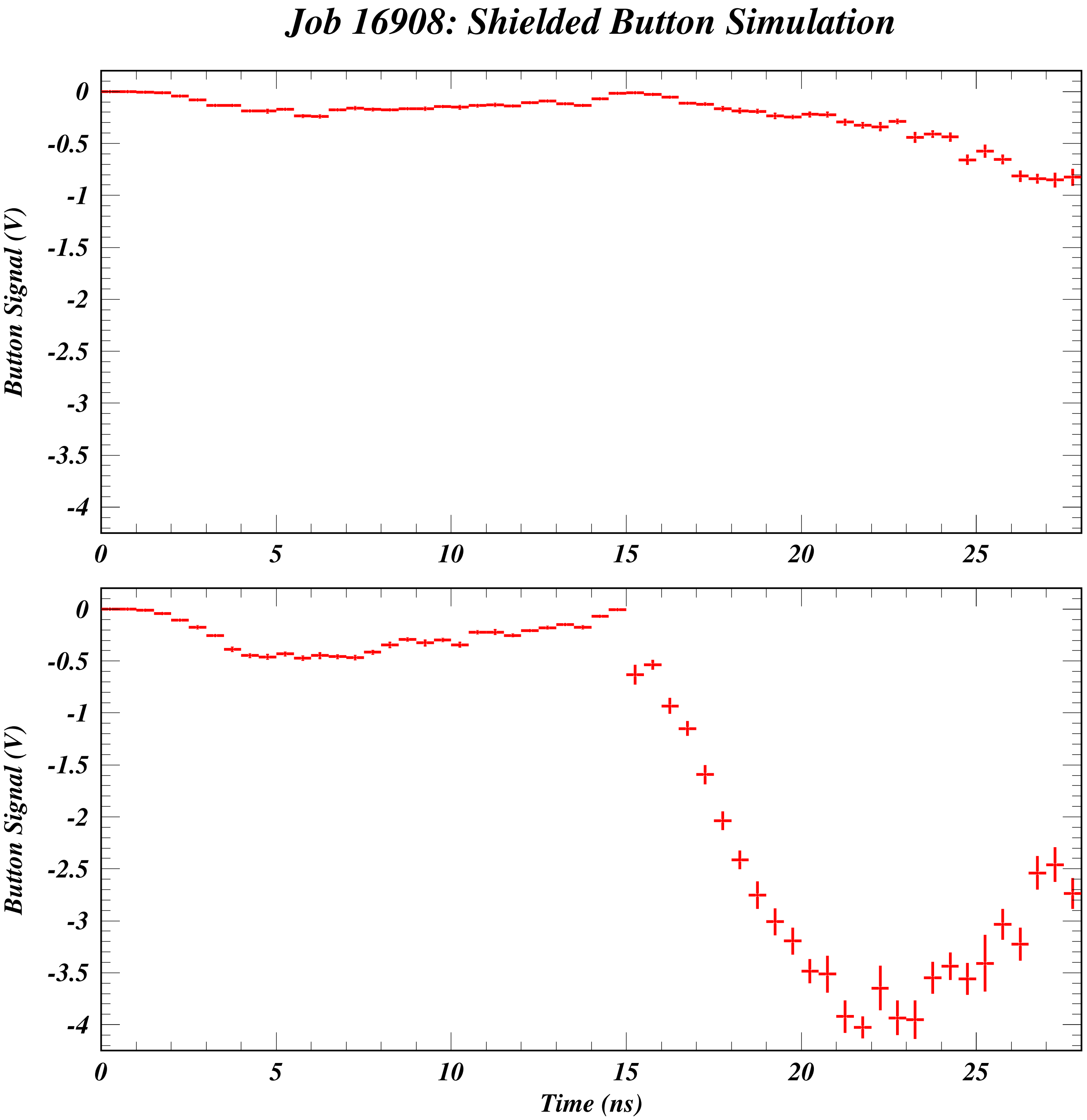
10/09/17 14.55



Job 16908: Shielded Button Simulation
Button Signal (V)
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
0
5
10
15
20
25
Button Signal (V)
Time (ns)

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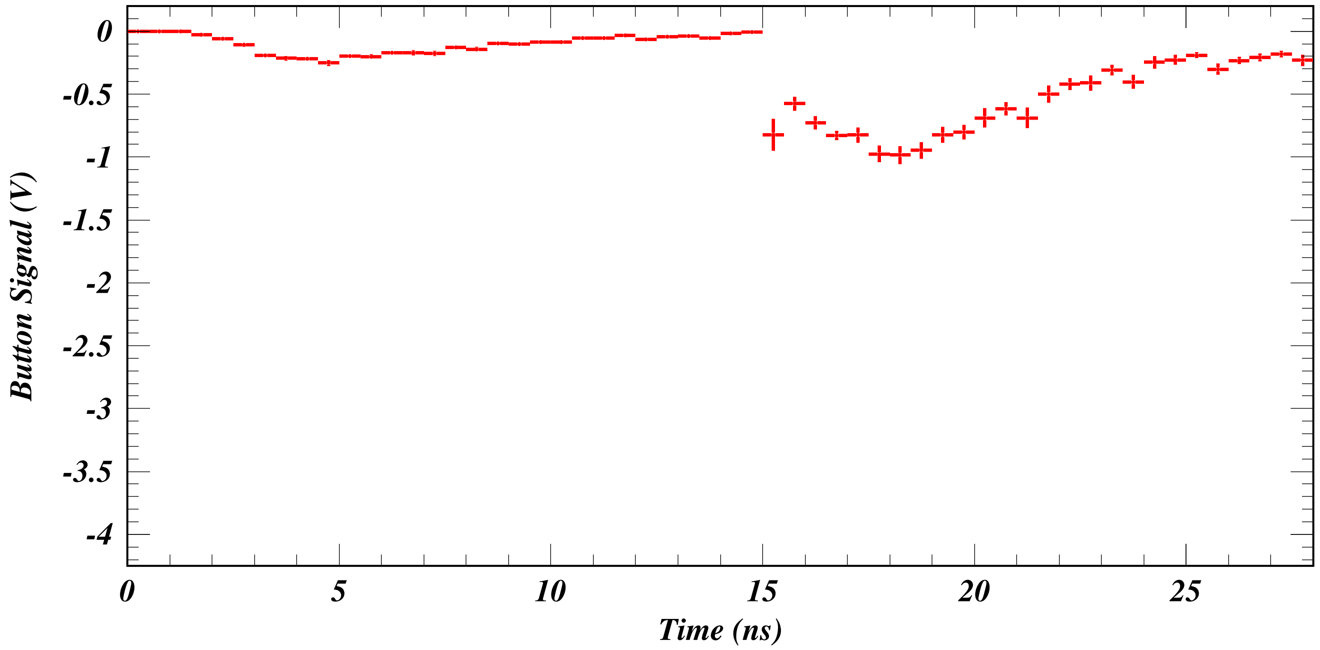
Job 16908: Shielded Button Simulation



