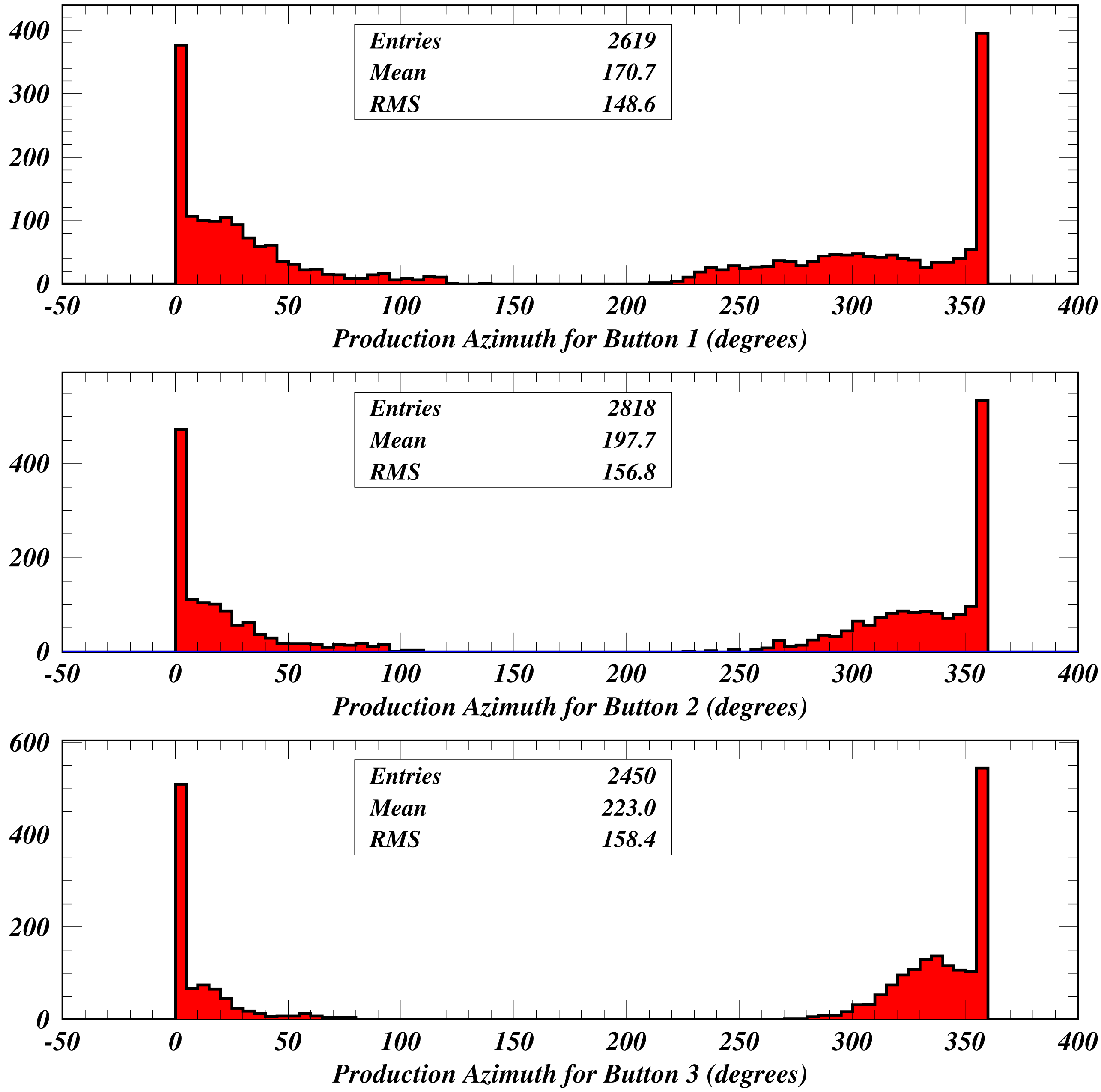


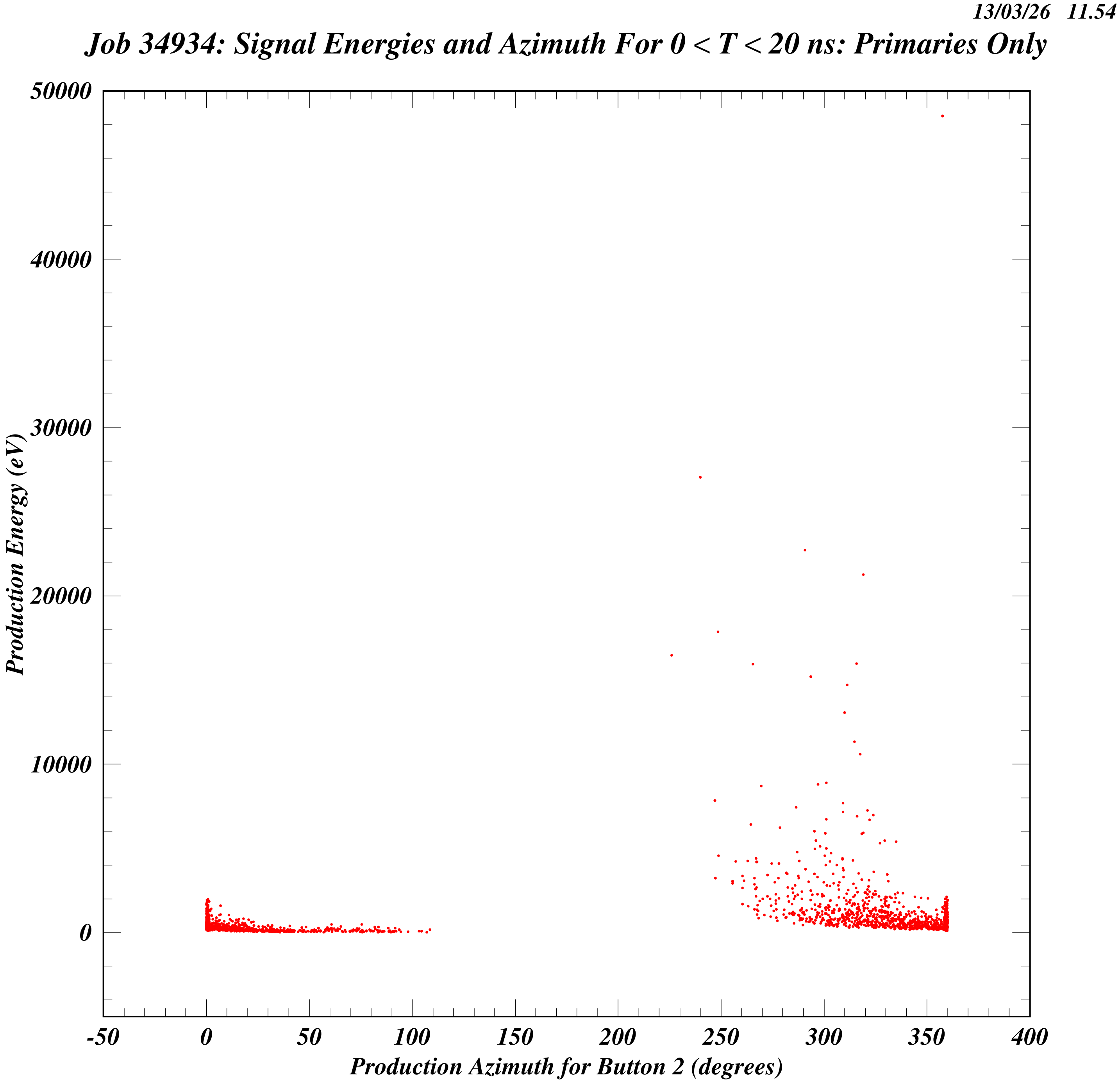


13/03/26 11.54
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only
Arrival Energy (eV)
30000
25000
20000
15000
10000
5000
0
-5000
0
10000
20000
30000
40000
50000
Production Energy for Button 2 (eV)

