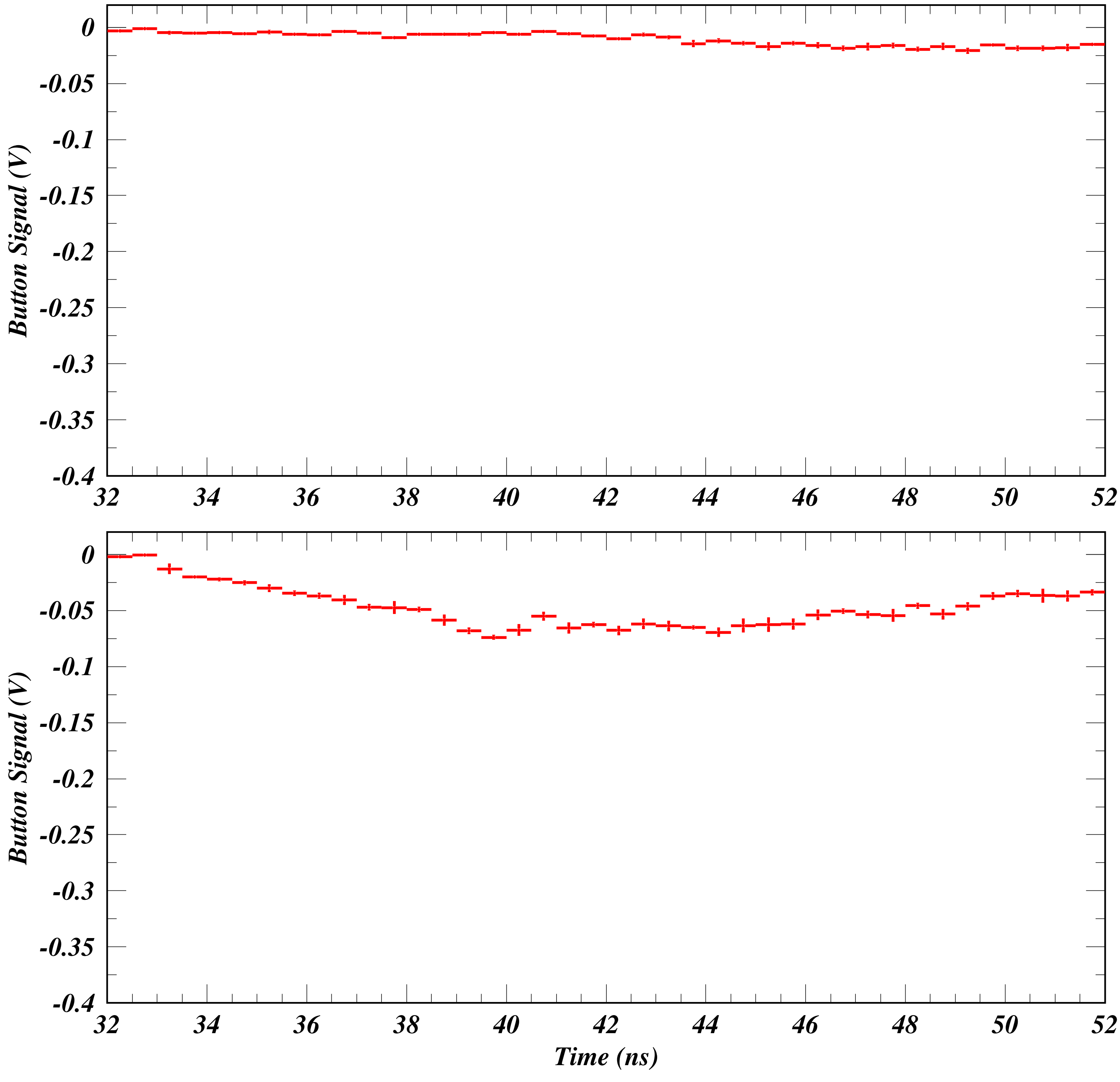
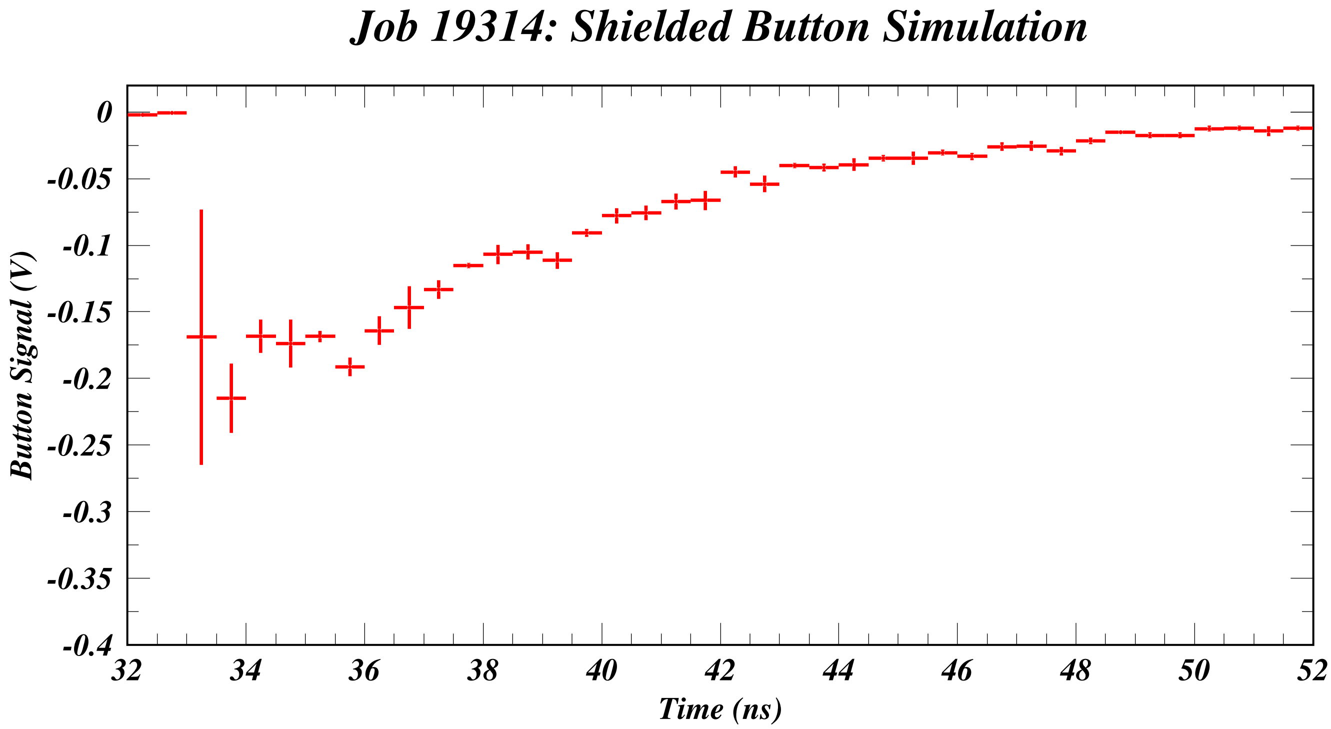
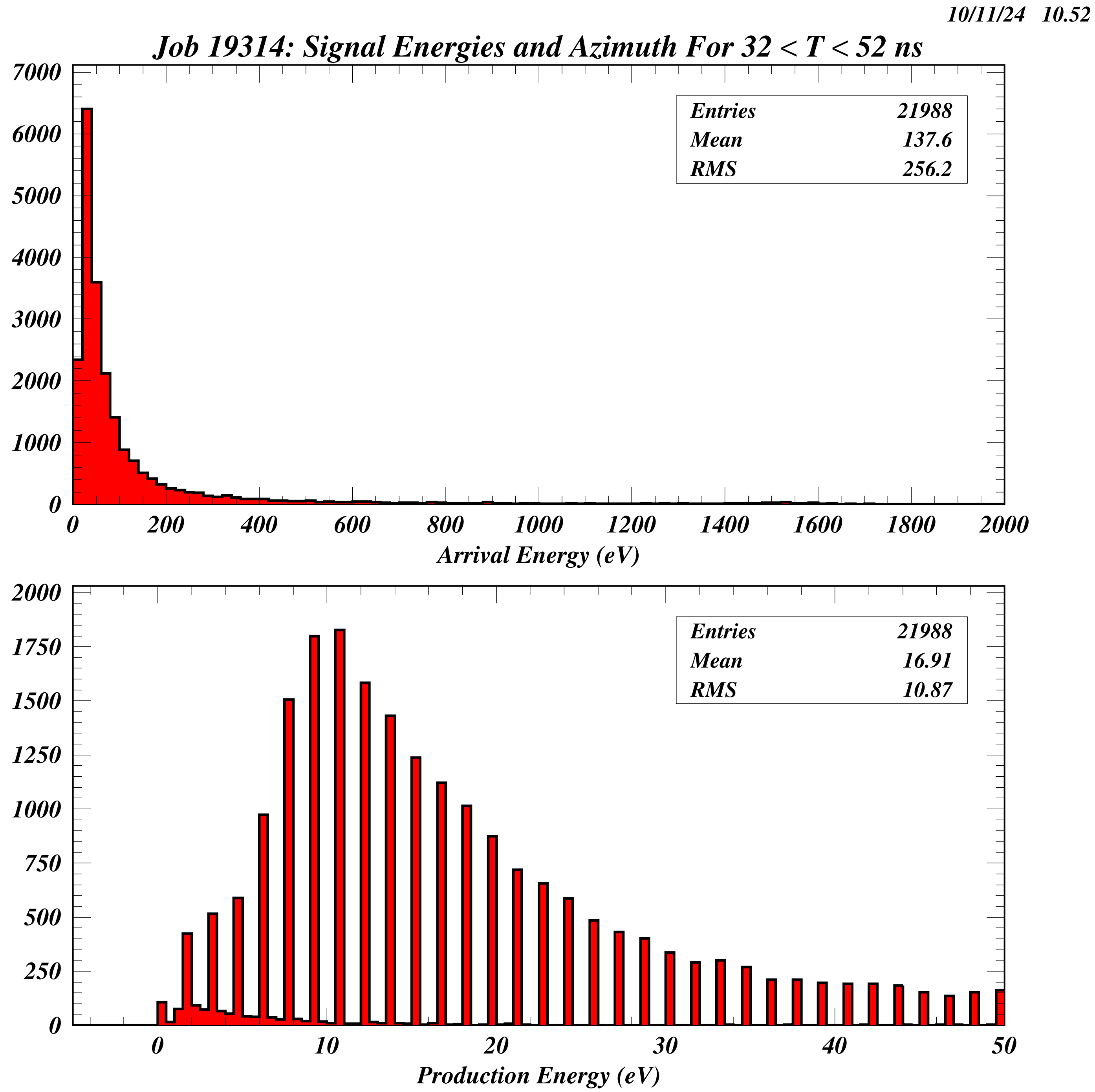
Job 19314: Shielded Button Simulation



