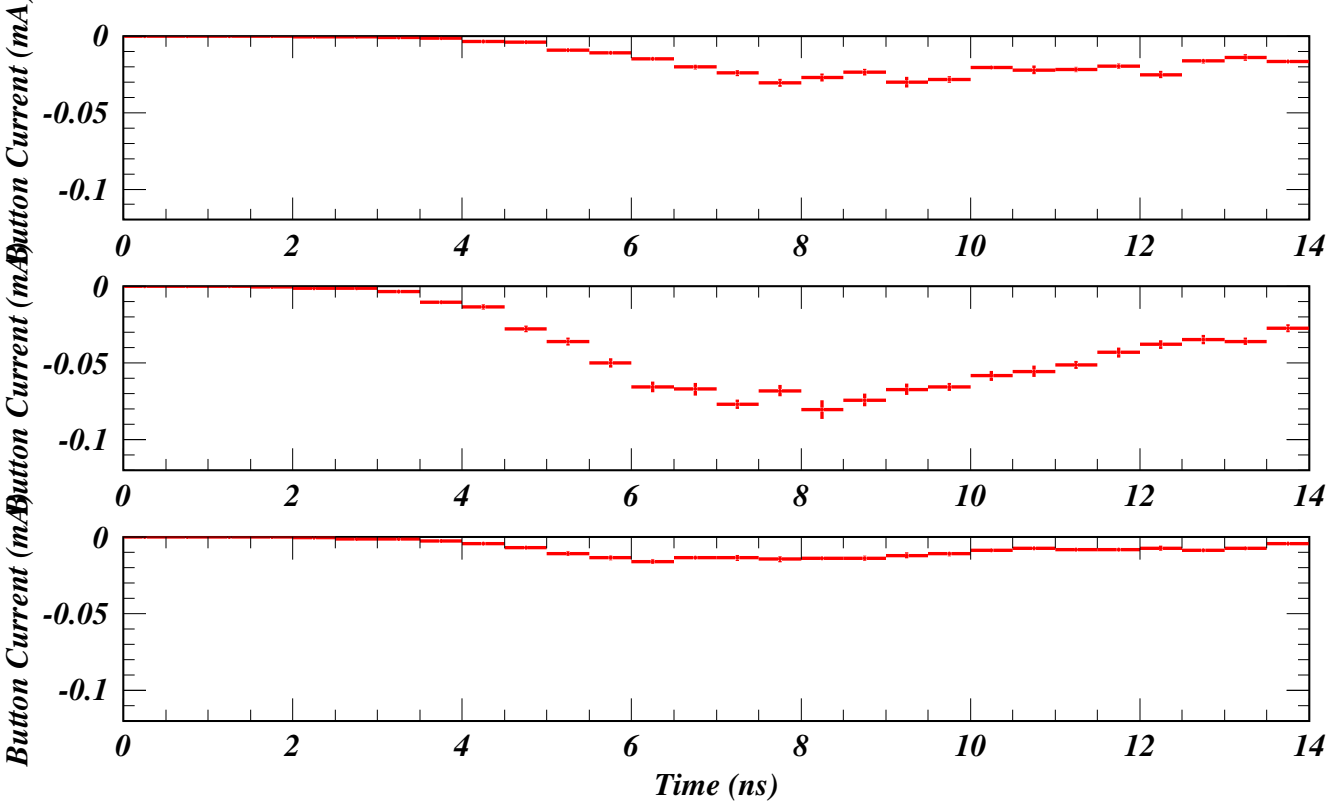
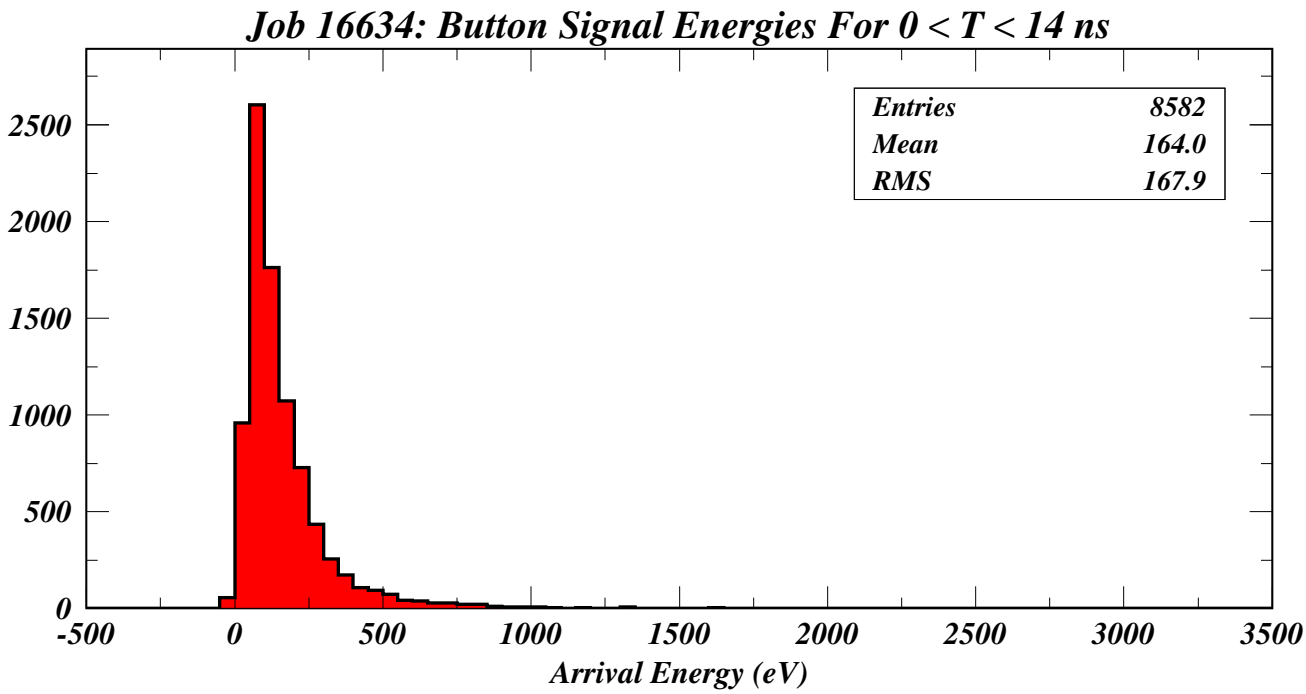