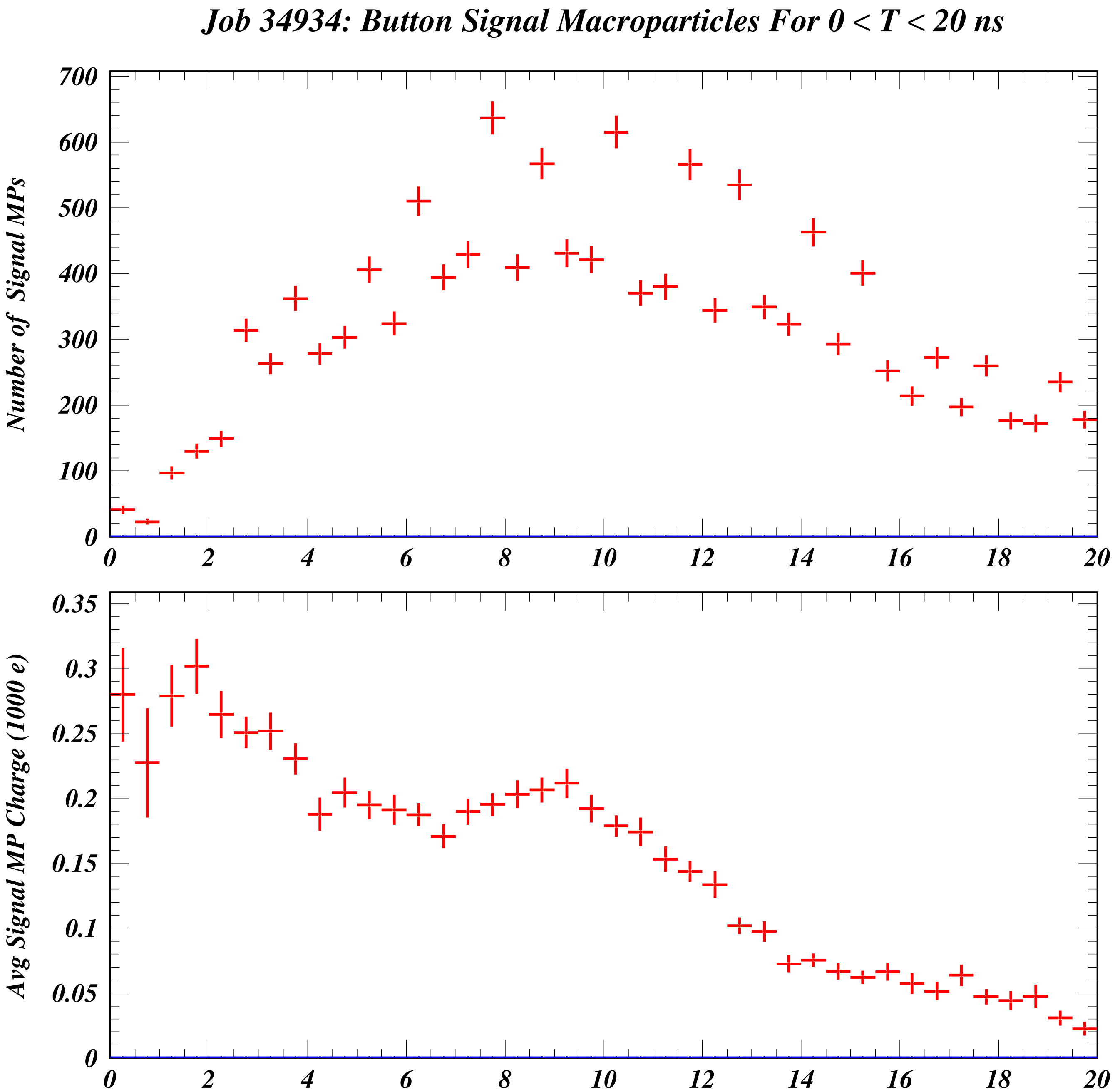
13/03/26 11.54

Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only




13/03/26 11.54
Job 34934: Signal Energies and Azimuth For 0 < T < 20 ns: Primaries Only
Production Energy (eV)
50000
40000
30000
20000
10000
0
-50
0
50
100
150
200
250
300
350
400
Production Azimuth for Button 2 (degrees)

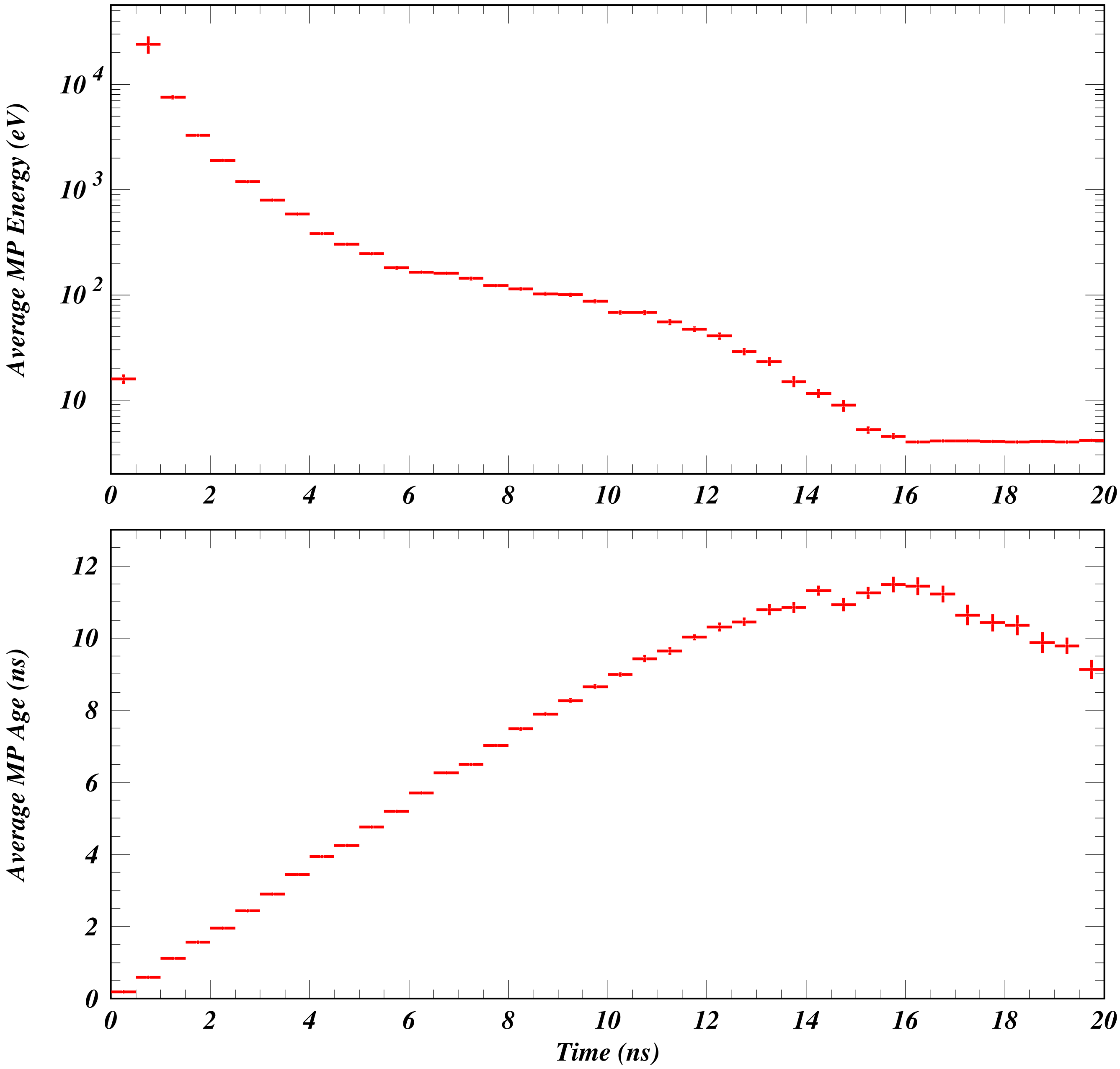
13/03/26 11.54



Job 34934: Button Signal Macroparticles For 0 < T < 20 ns
Number of Signal MPs
0
100
200
300
400
500
600
700
0
2
4
6
8
10
12
14
16
18
20
Avg Signal MP Charge (1000 e)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35