10/11/24   10.52

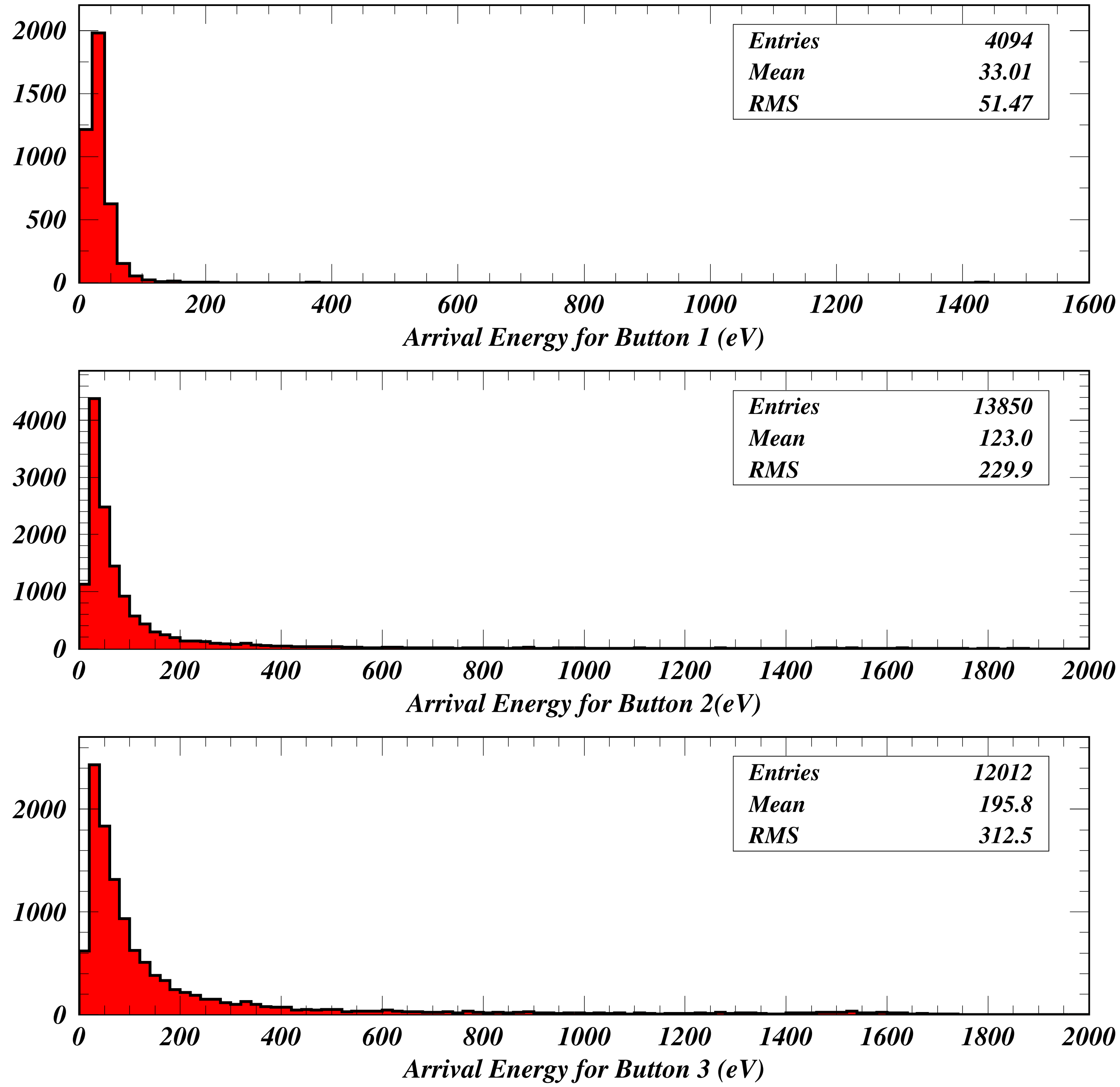


Job 19314: Shielded Button Simulation
Button Signal (V)
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
-0.35
-0.4
32
34
36
38
40
42
44
46
48
50
52
Time (ns)

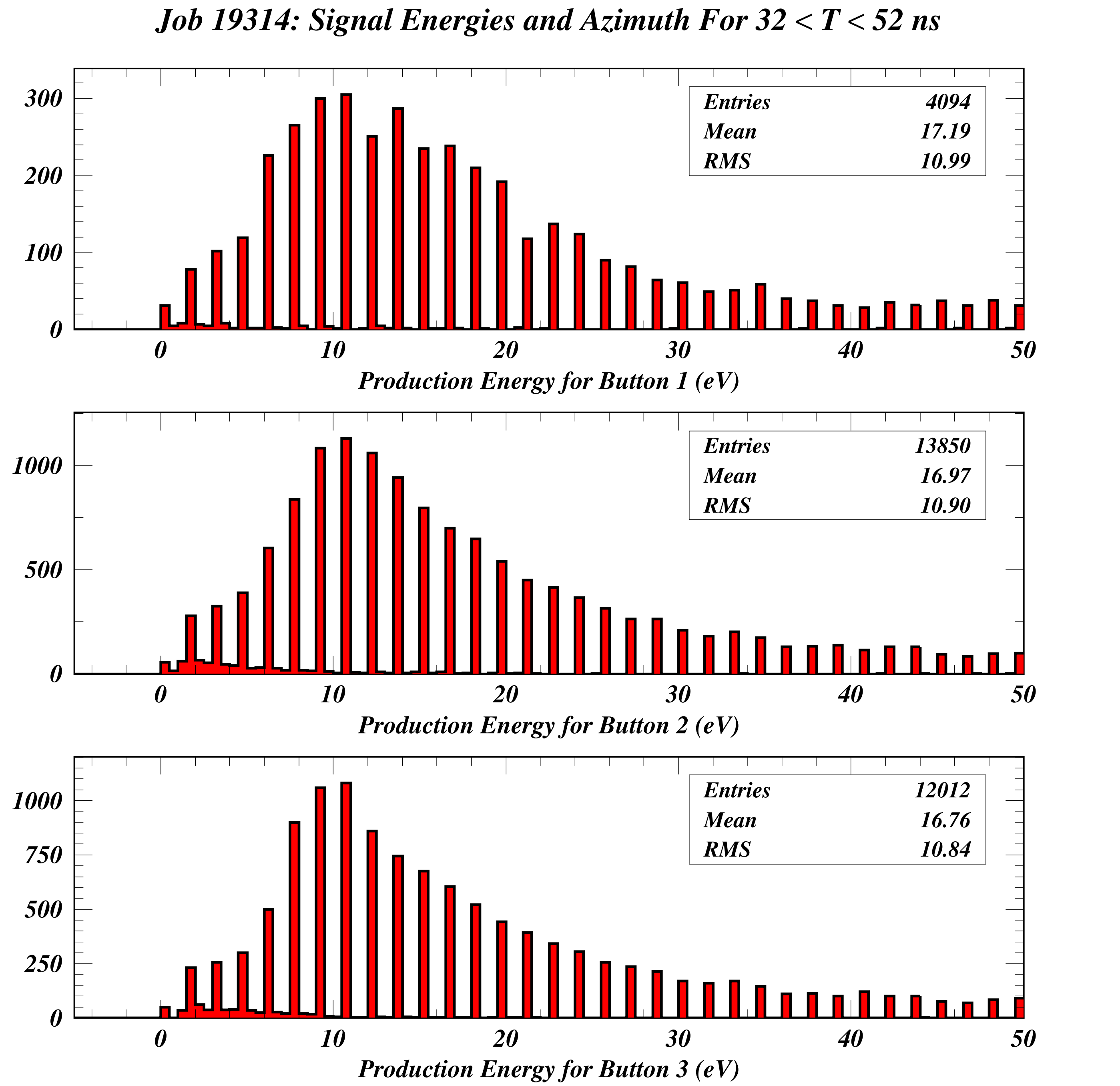

10/11/24 10.52
Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns
Entries 21988
Mean 137.6
RMS 256.2
Arrival Energy (eV)
Entries 21988
Mean 16.91
RMS 10.87
Production Energy (eV)

