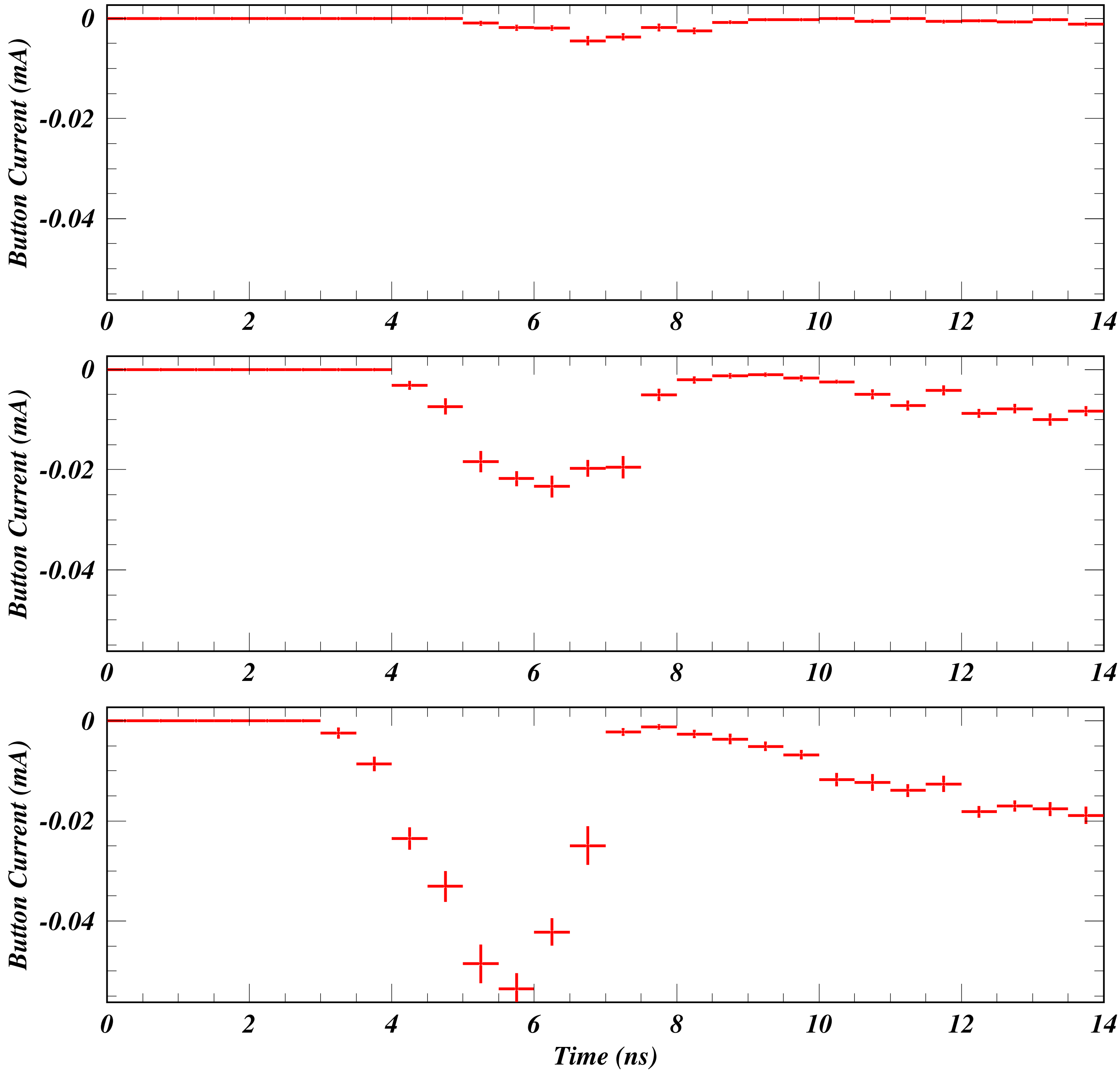
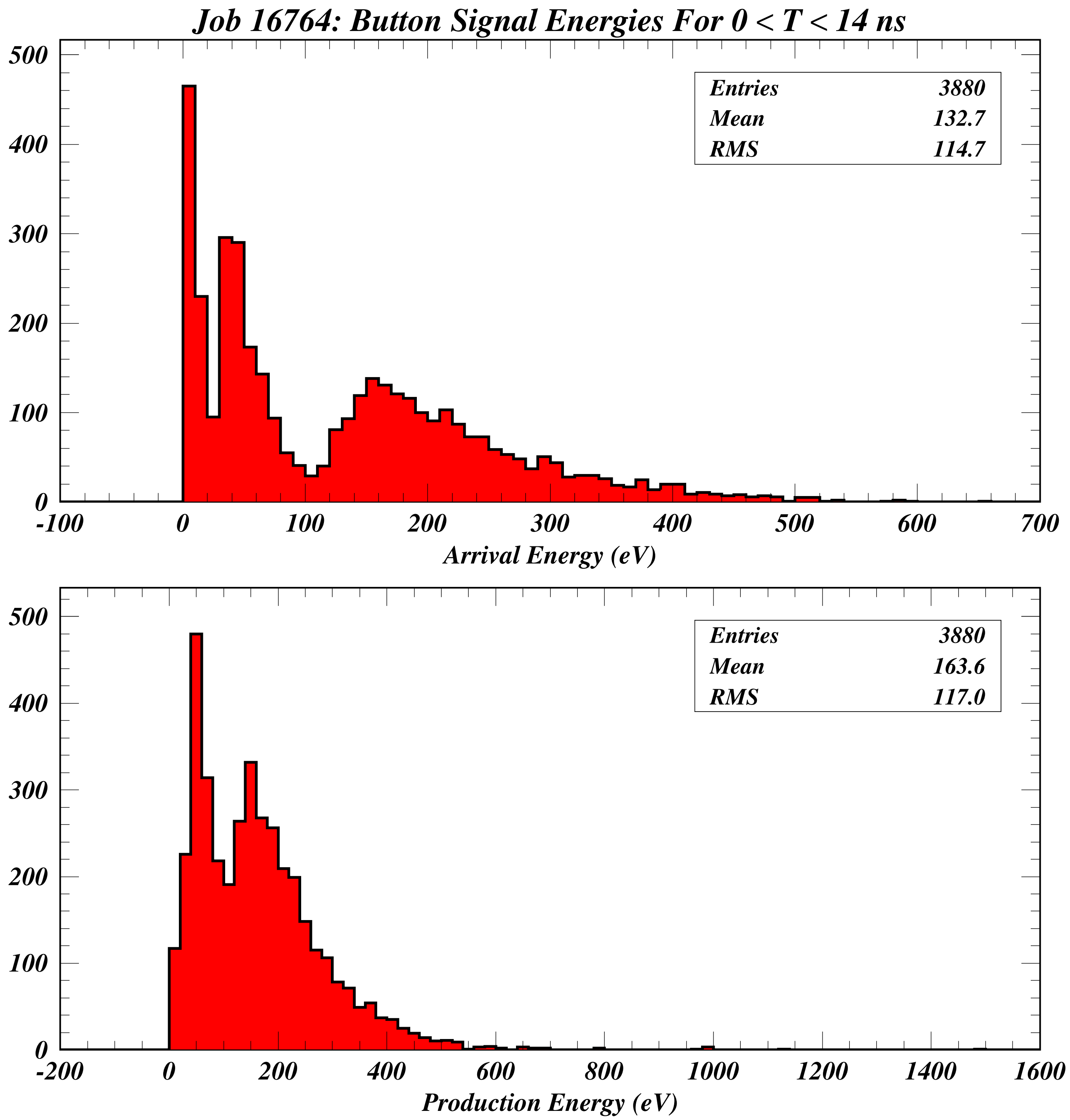
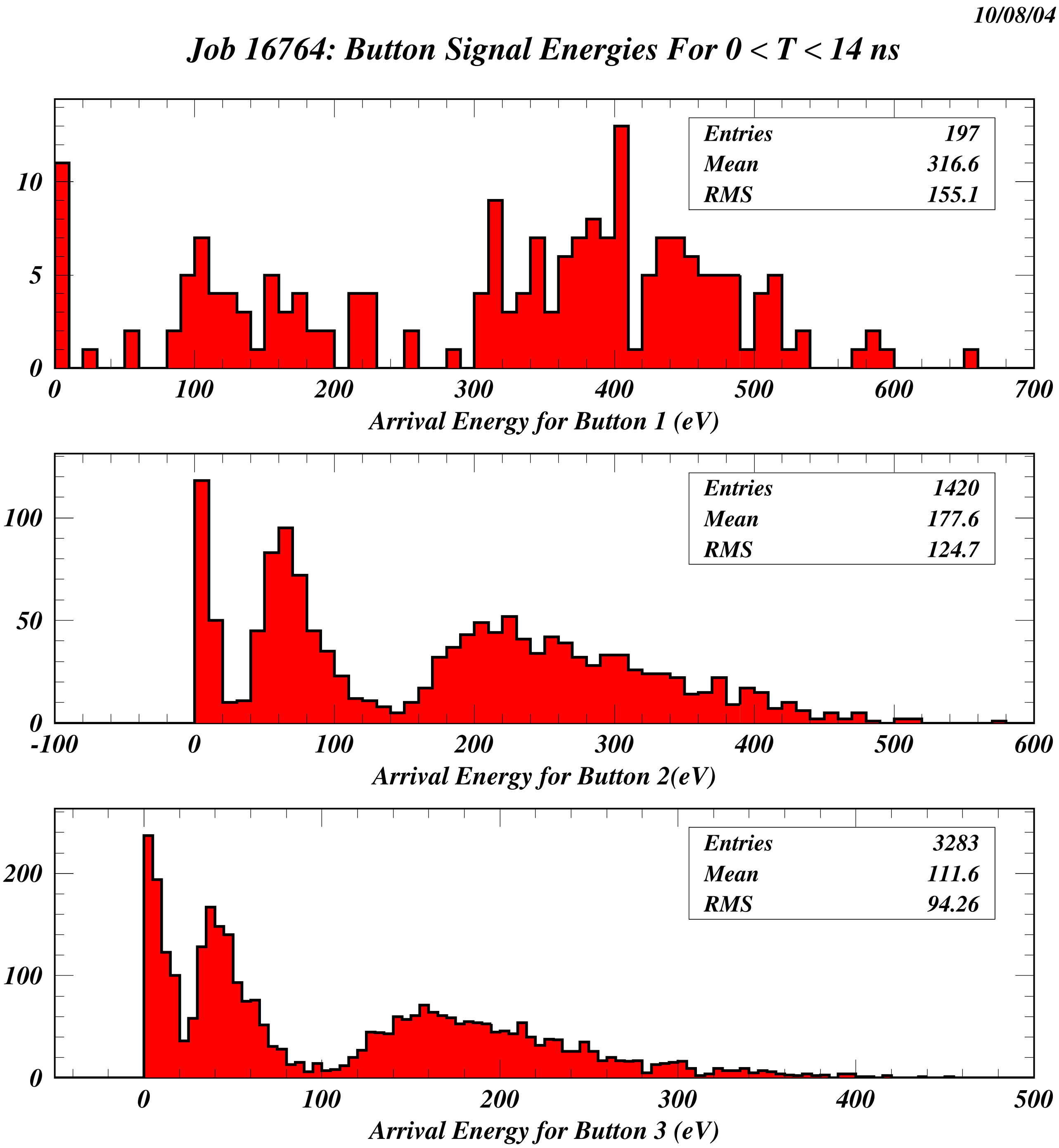
10/08/04 11.28