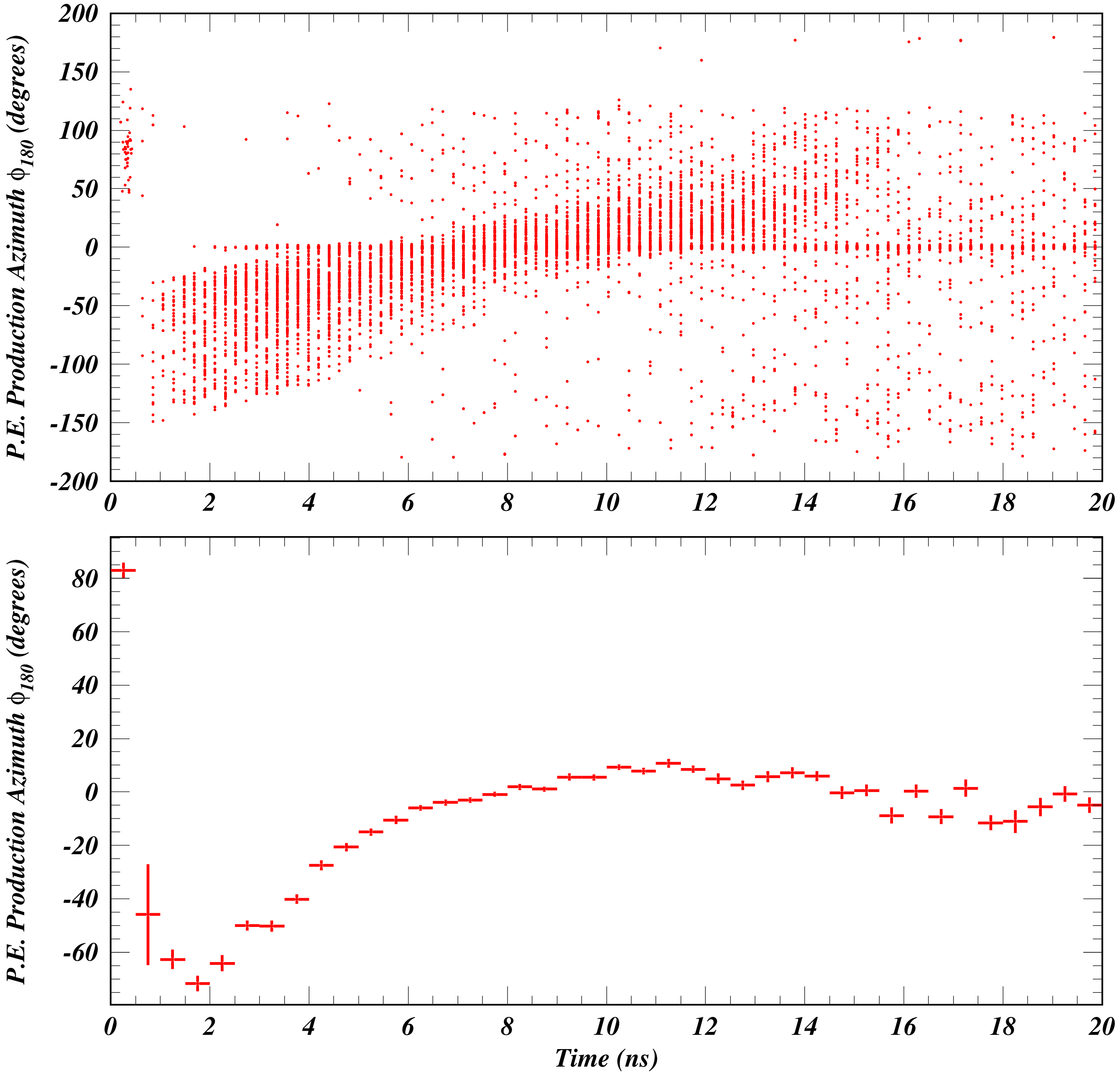
13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns



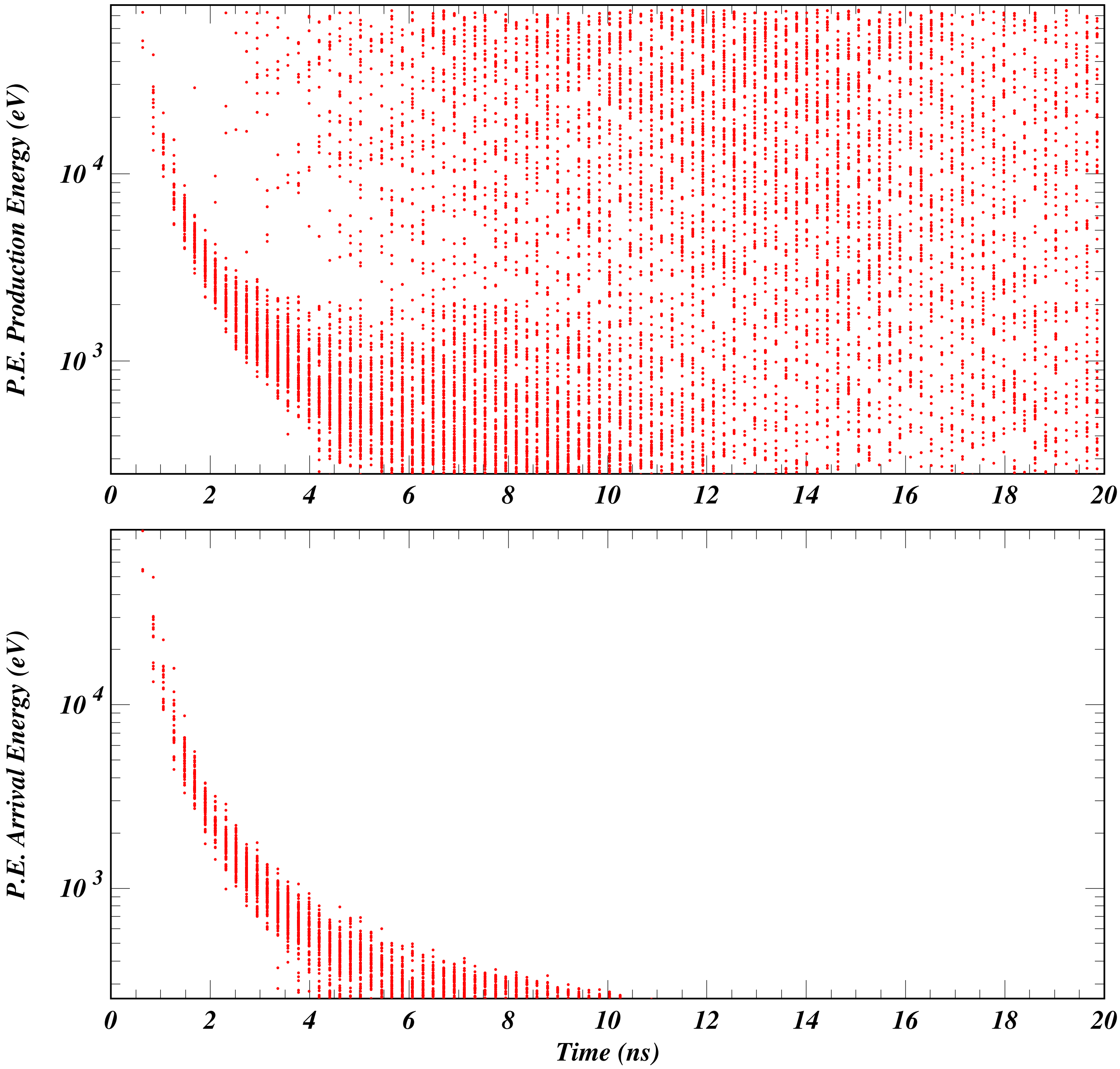
13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns