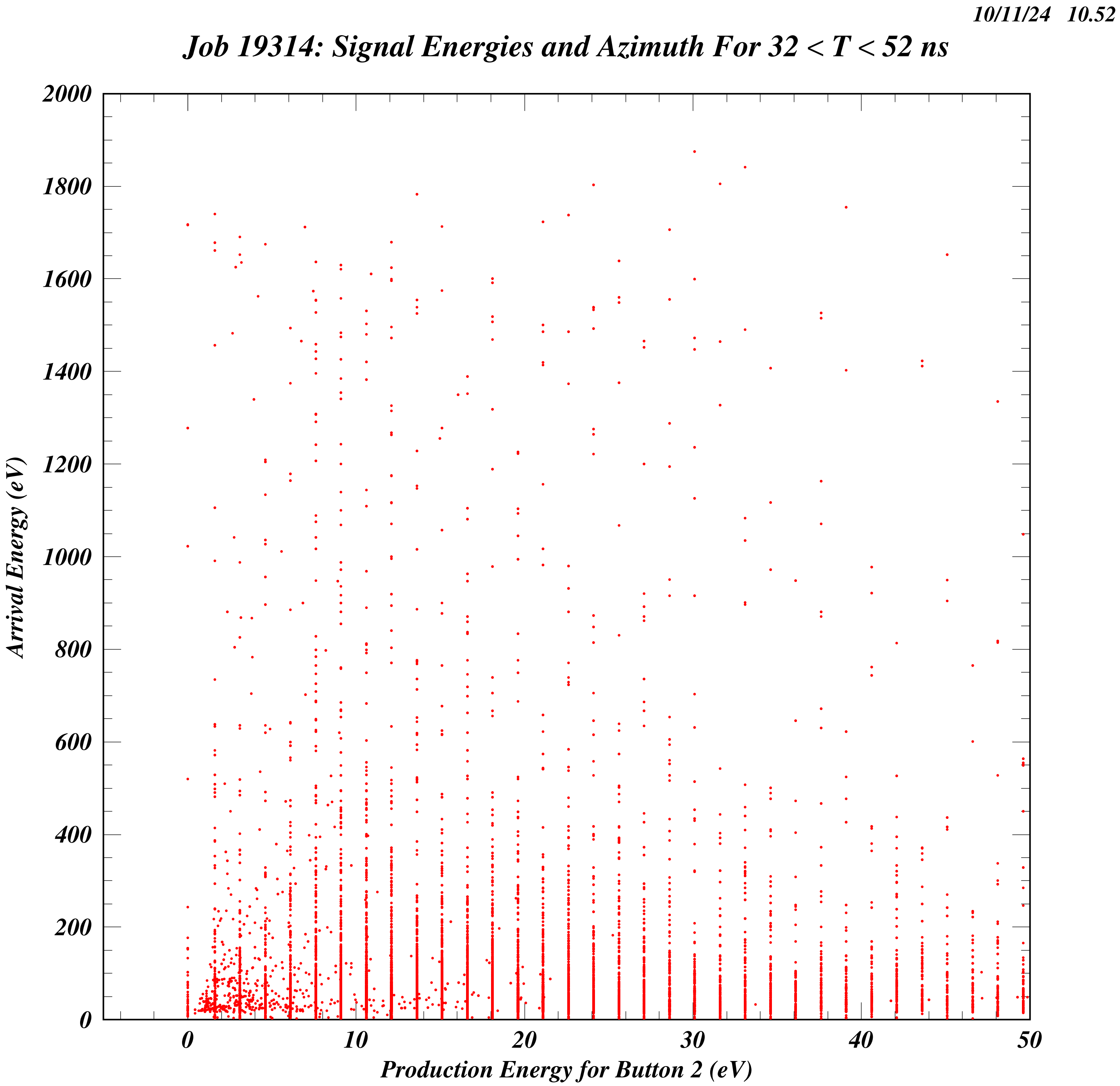
10/11/24 10.52

Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns

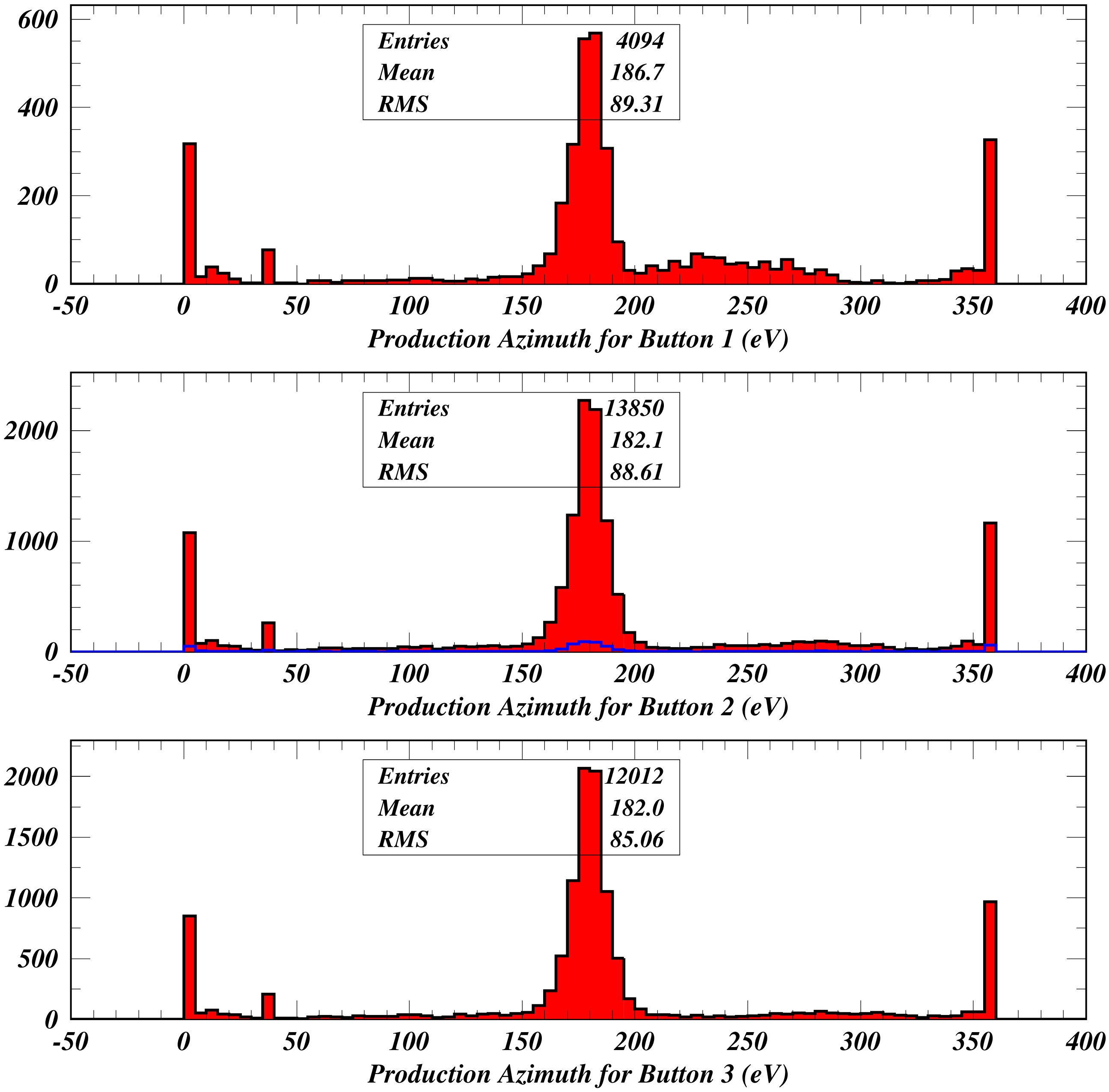


10/11/24 10.52


Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns
Entries 4094
Mean 17.19
RMS 10.99
300
200
100
0
0
10
20
30
40
50
Production Energy for Button 1 (eV)
Entries 13850
Mean 16.97
RMS 10.90
1000
500
0
0
10
20
30
40
50
Production Energy for Button 2 (eV)
Entries 12012
Mean 16.76
RMS 10.84
1000
750
500
250
0
0
10
20
30
40
50
Production Energy for Button 3 (eV)

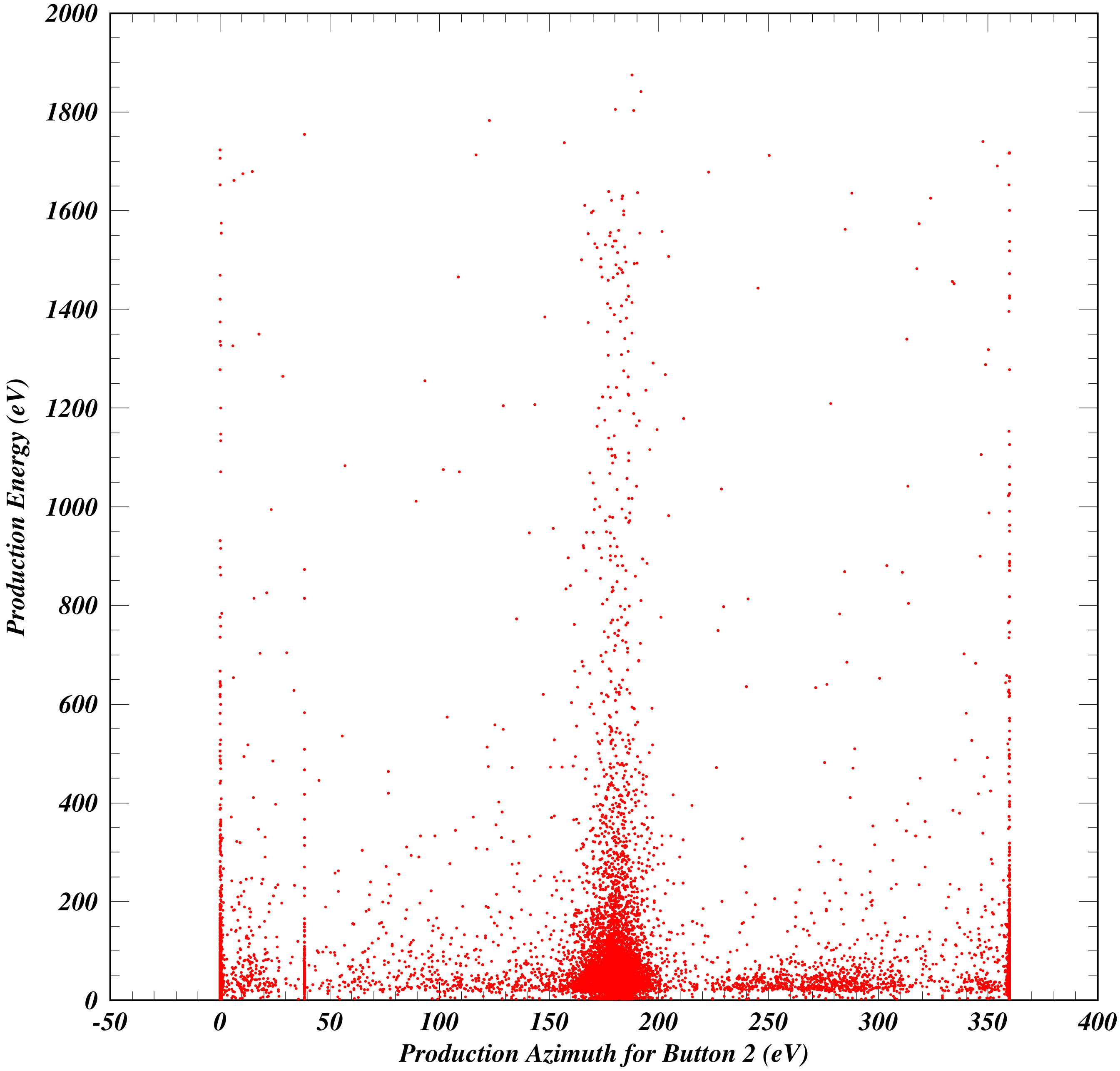

10/11/24 10.52
Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns
Arrival Energy (eV)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10
20
30
40
50
Production Energy for Button 2 (eV)

Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns



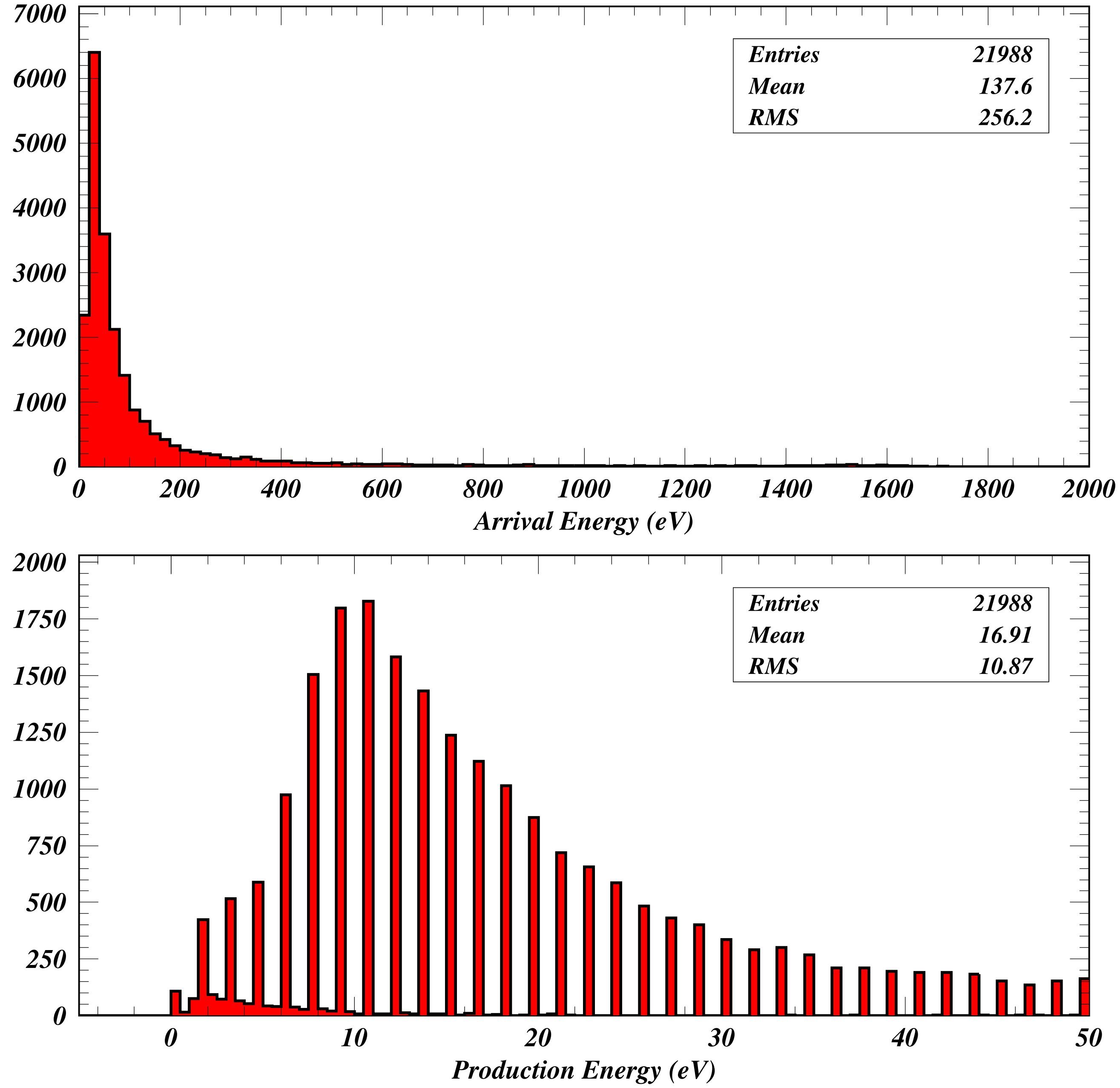
10/11/24 10.52

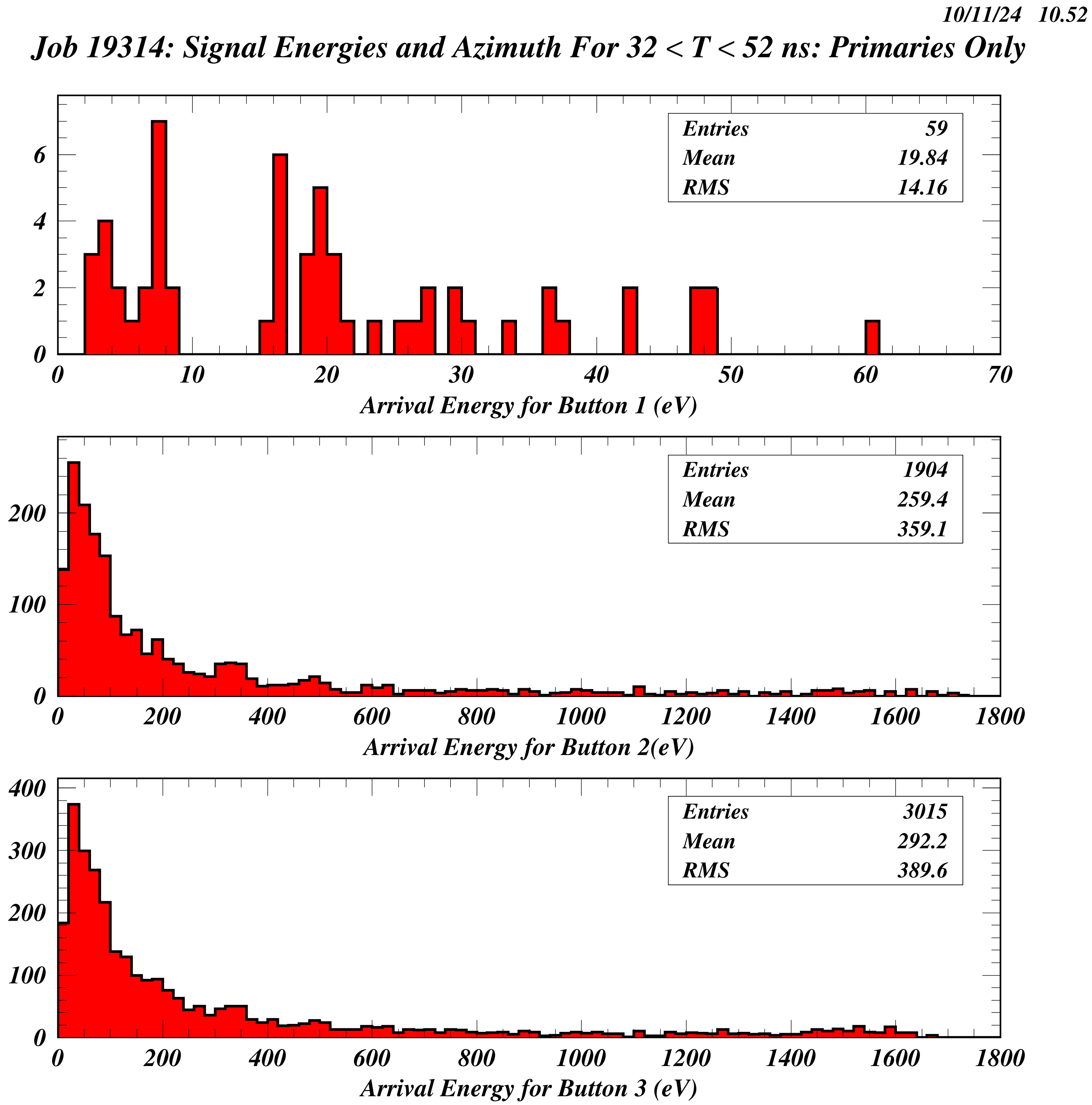
Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns



10/11/24 10.52

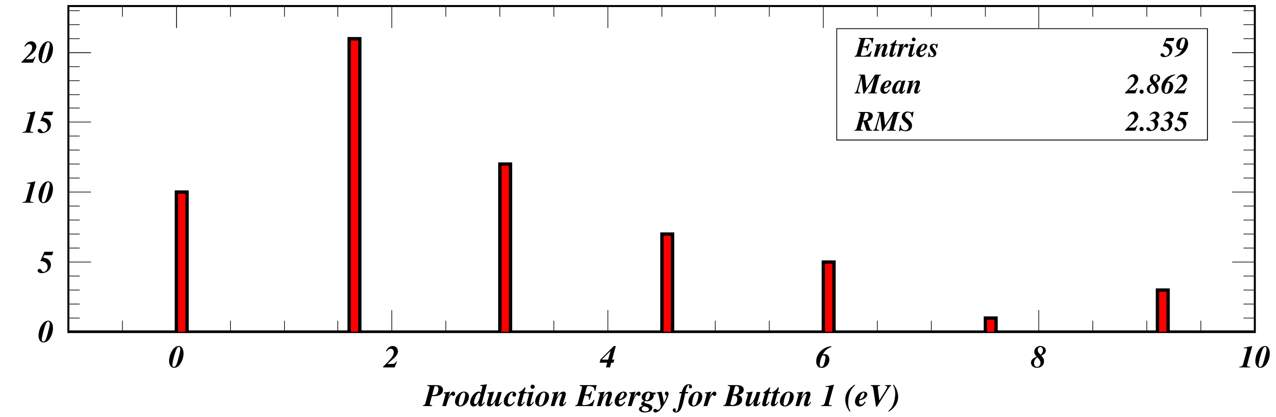
Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only

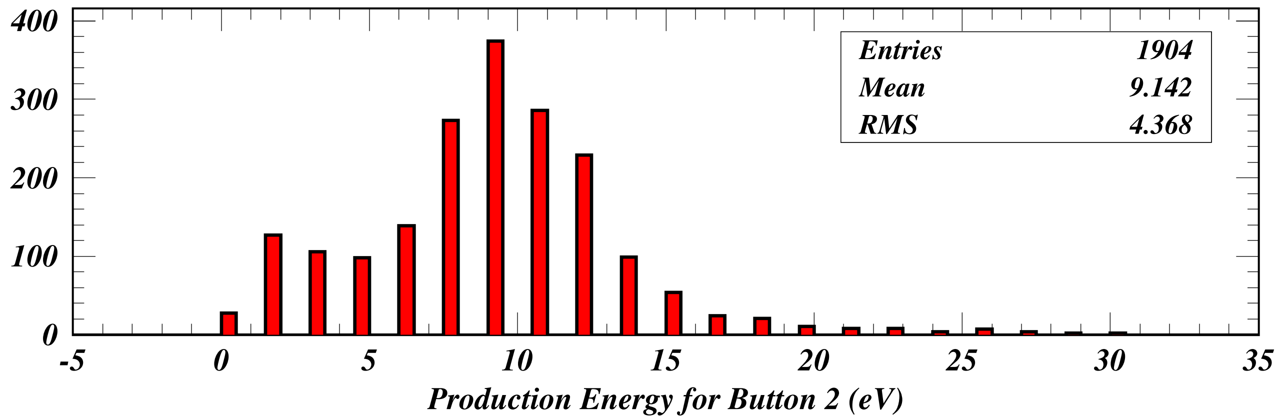


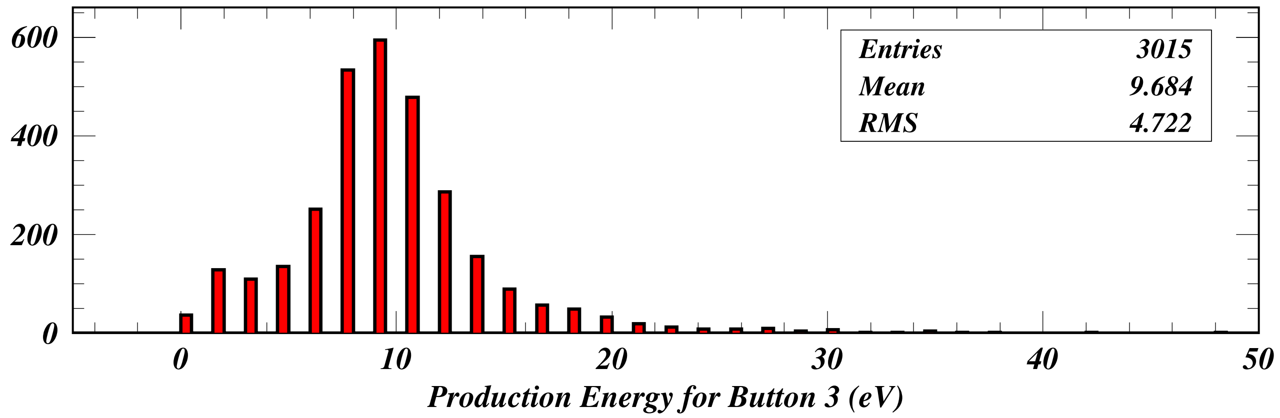

10/11/24 10.52
Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only
Entries 59
Mean 19.84
RMS 14.16
Arrival Energy for Button 1 (eV)
Entries 1904
Mean 259.4
RMS 359.1
Arrival Energy for Button 2(eV)
Entries 3015
Mean 292.2
RMS 389.6
Arrival Energy for Button 3 (eV)

10/11/24 10.52

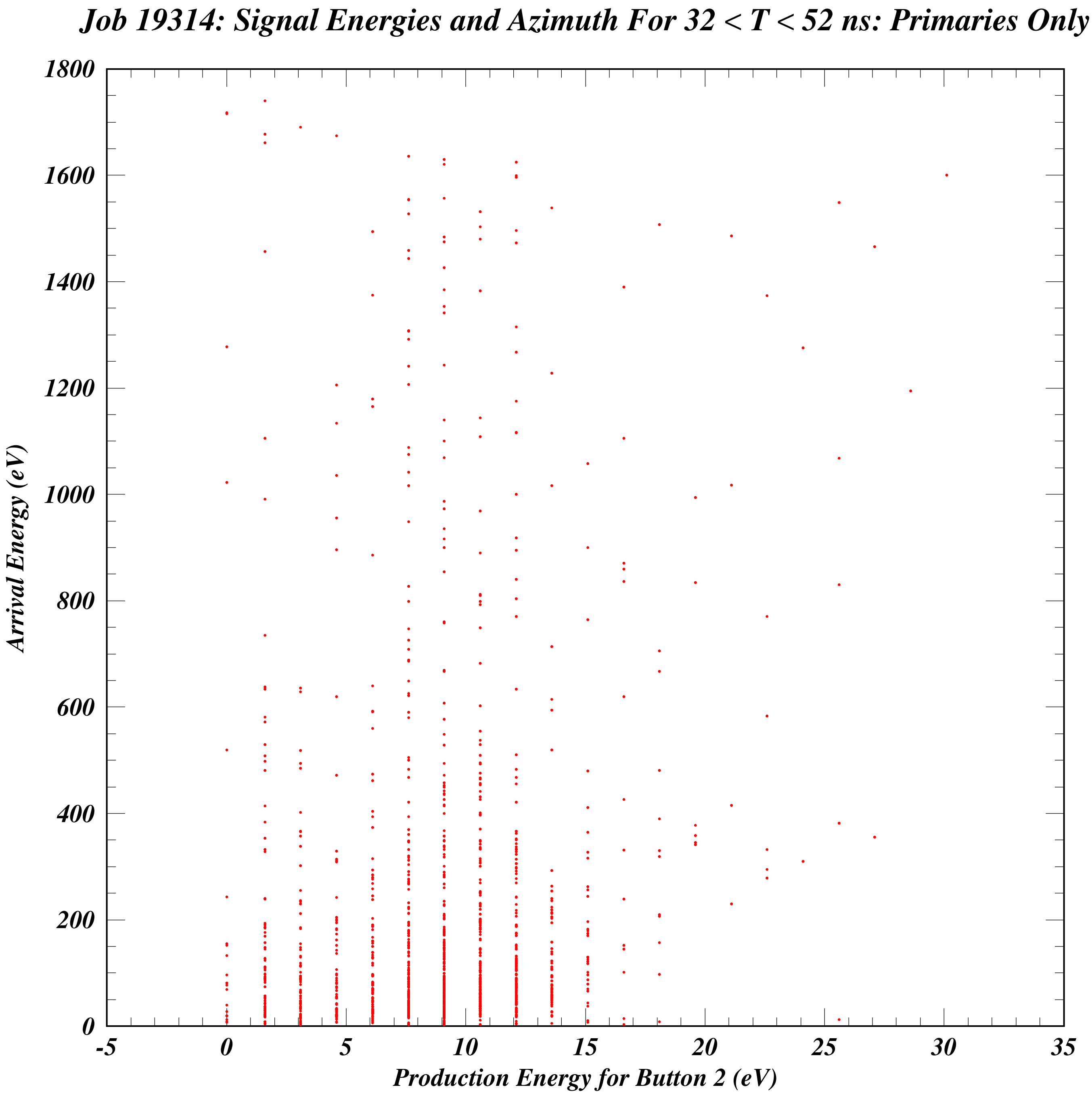
Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only