# Job 16764: Shielded Button Simulation



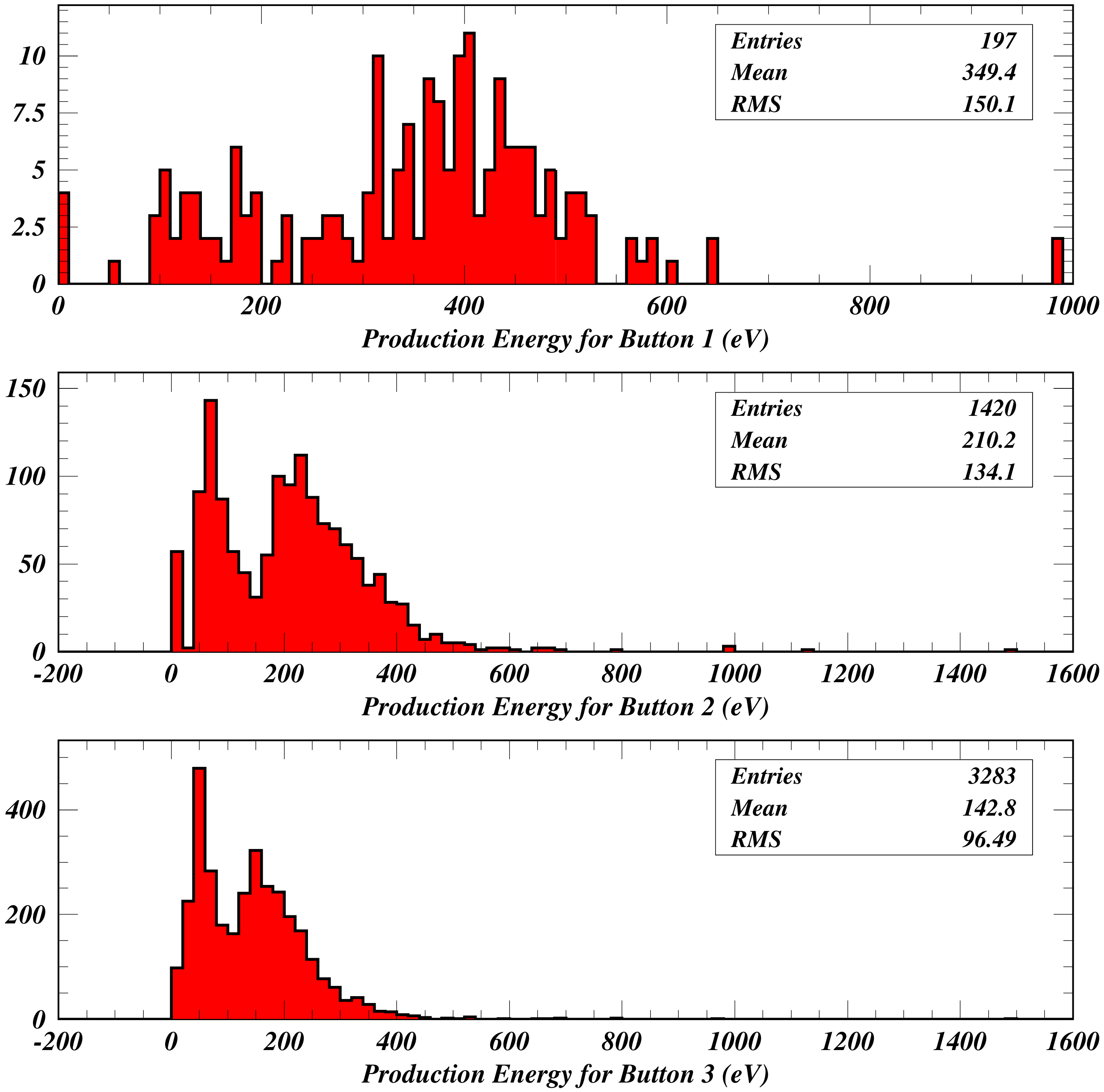
10/08/04 11.28


Job 16764: Button Signal Energies For 0 < T < 14 ns
Entries 3880
Mean 132.7
RMS 114.7
500
400
300
200
100
0
-100
0
100
200
300
400
500
600
700
Arrival Energy (eV)
Entries 3880
Mean 163.6
RMS 117.0
500
400
300
200
100
0
-200
0
200
400
600
800
1000
1200
1400
1600
Production Energy (eV)