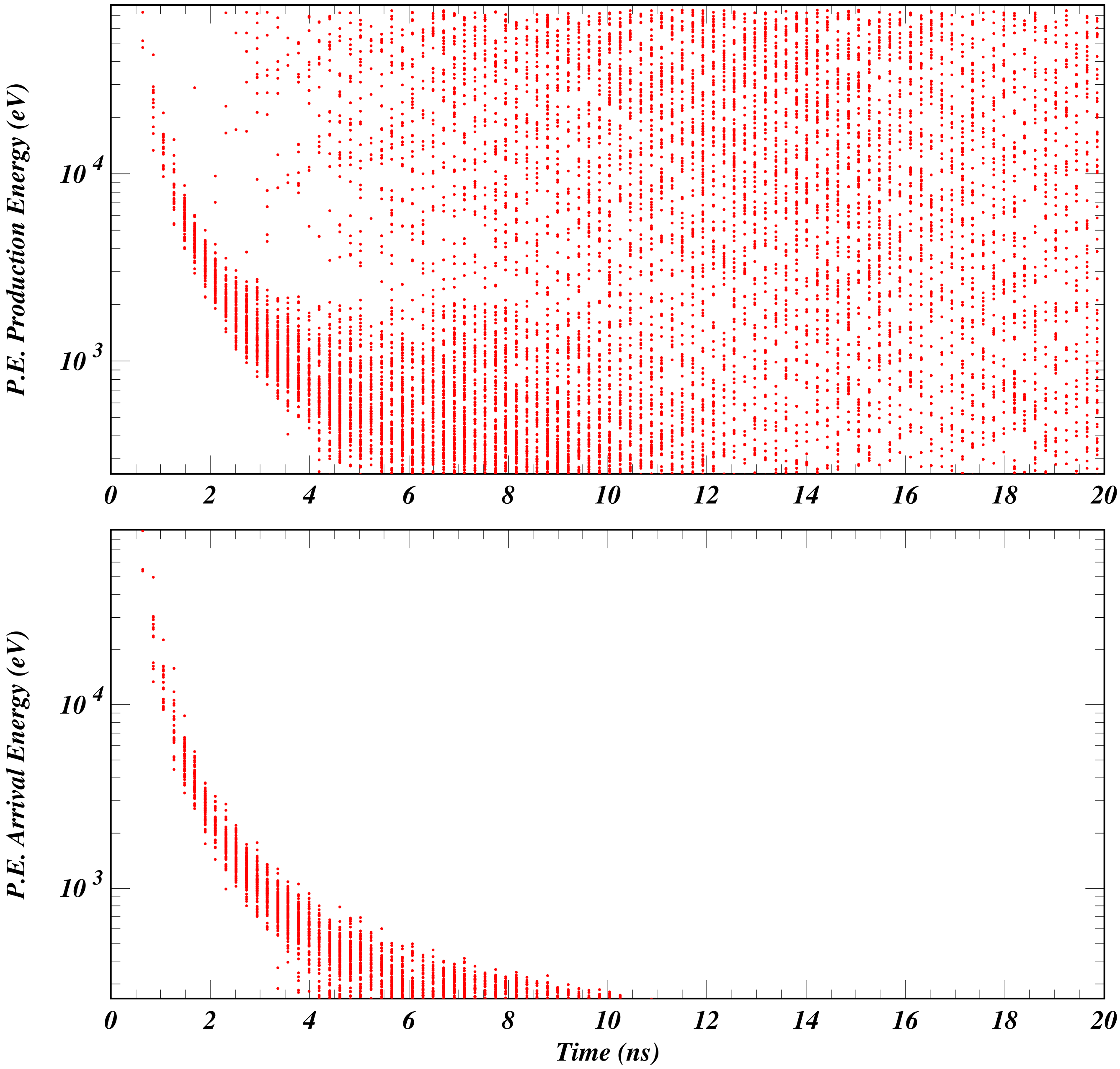
13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns