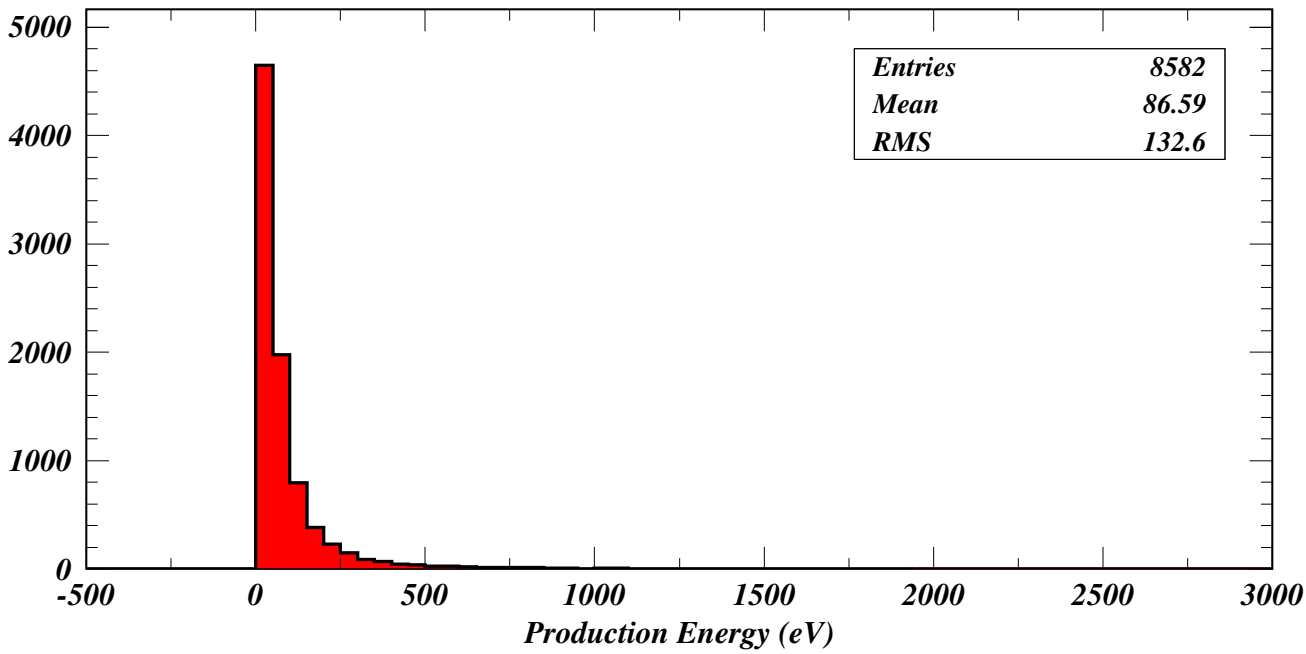
10/08/03 12.05

