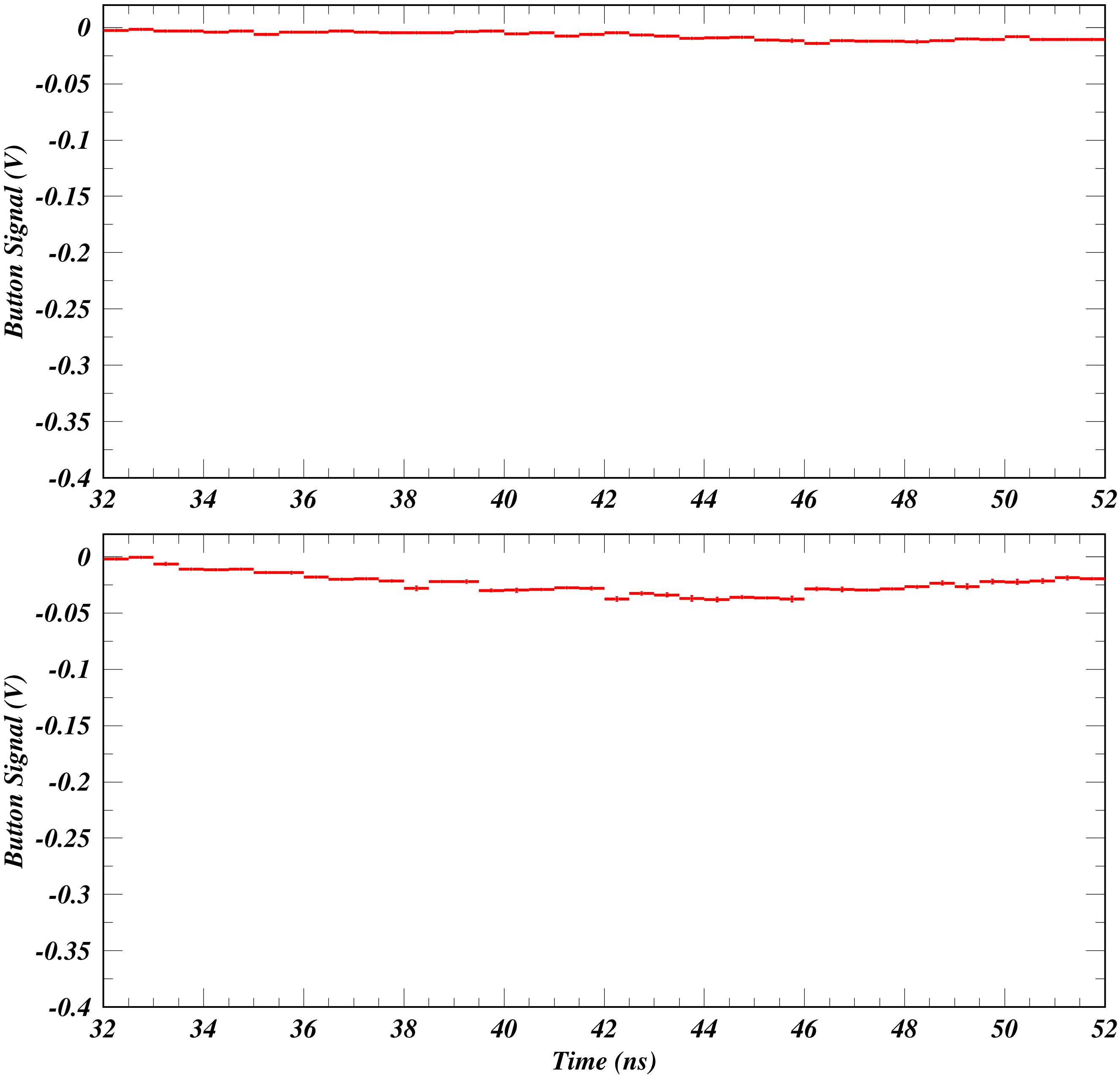
10/11/24 10.53

Job 19005: Shielded Button Simulation



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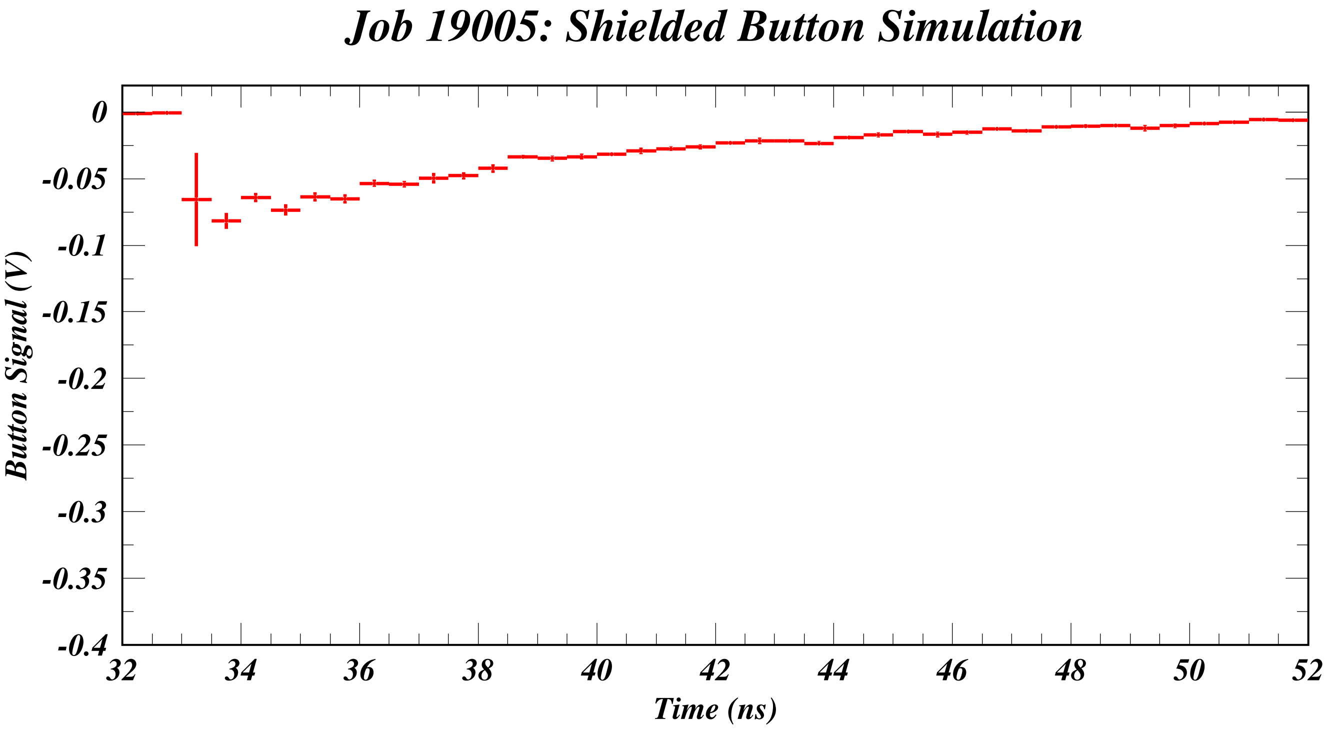
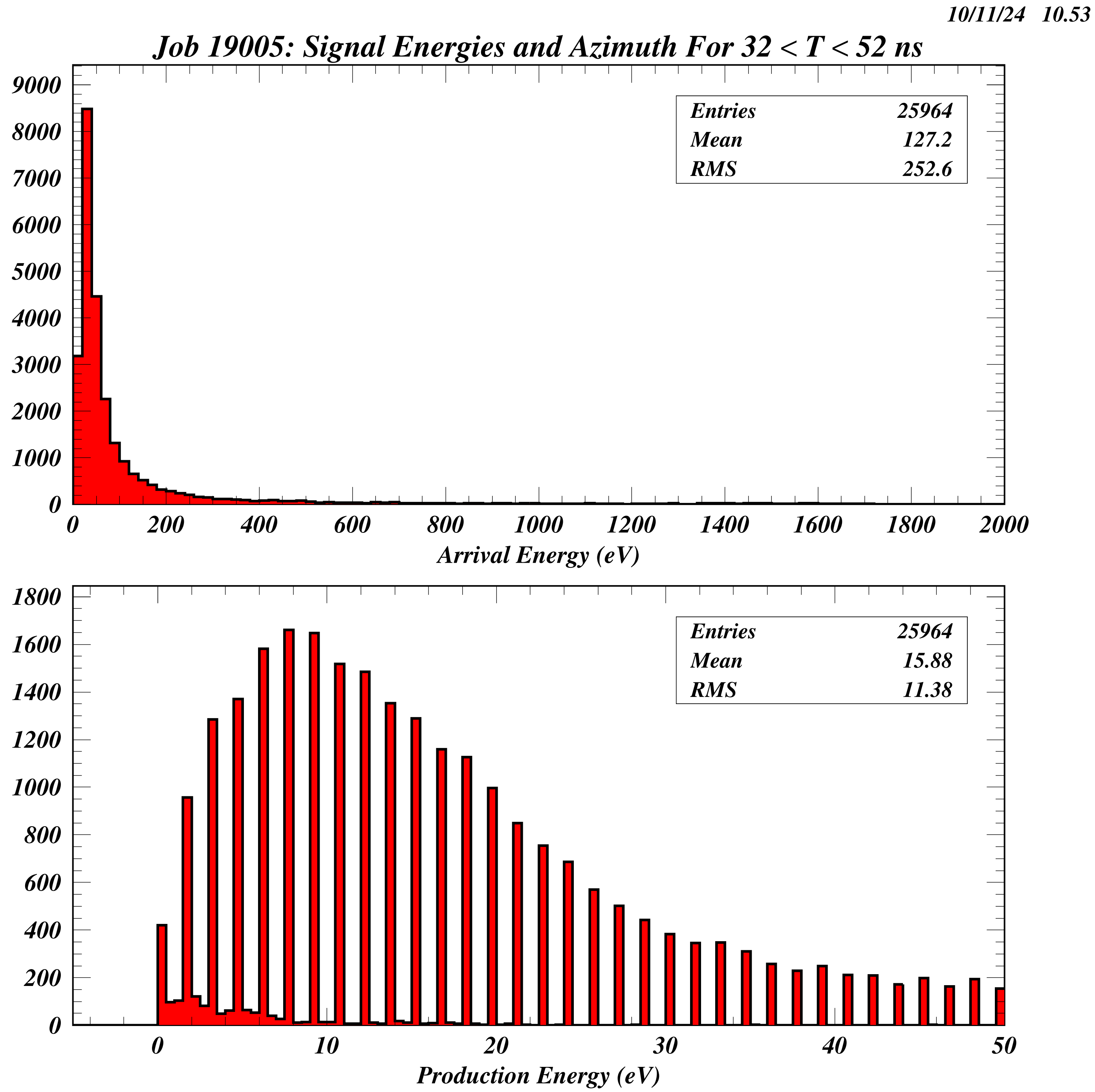


Job 19005: Shielded Button Simulation
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
-0.35
-0.4
Button Signal (V)
32
34
36
38
40
42
44
46
48
50
52
Time (ns)


10/11/24 10.53
Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns
Entries 25964
Mean 127.2
RMS 252.6
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0 200 400 600 800 1000 1200 1400 1600 1800 2000
Arrival Energy (eV)
Entries 25964
Mean 15.88
RMS 11.38
0
200
400
600
800
1000
1200
1400
1600
1800
0 10 20 30 40 50
Production Energy (eV)