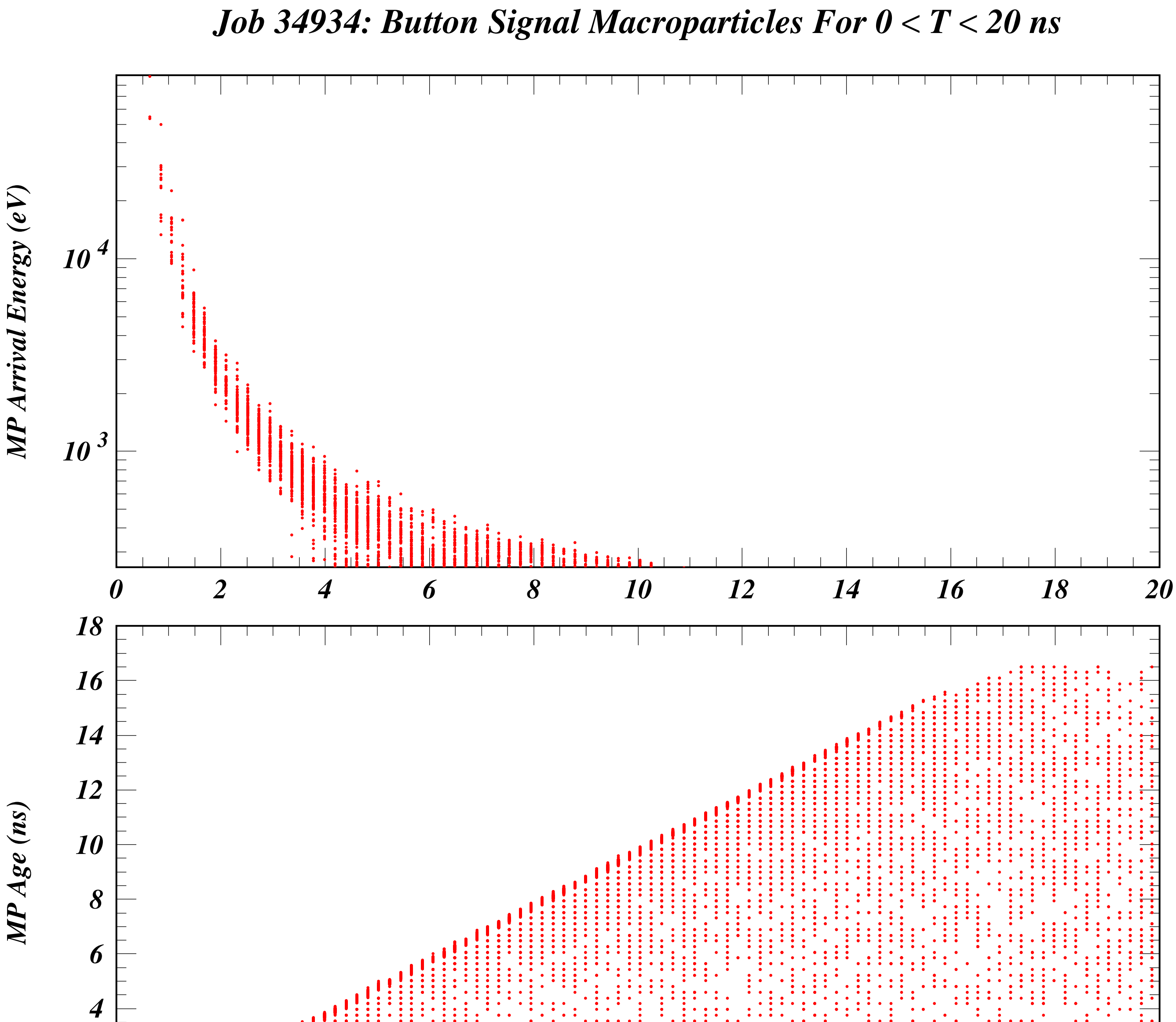


13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns

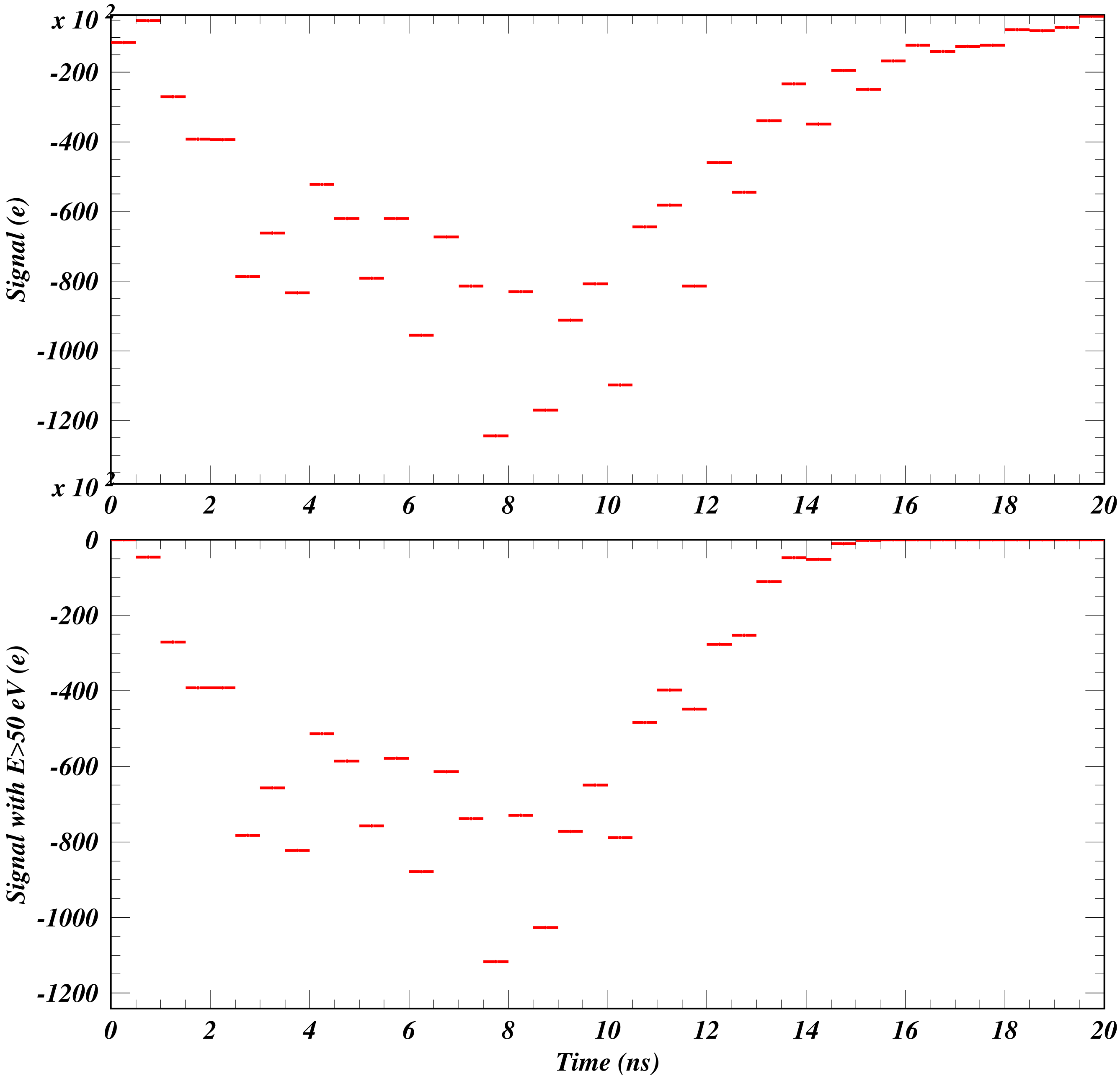


13/03/26 11.54

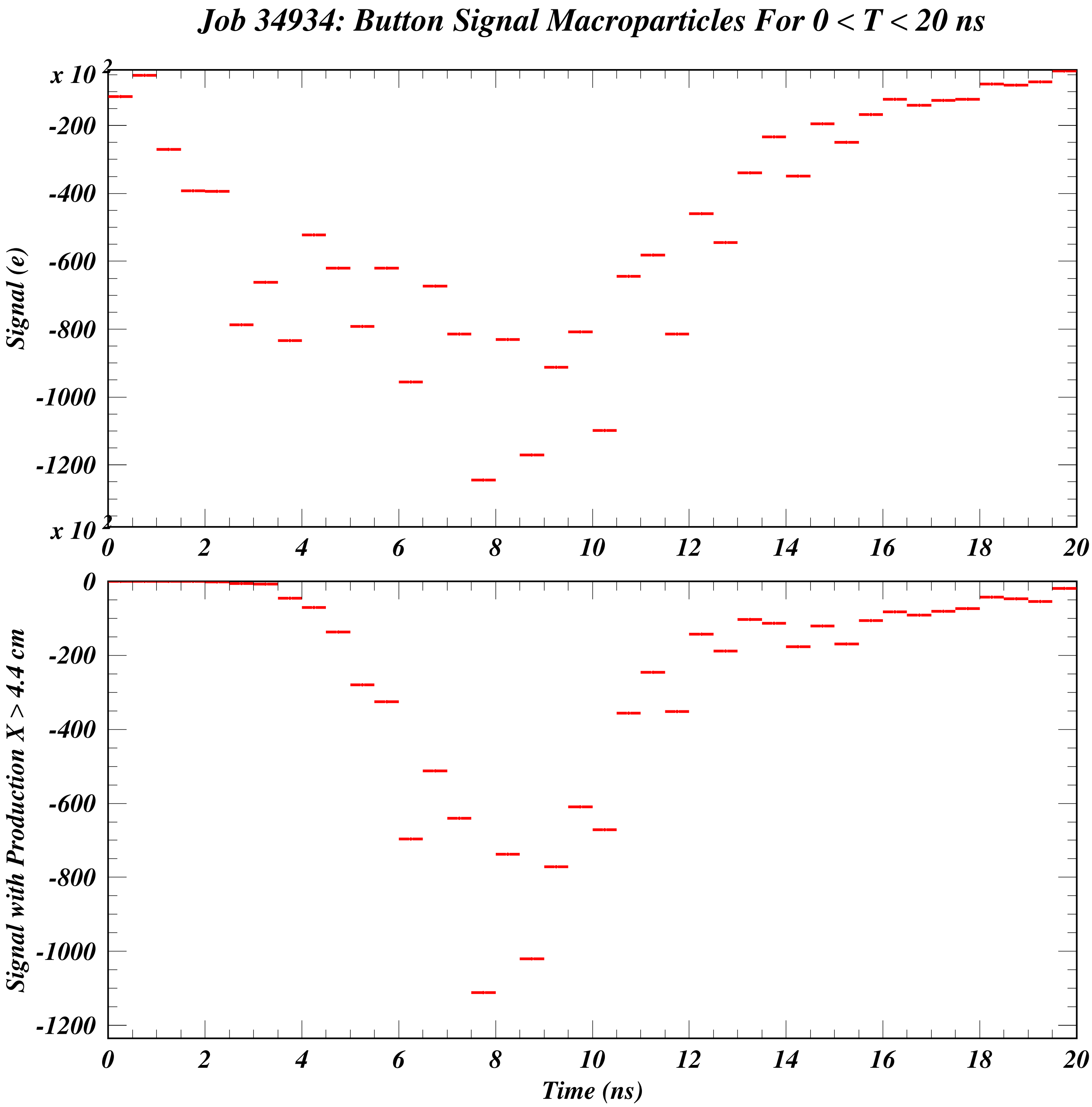

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns
MP Arrival Energy (eV)
10^4
10^3
0
2
4
6
8
10
12
14
16
18
20
MP Age (ns)
Time (ns)

13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns

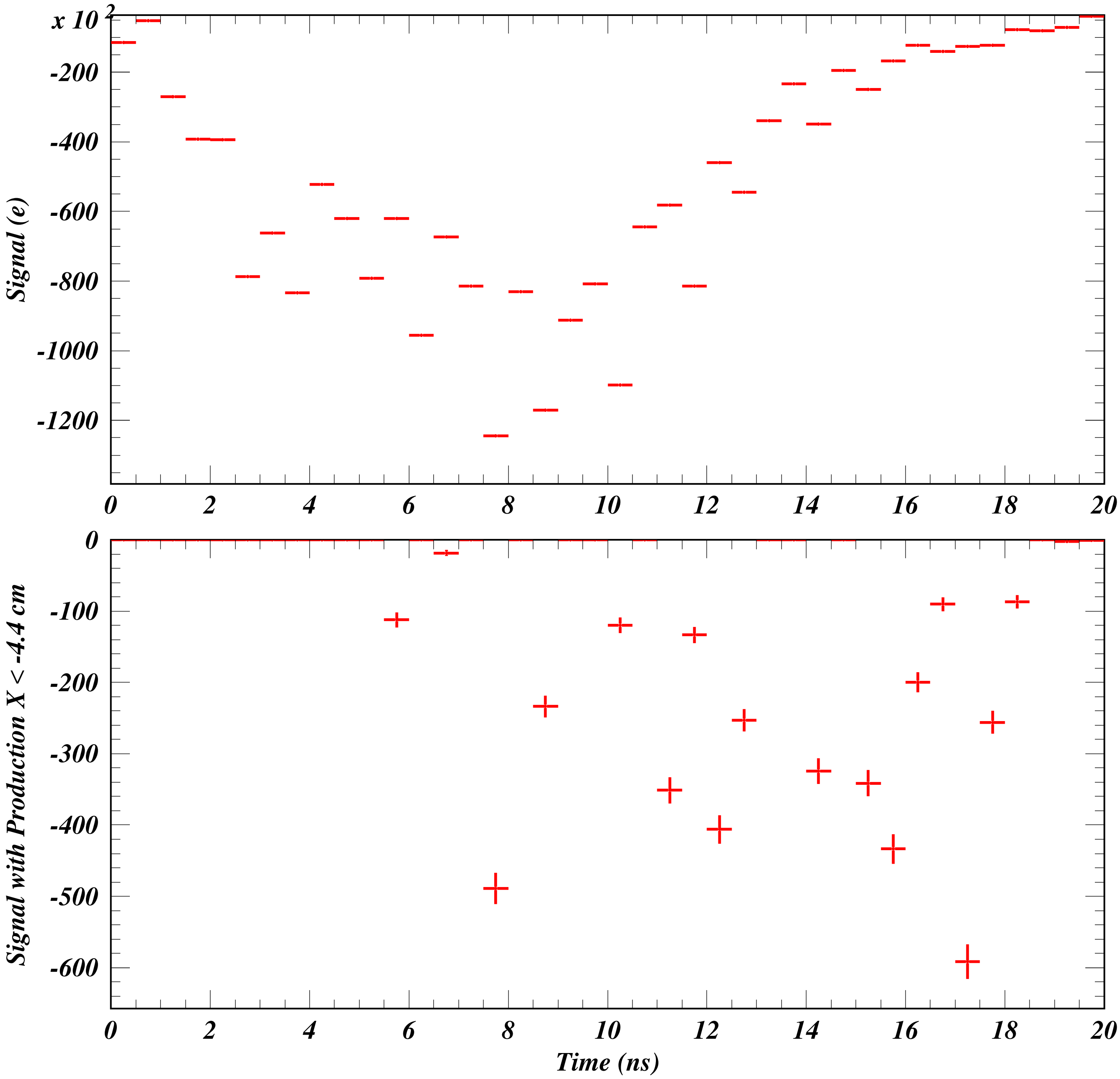


13/03/26 11.54


Job 34934: Button Signal Macroparticles For 0 < T < 20 ns
x 10^2
Signal (e)
-200
-400
-600
-800
-1000
-1200
x 10^2
0
2
4
6
8
10
12
14
16
18
20
Signal with Production X > 4.4 cm
0
-200
-400
-600
-800
-1000
-1200
0
2
4
6
8
10
12
14
16
18
20
Time (ns)