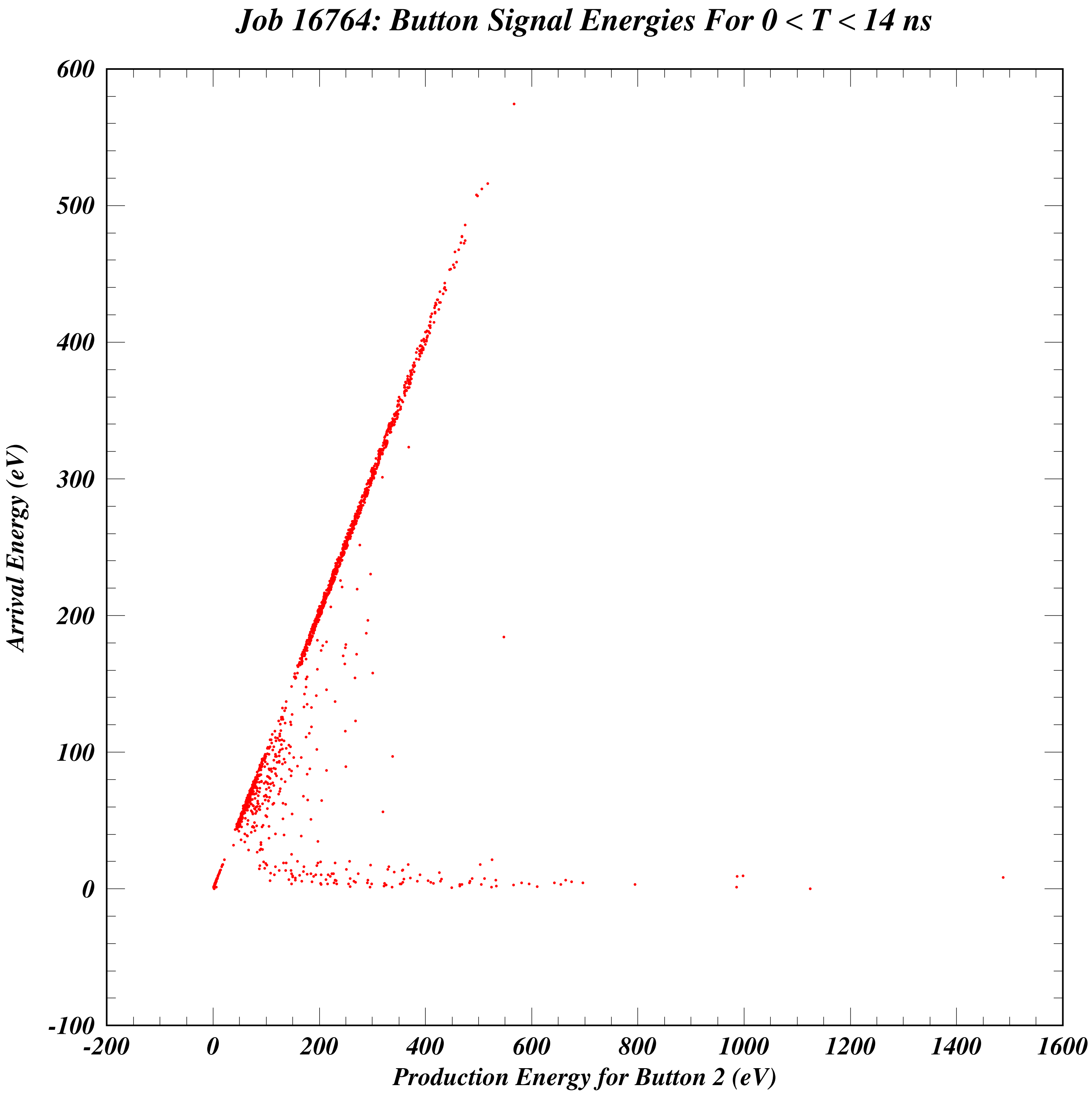

10/08/04 11.28
Job 16764: Button Signal Energies For 0 < T < 14 ns
Entries 197
Mean 316.6
RMS 155.1
Arrival Energy for Button 1 (eV)
Entries 1420
Mean 177.6
RMS 124.7
Arrival Energy for Button 2(eV)
Entries 3283
Mean 111.6
RMS 94.26
Arrival Energy for Button 3 (eV)