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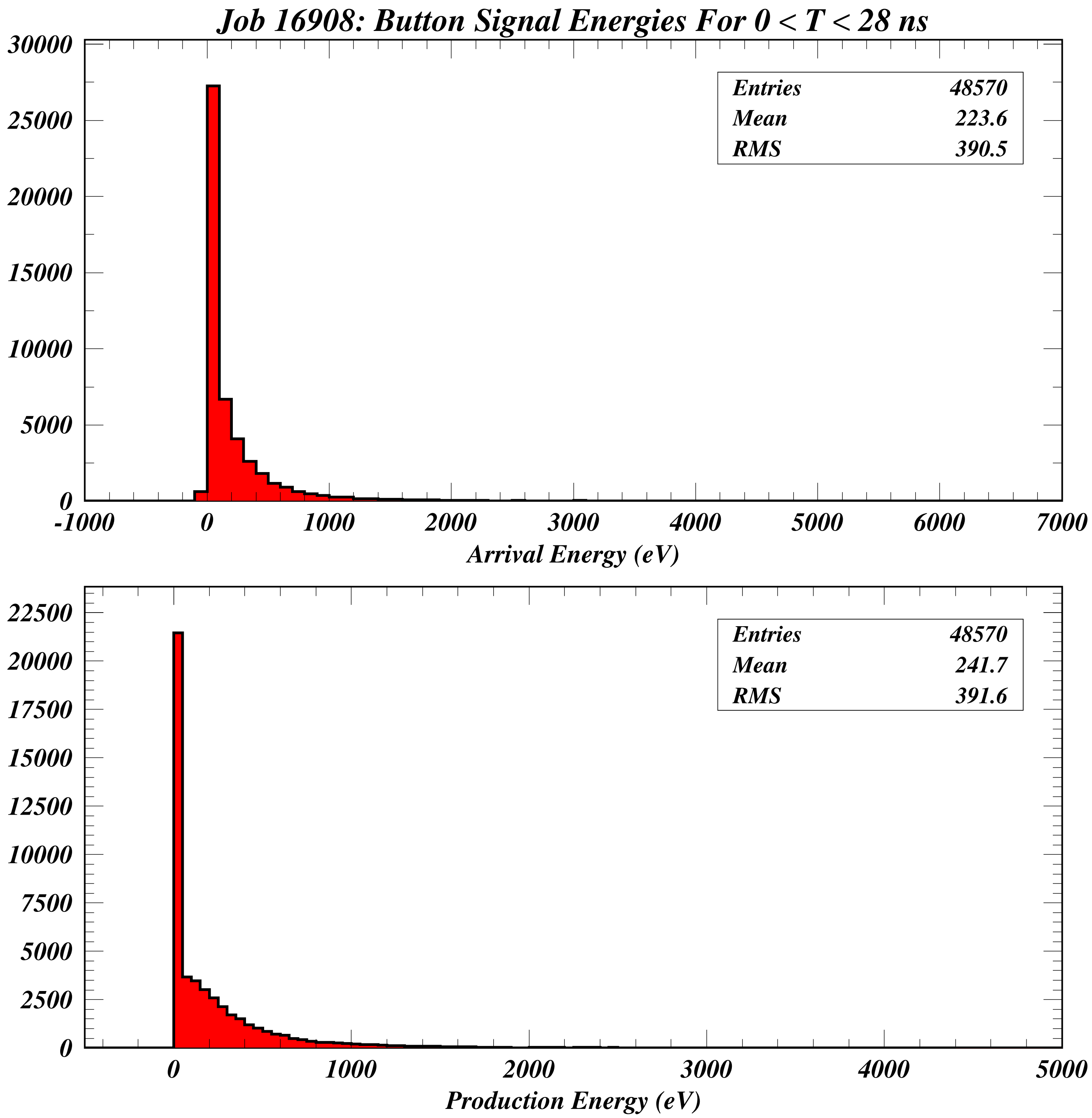
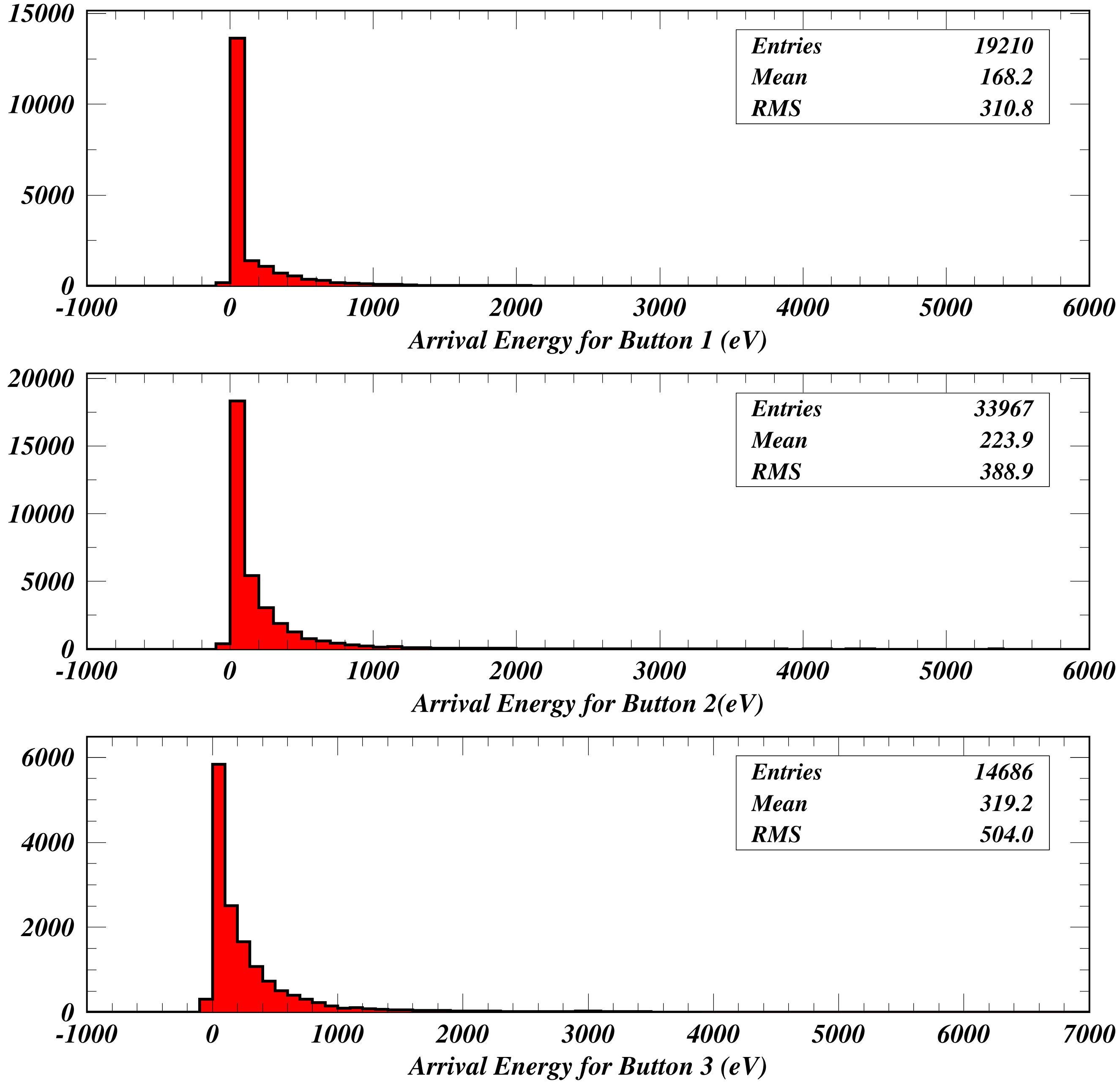

Job 16908: Button Signal Energies For 0 < T < 28 ns
Entries 48570
Mean 223.6
RMS 390.5
Arrival Energy (eV)
-1000 0 1000 2000 3000 4000 5000 6000 7000
0 5000 10000 15000 20000 25000 30000
Entries 48570
Mean 241.7
RMS 391.6
Production Energy (eV)
0 1000 2000 3000 4000 5000
0 2500 5000 7500 10000 12500 15000 17500 20000 22500