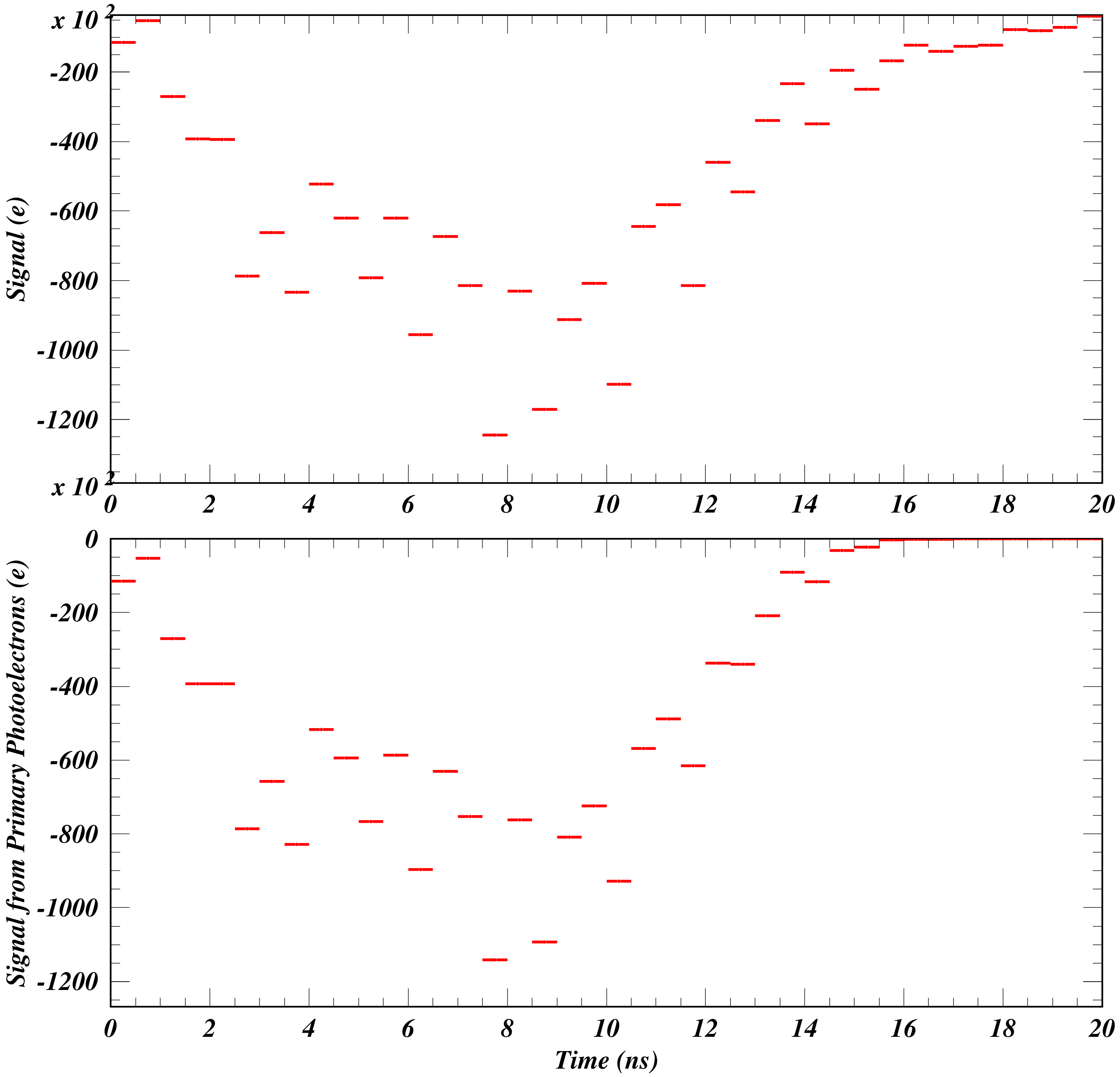
13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns