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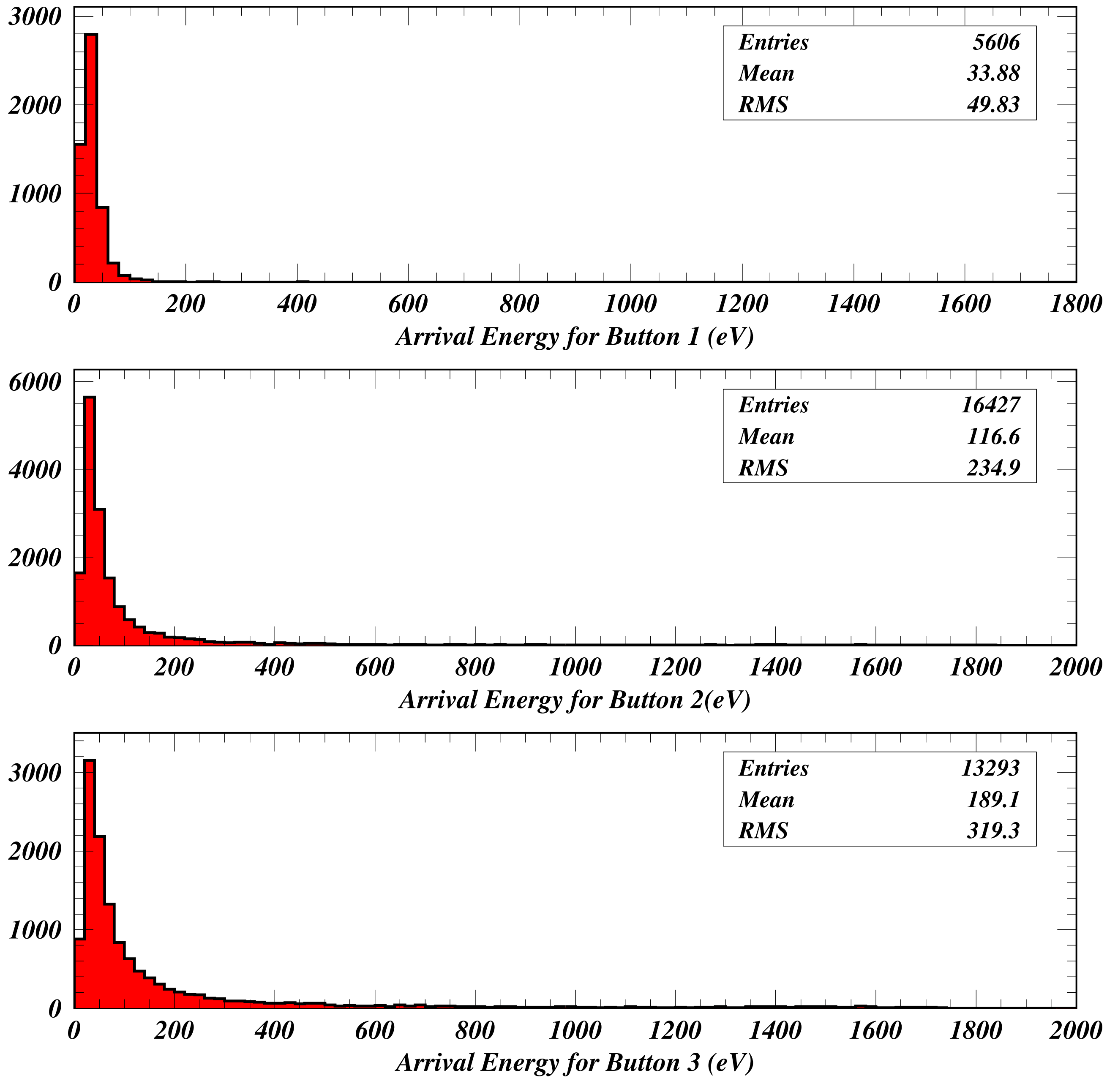
Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns



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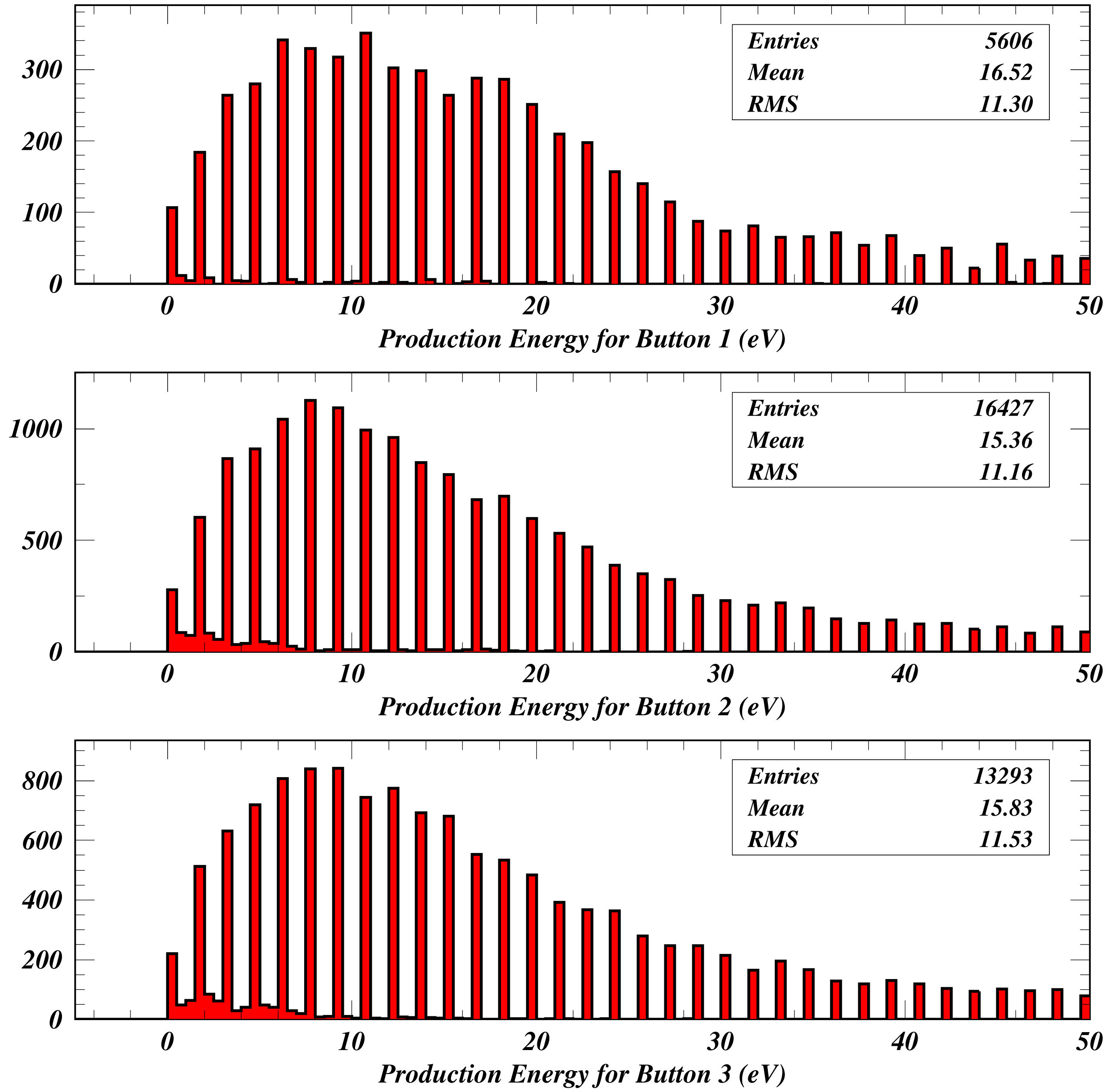
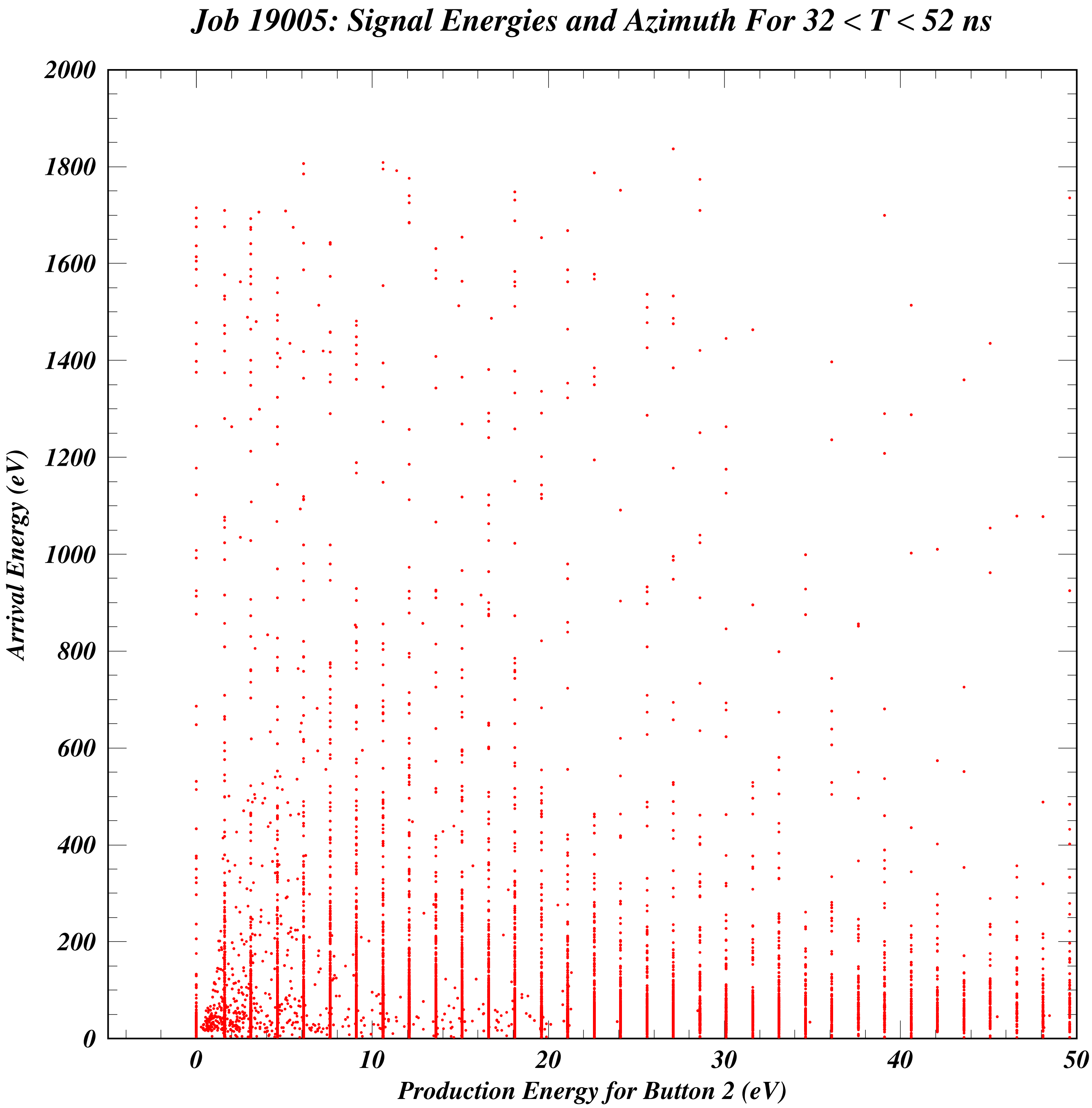
Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns



10/11/24 10.53


Job 19005: 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)