10/09/17 14.55

Job 16908: Button Signal Energies For 0 < T < 28 ns



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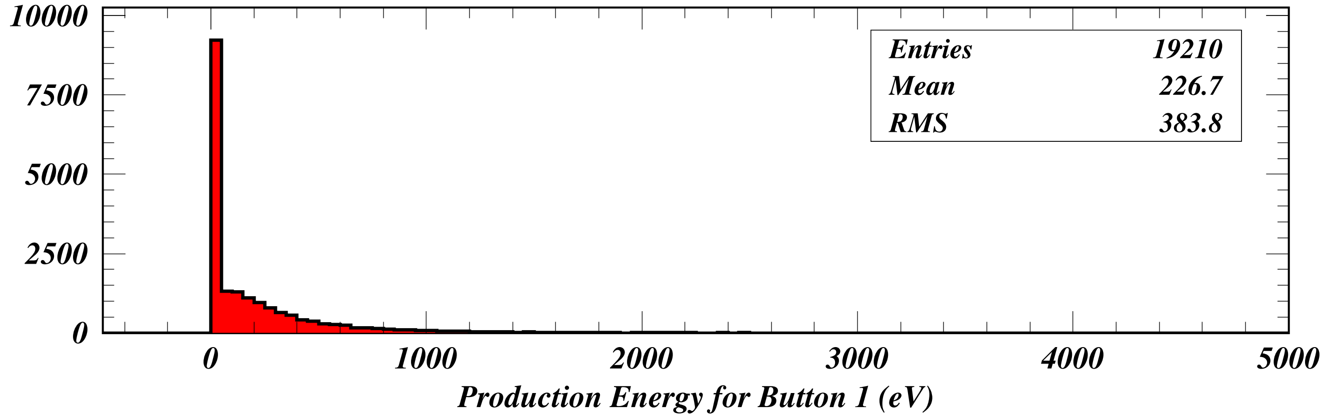
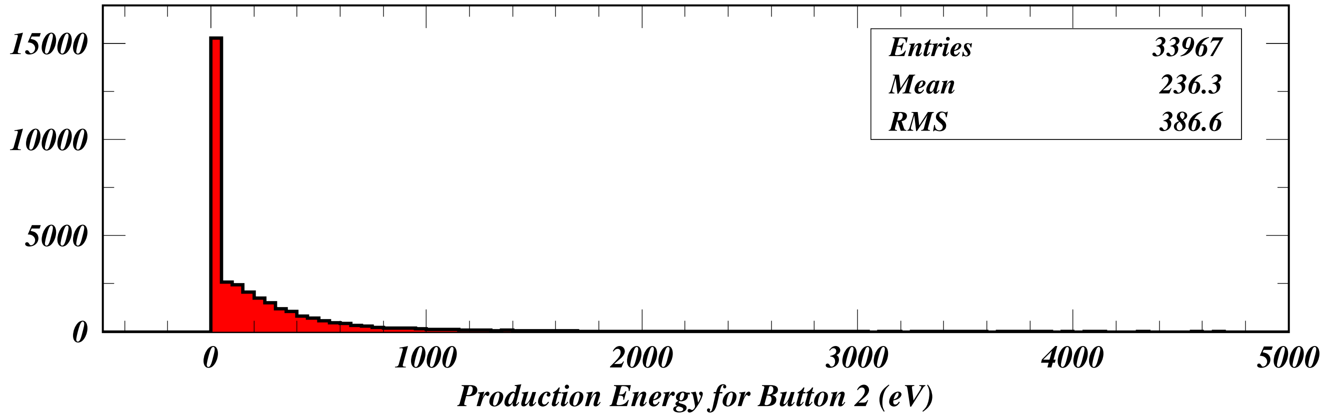
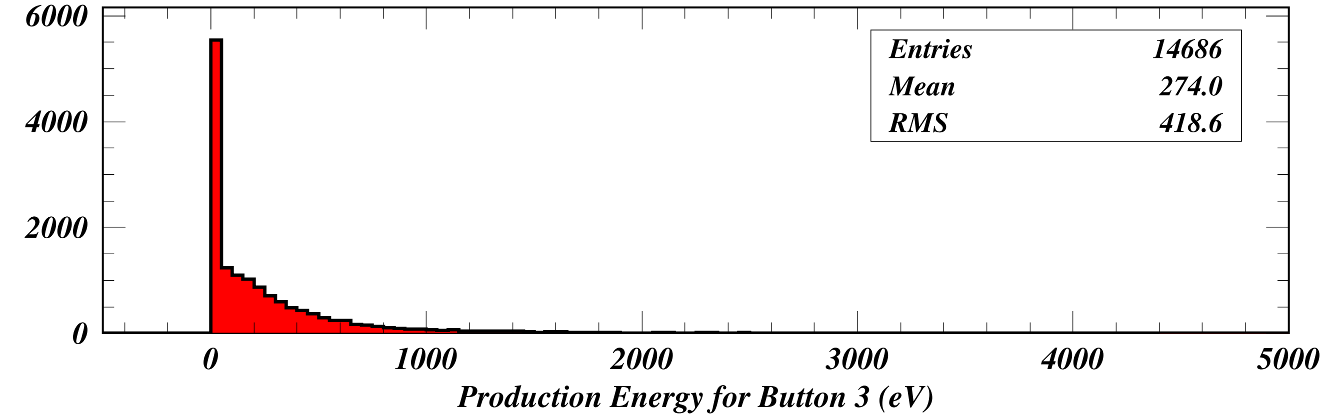
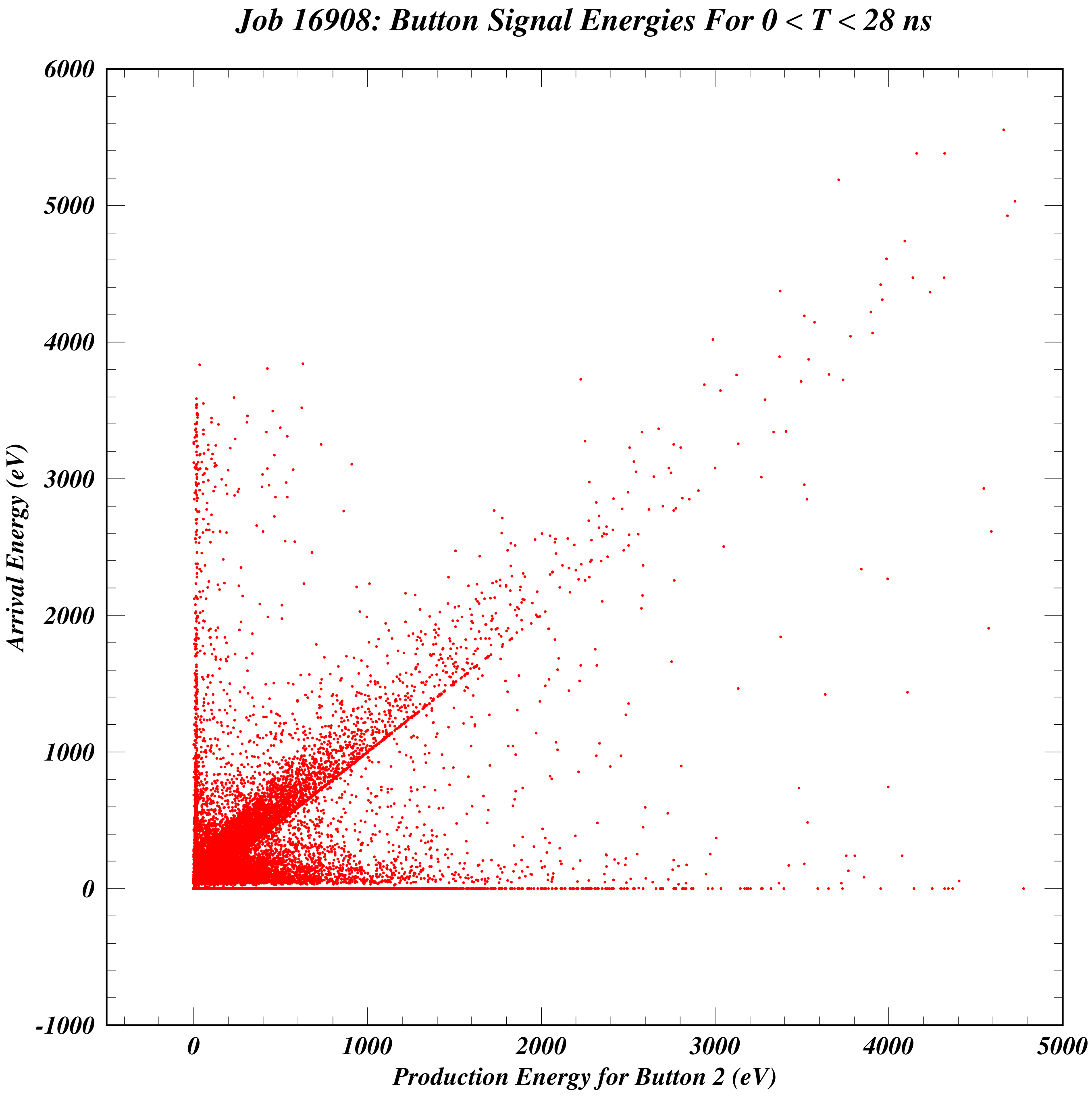
Job 16908: Button Signal Energies For 0 < T < 28 ns