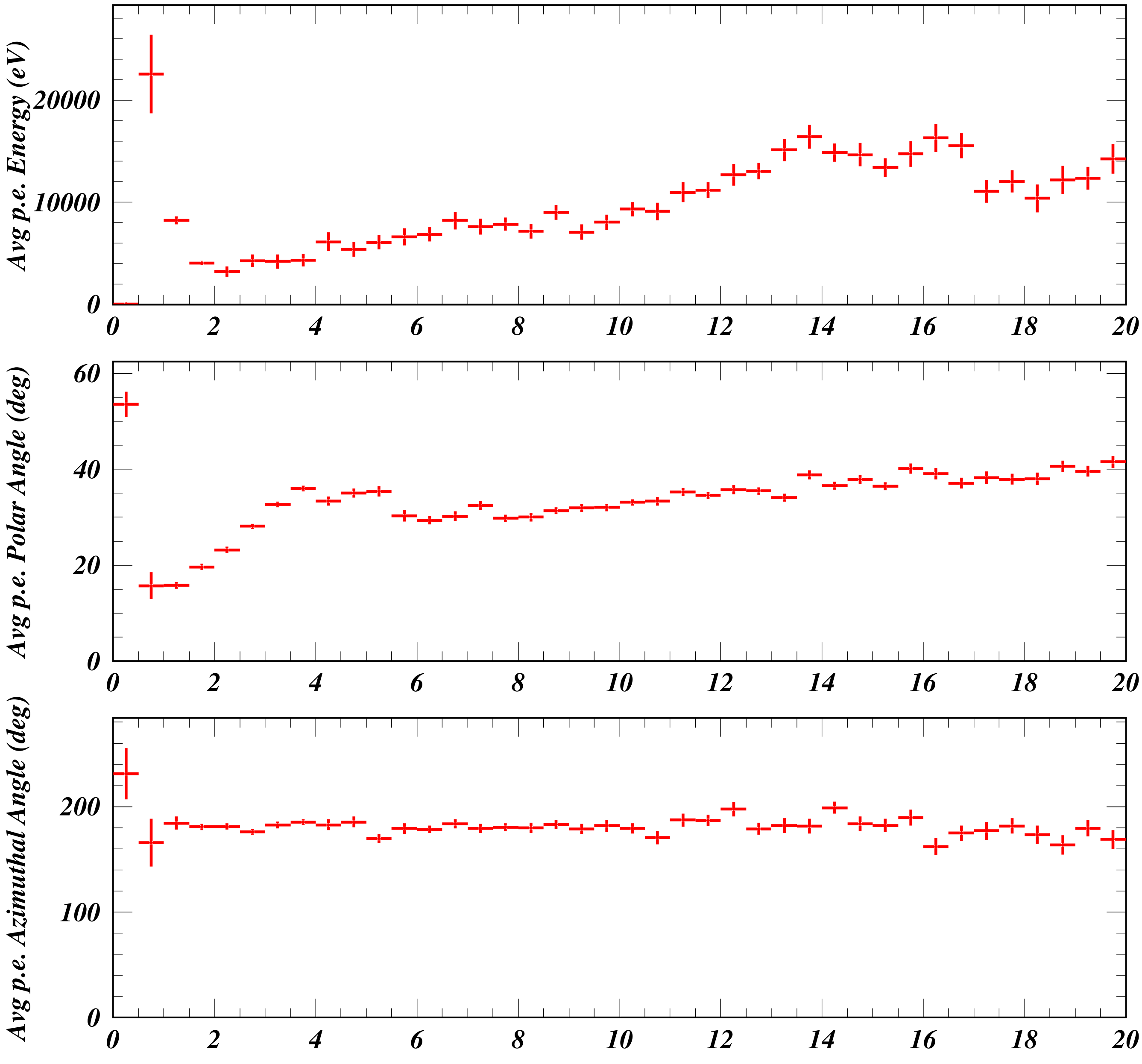
13/03/26 11.54

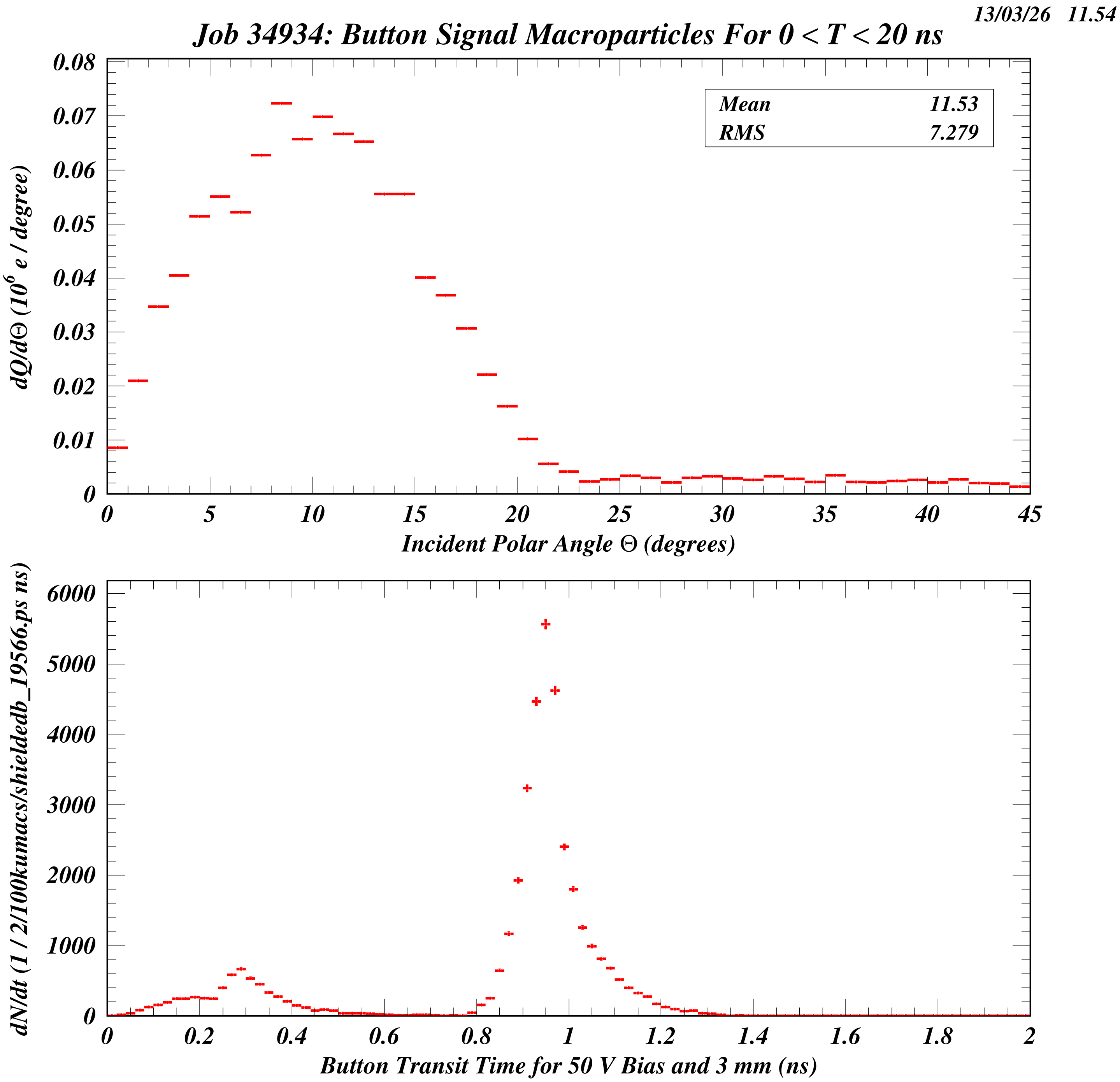
Job 34934: Button Signal Macroparticles For 0 < T < 20 ns



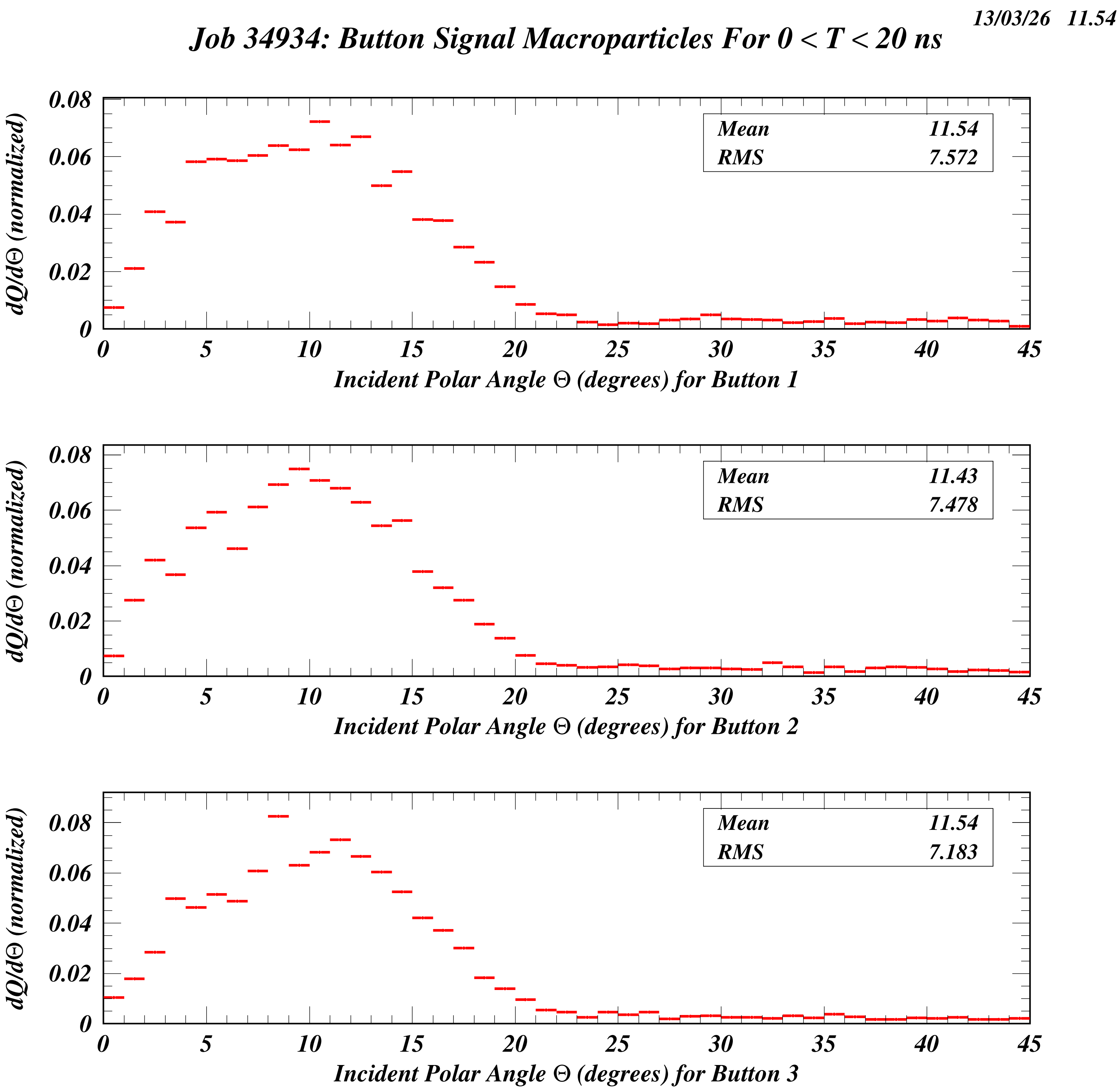
13/03/26   11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns