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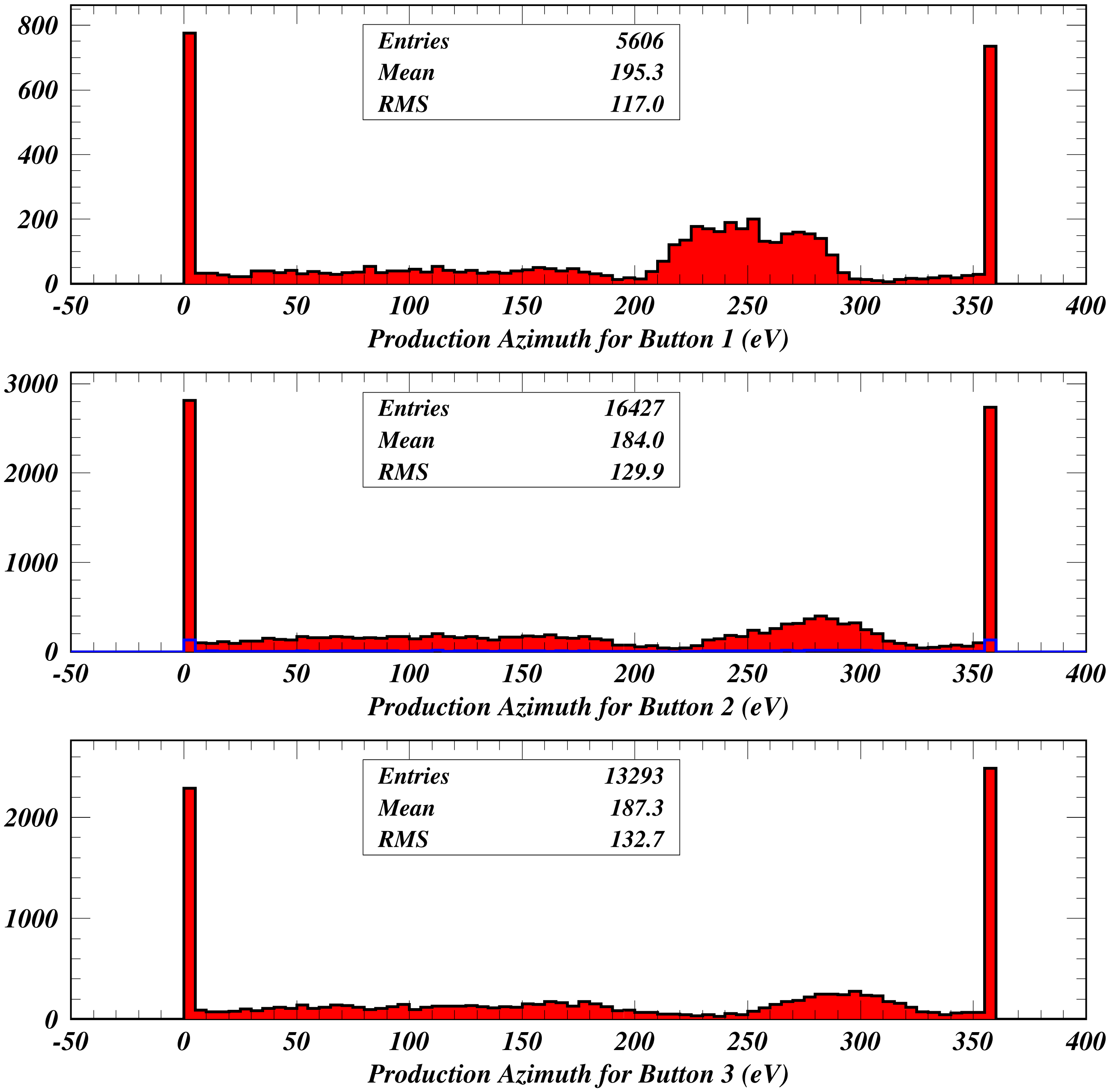
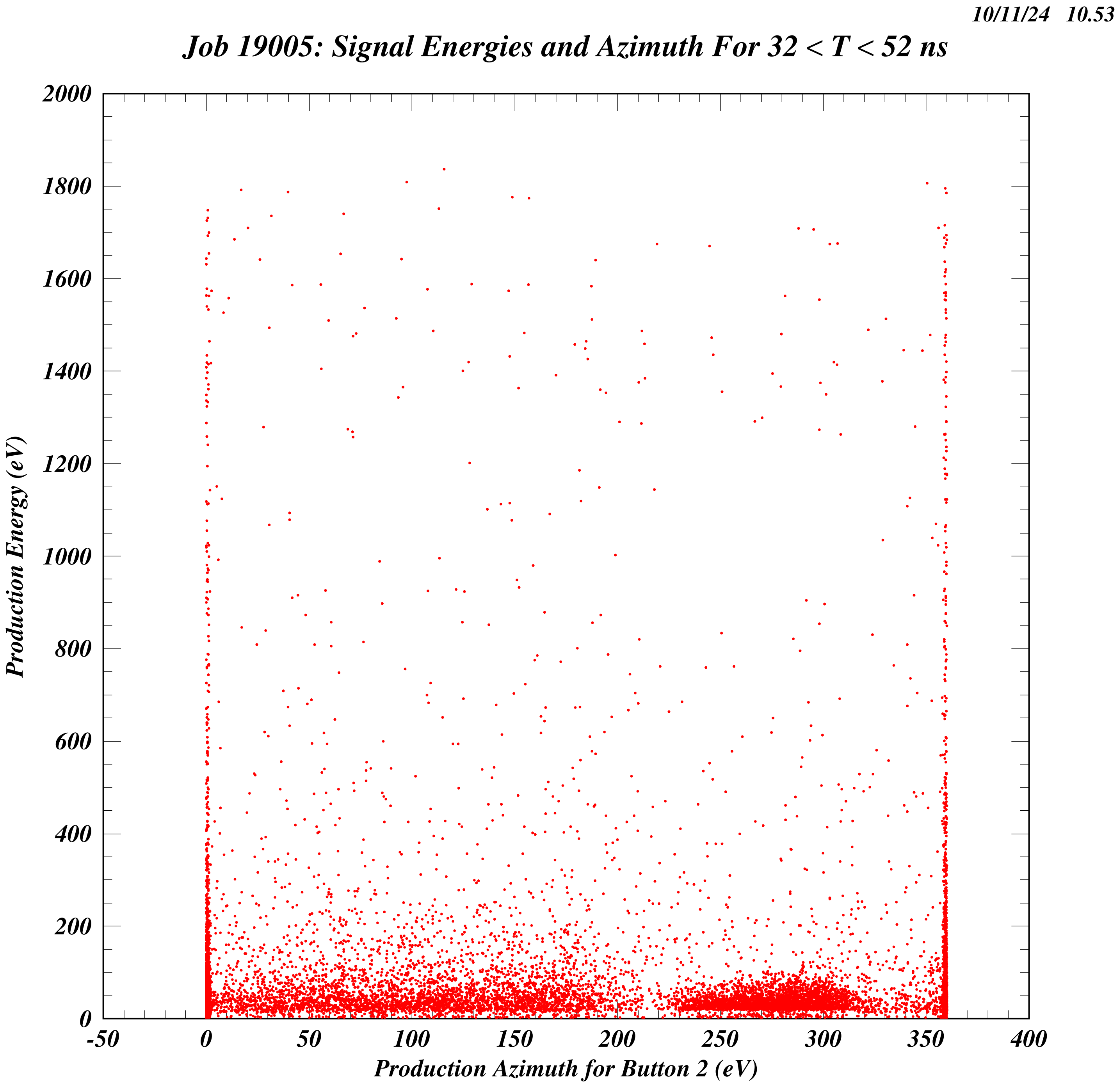
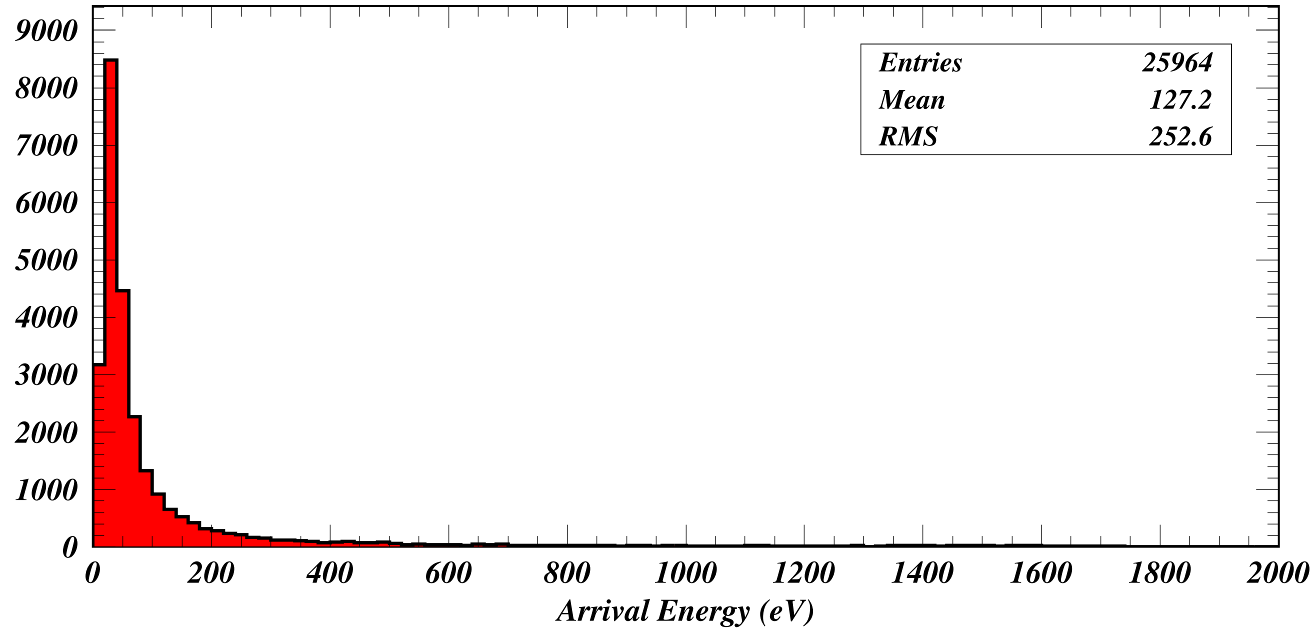
Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns

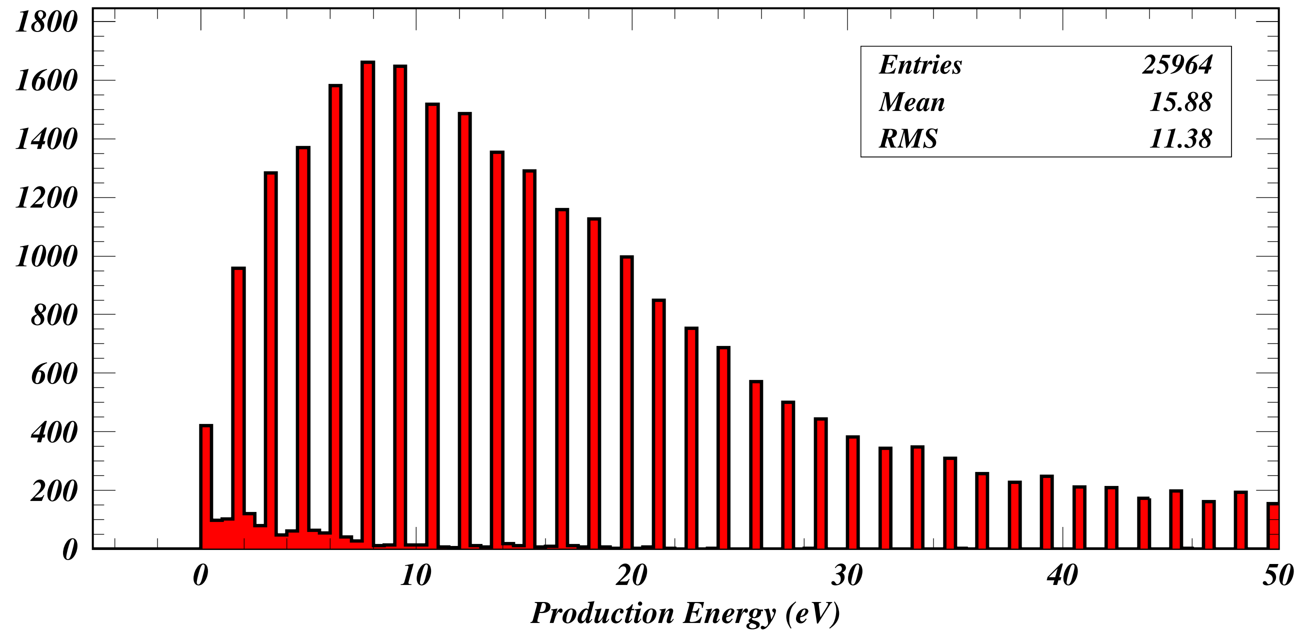



10/11/24 10.53
Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns
Production Energy (eV)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-50
0
50
100
150
200
250
300
350
400
Production Azimuth for Button 2 (eV)