10/08/04 11.28

# Job 16764: Button Signal Energies For 0 < T < 14 ns



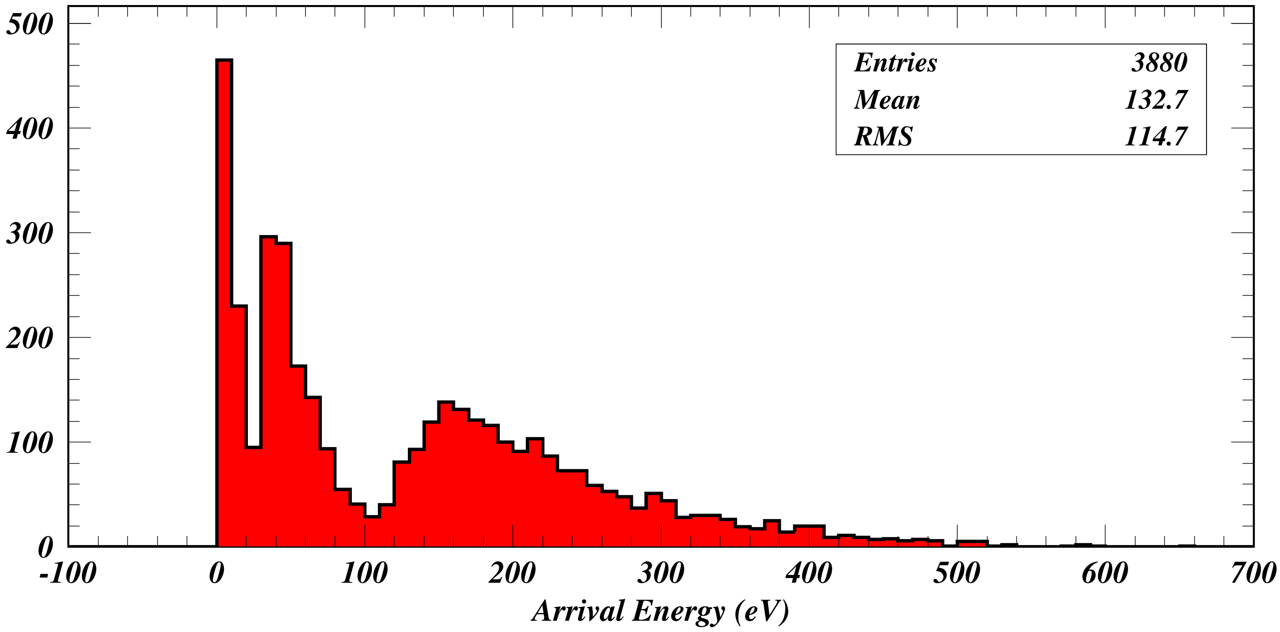
10/08/04 11.28

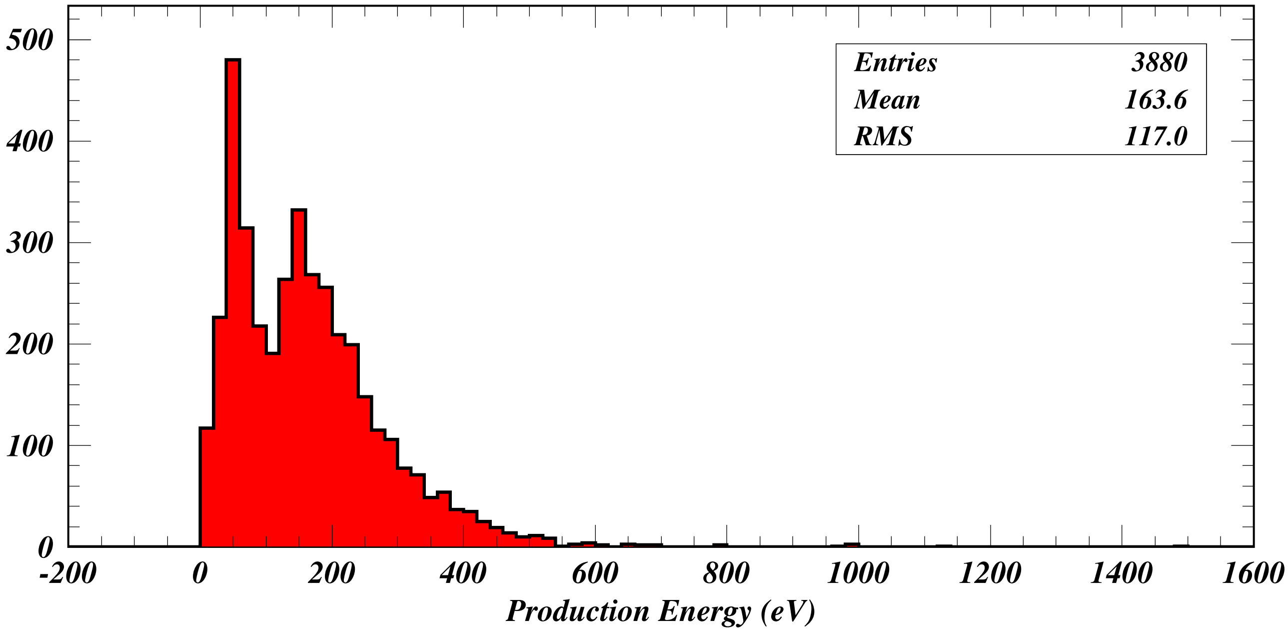


Job 16764: Button Signal Energies For 0 < T < 14 ns
Arrival Energy (eV)
Production Energy for Button 2 (eV)
600
500
400
300
200
100
0
-100
-200
0
200
400
600
800
1000
1200
1400
1600