Job 16634: Shielded Button Simulation



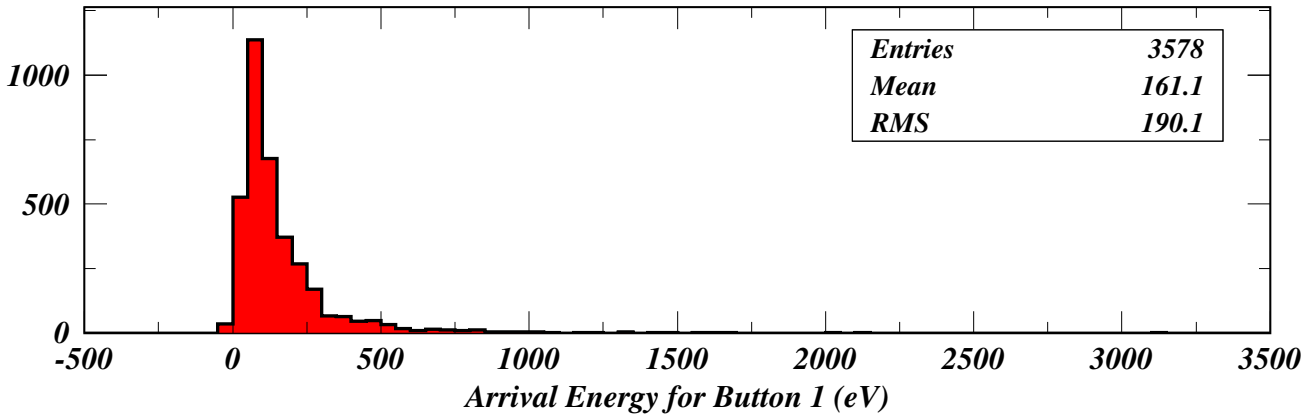
10/08/03 12.05

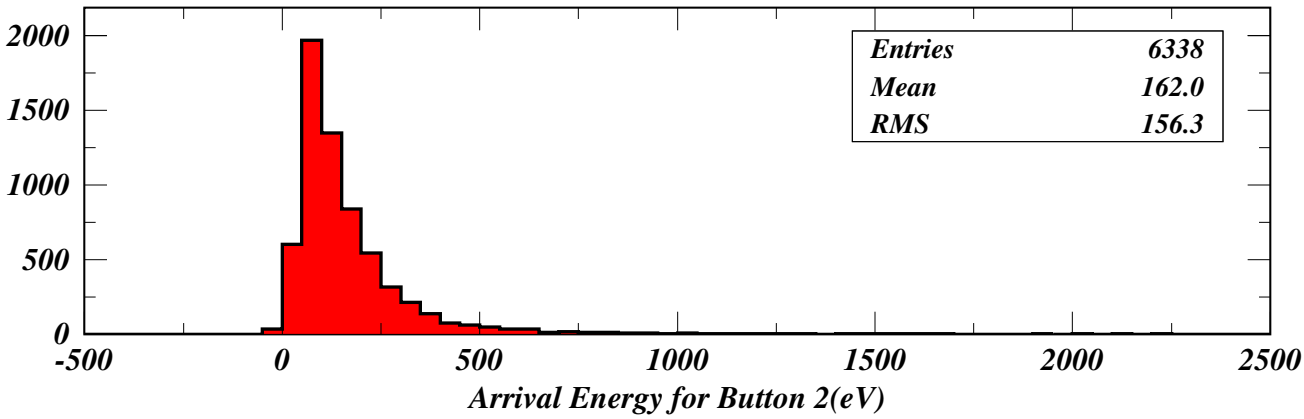

Job 16634: Button Signal Energies For 0 < T < 14 ns
Entries 8582
Mean 164.0
RMS 167.9
2500
2000
1500
1000
500
0
-500
0
500
1000
1500
2000
2500
3000
3500
Arrival Energy (eV)

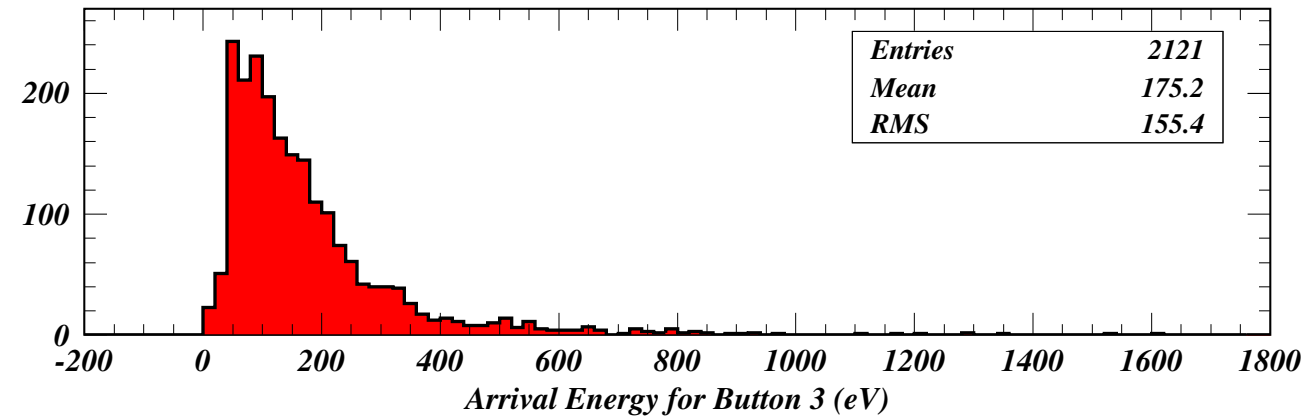

Entries 8582
Mean 86.59
RMS 132.6
5000
4000
3000
2000
1000
0
-500
0
500
1000
1500
2000
2500
3000
Production Energy (eV)