10/11/24   10.53

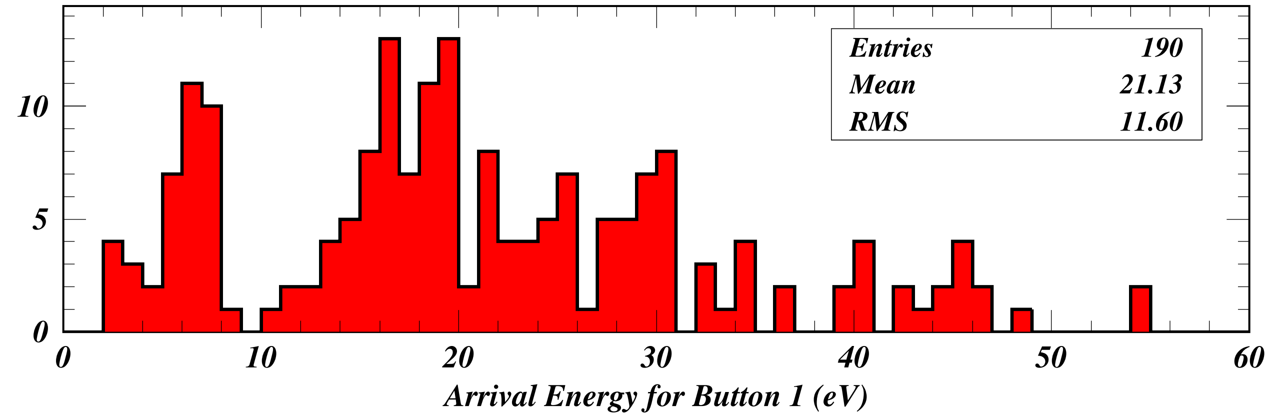
Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only