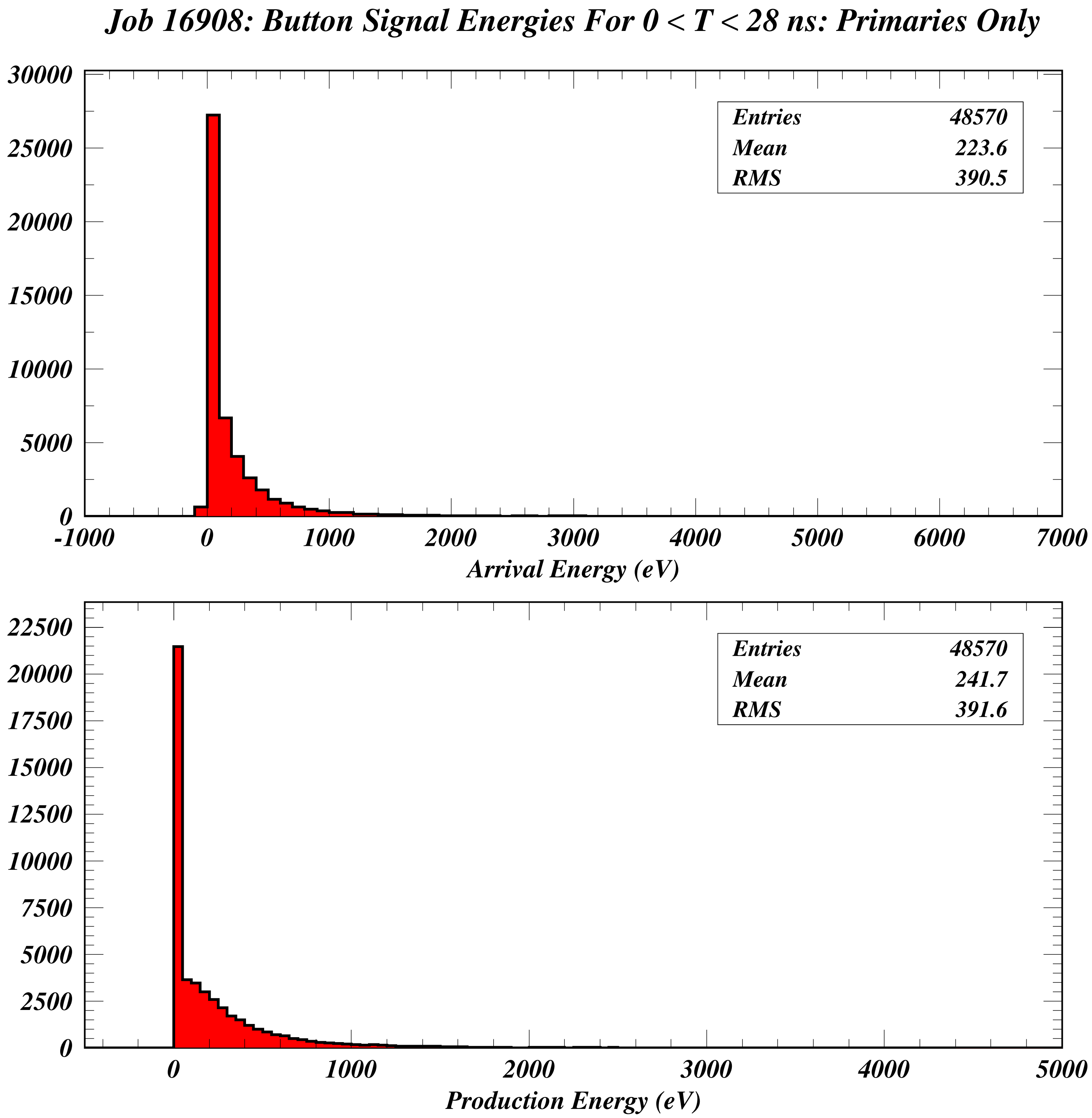


10/09/17   14.55



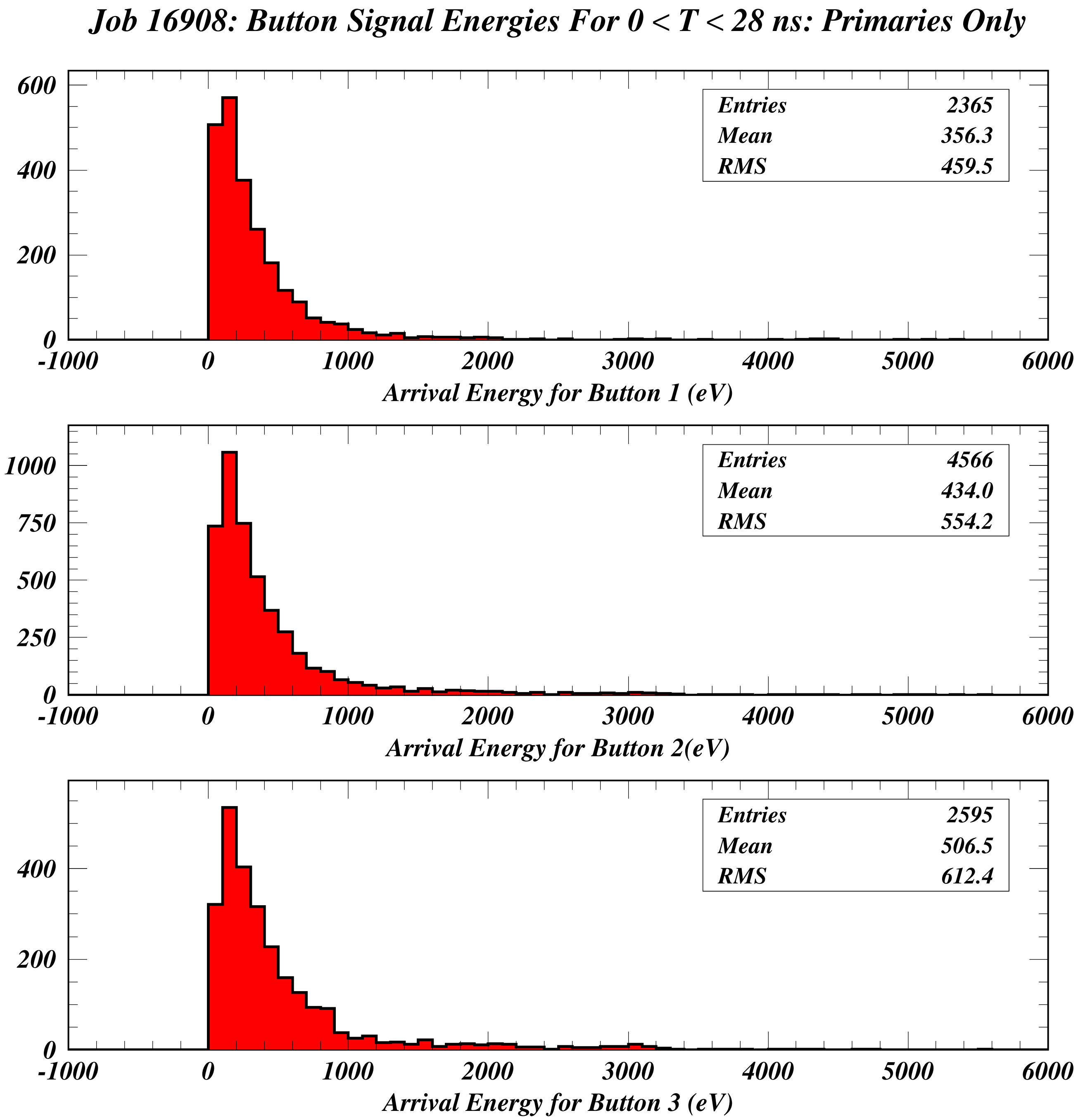
Job 16908: Button Signal Energies For 0 < T < 28 ns
6000
5000
4000
3000
2000
1000
0
-1000
Arrival Energy (eV)
0
1000
2000
3000
4000
5000
Production Energy for Button 2 (eV)

10/09/17 14.55



Job 16908: Button Signal Energies For 0 < T < 28 ns: Primaries Only
Entries 48570
Mean 223.6
RMS 390.5
30000
25000
20000
15000
10000
5000
0
-1000
0
1000
2000
3000
4000
5000
6000
7000
Arrival Energy (eV)
Entries 48570
Mean 241.7
RMS 391.6
22500
20000
17500
15000
12500
10000
7500
5000
2500
0
0
1000
2000
3000
4000
5000
Production Energy (eV)

10/09/17 14.55



Job 16908: Button Signal Energies For 0 < T < 28 ns: Primaries Only
Entries 2365
Mean 356.3
RMS 459.5
600
400
200
0
-1000
0
1000
2000
3000
4000
5000
6000
Arrival Energy for Button 1 (eV)
Entries 4566
Mean 434.0
RMS 554.2
1000
750
500
250
0
Arrival Energy for Button 2(eV)
Entries 2595
Mean 506.5
RMS 612.4
400
200
0
Arrival Energy for Button 3 (eV)