10/08/03 12.05

Job 16634: Button Signal Energies For 0 < T < 14 ns

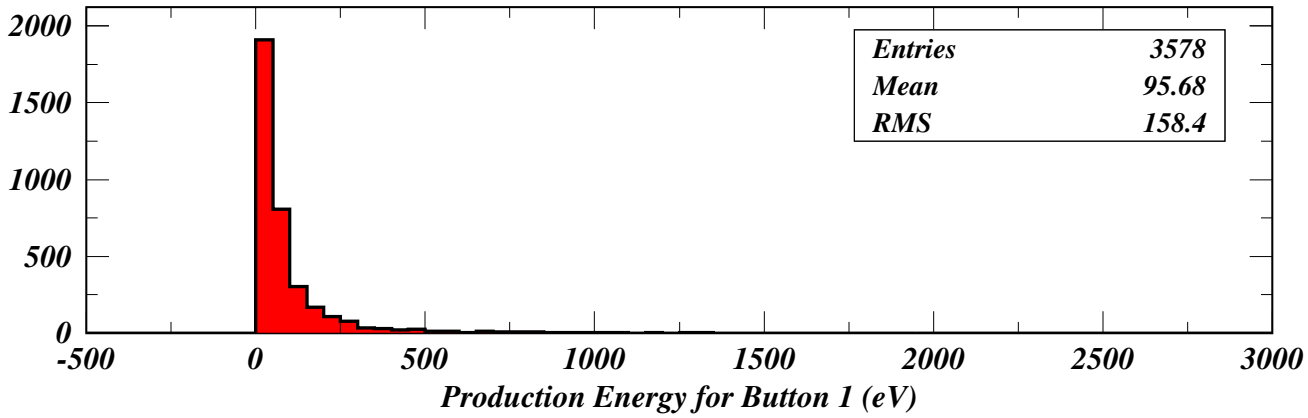


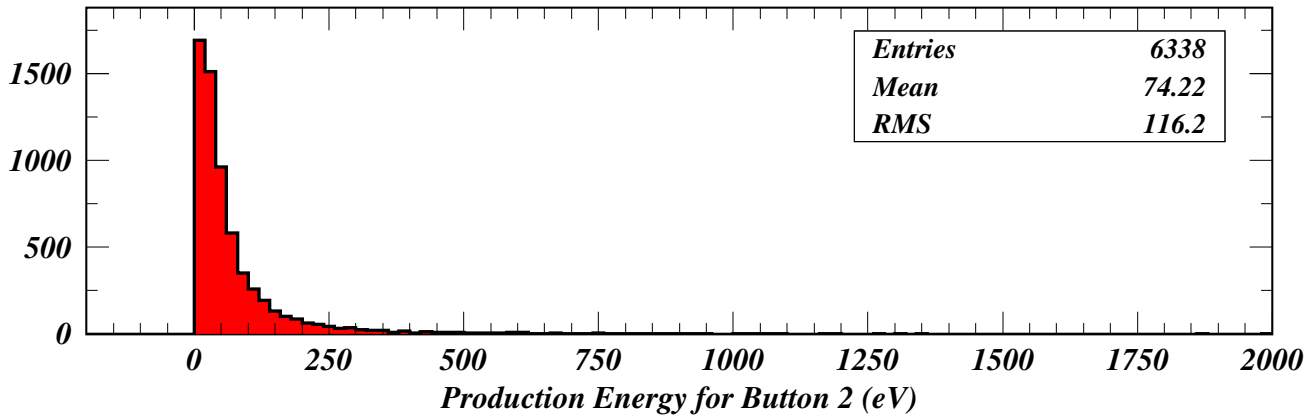


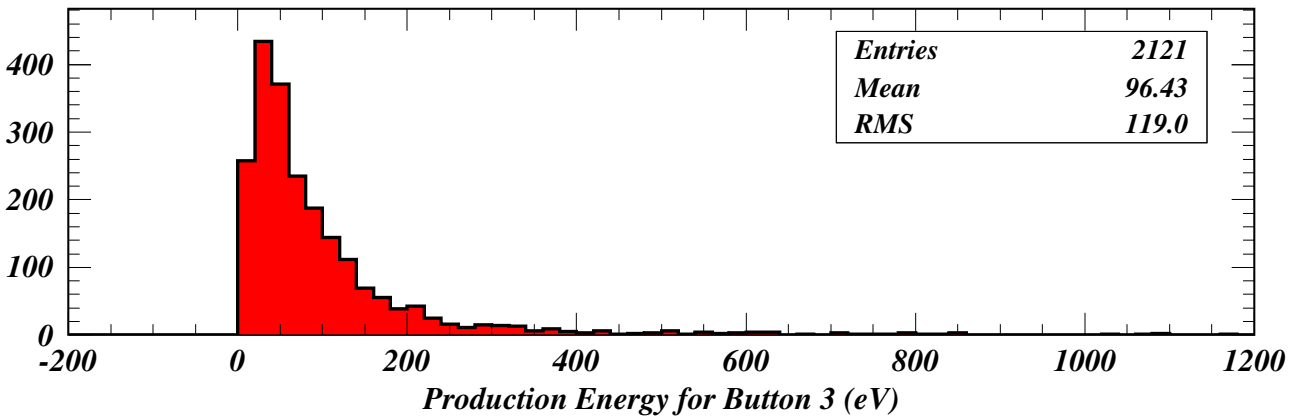