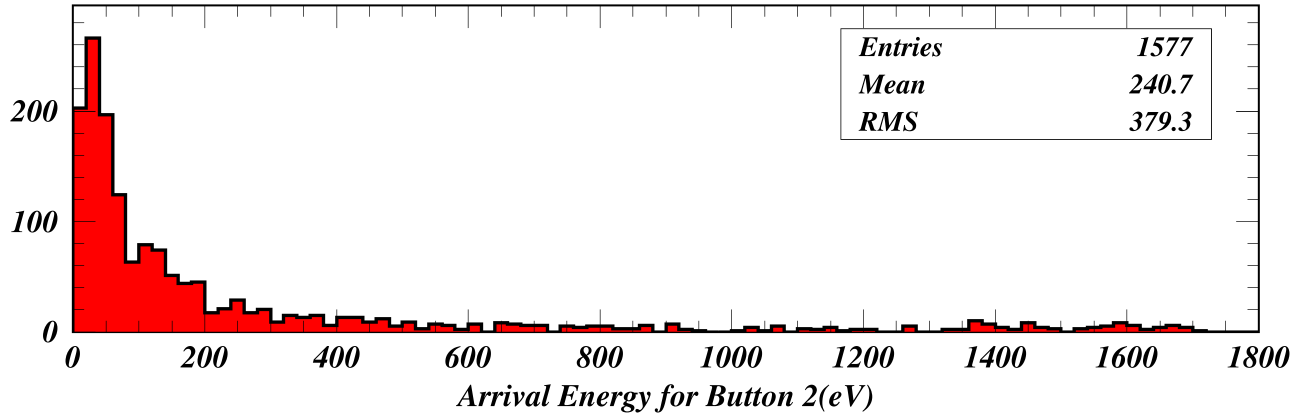


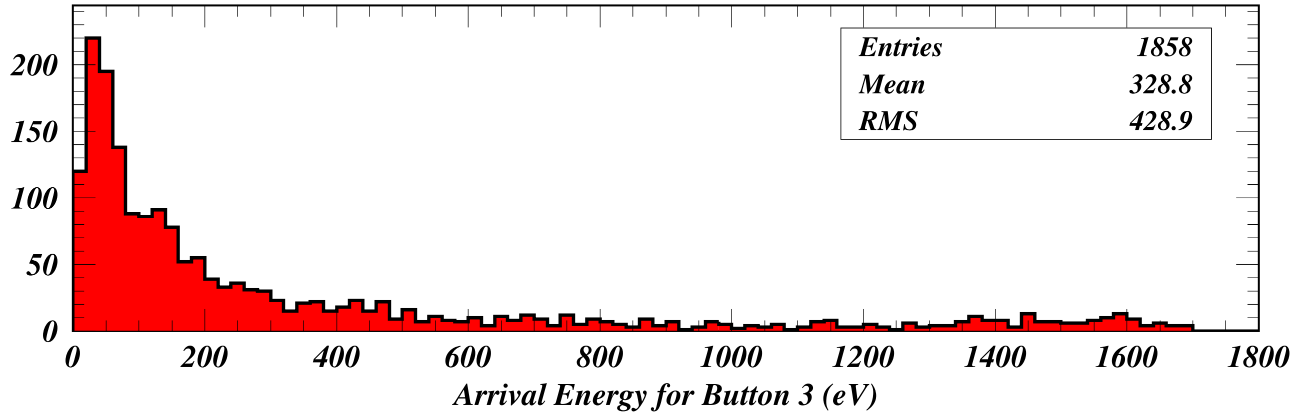


10/11/24   10.53

Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only

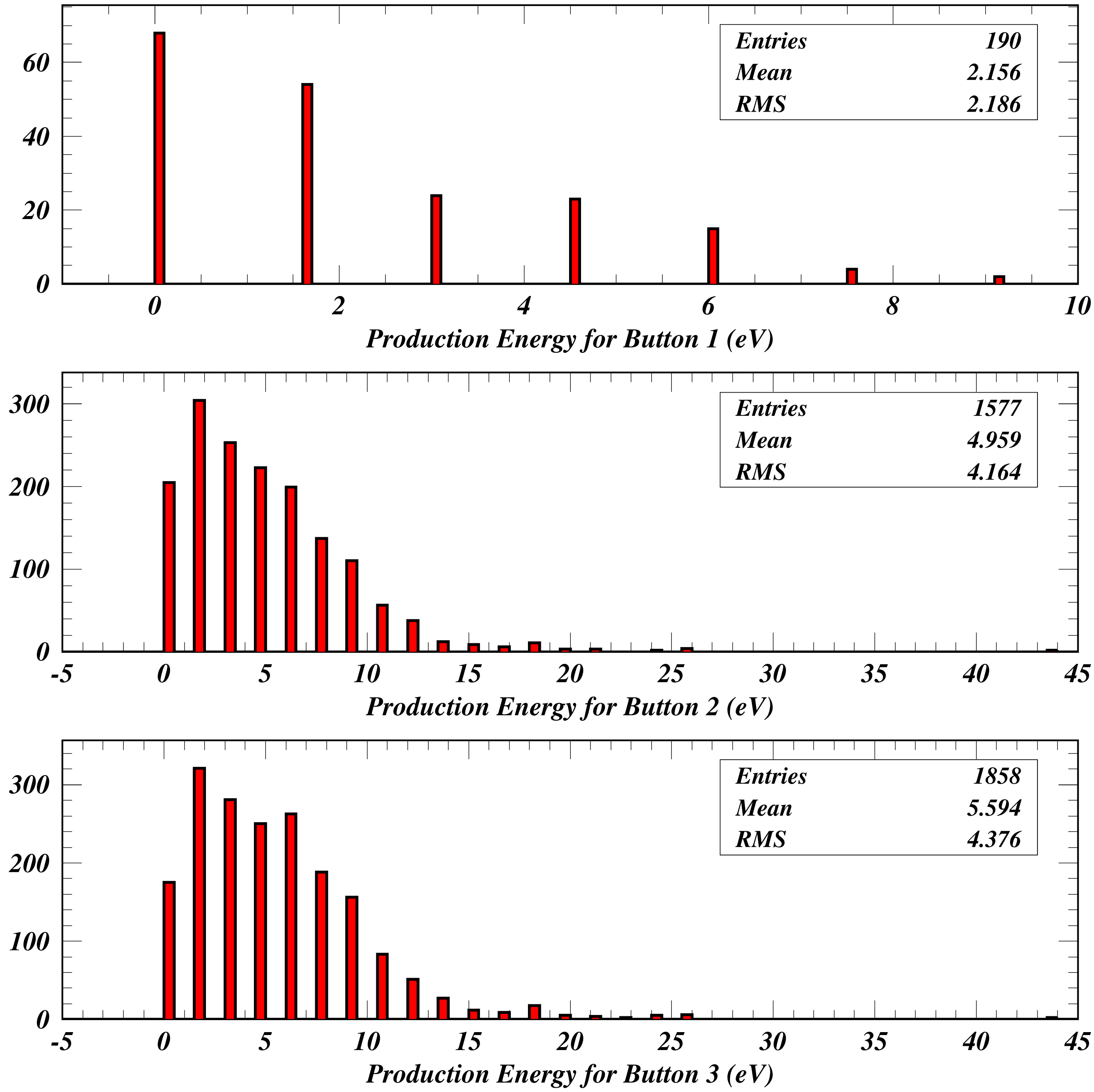




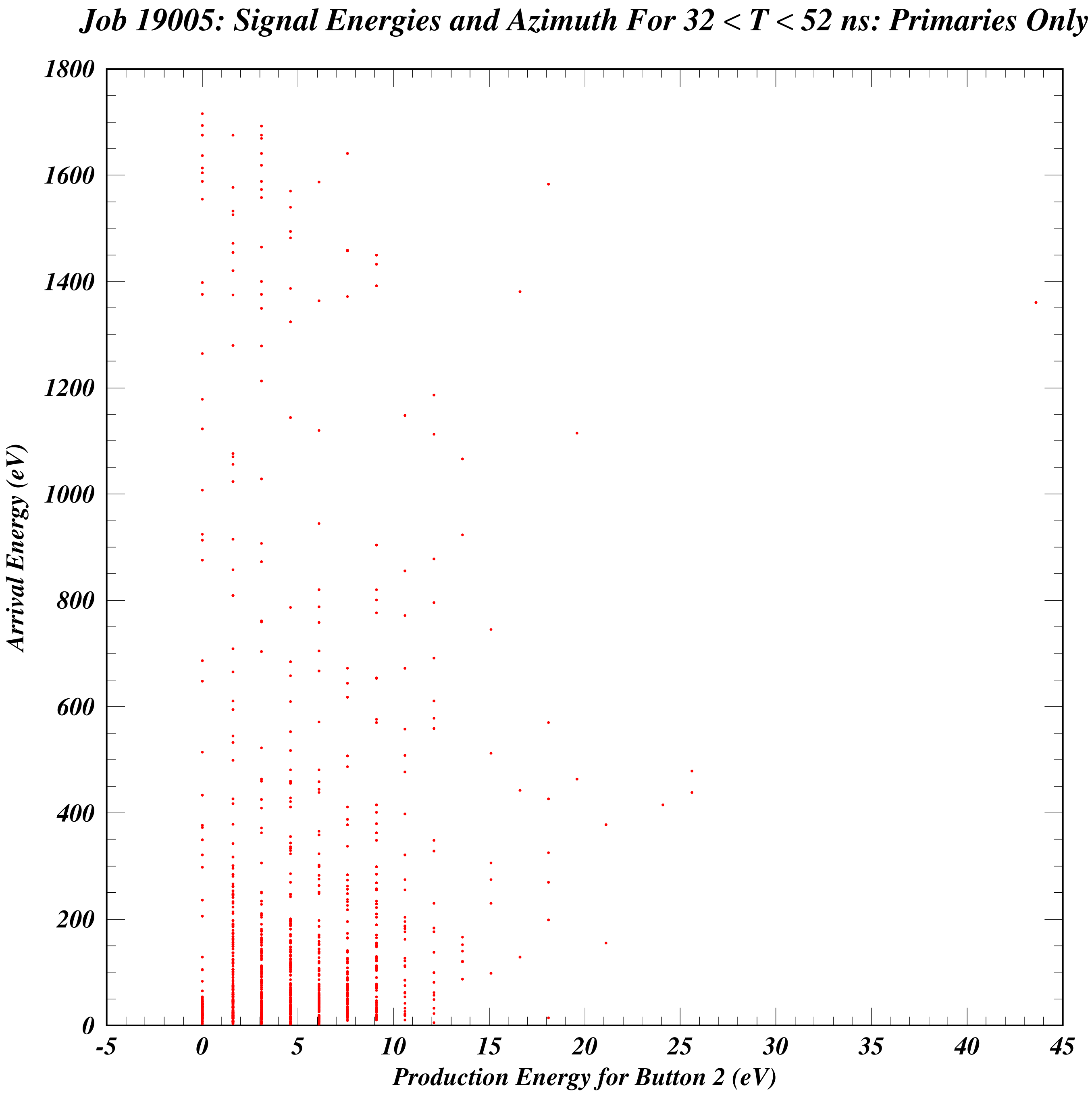


10/11/24 10.53

Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only



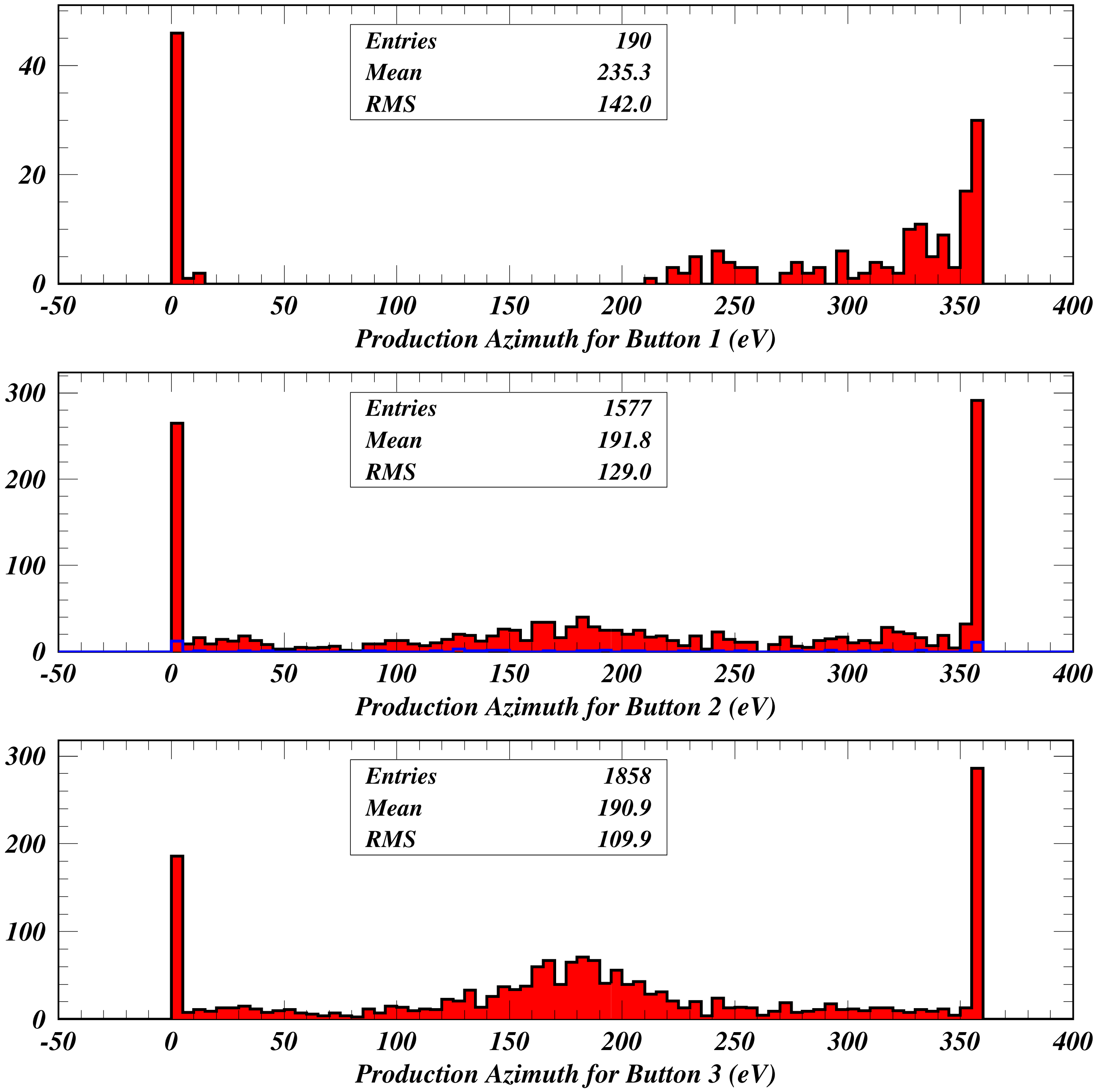
10/11/24 10.53



Job 19005: 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
40
45

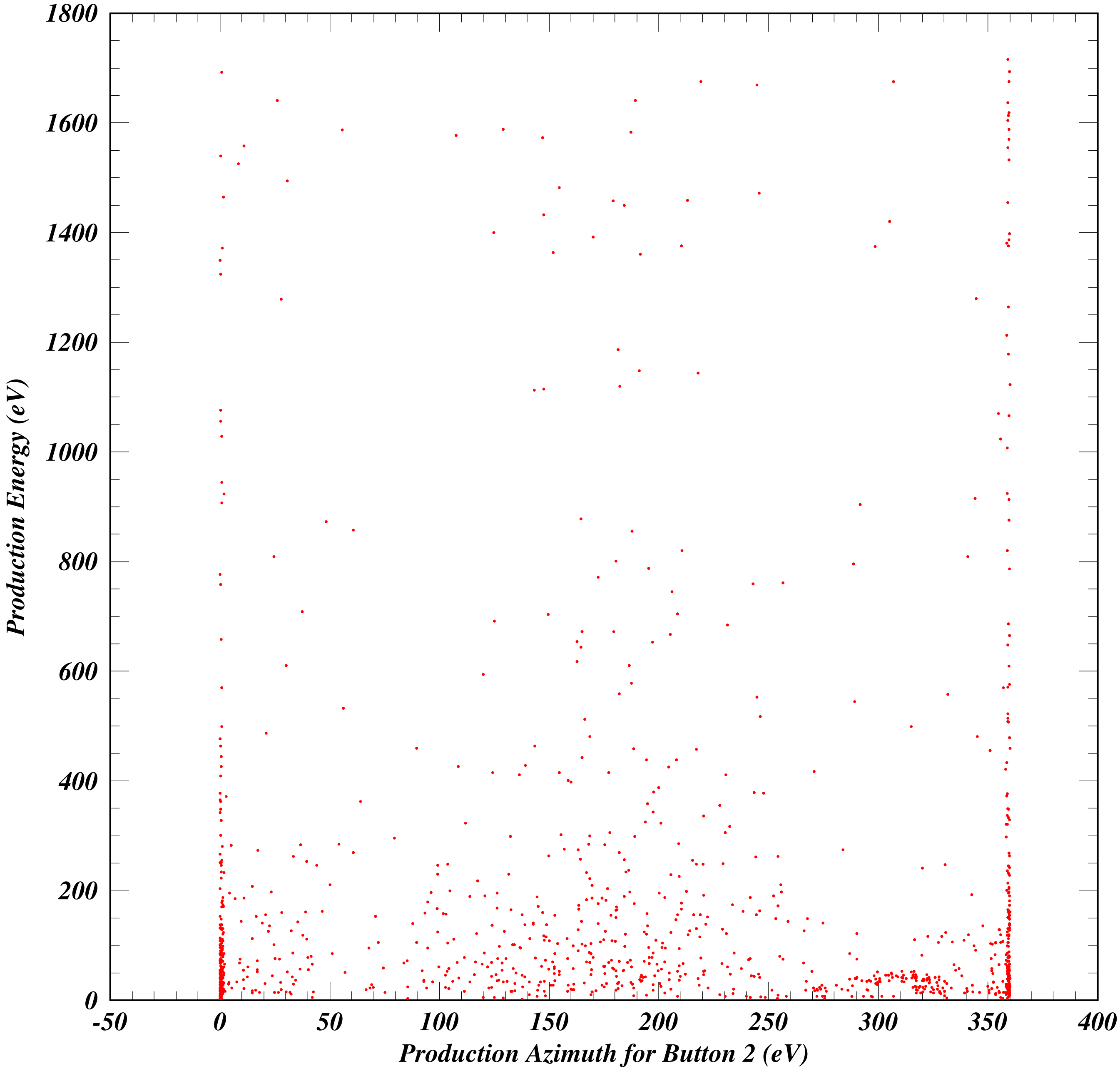
10/11/24 10.53

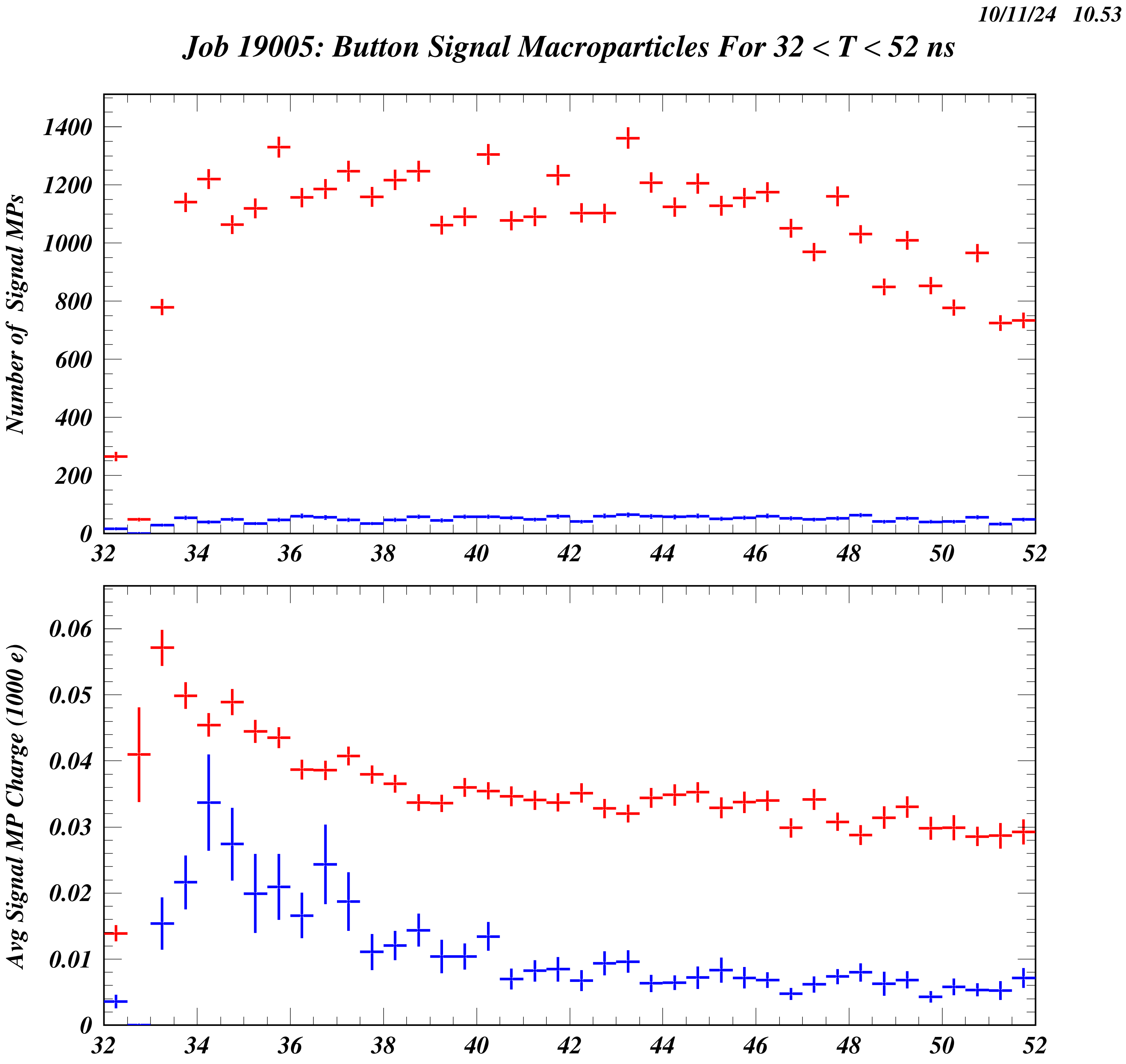
Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only