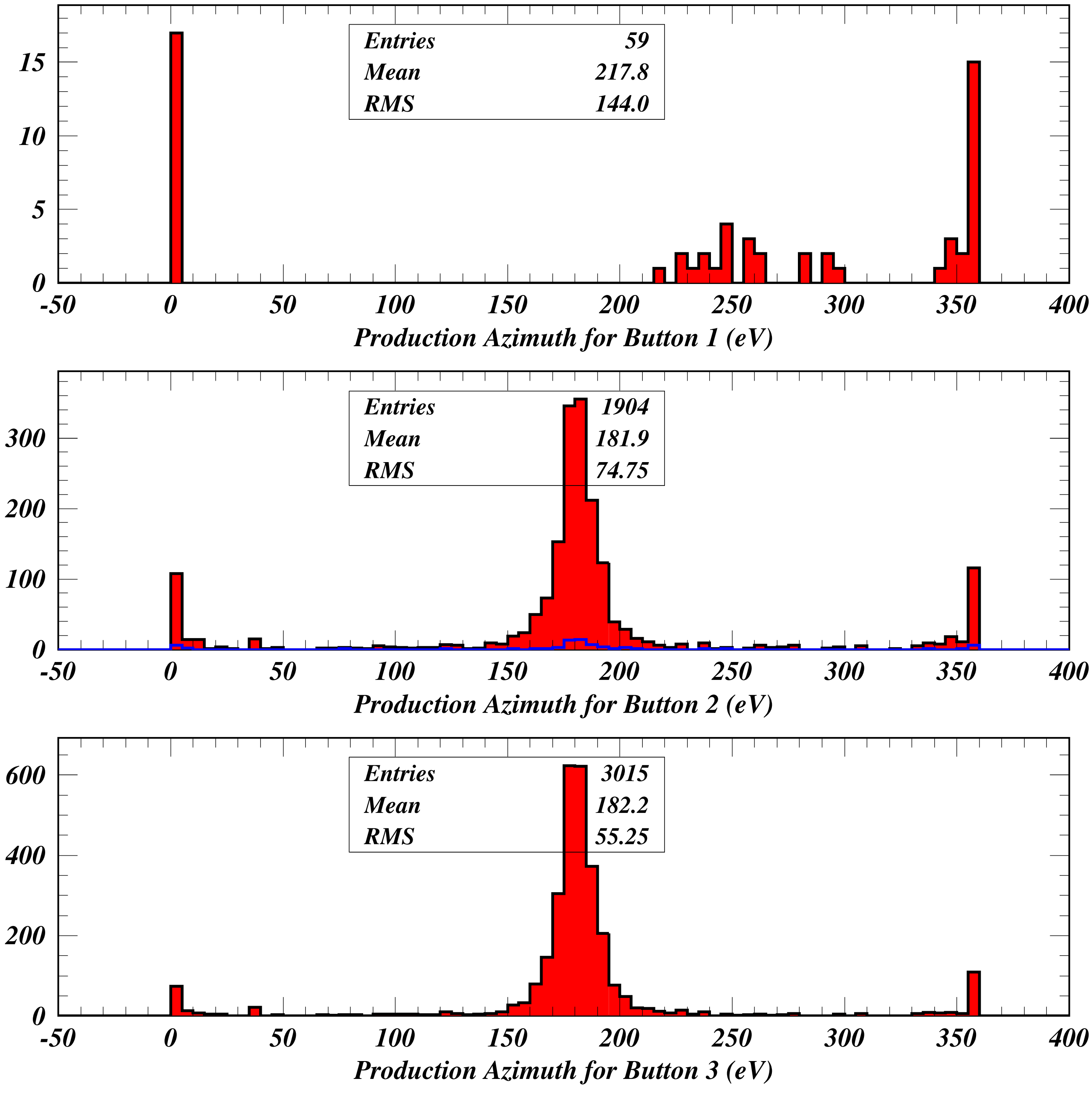


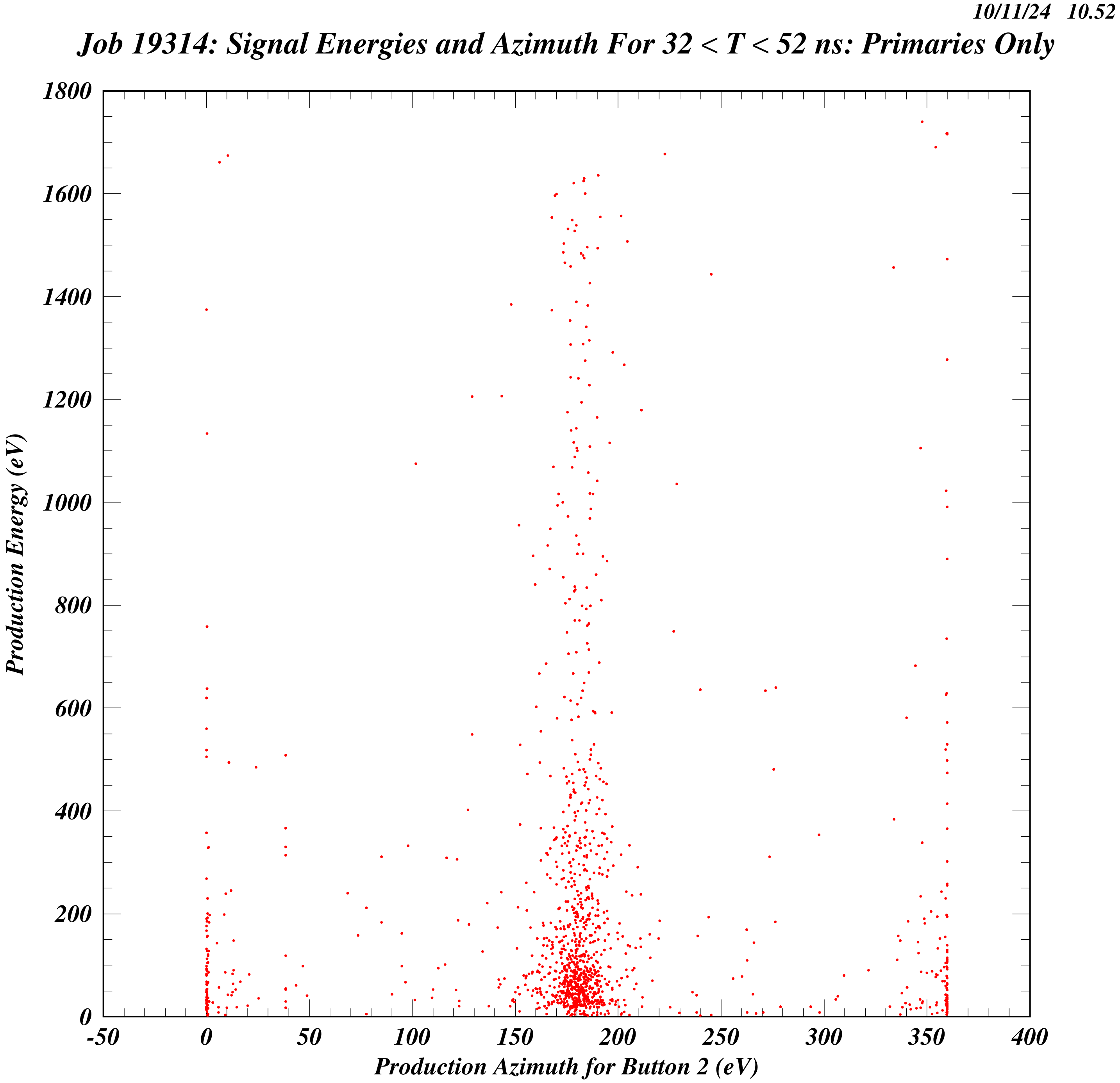
10/11/24 10.52


Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only
Arrival Energy (eV)
Production Energy for Button 2 (eV)
1800
1600
1400
1200
1000
800
600
400
200
0
-5
0
5
10
15
20
25
30
35

10/11/24 10.52

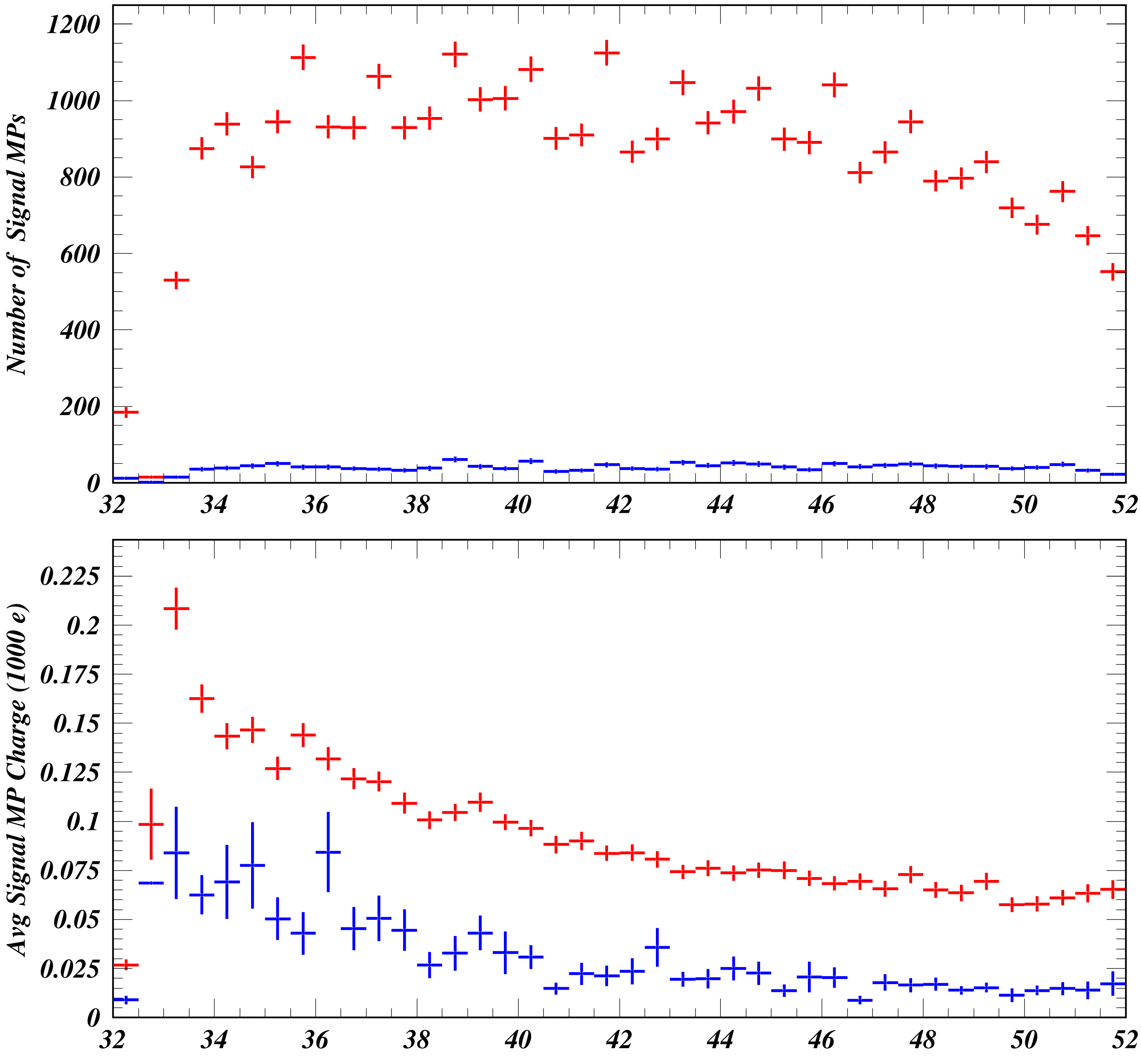
Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only




10/11/24 10.52
Job 19314: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only
Production Energy (eV)
0
200
400
600
800
1000
1200
1400
1600
1800
-50
0
50
100
150
200
250
300
350
400
Production Azimuth for Button 2 (eV)