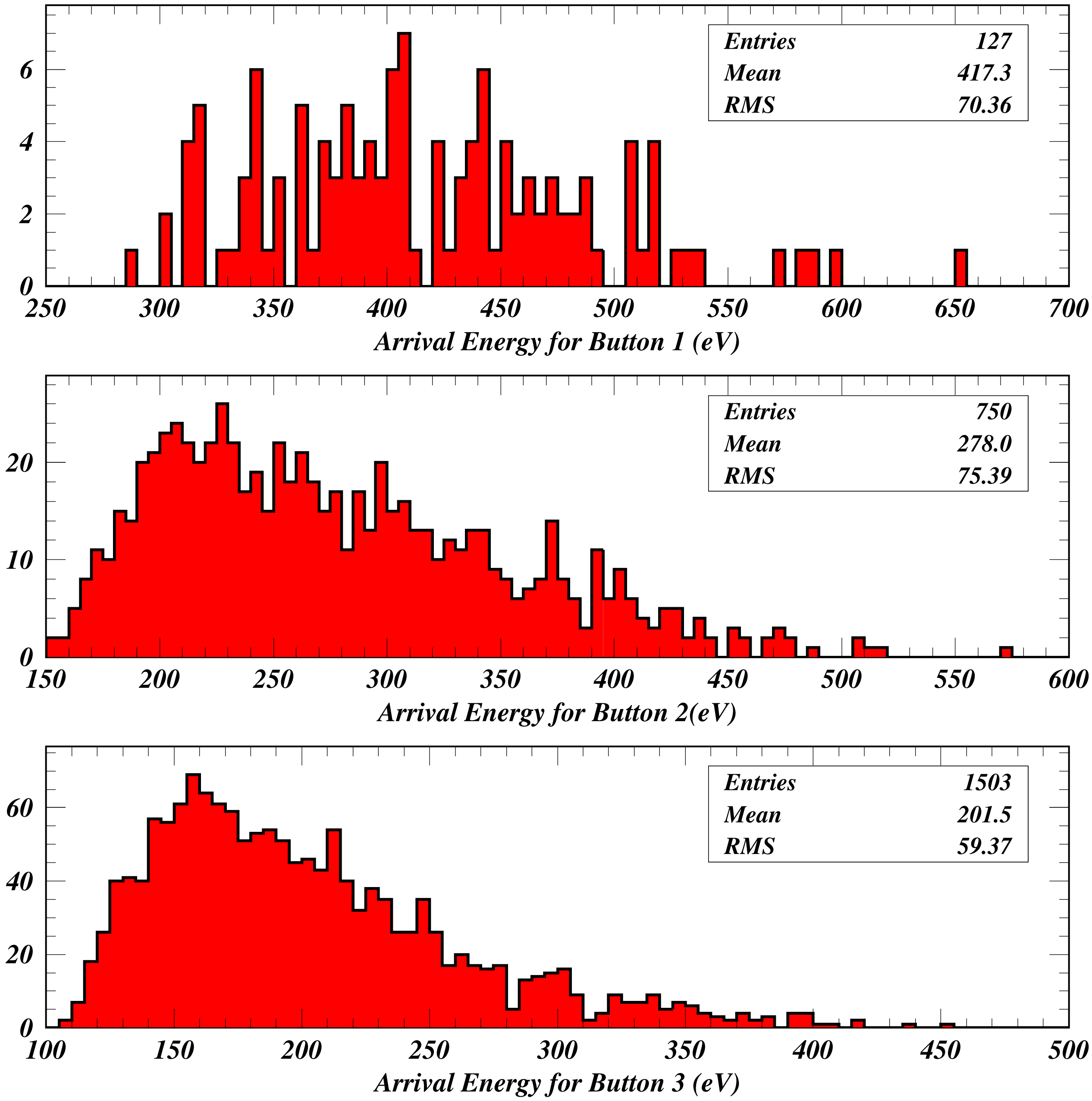
10/08/04 11.28

# Job 16764: Button Signal Energies For 0 < T < 14 ns: Primaries Only



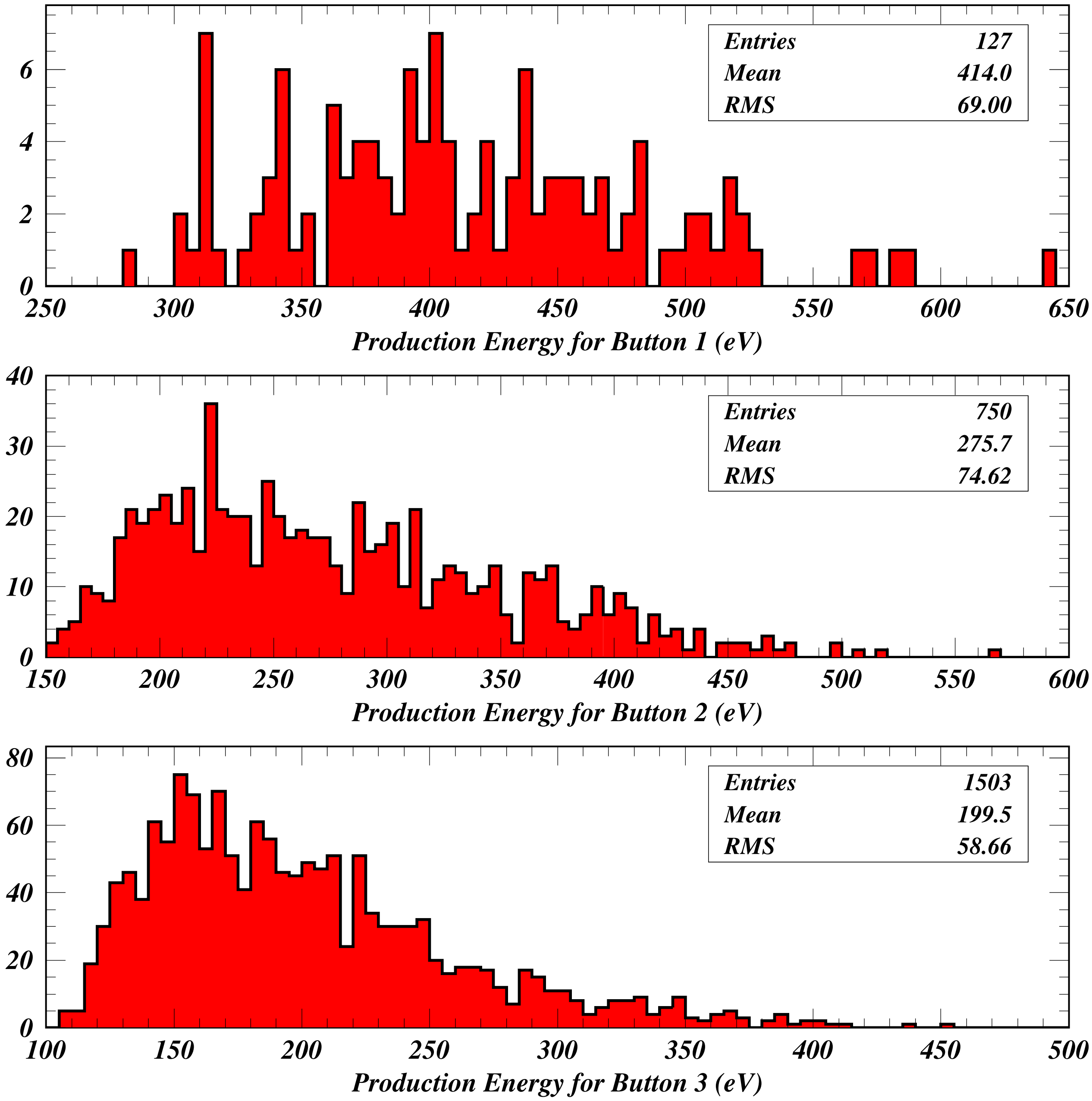



# Job 16764: Button Signal Energies For 0 < T < 14 ns: Primaries Only

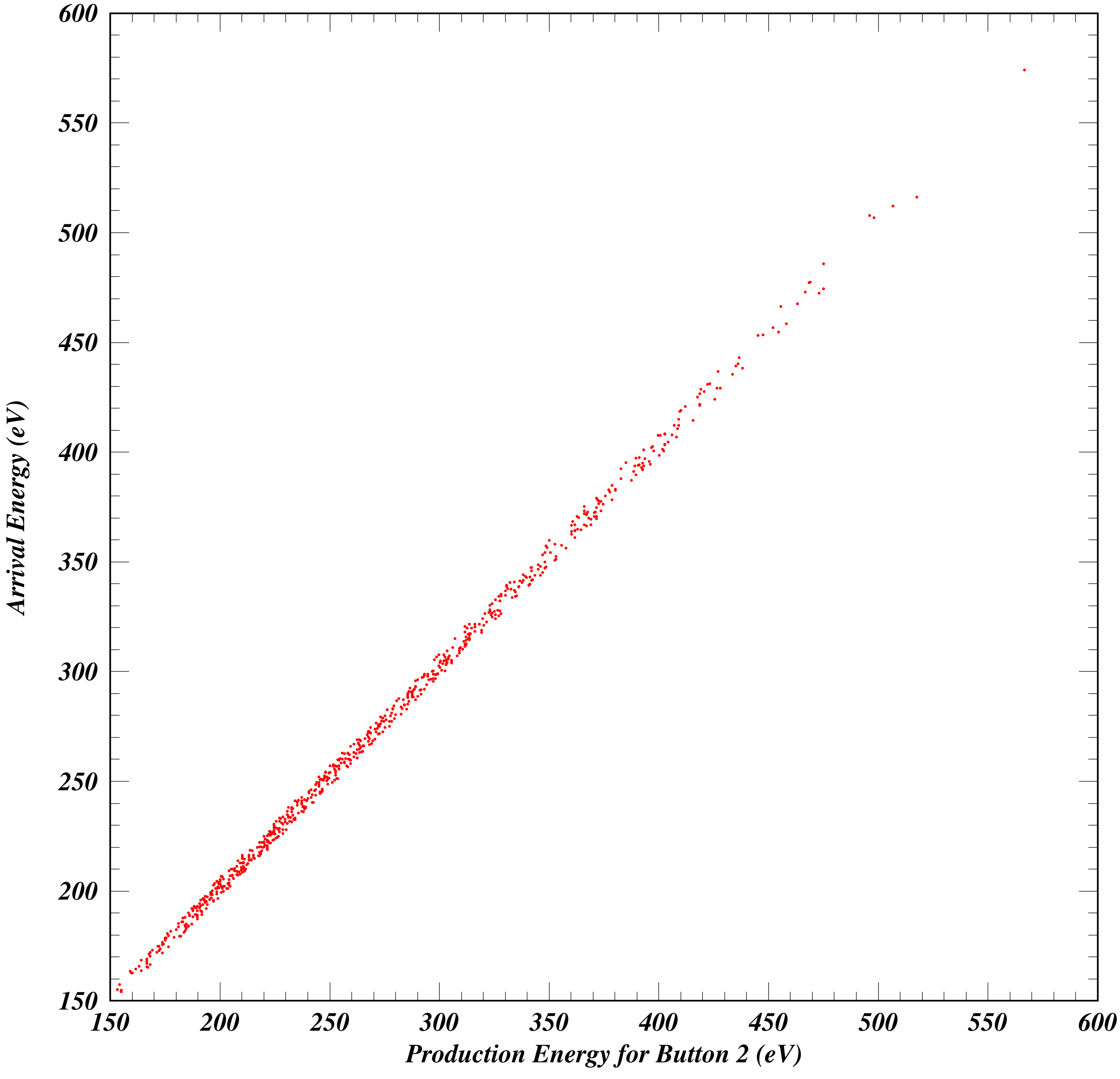