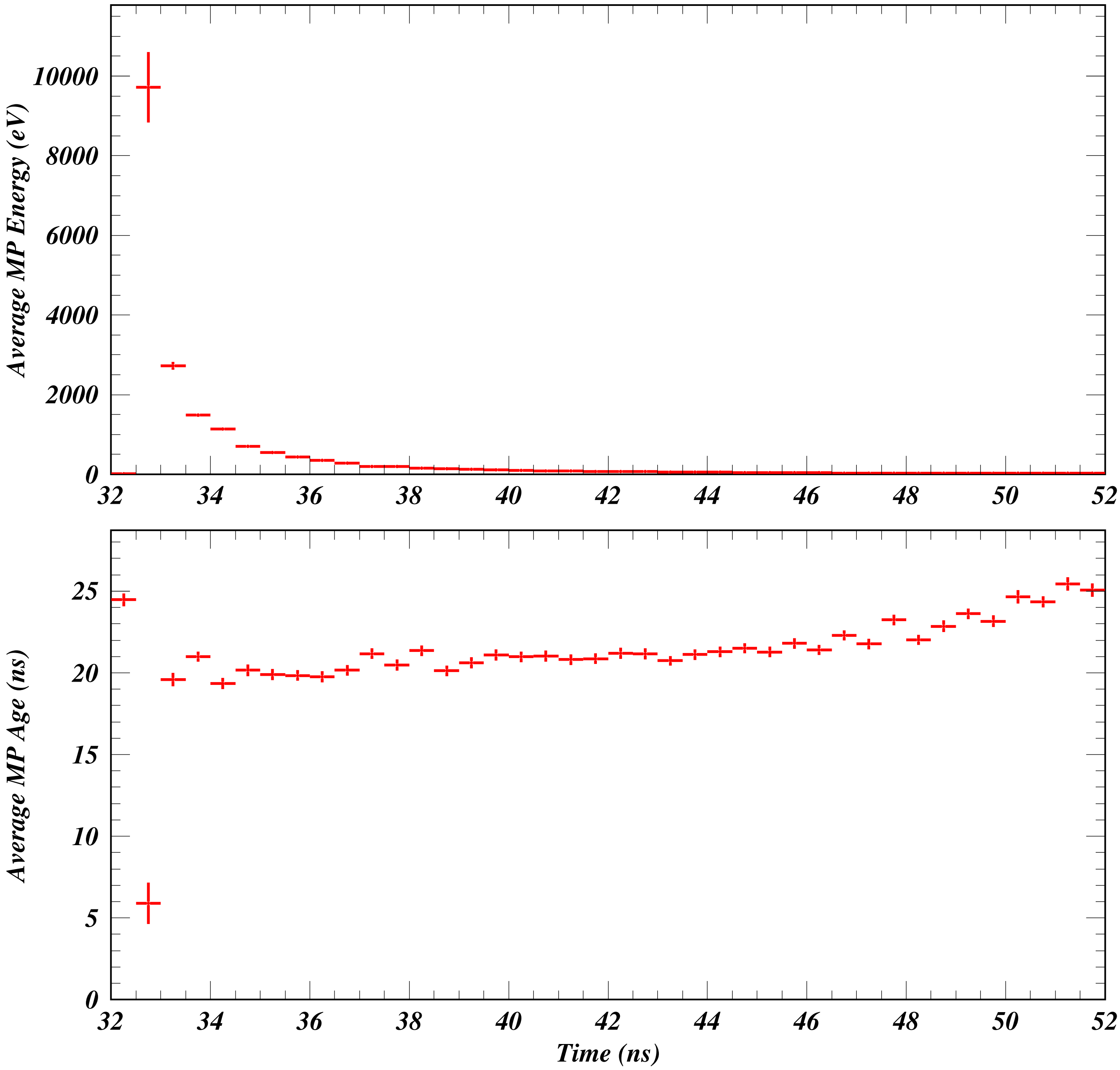
10/11/24   10.53

Job 19005: Signal Energies and Azimuth For 32 < T < 52 ns: Primaries Only

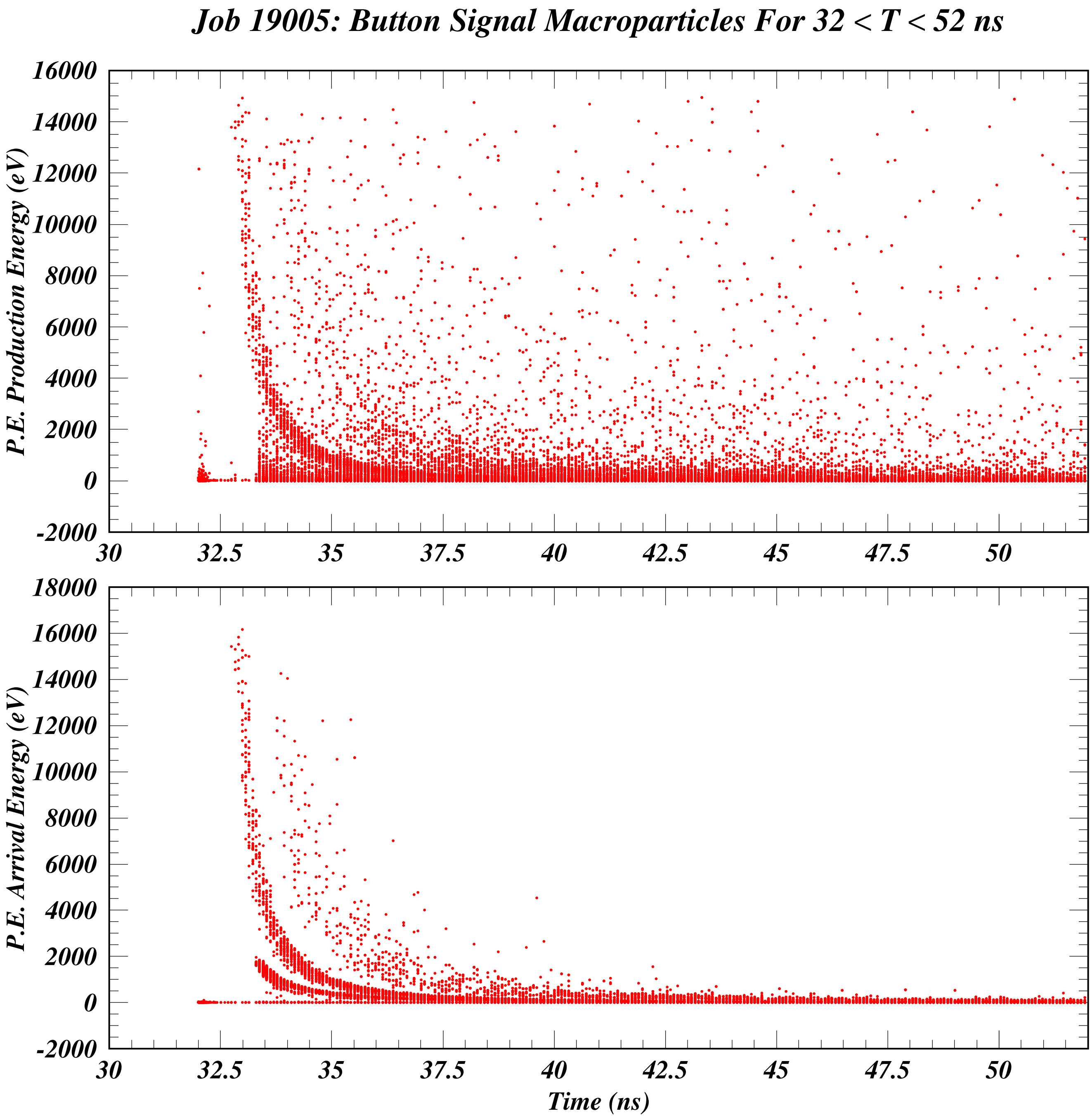



10/11/24 10.53
Job 19005: Button Signal Macroparticles For 32 < T < 52 ns
Number of Signal MPs
0
200
400
600
800
1000
1200
1400
32
34
36
38
40
42
44
46
48
50
52
Avg Signal MP Charge (1000 e)
0
0.01
0.02
0.03
0.04
0.05
0.06
32
34
36
38
40
42
44
46
48
50
52

Job 19005: Button Signal Macroparticles For 32 < T < 52 ns

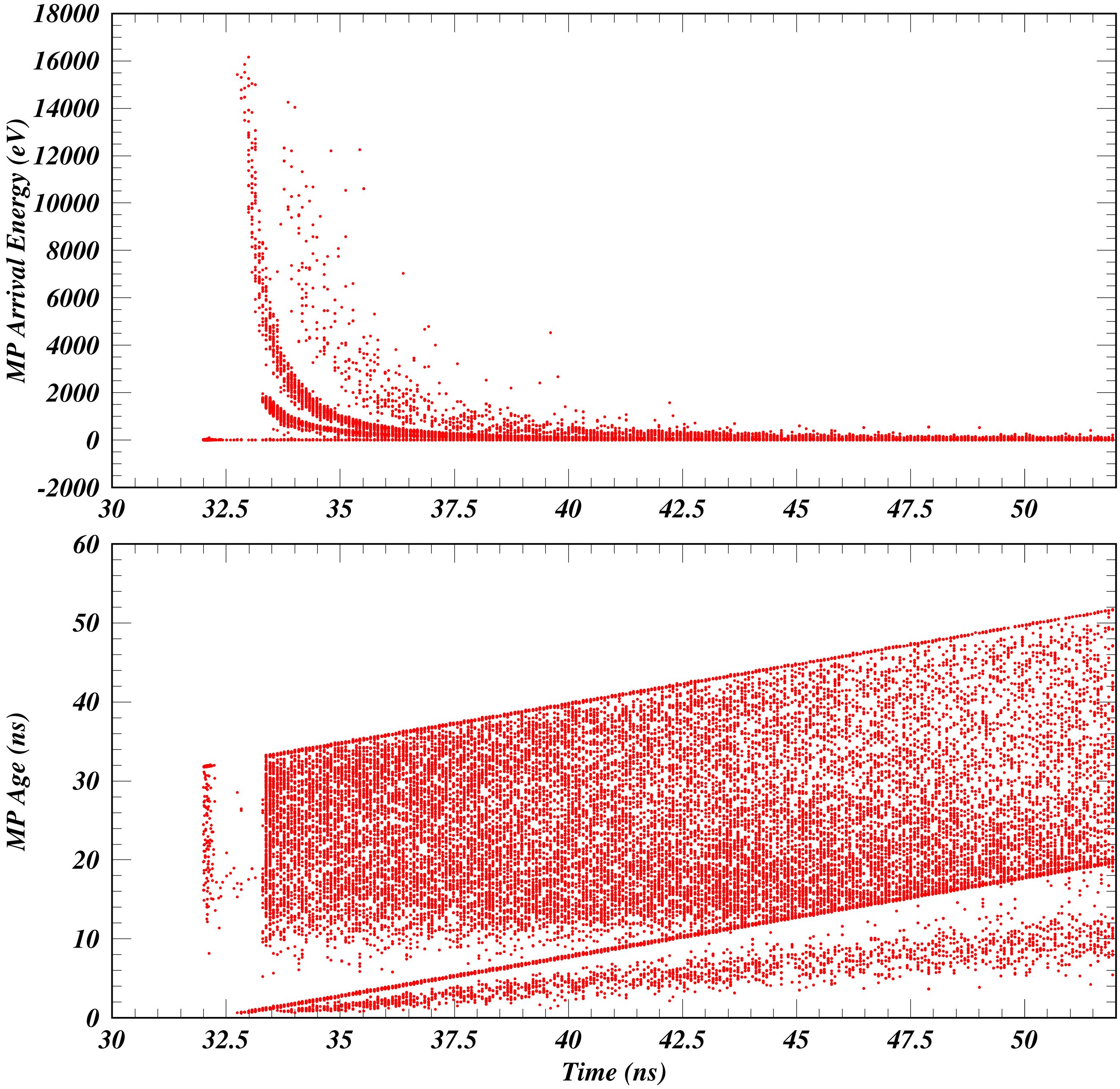


10/11/24 10.53


Job 19005: 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
30
32.5
35
37.5
40
42.5
45
47.5
50
Time (ns)