10/08/03 12.05

Job 16634: Button Signal Energies For 0 < T < 14 ns

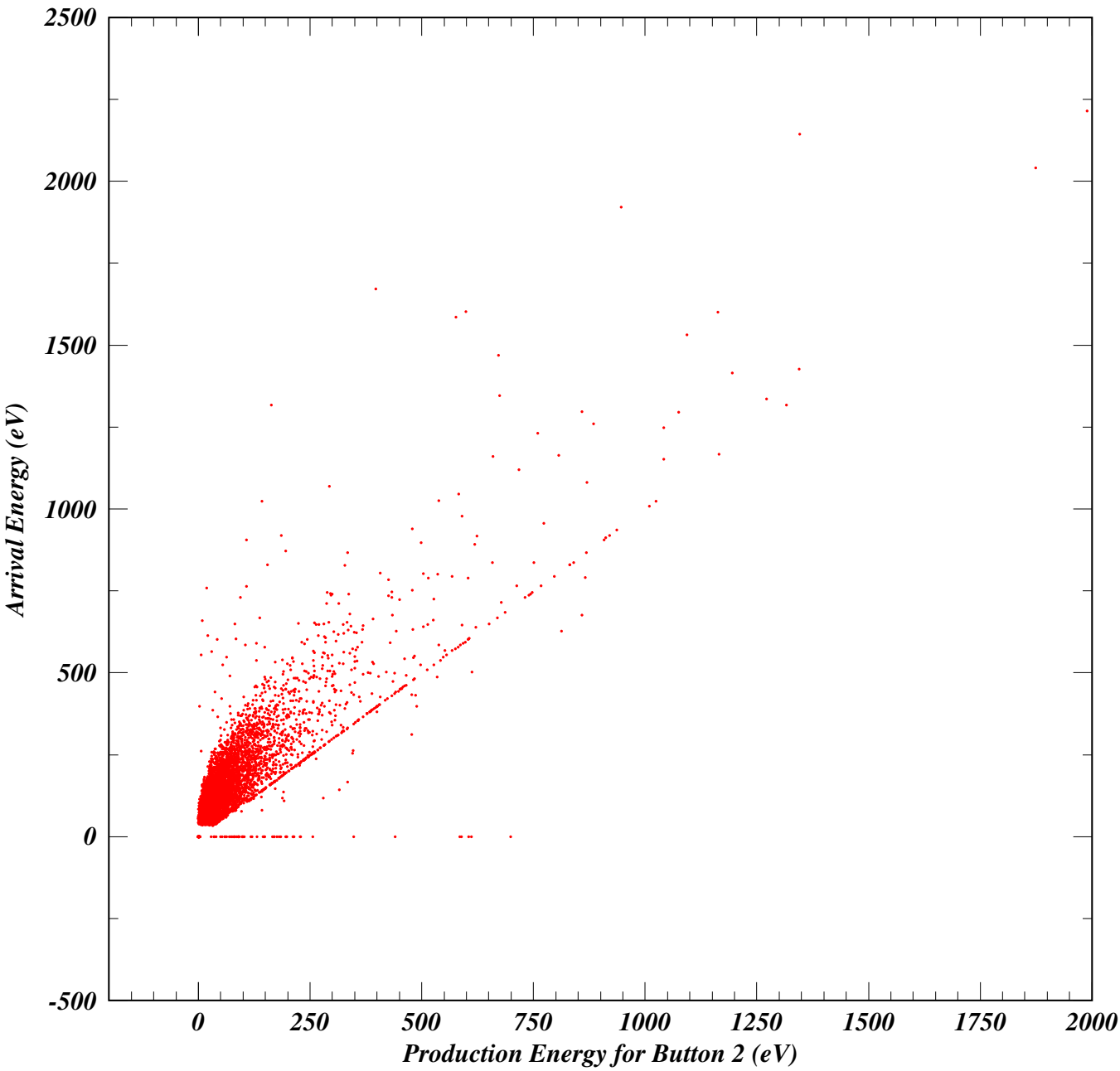






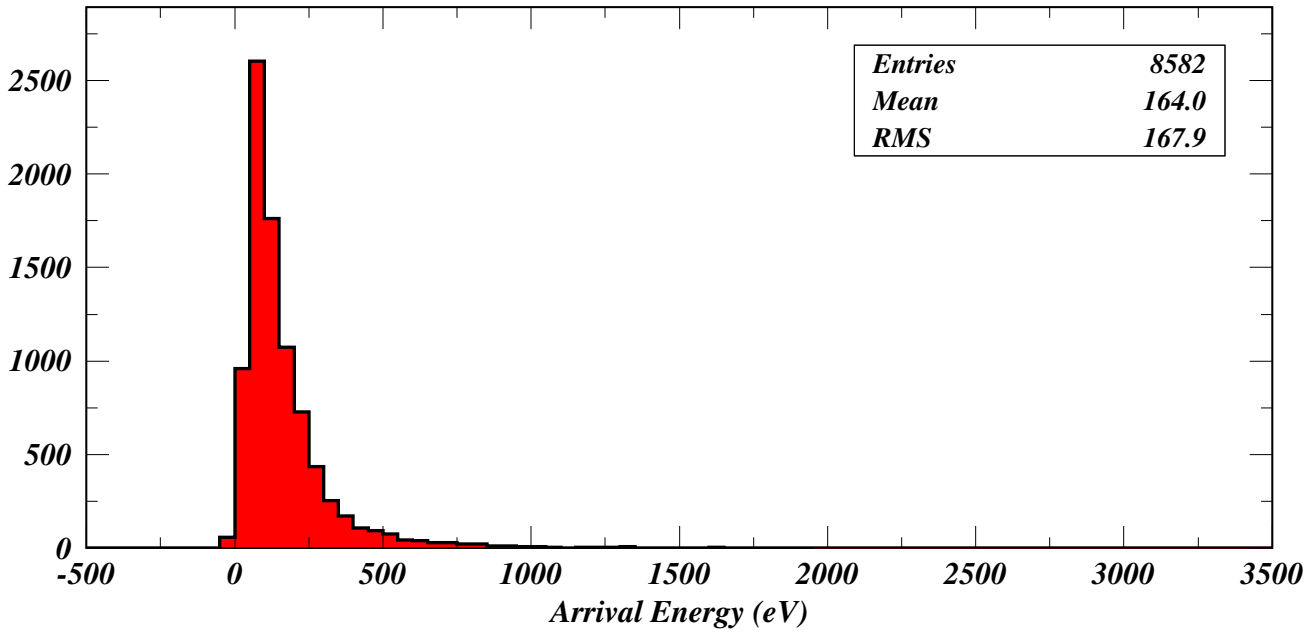
10/08/03 12.05

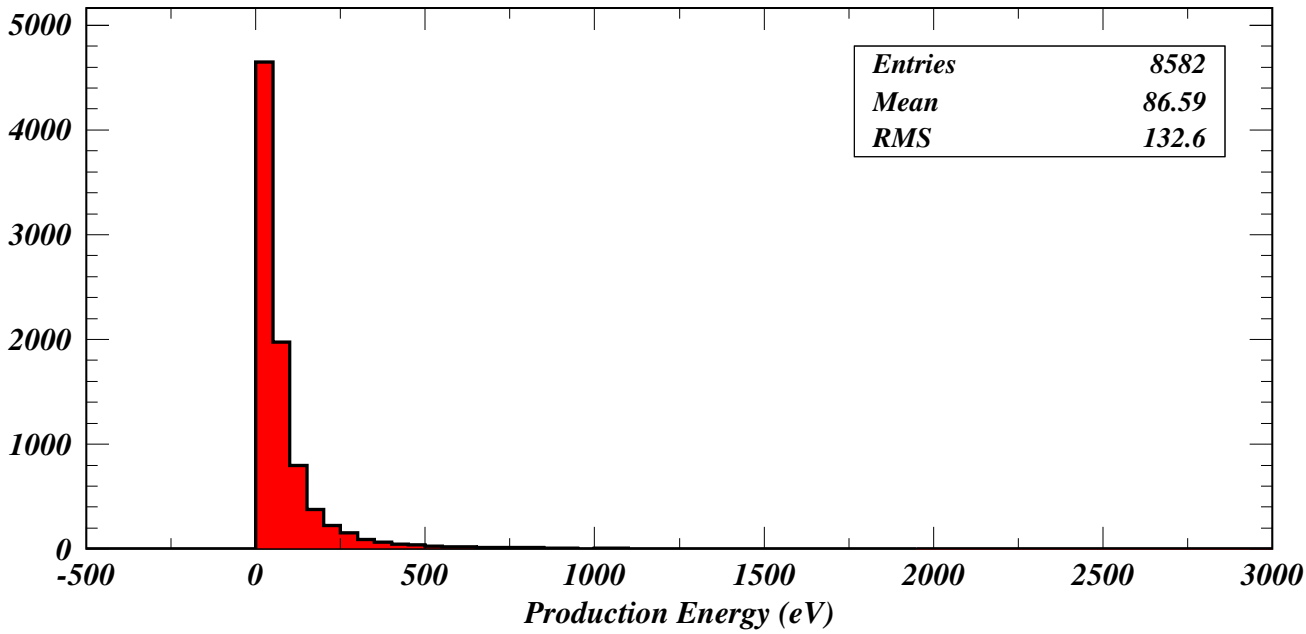