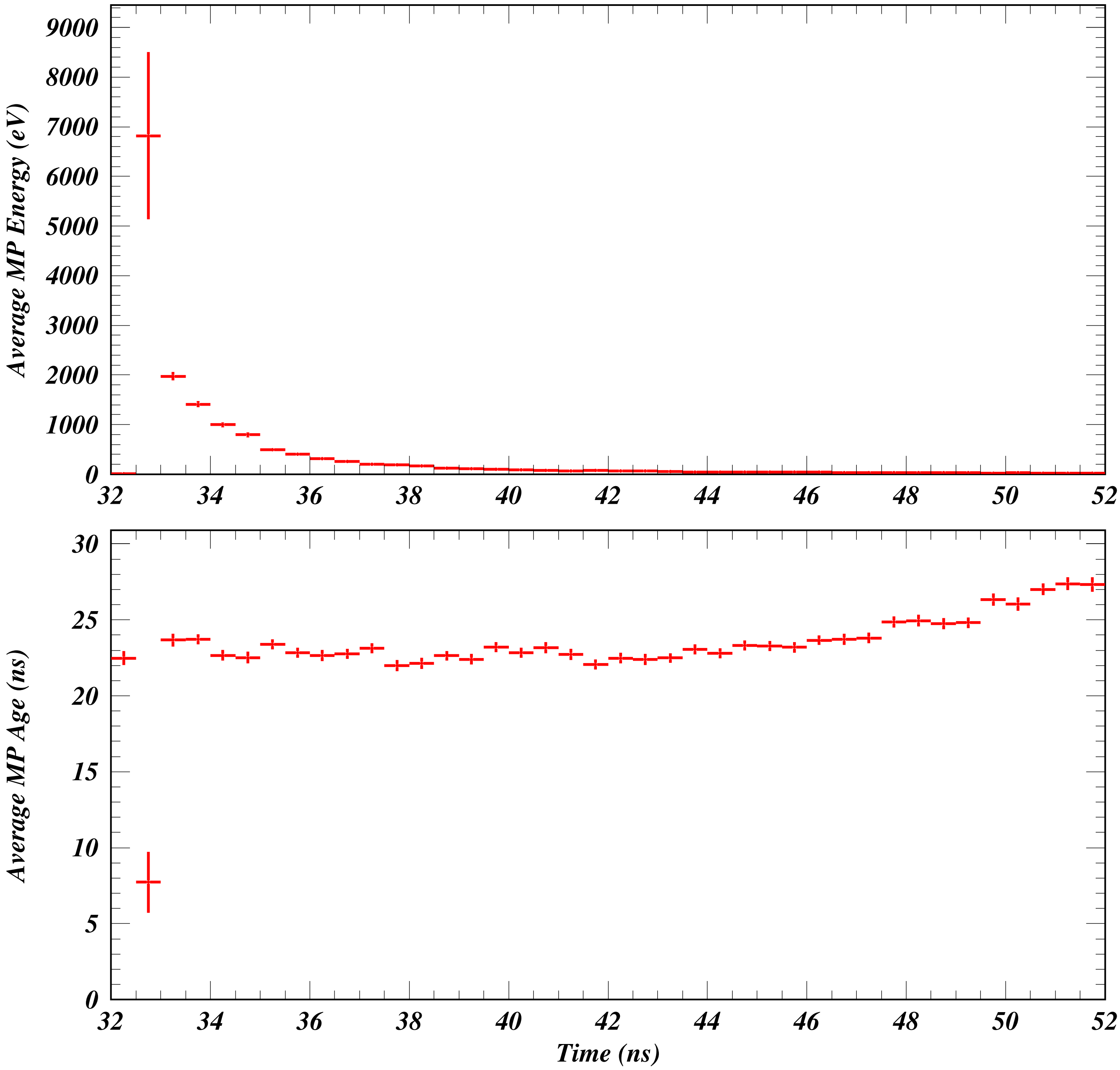
10/11/24   10.52

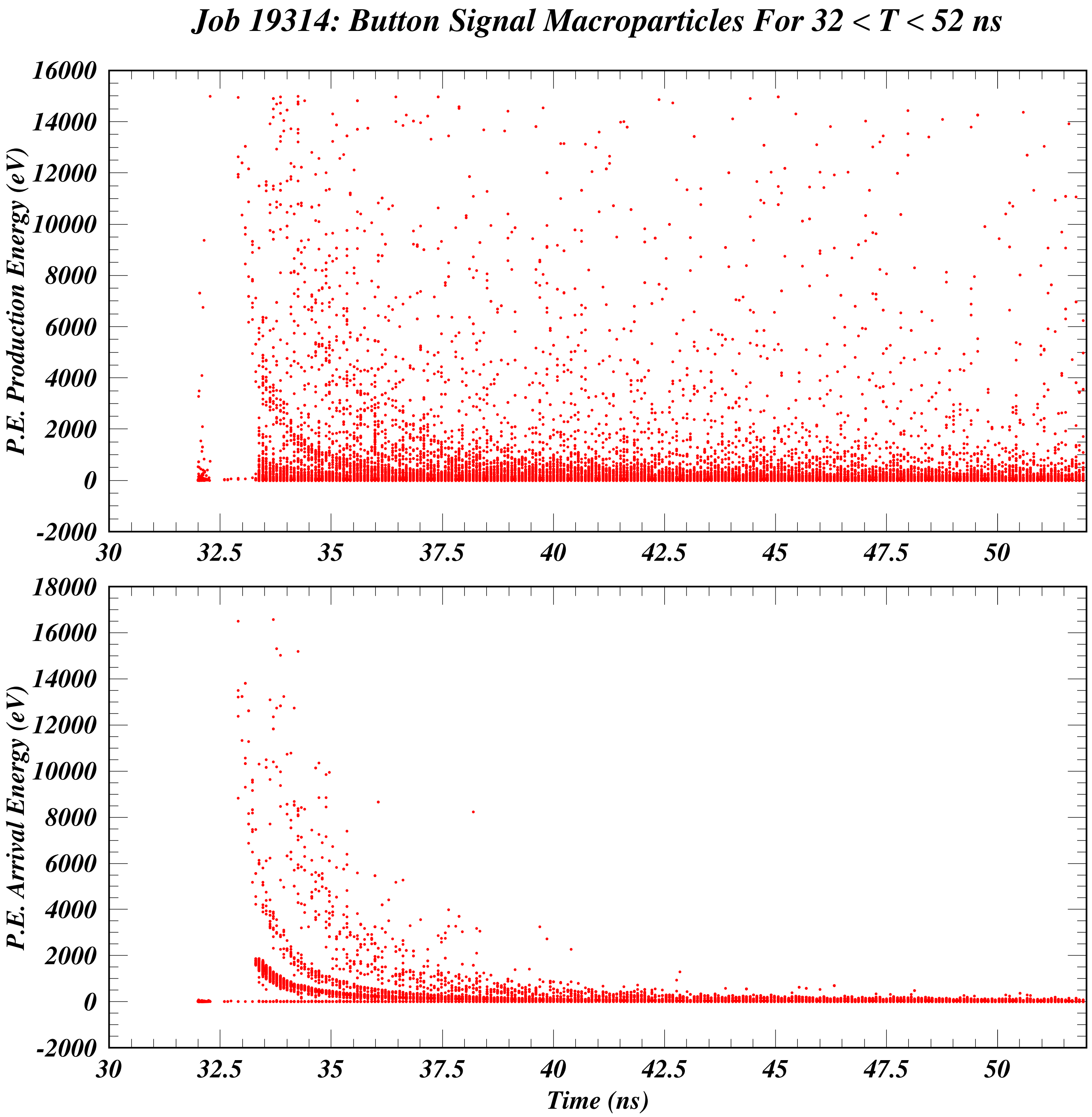
Job 19314: Button Signal Macroparticles For 32 < T < 52 ns



10/11/24 10.52

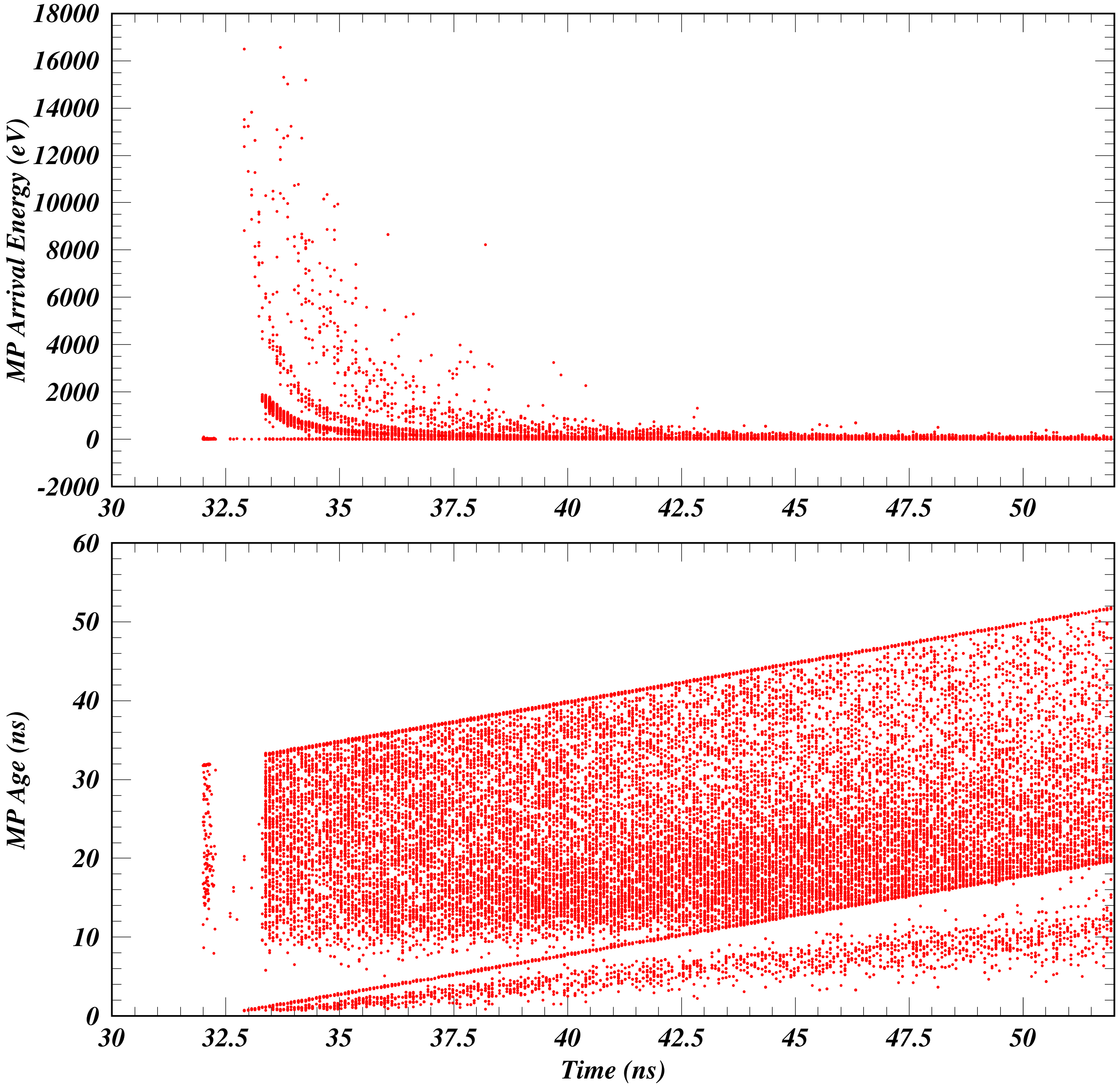
Job 19314: Button Signal Macroparticles For 32 < T < 52 ns