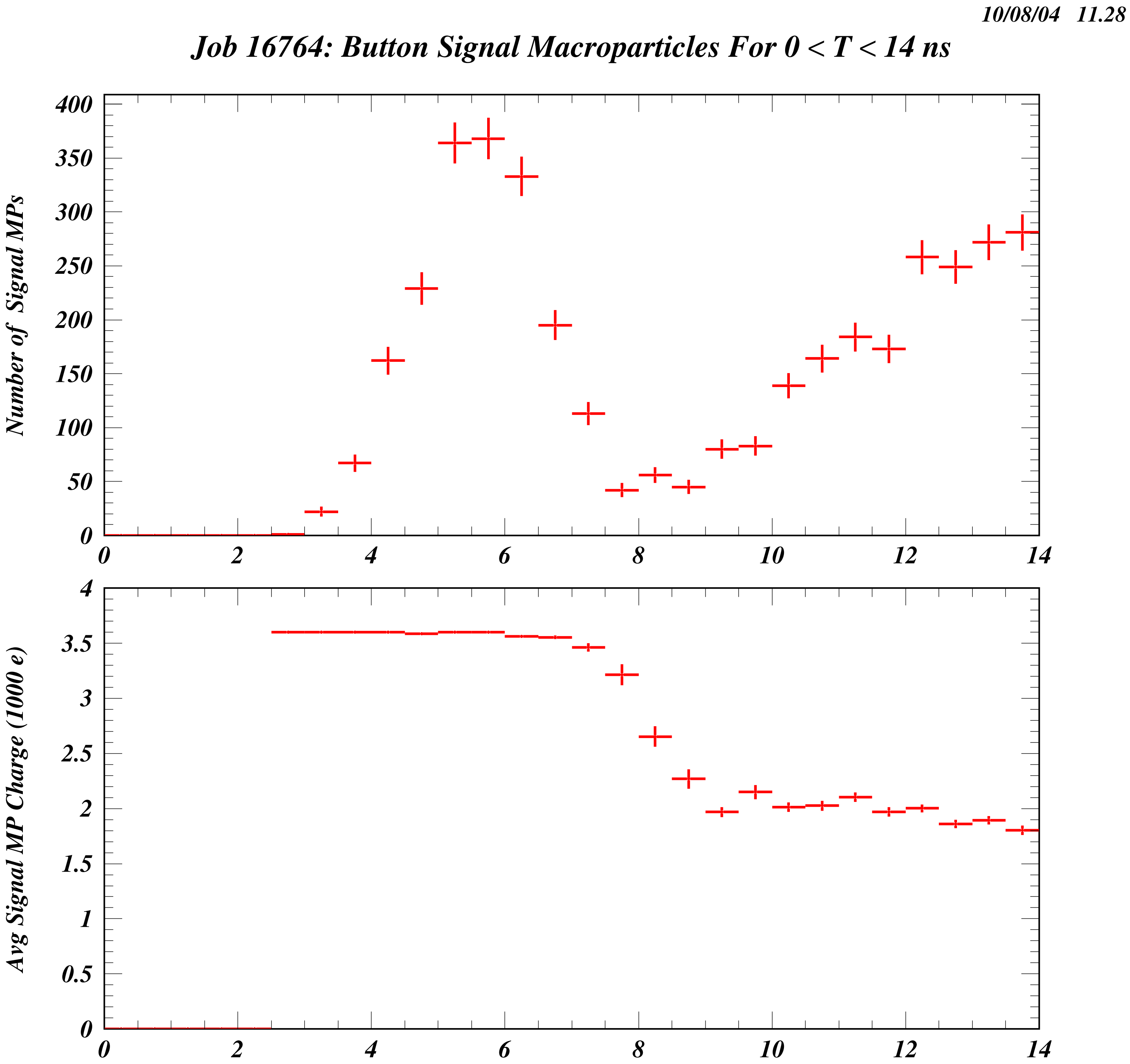
10/08/04 11.28

# Job 16764: Button Signal Energies For 0 < T < 14 ns: Primaries Only



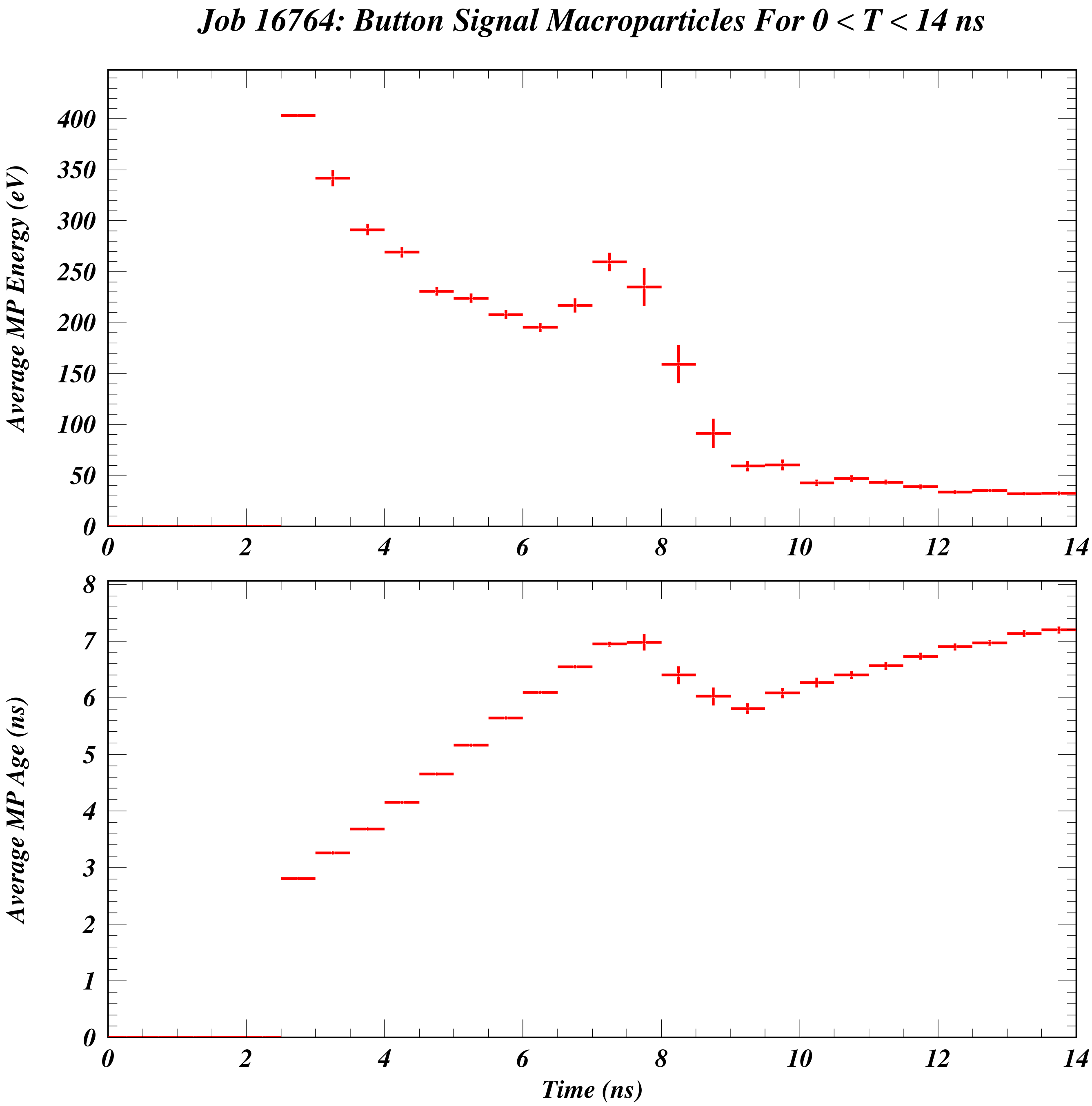
Job 16764: Button Signal Energies For 0 < T < 14 ns: Primaries Only