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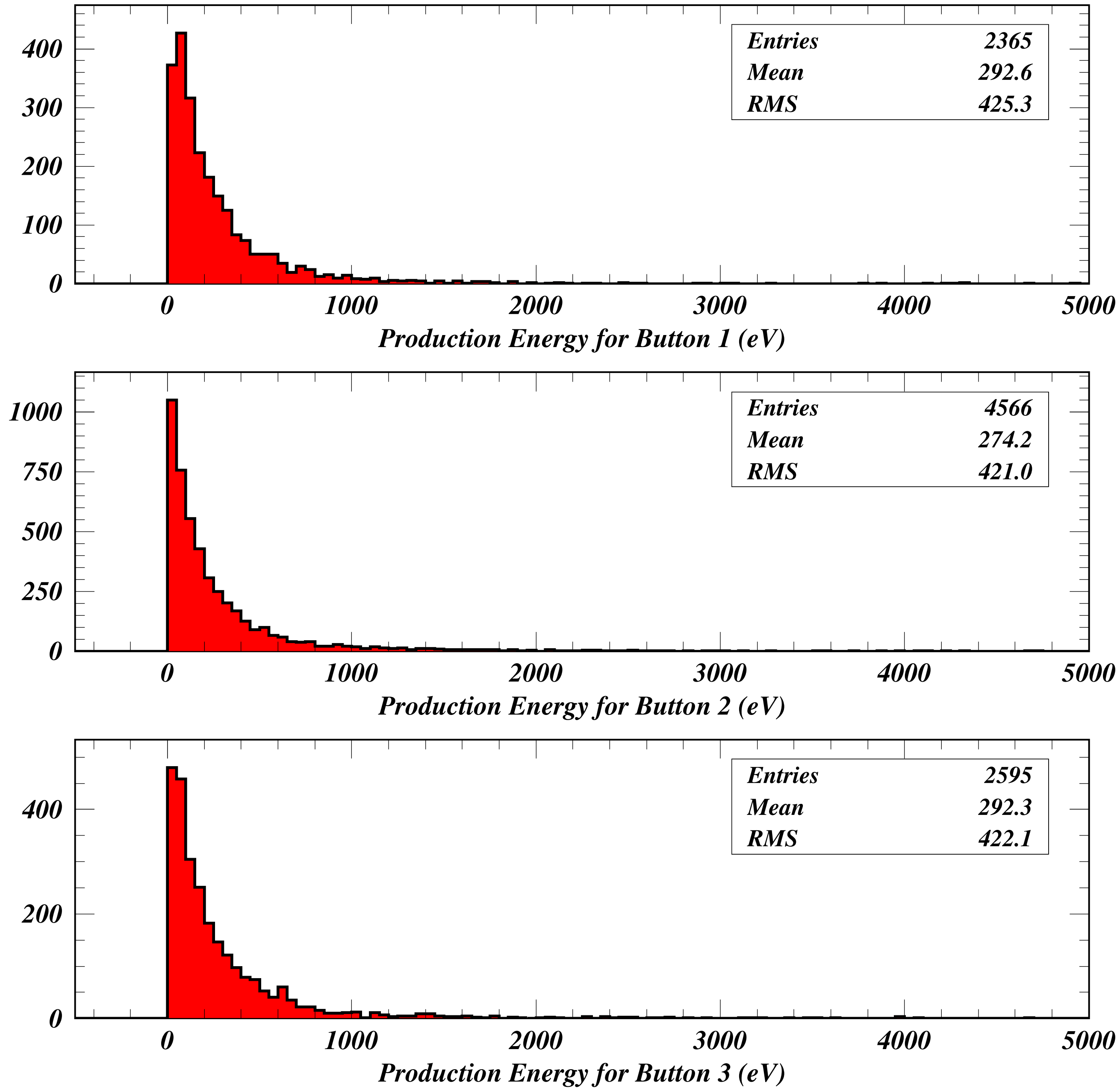
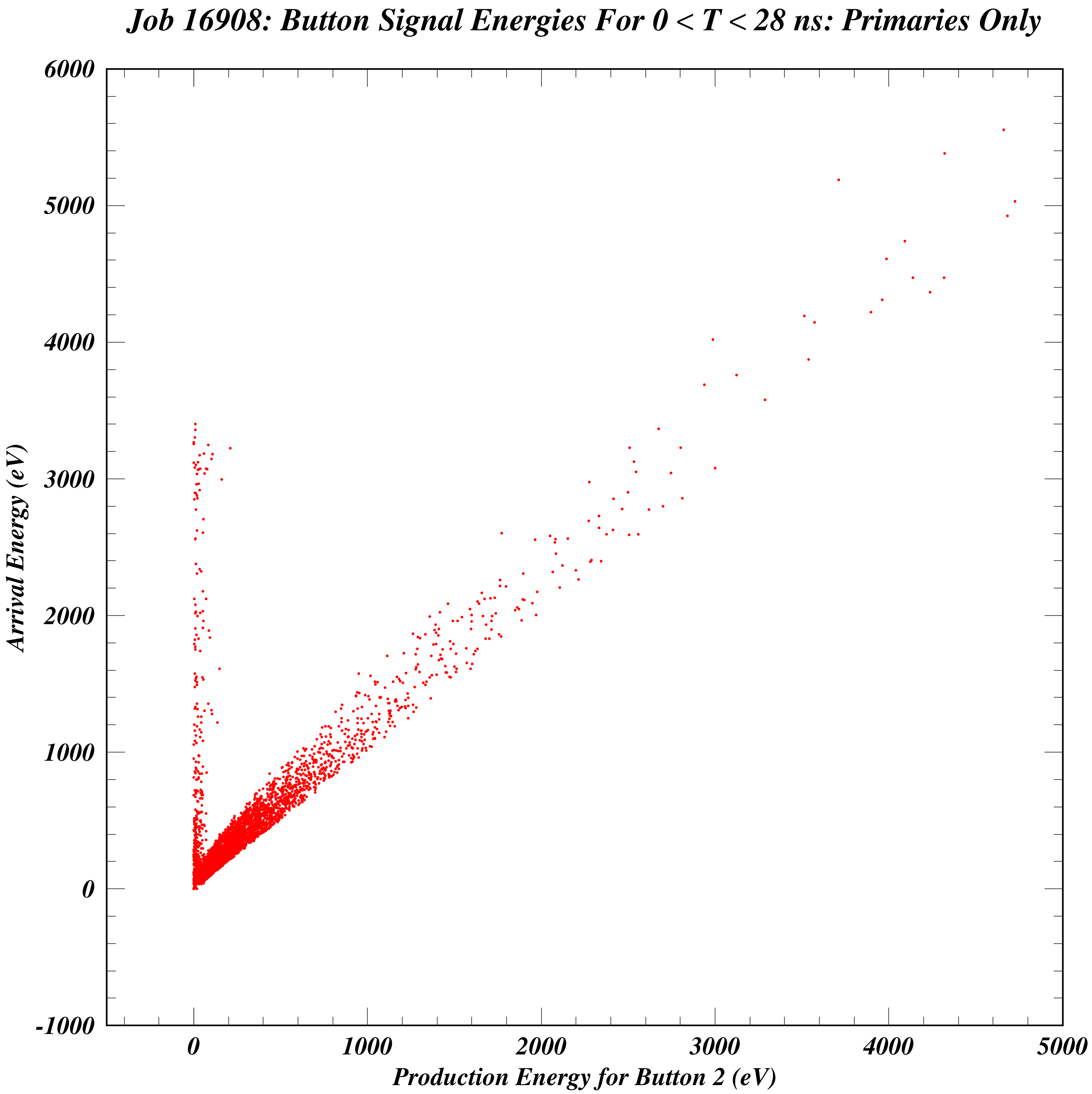
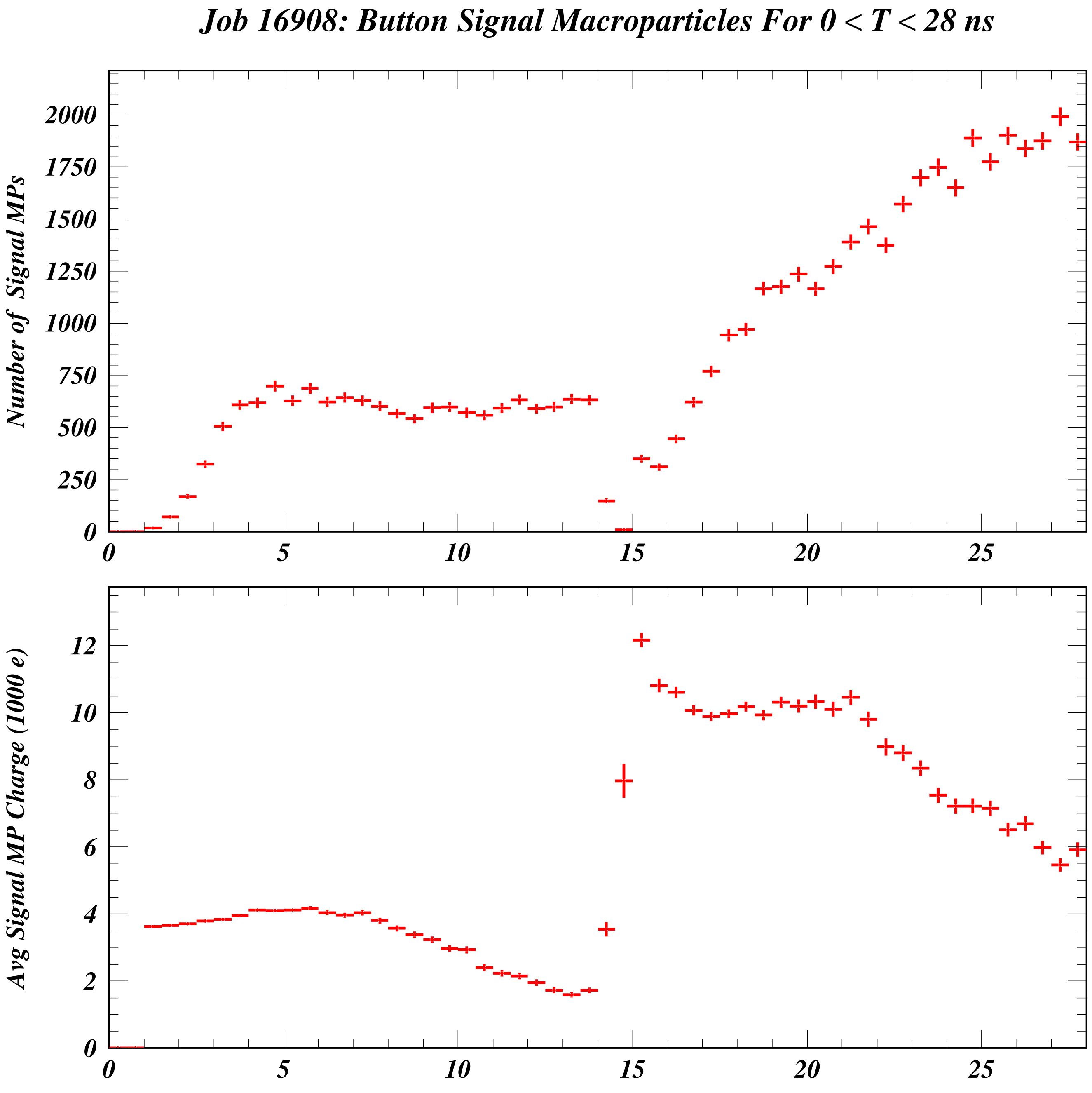
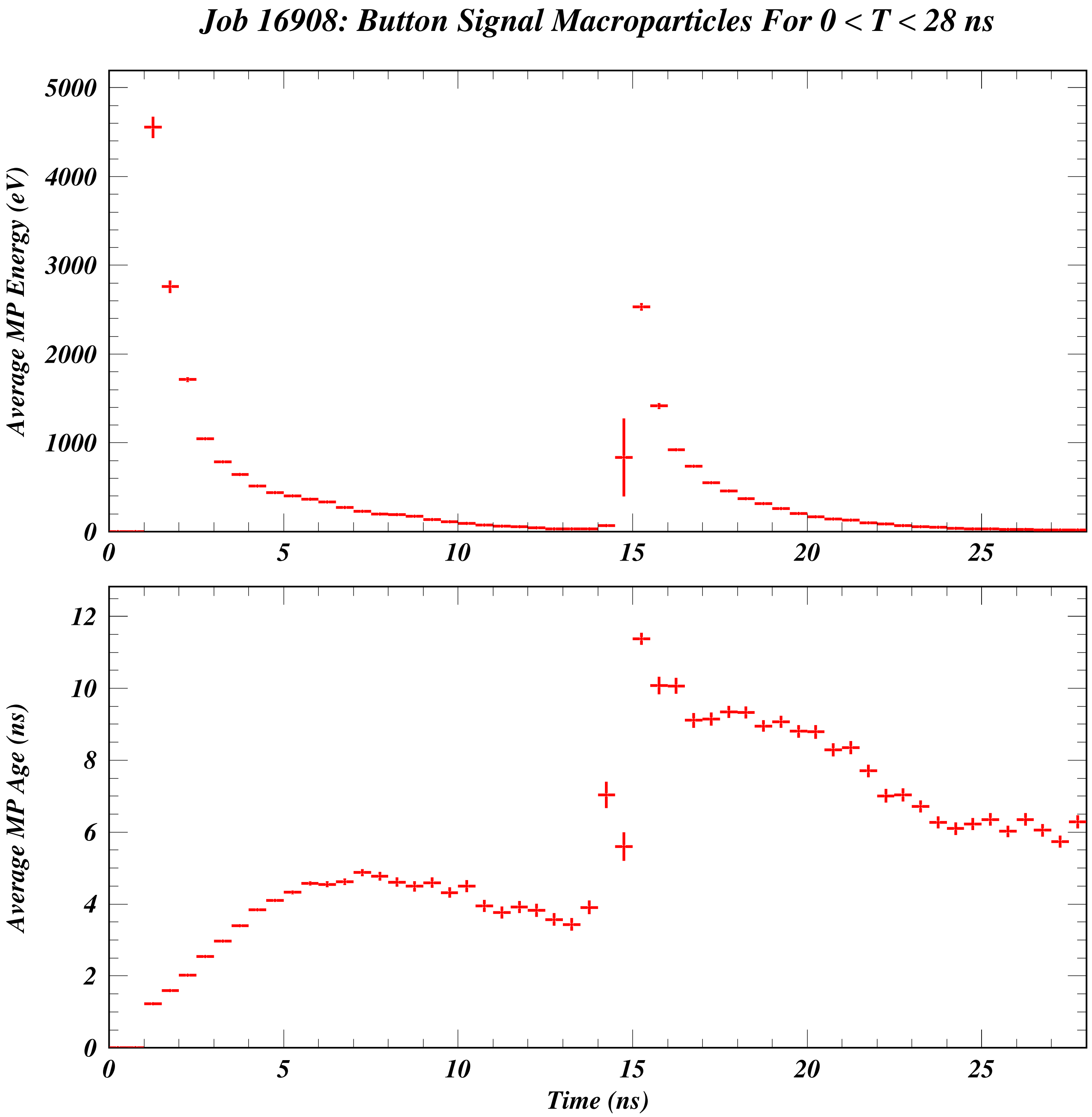
Job 16908: Button Signal Energies For 0 < T < 28 ns: Primaries Only