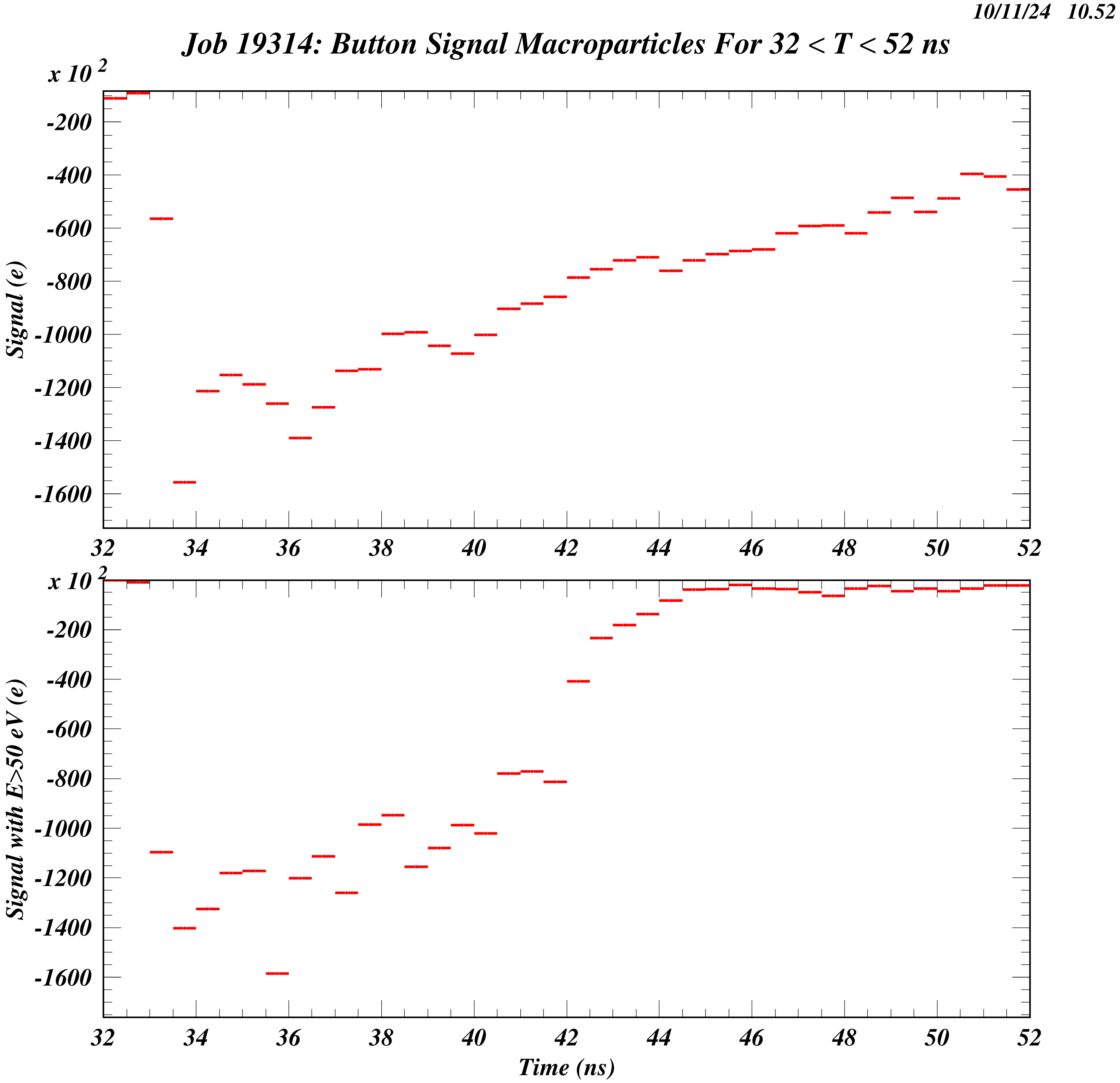



Job 19314: Button Signal Macroparticles For 32 < T < 52 ns
P.E. Production Energy (eV)
16000
14000
12000
10000
8000
6000
4000
2000
0
-2000
30
32.5
35
37.5
40
42.5
45
47.5
50
P.E. Arrival Energy (eV)
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
-2000
Time (ns)

10/11/24 10.52

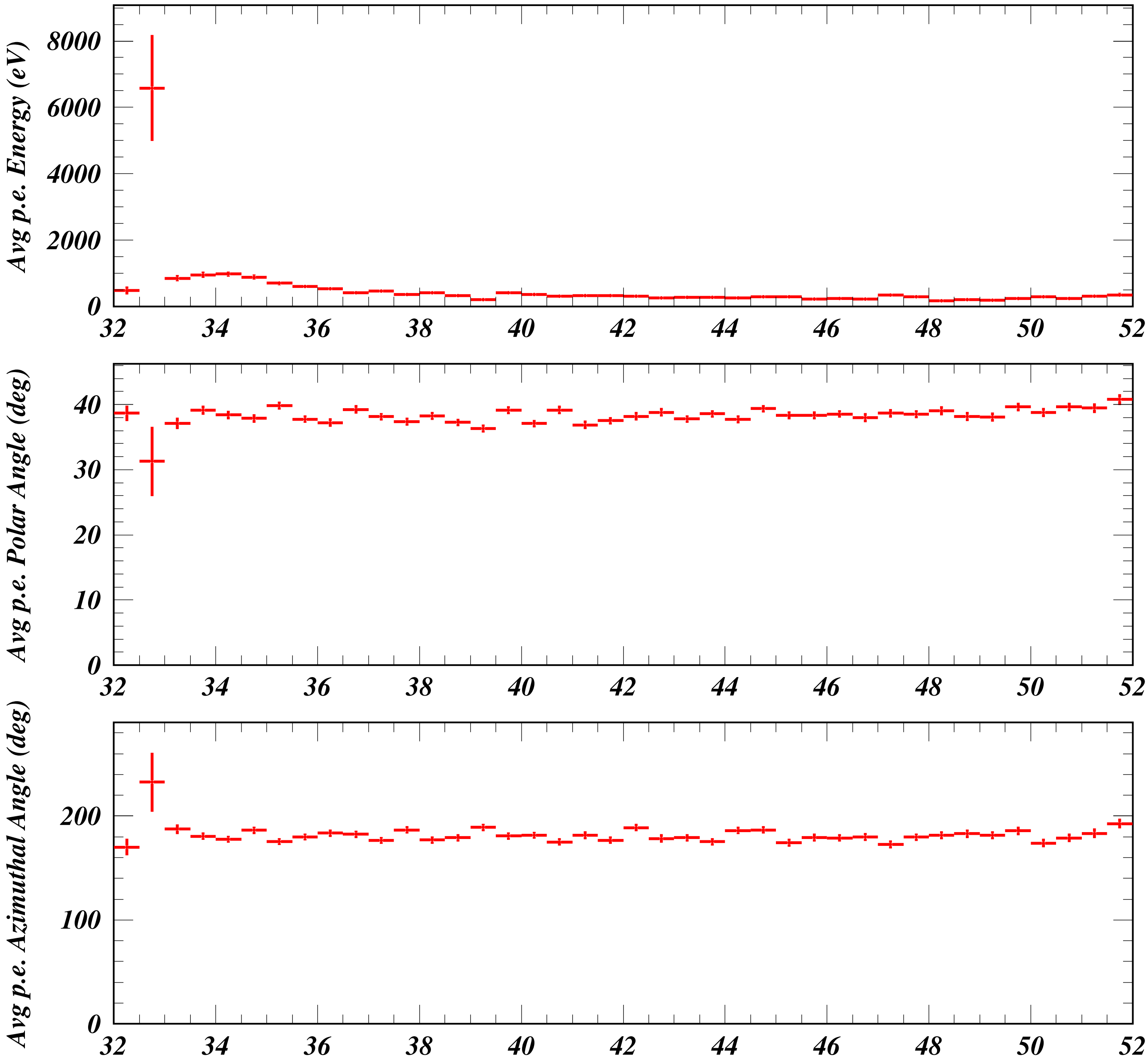
Job 19314: Button Signal Macroparticles For 32 < T < 52 ns

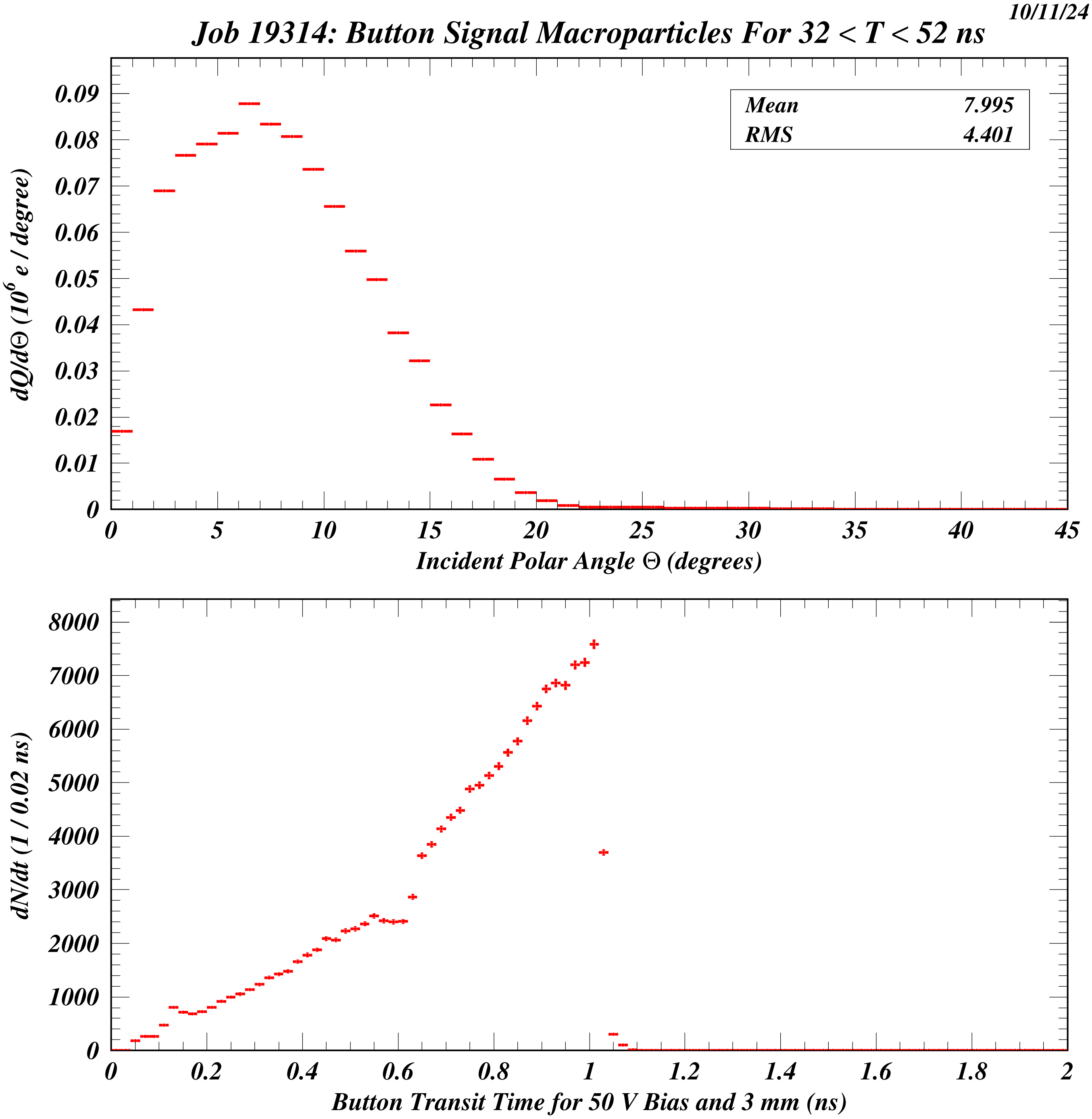



10/11/24 10.52
Job 19314: Button Signal Macroparticles For 32 < T < 52 ns
x 10 2
-200
-400
-600
-800
-1000
-1200
-1400
-1600
Signal (e)
32
34
36
38
40
42
44
46
48
50
52
x 10 2
Signal with E>50 eV (e)
Time (ns)