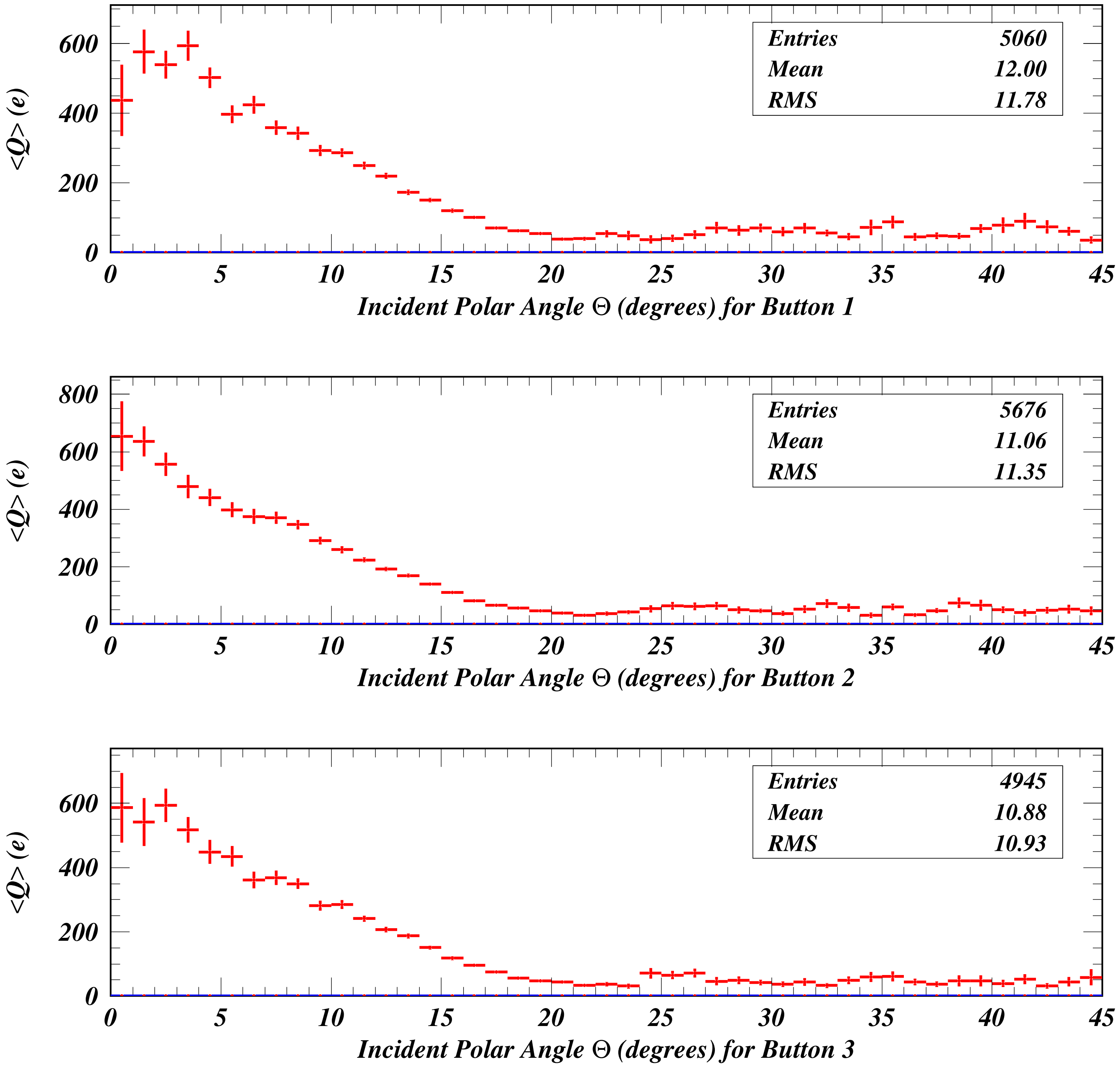


13/03/26 11.54
Job 34934: Button Signal Macroparticles For 0 < T < 20 ns
Mean 11.53
RMS 7.279
dQ/dΘ (10^6 e / degree)
0 0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08
0 5 10 15 20 25 30 35 40 45
Incident Polar Angle Θ (degrees)
dN/dt (1 / 2/100kumacs/shieldedb_19566.ps ns)
0 1000 2000 3000 4000 5000 6000
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
Button Transit Time for 50 V Bias and 3 mm (ns)


13/03/26 11.54
Job 34934: Button Signal Macroparticles For 0 < T < 20 ns
dQ/dΘ (normalized)
Mean 11.54
RMS 7.572
Incident Polar Angle Θ (degrees) for Button 1
dQ/dΘ (normalized)
Mean 11.43
RMS 7.478
Incident Polar Angle Θ (degrees) for Button 2
dQ/dΘ (normalized)
Mean 11.54
RMS 7.183
Incident Polar Angle Θ (degrees) for Button 3

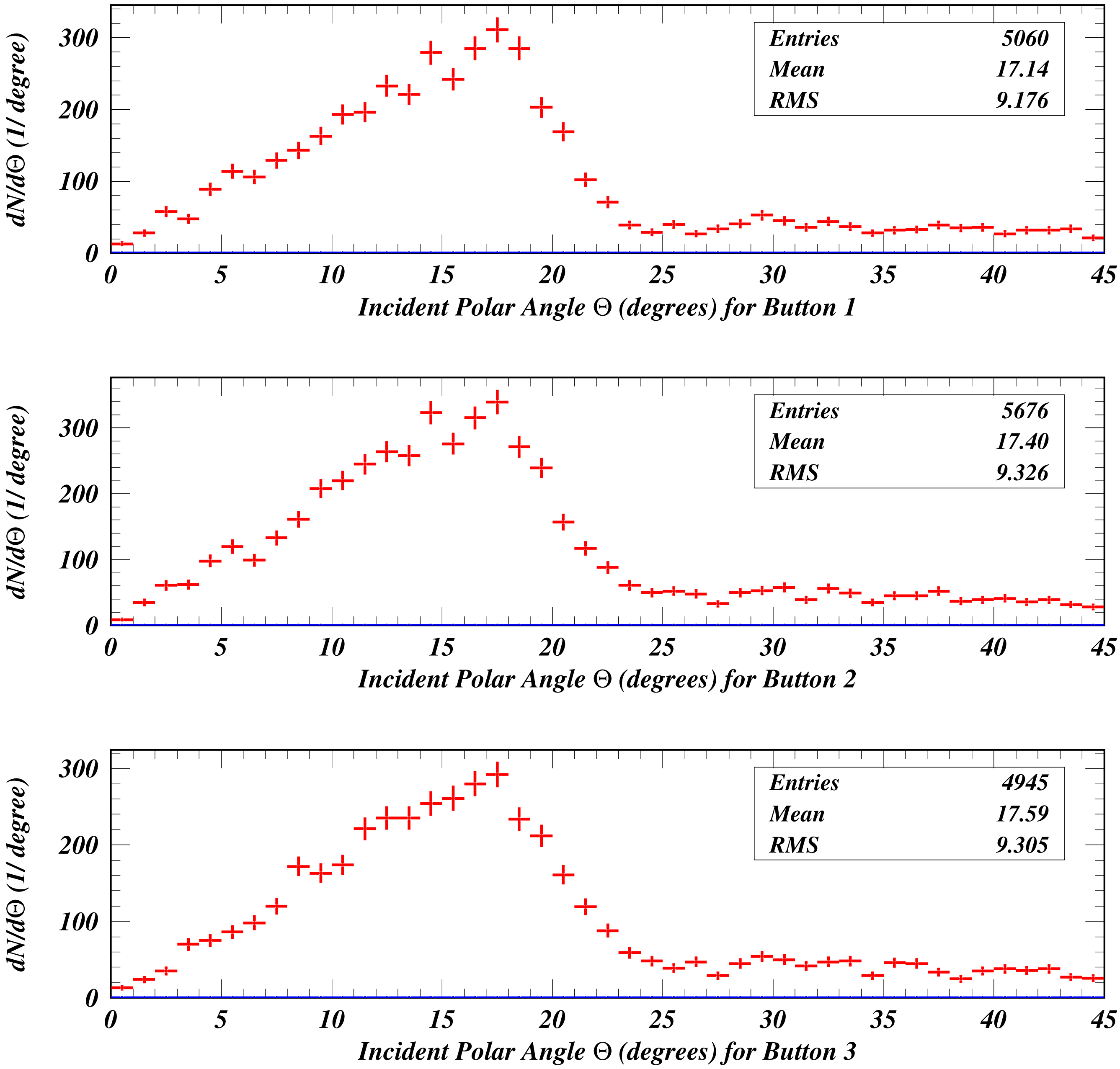
13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns



13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns



13/03/26 11.54

Job 34934: Button Signal Macroparticles For 0 < T < 20 ns