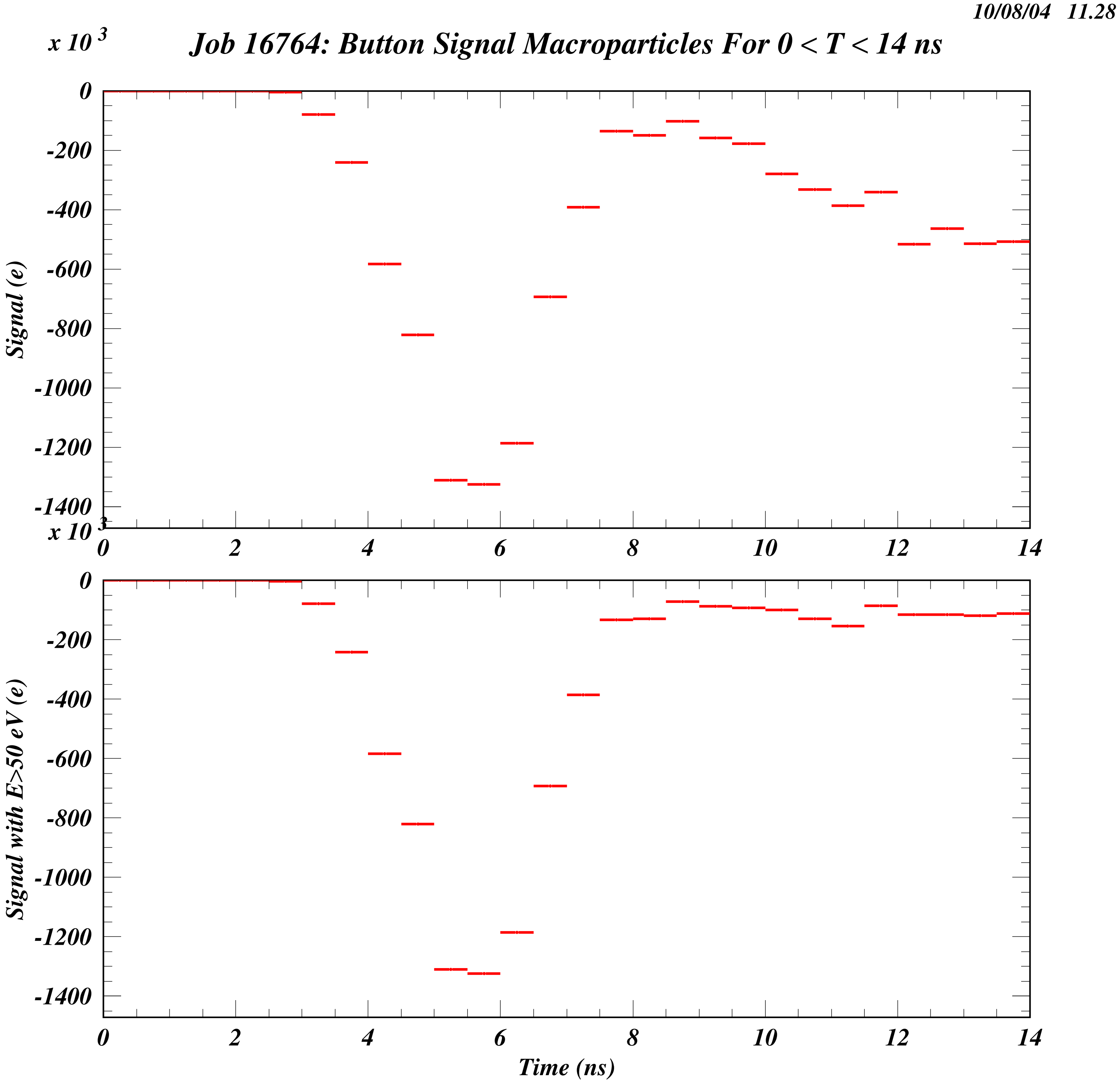


10/08/04 11.28
Job 16764: Button Signal Macroparticles For 0 < T < 14 ns
Number of Signal MPs
Avg Signal MP Charge (1000 e)

10/08/04 11.28



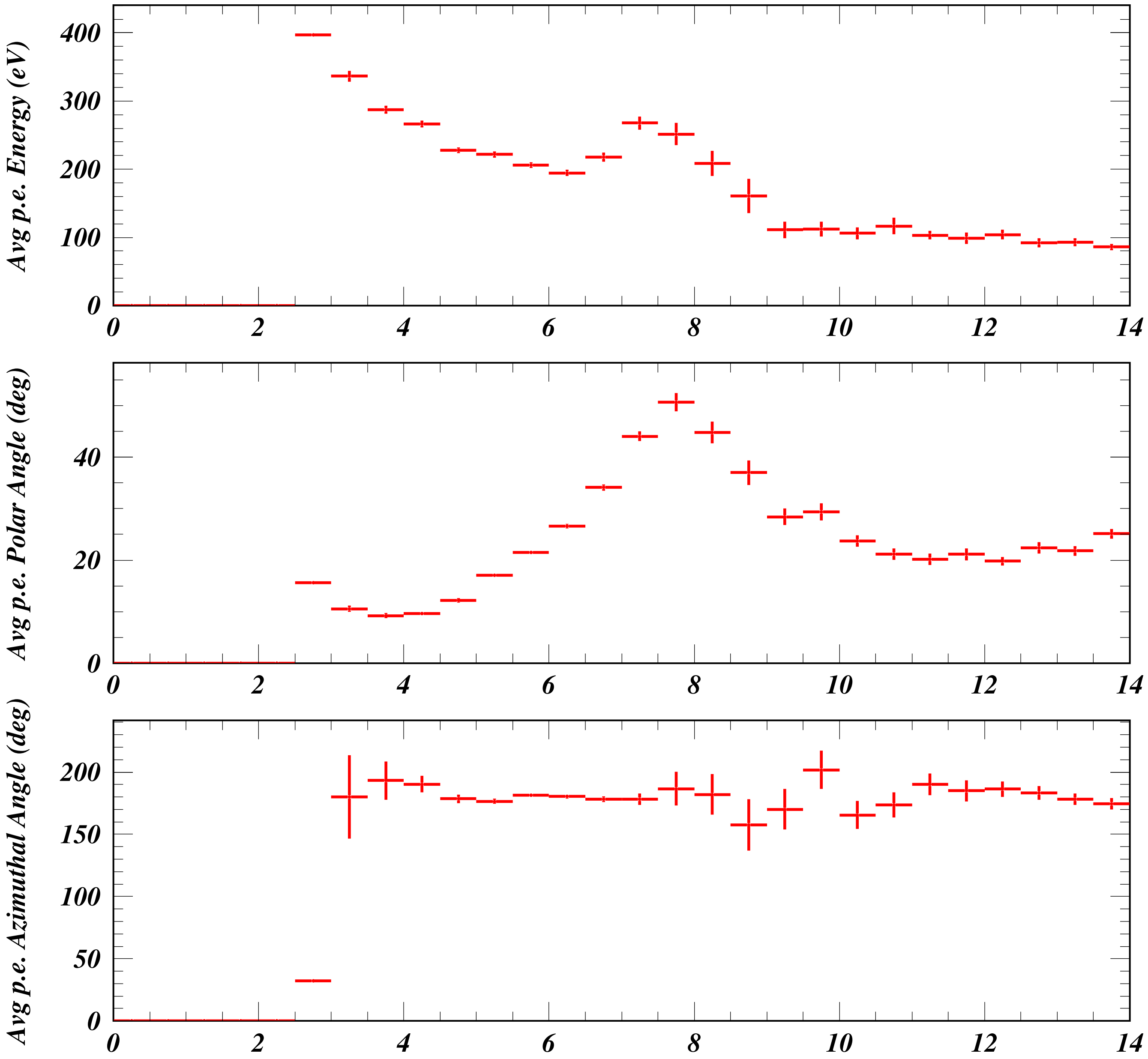
Job 16764: Button Signal Macroparticles For 0 < T < 14 ns
Average MP Energy (eV)
0
50
100
150
200
250
300
350
400
0
2
4
6
8
10
12
14
Average MP Age (ns)
0
1
2
3
4
5
6
7
8
0
2
4
6
8
10
12
14
Time (ns)