Job 16908: Button Signal Energies For 0 < T < 28 ns: Primaries Only
6000
5000
4000
3000
2000
1000
0
-1000
Arrival Energy (eV)
0
1000
2000
3000
4000
5000
Production Energy for Button 2 (eV)


Job 16908: Button Signal Macroparticles For 0 < T < 28 ns
Number of Signal MPs
0
250
500
750
1000
1250
1500
1750
2000
0
5
10
15
20
25
Avg Signal MP Charge (1000 e)
0
2
4
6
8
10
12

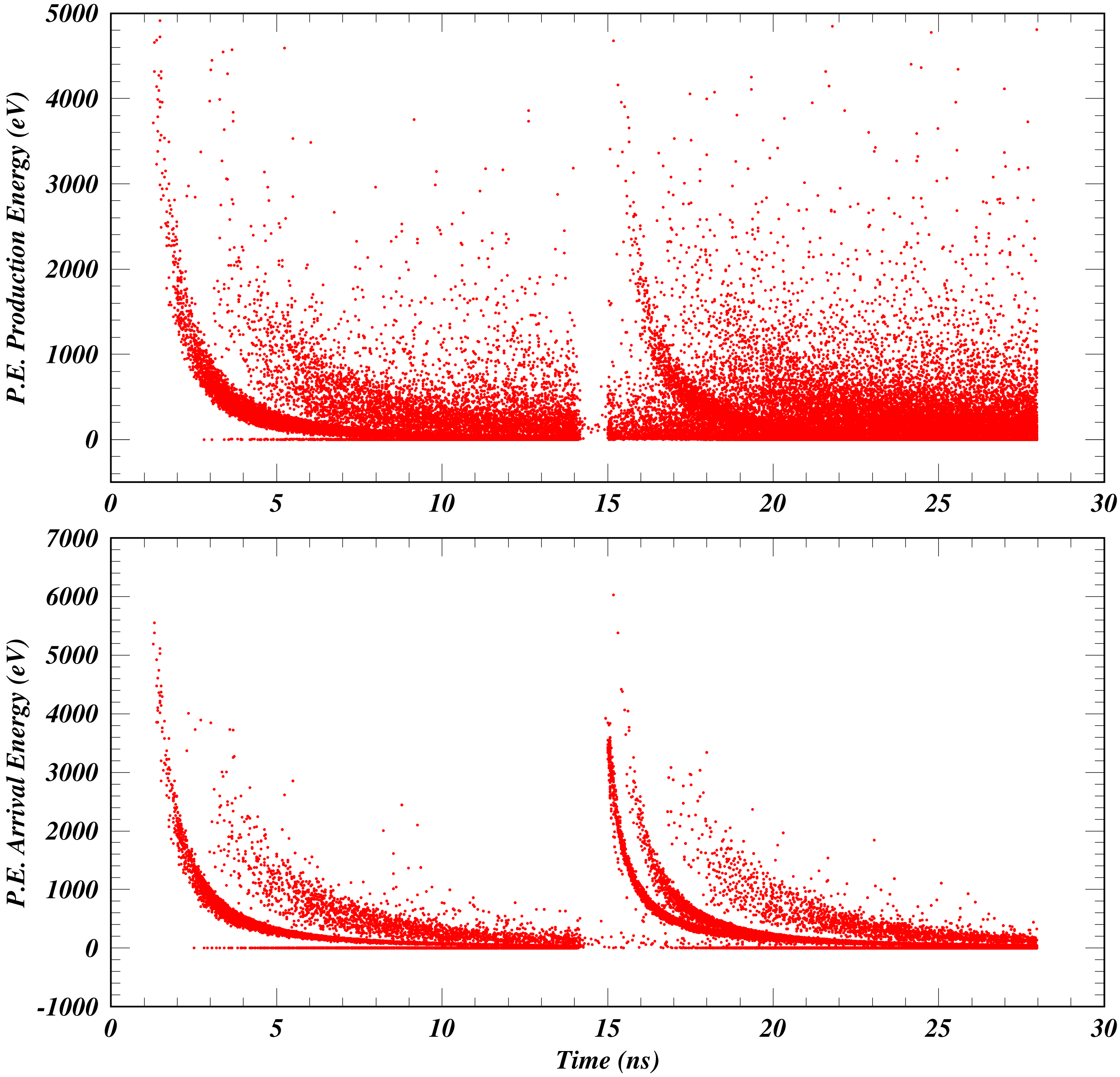
10/09/17 14.55

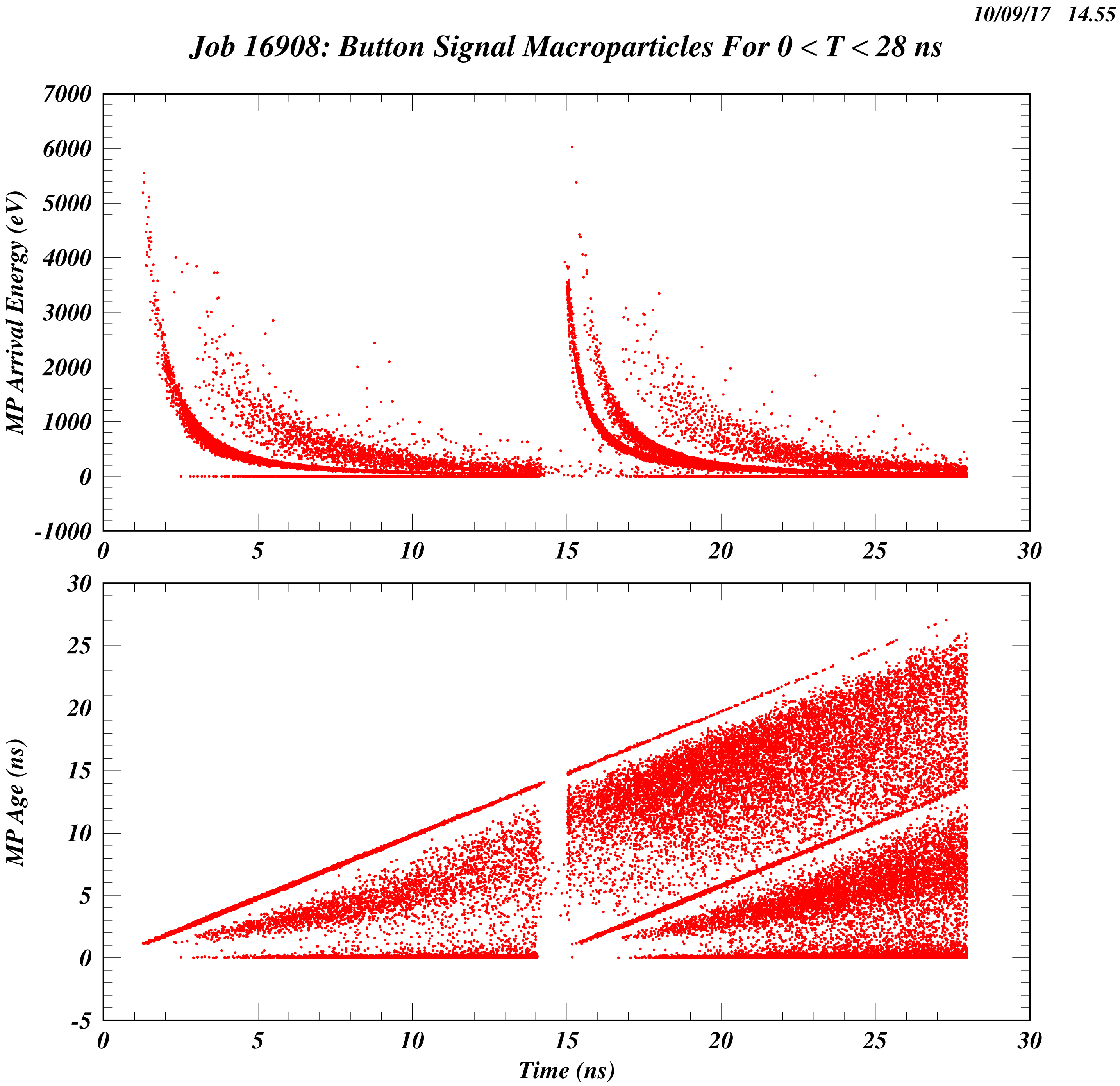


Job 16908: Button Signal Macroparticles For 0 < T < 28 ns
Average MP Energy (eV)
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
Average MP Age (ns)
12
10
8
6
4
2
0
Time (ns)