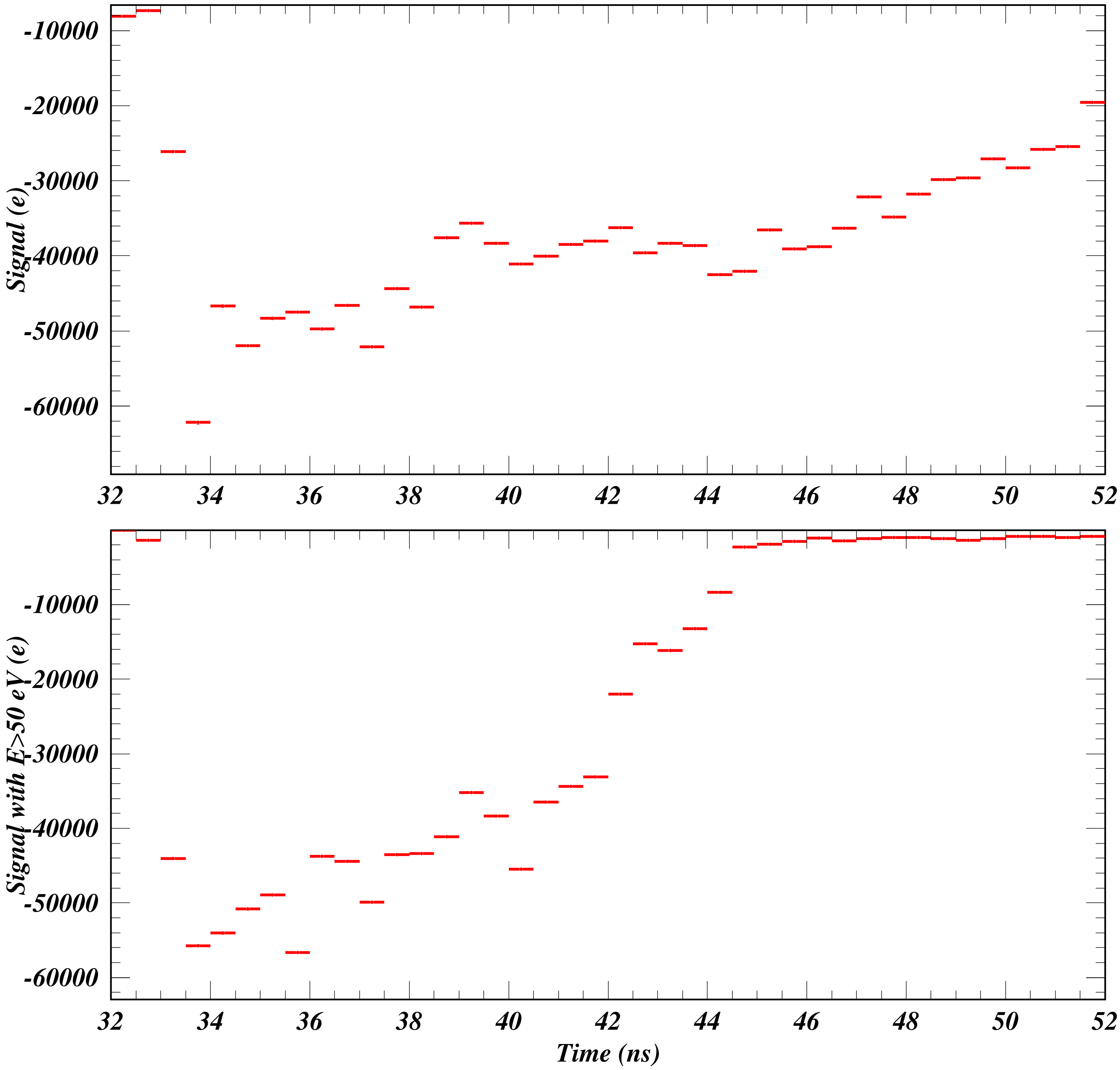
10/11/24 10.53

Job 19005: Button Signal Macroparticles For 32 < T < 52 ns



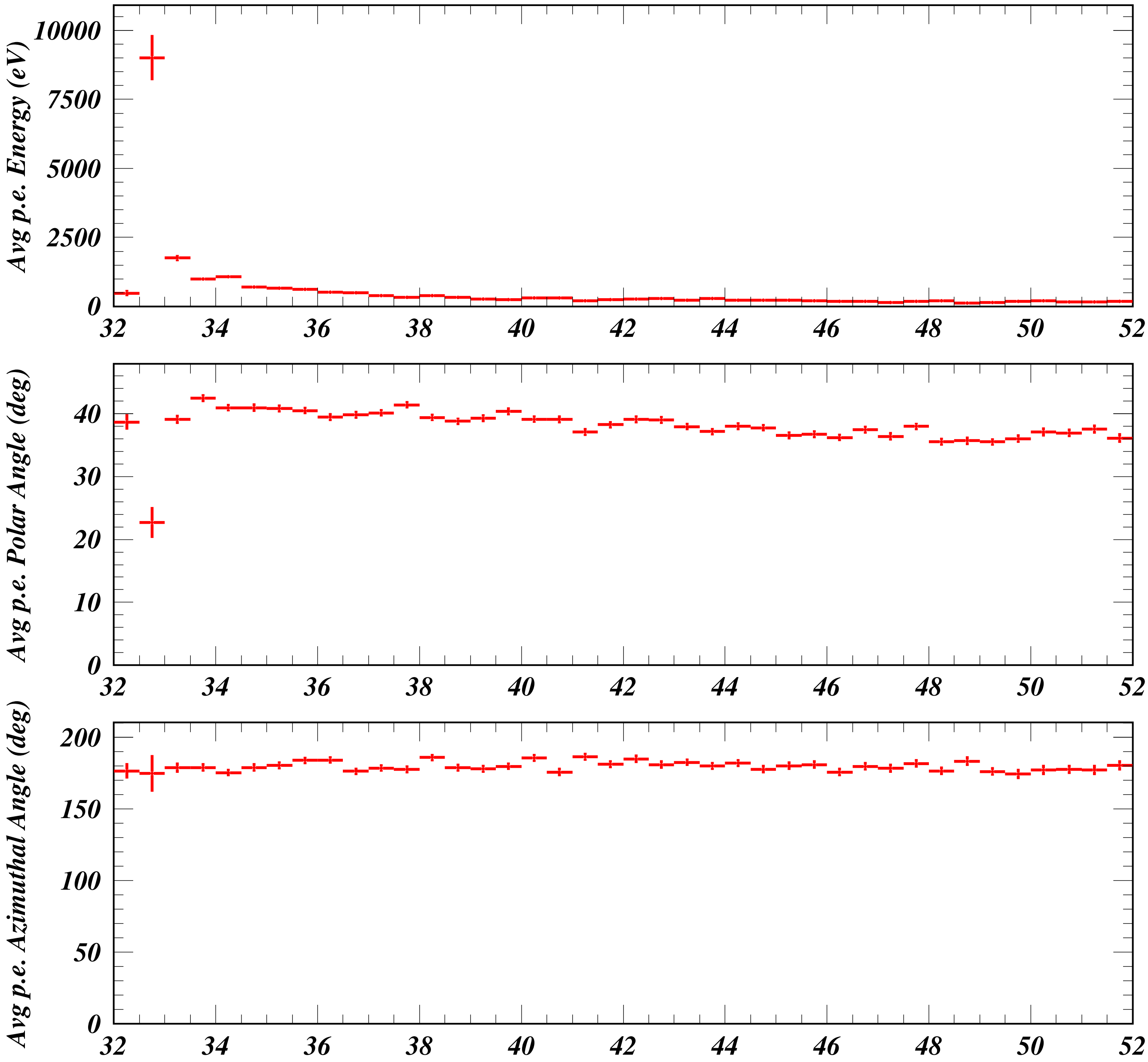
10/11/24 10.53

Job 19005: Button Signal Macroparticles For 32 < T < 52 ns

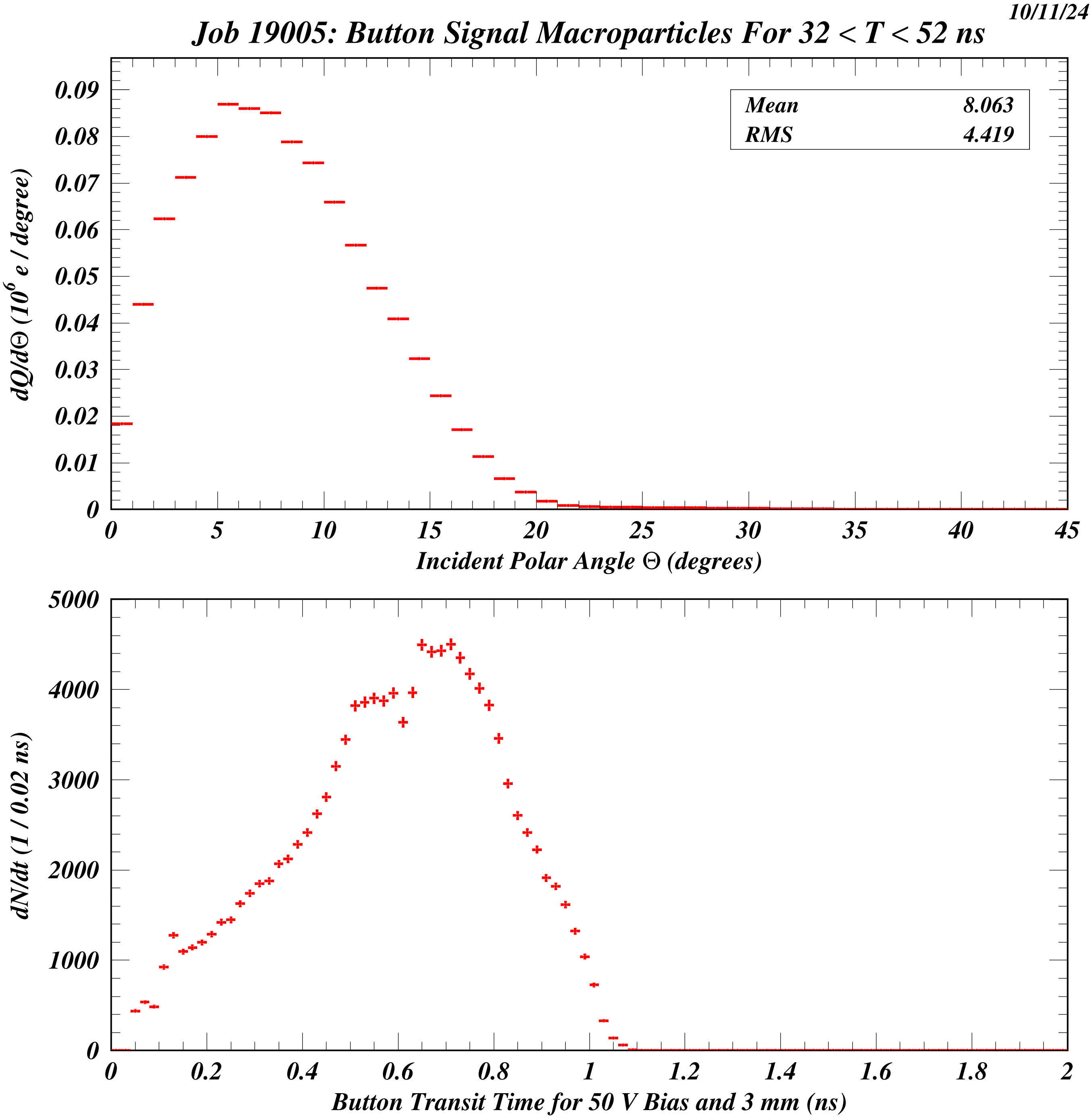


10/11/24 10.53

Job 19005: Button Signal Macroparticles For 32 < T < 52 ns



10/11/24 10.53


Job 19005: Button Signal Macroparticles For 32 < T < 52 ns
Mean 8.063
RMS 4.419
dQ/dΘ (10^6 e / degree)
Incident Polar Angle Θ (degrees)
dN/dt (1 / 0.02 ns)
Button Transit Time for 50 V Bias and 3 mm (ns)