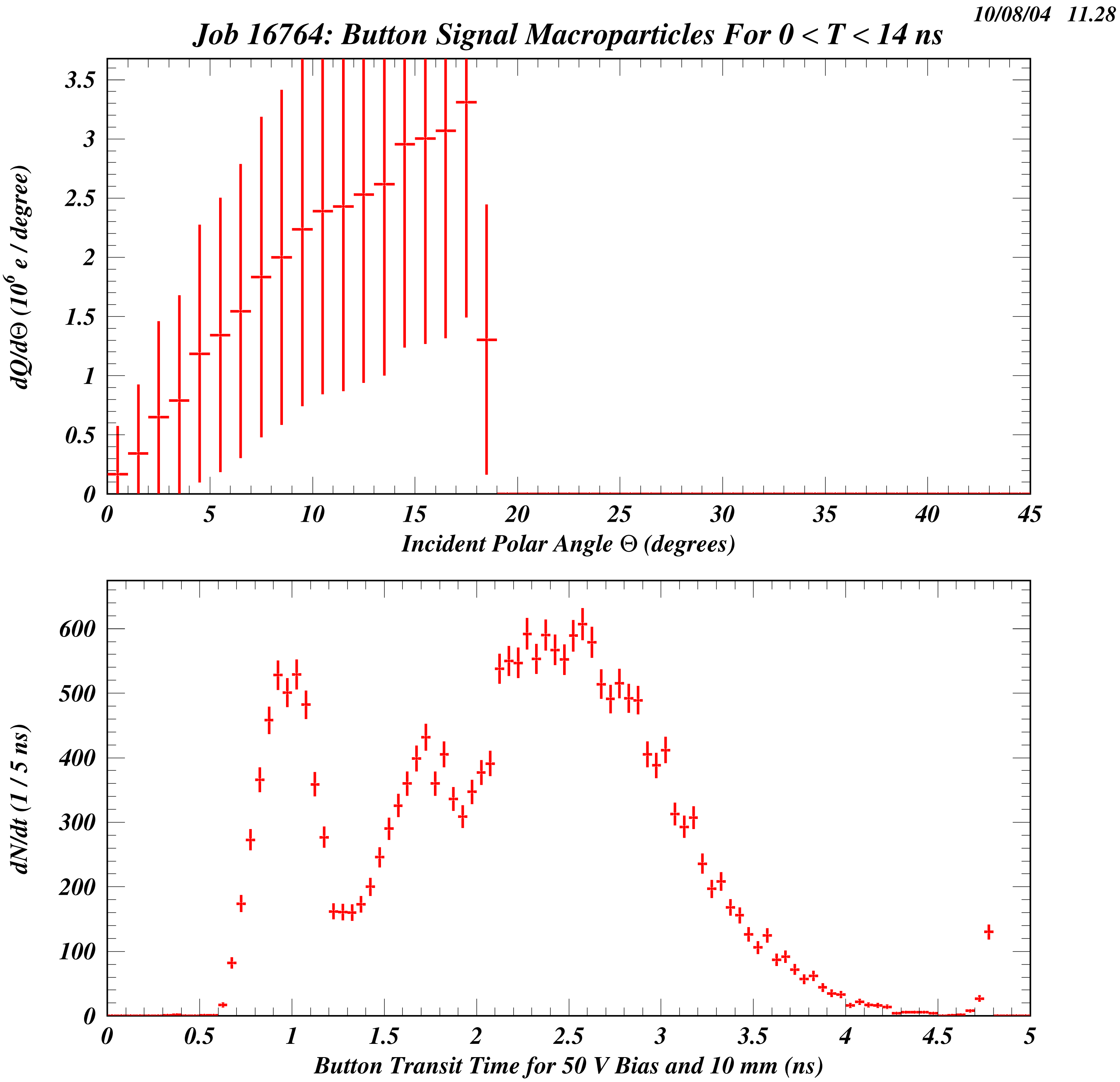


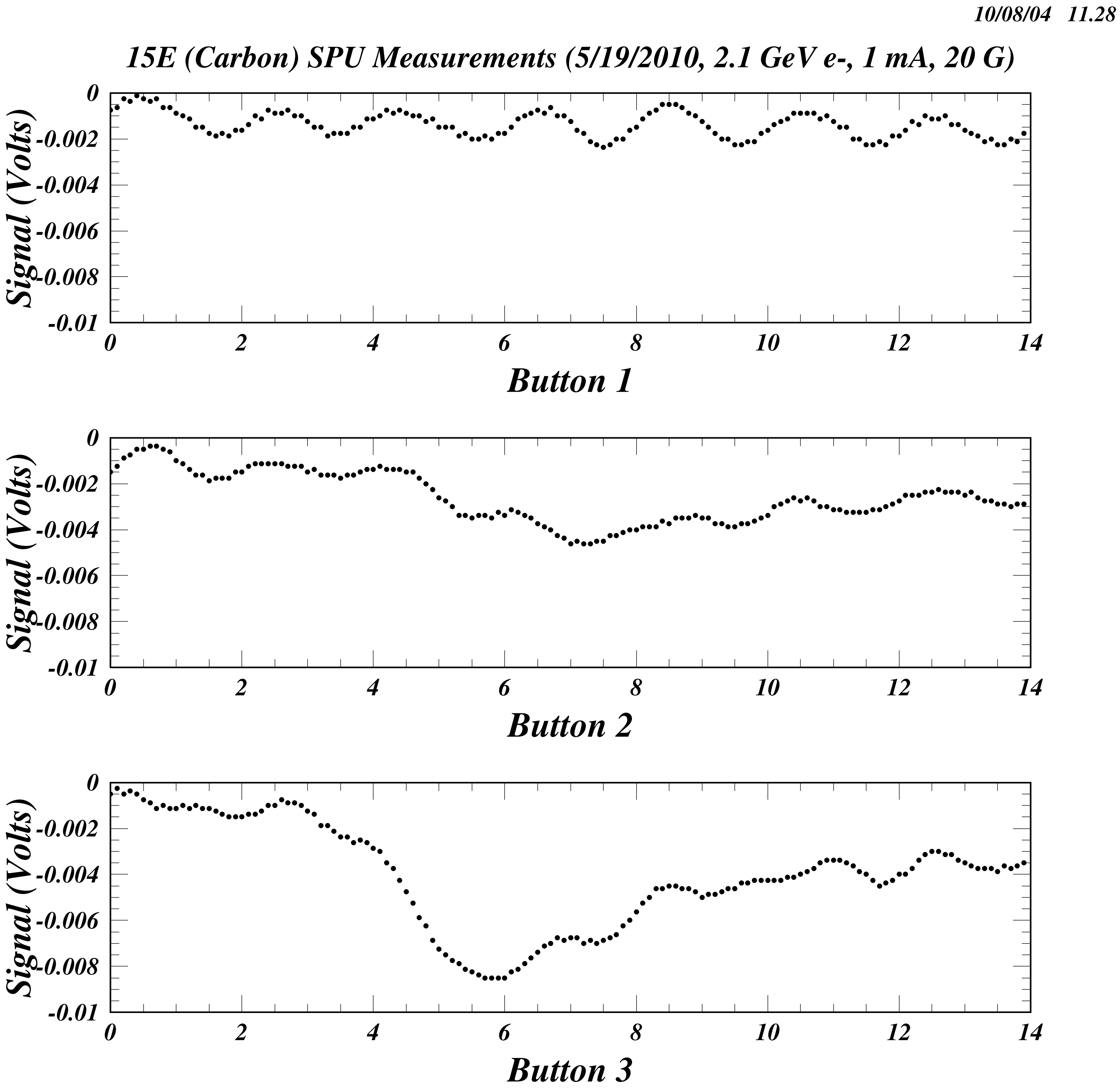
10/08/04 11.28
x 10 3
Job 16764: Button Signal Macroparticles For 0 < T < 14 ns
Signal (e)
0
-200
-400
-600
-800
-1000
-1200
-1400
x 10 3
0
2
4
6
8
10
12
14
Signal with E>50 eV (e)
Time (ns)

10/08/04 11.28

Job 16764: Button Signal Macroparticles For 0 < T < 14 ns




10/08/04 11.28
Job 16764: Button Signal Macroparticles For 0 < T < 14 ns
dQ/dΘ (10^6 e / degree)
0
0.5
1
1.5
2
2.5
3
3.5
0 5 10 15 20 25 30 35 40 45
Incident Polar Angle Θ (degrees)
dN/dt (1 / 5 ns)
0
100
200
300
400
500
600
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)


10/08/04 11.28
15E (Carbon) SPU Measurements (5/19/2010, 2.1 GeV e-, 1 mA, 20 G)
Signal (Volts)
0
-0.002
-0.004
-0.006
-0.008
-0.01
0
2
4
6
8
10
12
14
Button 1
Signal (Volts)
0
-0.002
-0.004
-0.006
-0.008
-0.01
0
2
4
6
8
10
12
14
Button 2
Signal (Volts)
0
-0.002
-0.004
-0.006
-0.008
-0.01
0
2
4
6
8
10
12
14
Button 3

10/08/04 11.28

15E (Carbon) SPU Measurements (5/19/2010, 2.1 GeV e-, 1 mA, 25 G)