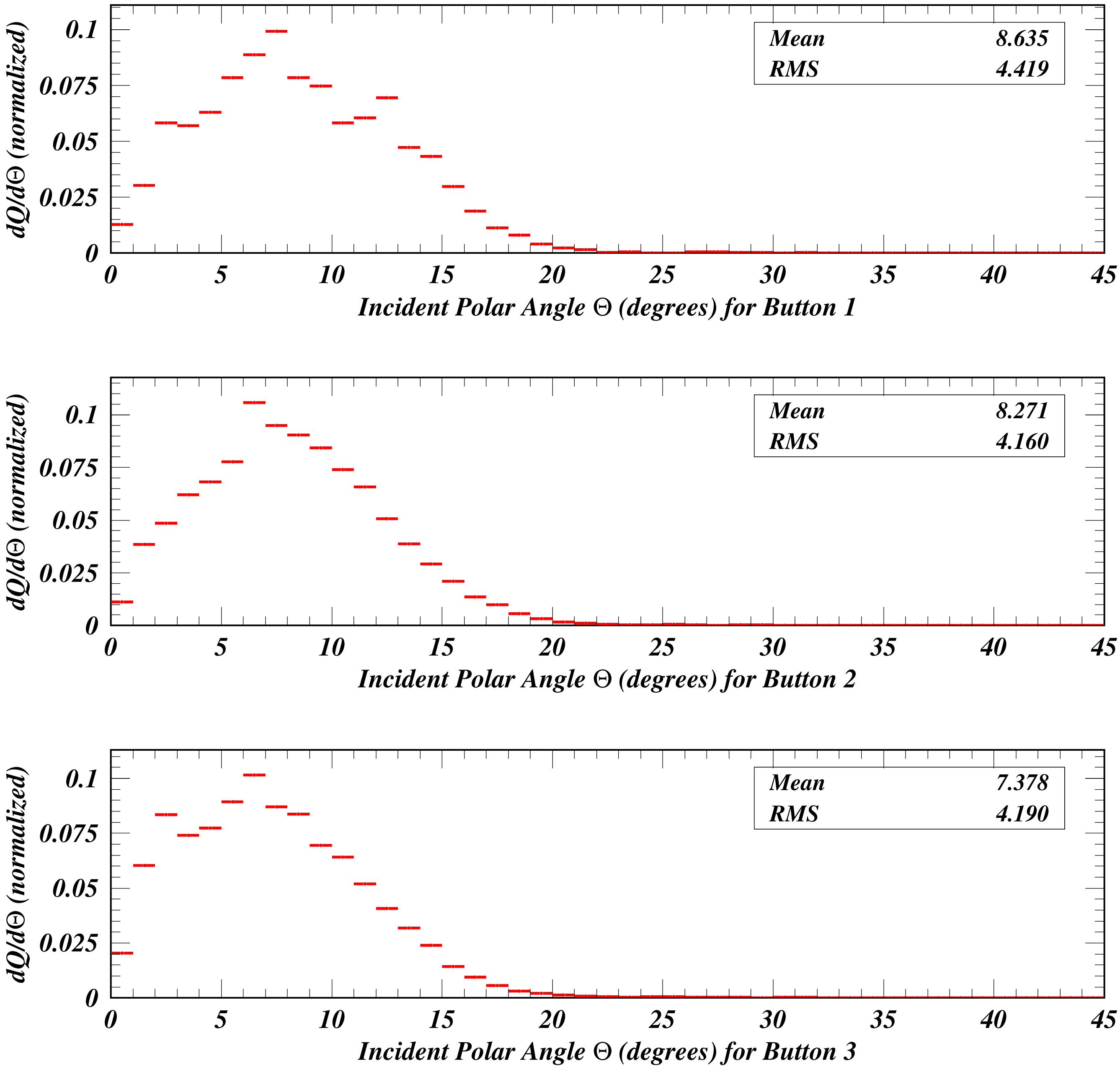
10/11/24   10.52

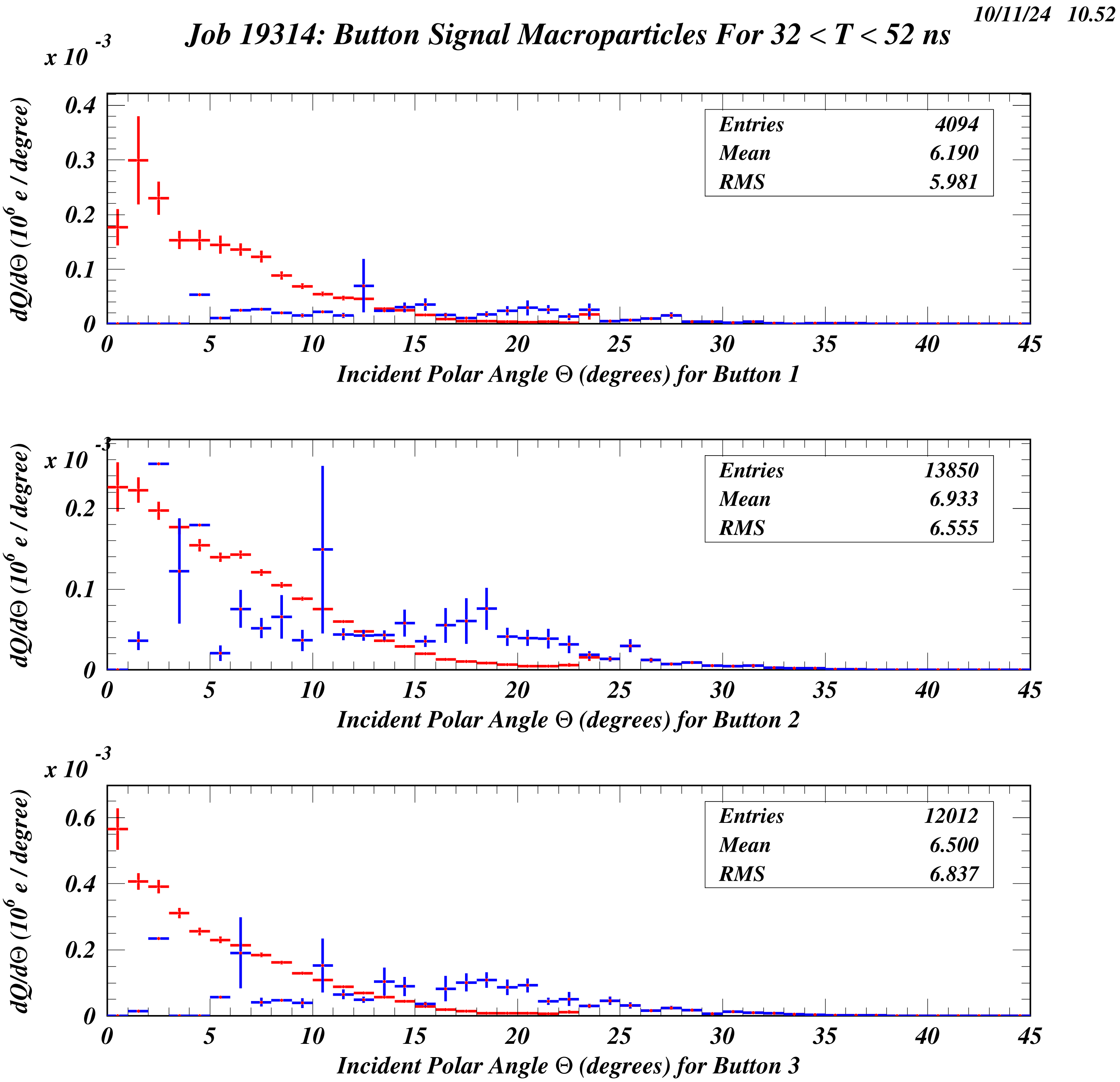
Job 19314: Button Signal Macroparticles For 32 < T < 52 ns




Job 19314: Button Signal Macroparticles For 32 < T < 52 ns
Mean 7.995
RMS 4.401
dQ/dΘ (10^6 e / degree)
0 0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09
0 5 10 15 20 25 30 35 40 45
Incident Polar Angle Θ (degrees)
dN/dt (1 / 0.02 ns)
0 1000 2000 3000 4000 5000 6000 7000 8000
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)

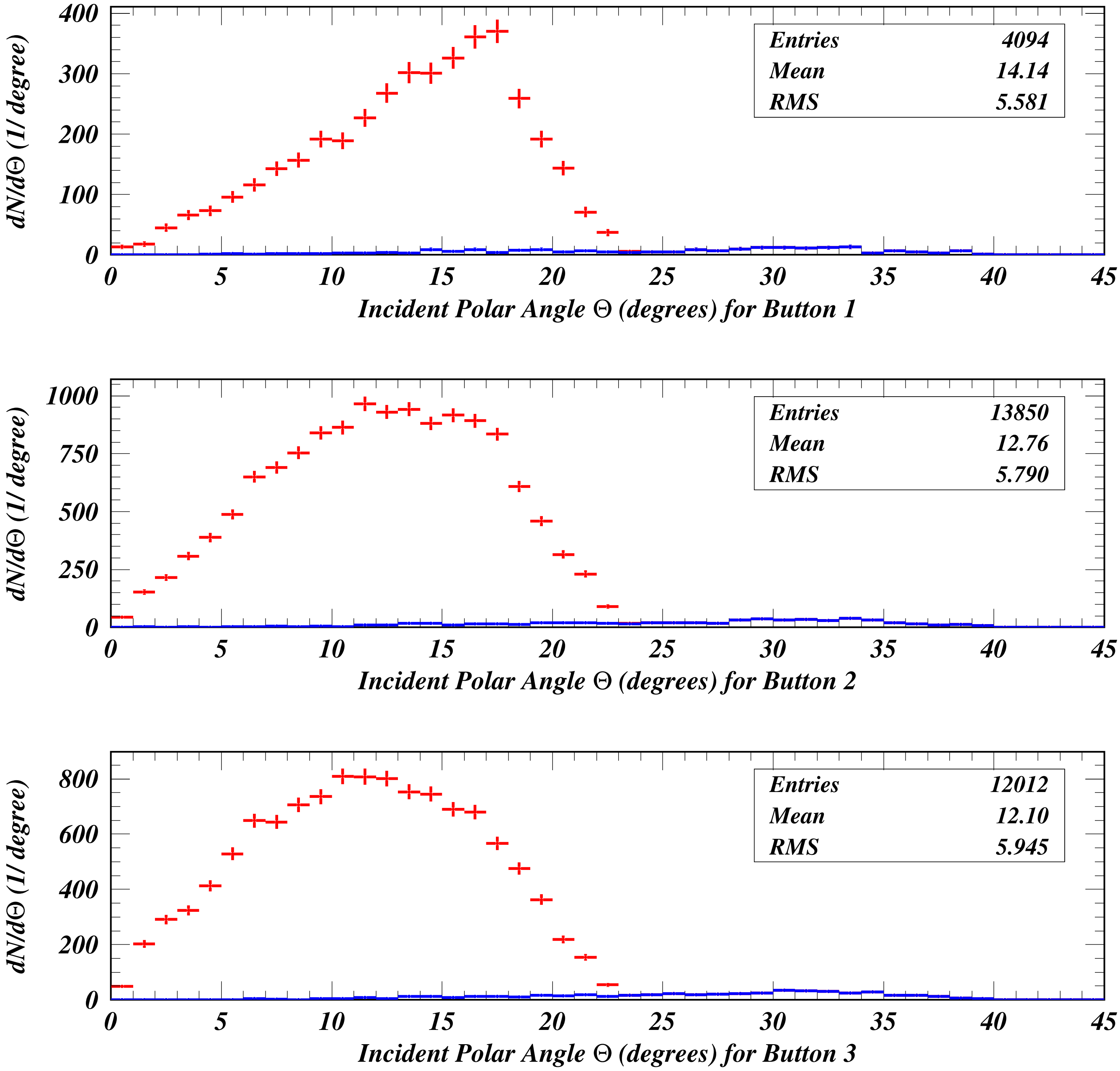
Job 19314: Button Signal Macroparticles For 32 < T < 52 ns




10/11/24 10.52
Job 19314: Button Signal Macroparticles For 32 < T < 52 ns
x 10^-3
dQ/dΘ (10^6 e / degree)
Entries 4094
Mean 6.190
RMS 5.981
Incident Polar Angle Θ (degrees) for Button 1
Entries 13850
Mean 6.933
RMS 6.555
Incident Polar Angle Θ (degrees) for Button 2
Entries 12012
Mean 6.500
RMS 6.837
Incident Polar Angle Θ (degrees) for Button 3

10/11/24 10.52

Job 19314: Button Signal Macroparticles For 32 < T < 52 ns



10/11/24 10.52

Job 19314: Button Signal Macroparticles For 32 < T < 52 ns