Job 16634: Button Signal Energies For 0 < T < 14 ns



10/08/03 12.05

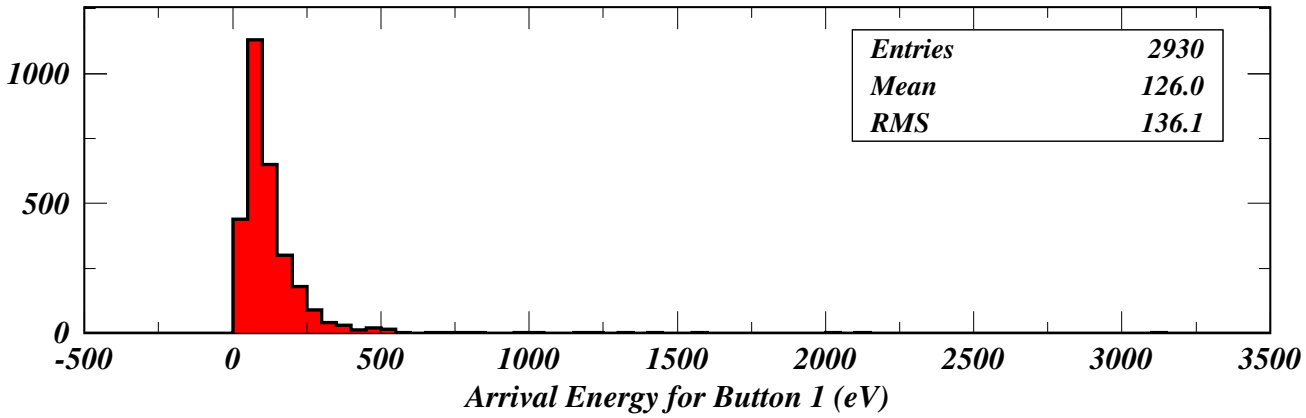
Job 16634: Button Signal Energies For 0 < T < 14 ns: Primaries Only