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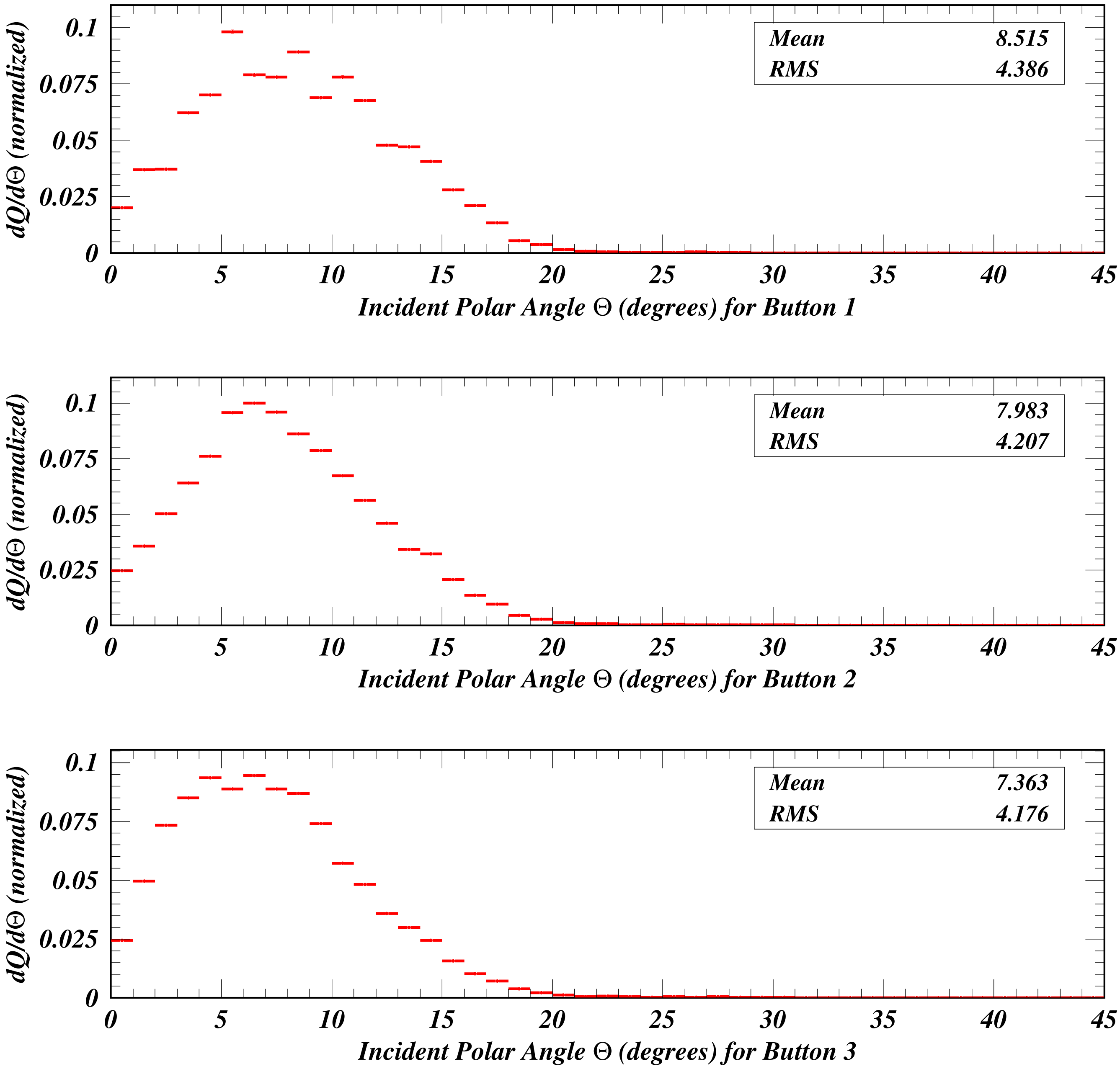
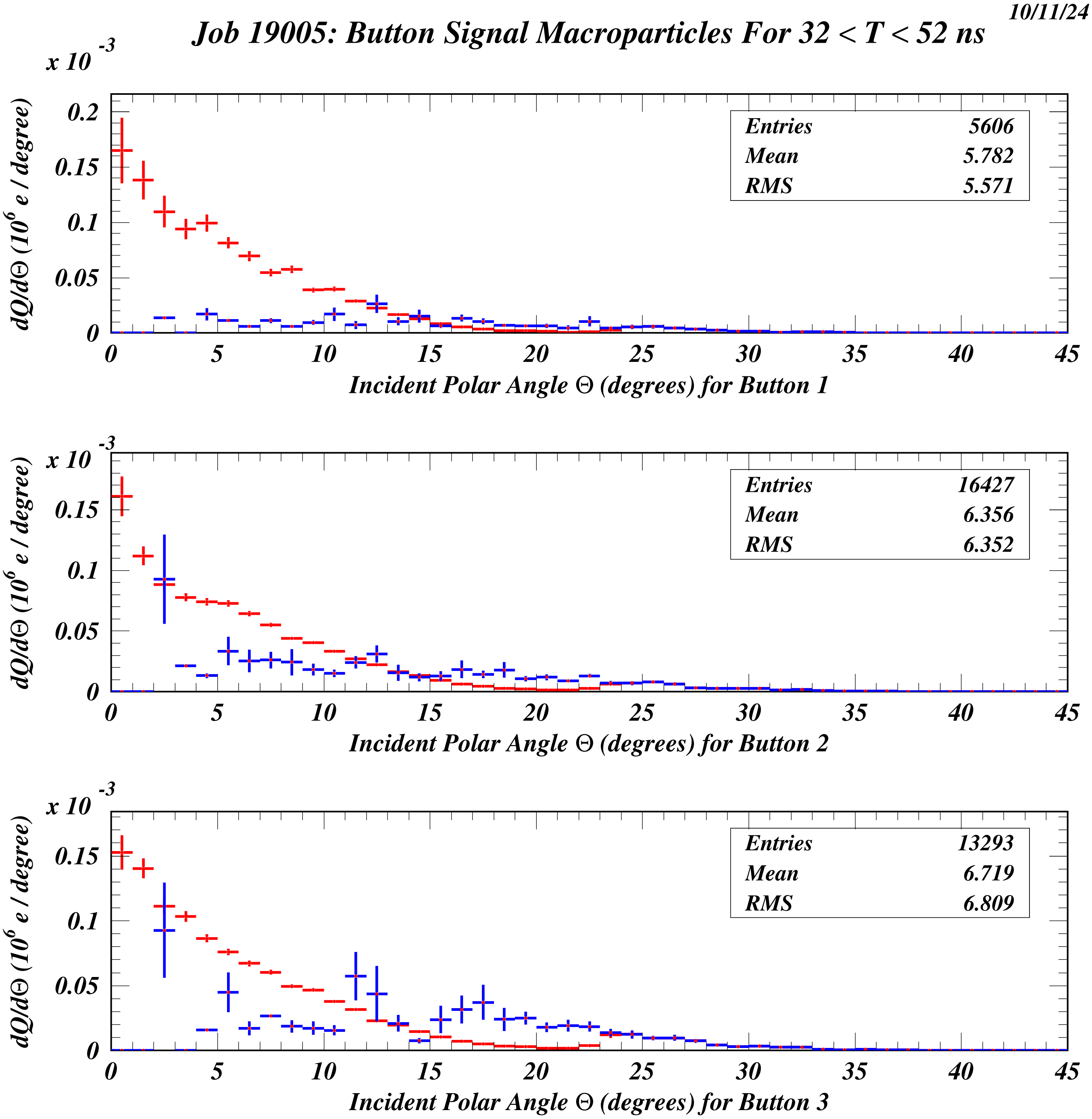
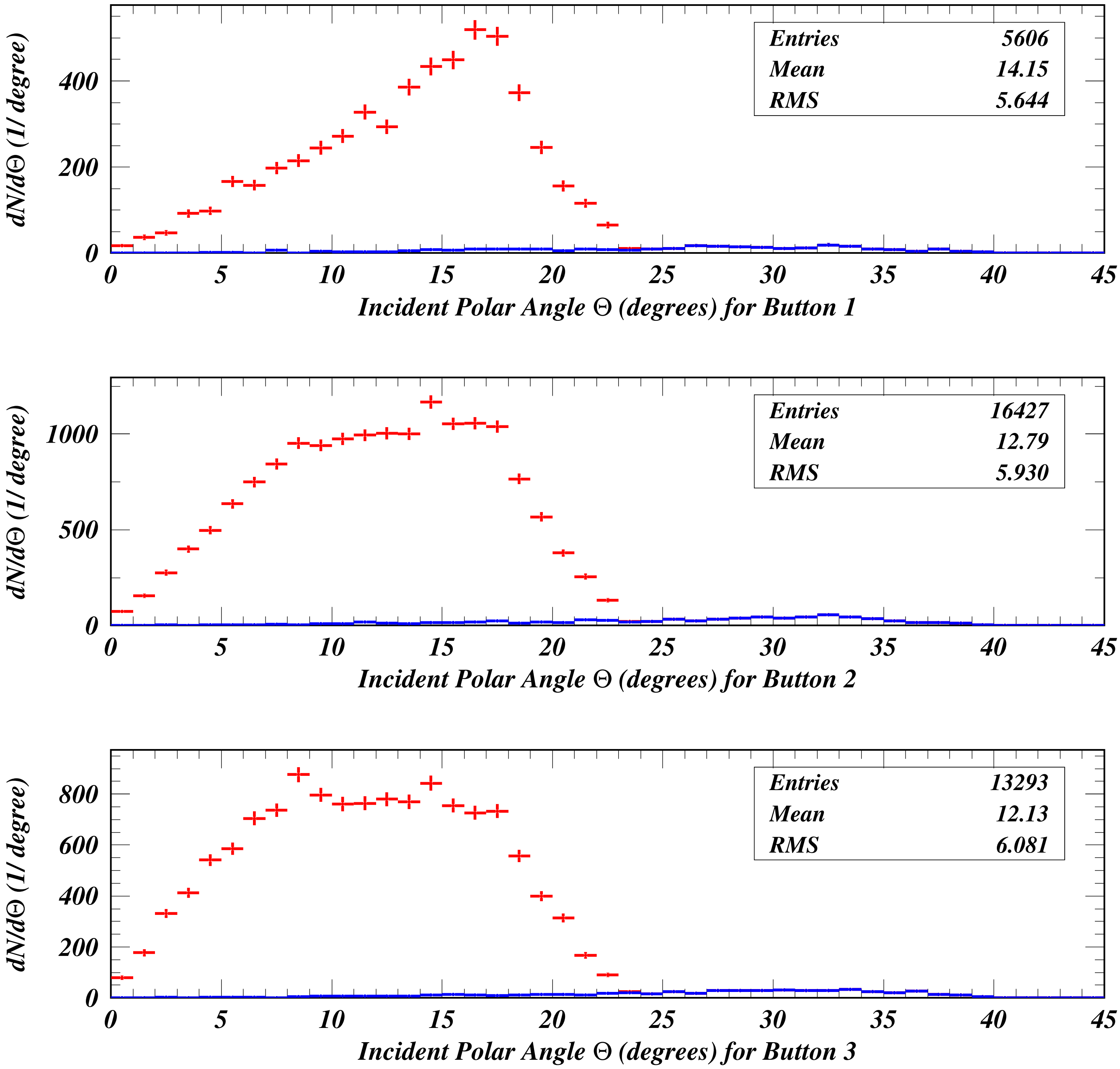
Job 19005: Button Signal Macroparticles For 32 < T < 52 ns



10/11/24 10.53


Job 19005: Button Signal Macroparticles For 32 < T < 52 ns
x 10^-3
dQ/dΘ (10^6 e / degree)
Entries 5606
Mean 5.782
RMS 5.571
Incident Polar Angle Θ (degrees) for Button 1
Entries 16427
Mean 6.356
RMS 6.352
Incident Polar Angle Θ (degrees) for Button 2
Entries 13293
Mean 6.719
RMS 6.809
Incident Polar Angle Θ (degrees) for Button 3

Job 19005: Button Signal Macroparticles For 32 < T < 52 ns



10/11/24 10.53

Job 19005: Button Signal Macroparticles For 32 < T < 52 ns