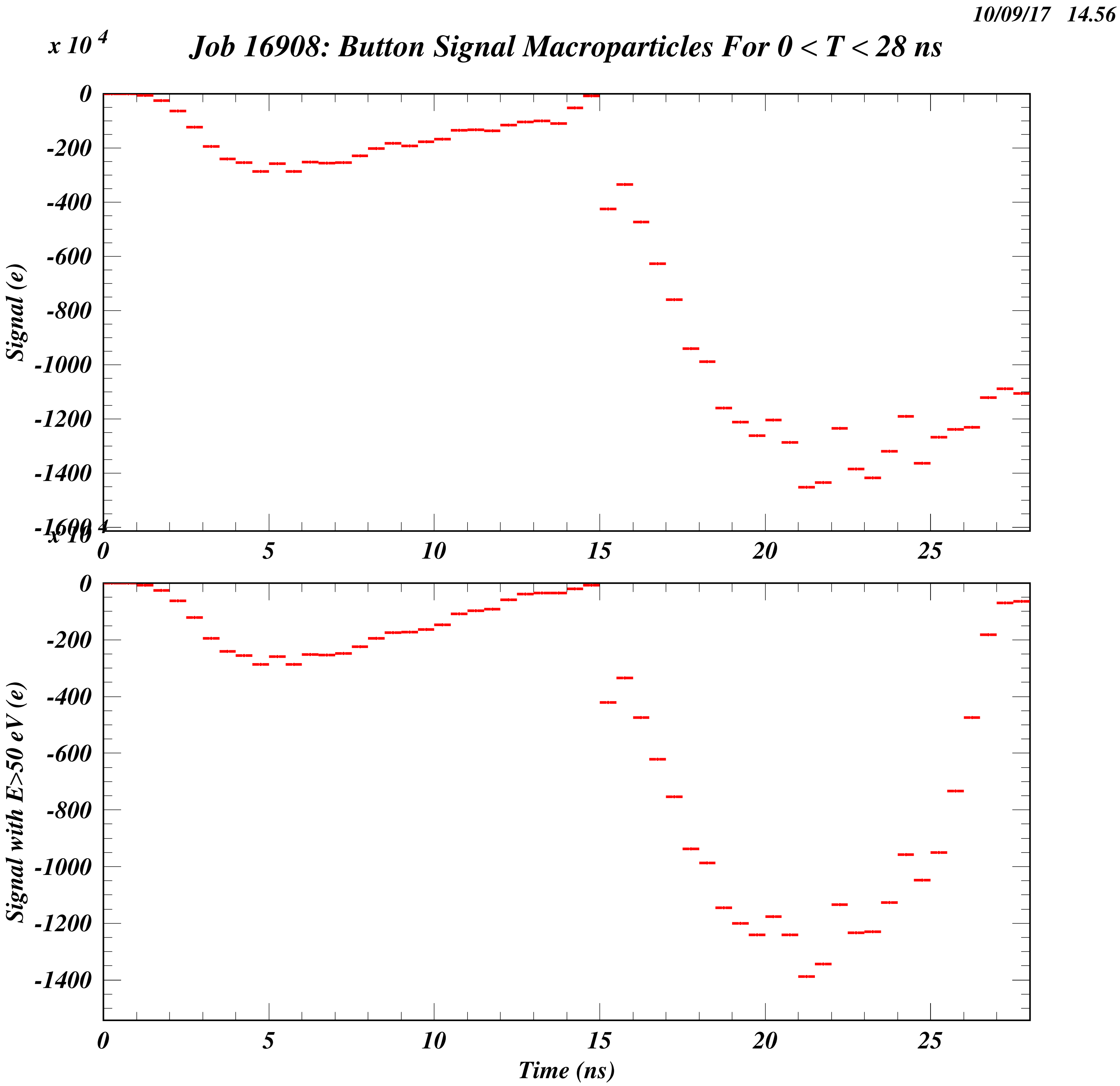
10/09/17 14.55

Job 16908: Button Signal Macroparticles For 0 < T < 28 ns



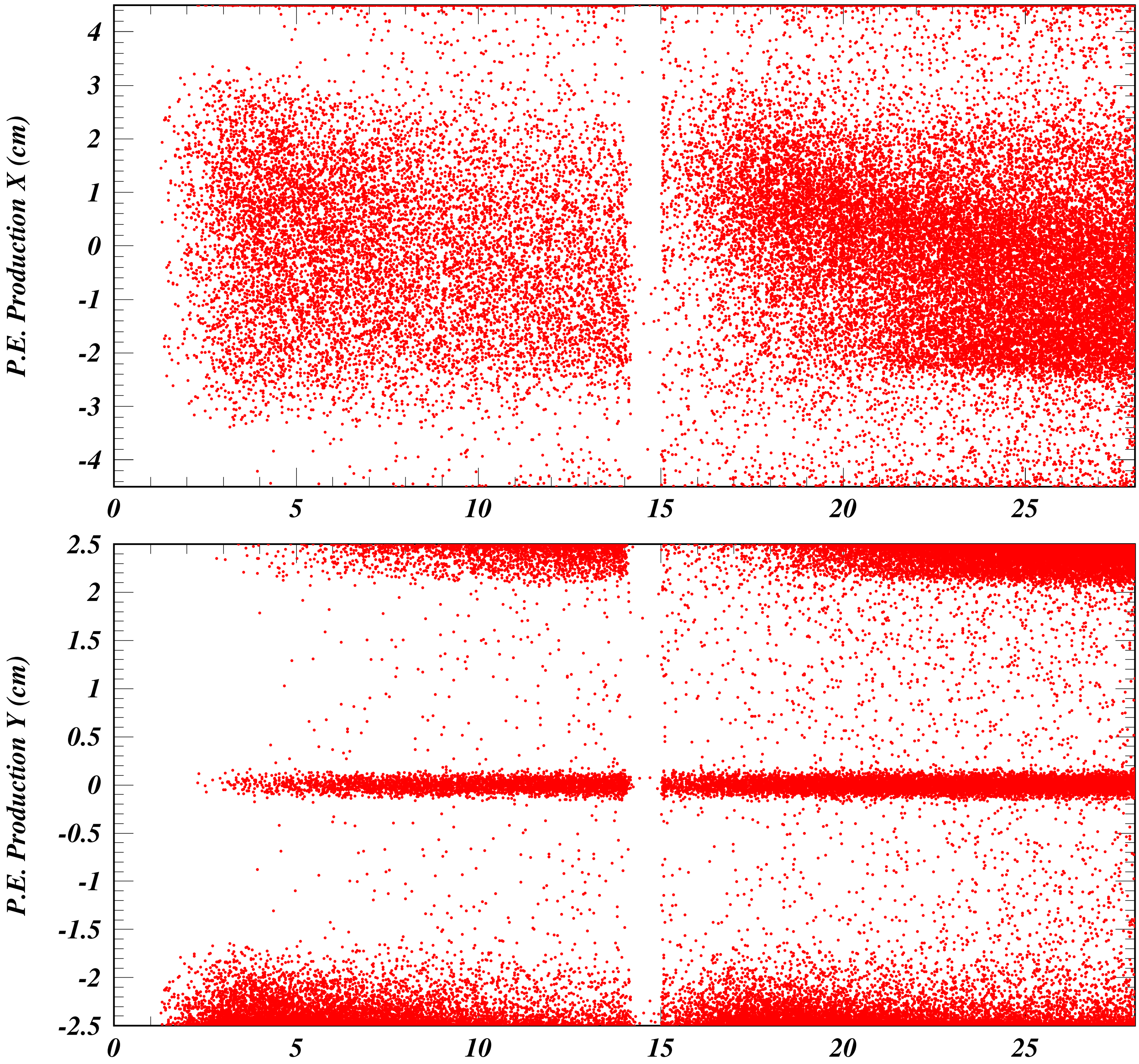


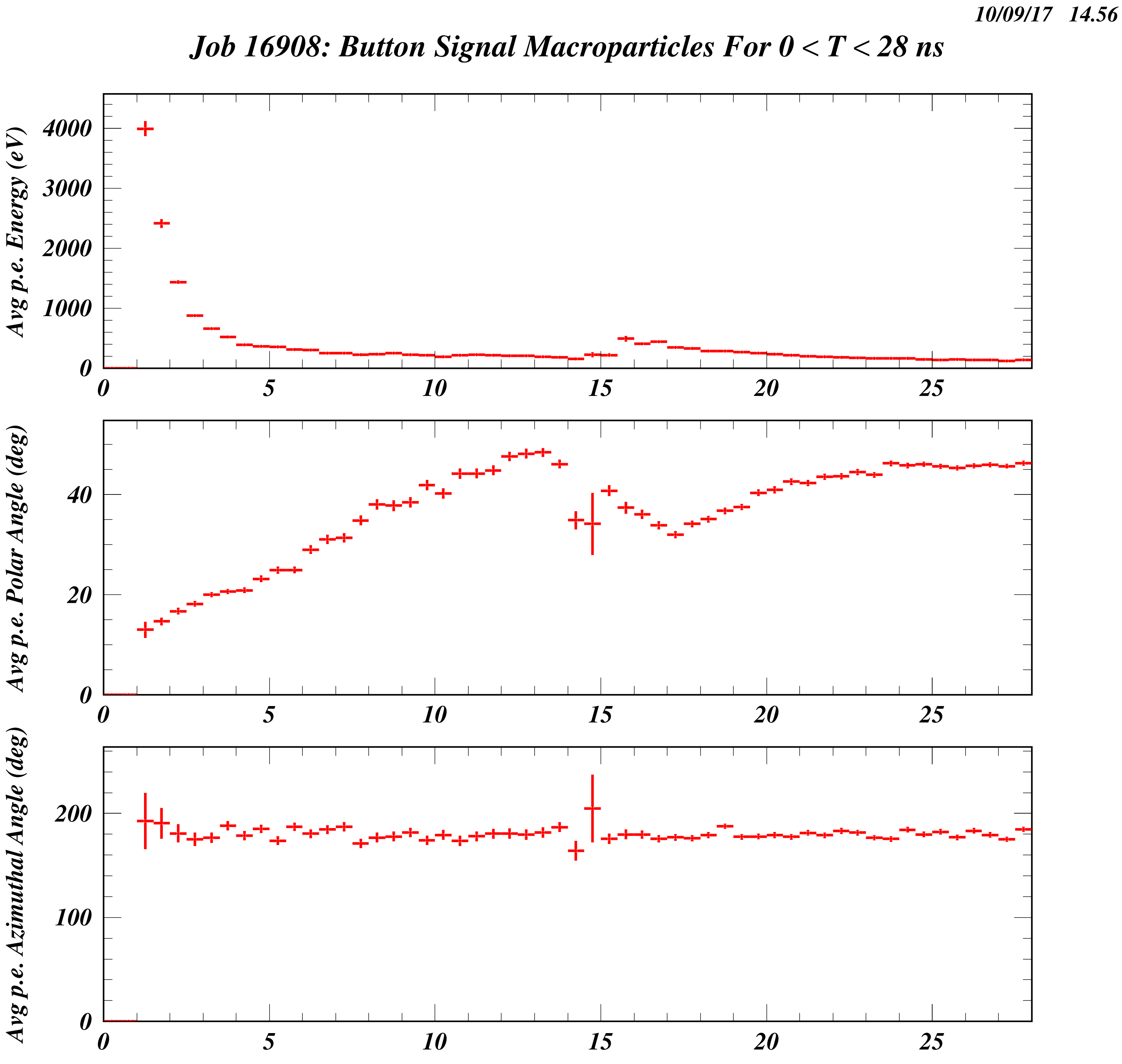
10/09/17 14.55
Job 16908: Button Signal Macroparticles For 0 < T < 28 ns
MP Arrival Energy (eV)
7000
6000
5000
4000
3000
2000
1000
0
-1000
0
5
10
15
20
25
30
MP Age (ns)
30
25
20
15
10
5
0
-5
Time (ns)

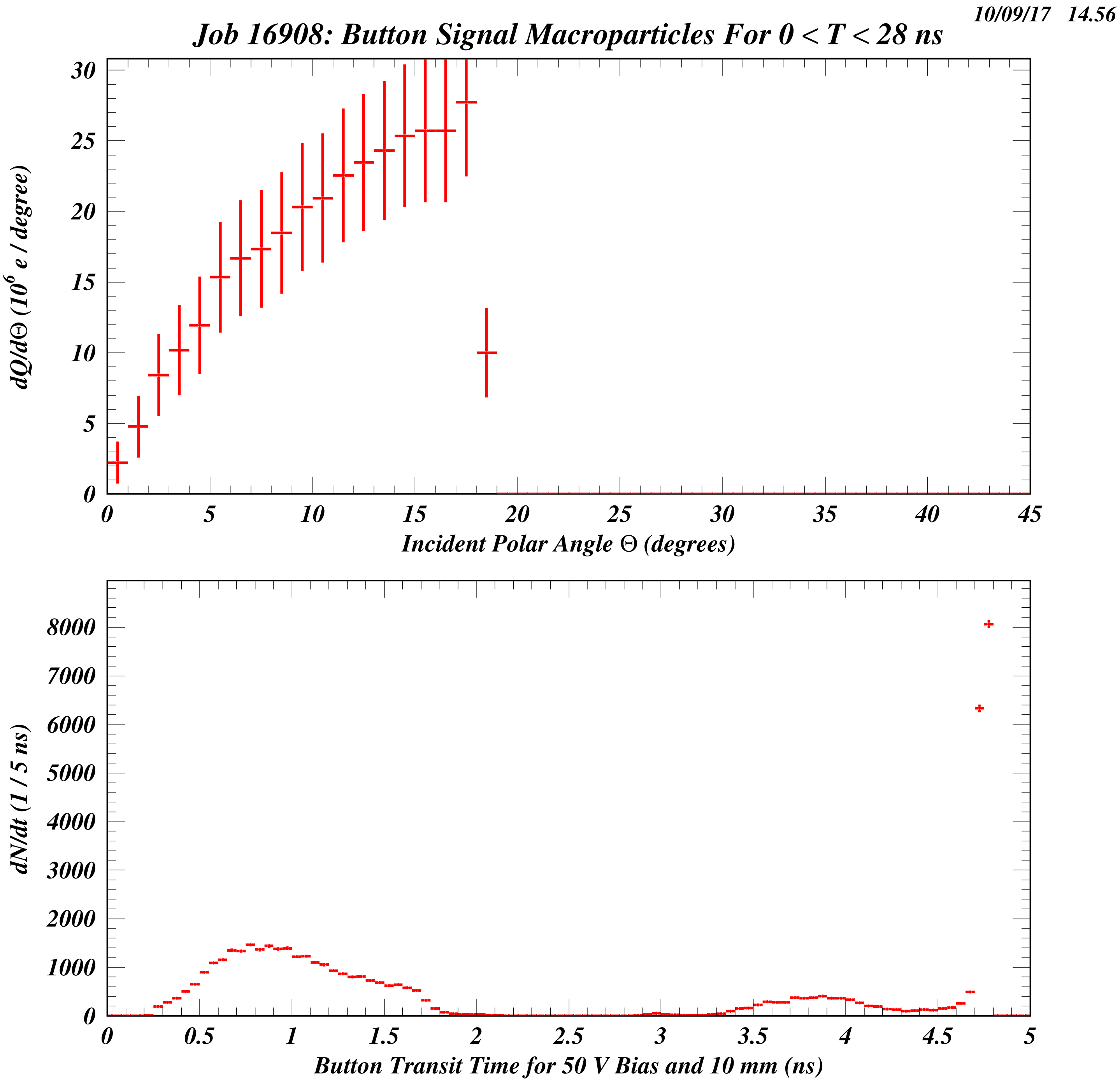

10/09/17 14.56
Job 16908: Button Signal Macroparticles For 0 < T < 28 ns
x 10^4
Signal (e)
0
-200
-400
-600
-800
-1000
-1200
-1400
-1600
x 10^4
Signal with E>50 eV (e)
0
5
10
15
20
25
Time (ns)

10/09/17 14.56

Job 16908: Button Signal Macroparticles For 0 < T < 28 ns




10/09/17 14.56
Job 16908: Button Signal Macroparticles For 0 < T < 28 ns
Avg p.e. Energy (eV)
4000
3000
2000
1000
0
0
5
10
15
20
25
Avg p.e. Polar Angle (deg)
40
20
0
0
5
10
15
20
25
Avg p.e. Azimuthal Angle (deg)
200
100
0
0
5
10
15
20
25


10/09/17 14.56
Job 16908: Button Signal Macroparticles For 0 < T < 28 ns
dQ/dΘ (10^6 e / degree)
0
5
10
15
20
25
30
0
5
10
15
20
25
30
35
40
45
Incident Polar Angle Θ (degrees)
dN/dt (1 / 5 ns)
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Button Transit Time for 50 V Bias and 10 mm (ns)