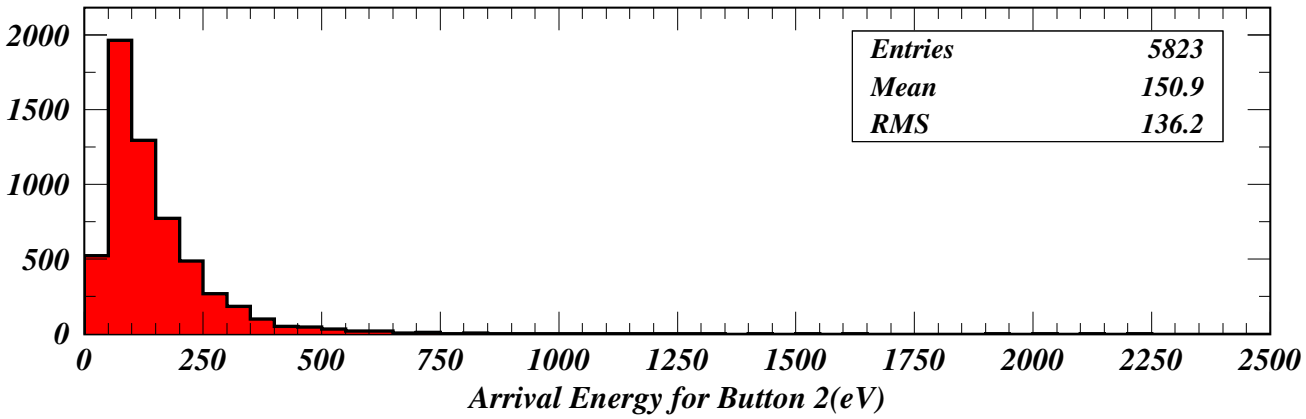


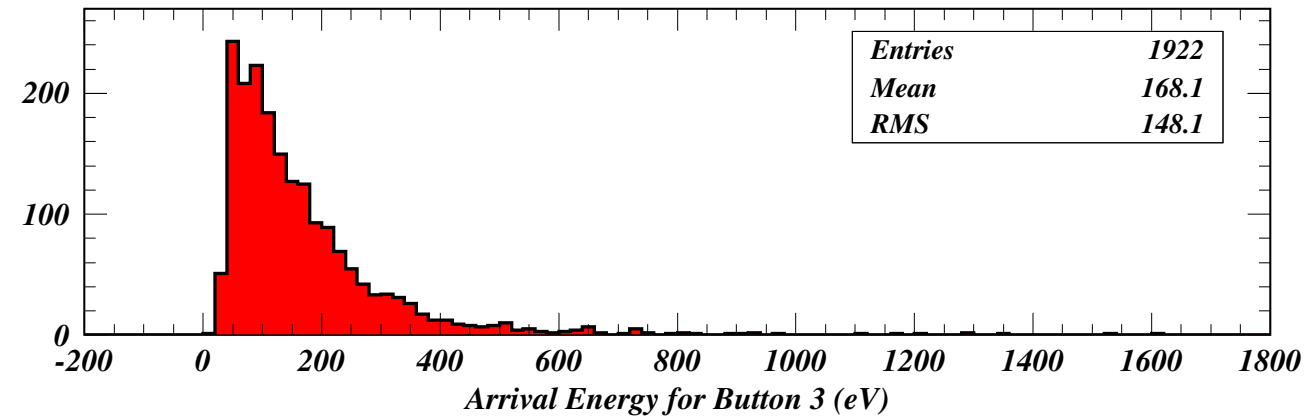


10/08/03 12.05

Job 16634: Button Signal Energies For 0 < T < 14 ns: Primaries Only

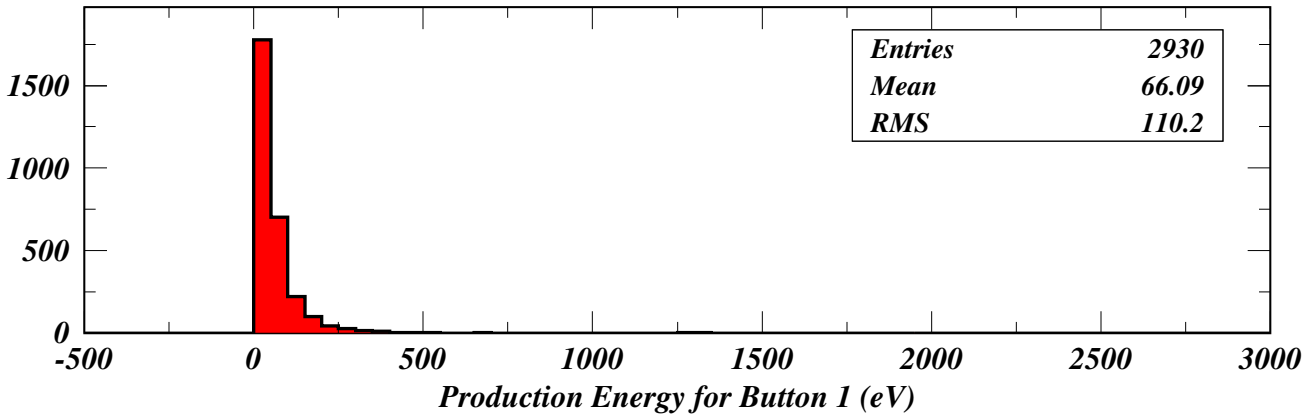


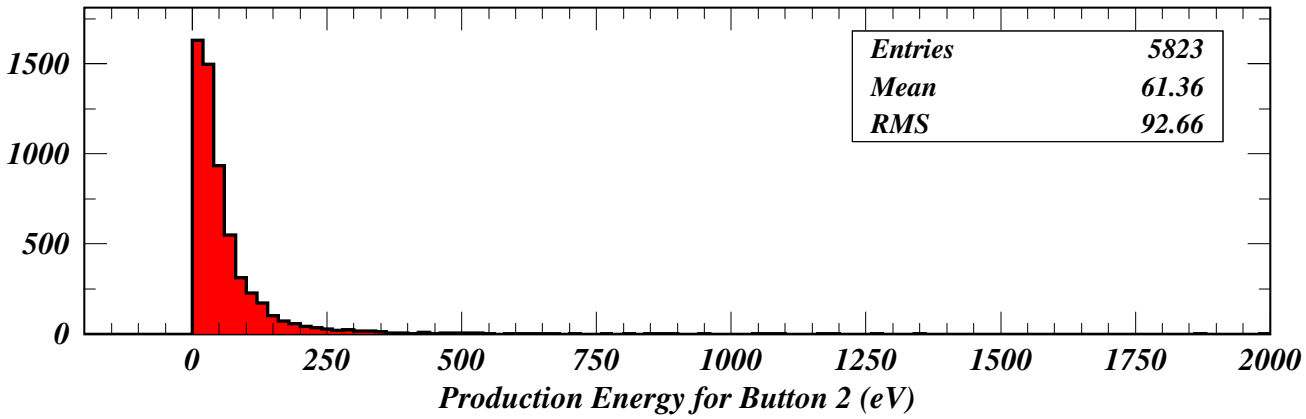


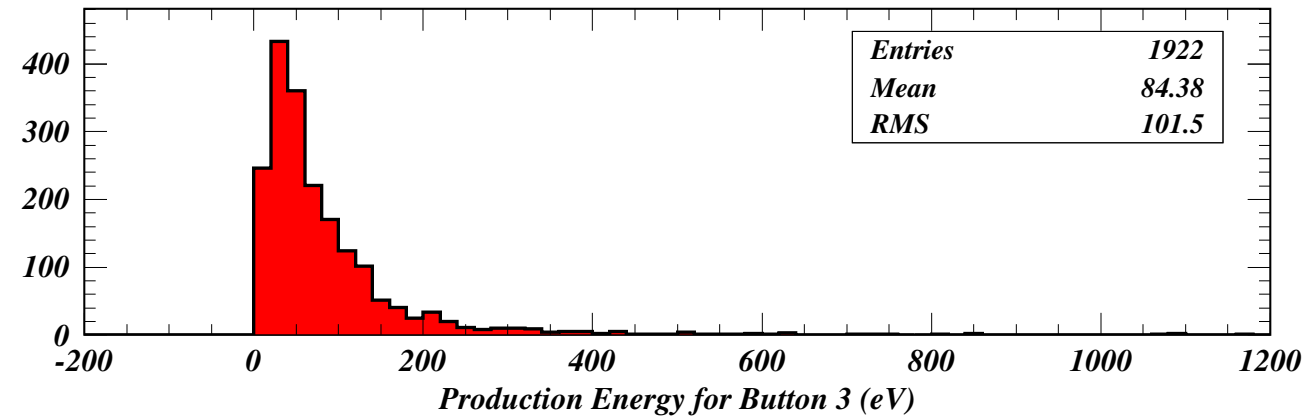


10/08/03 12.05

Job 16634: Button Signal Energies For 0 < T < 14 ns: Primaries Only

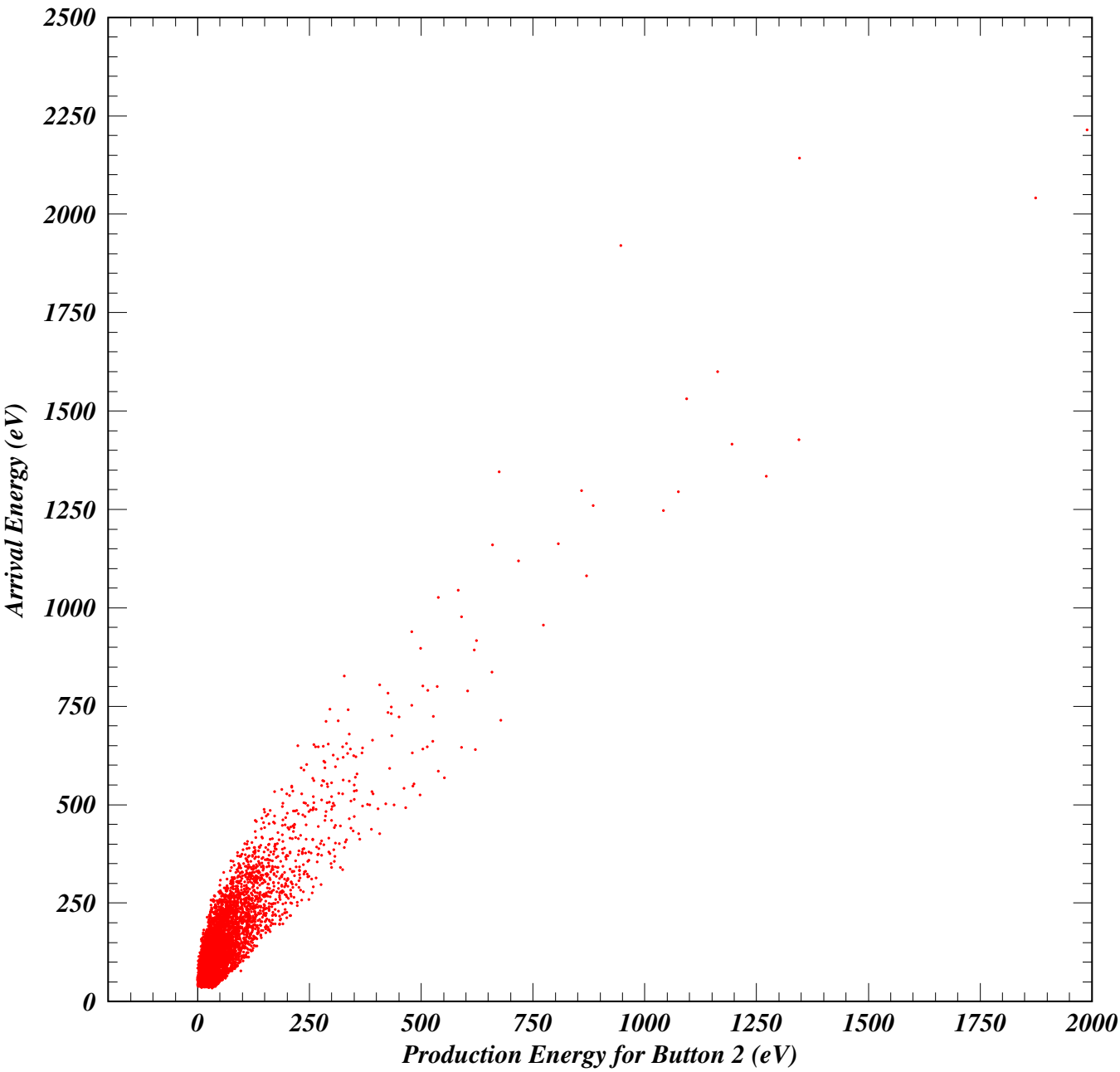






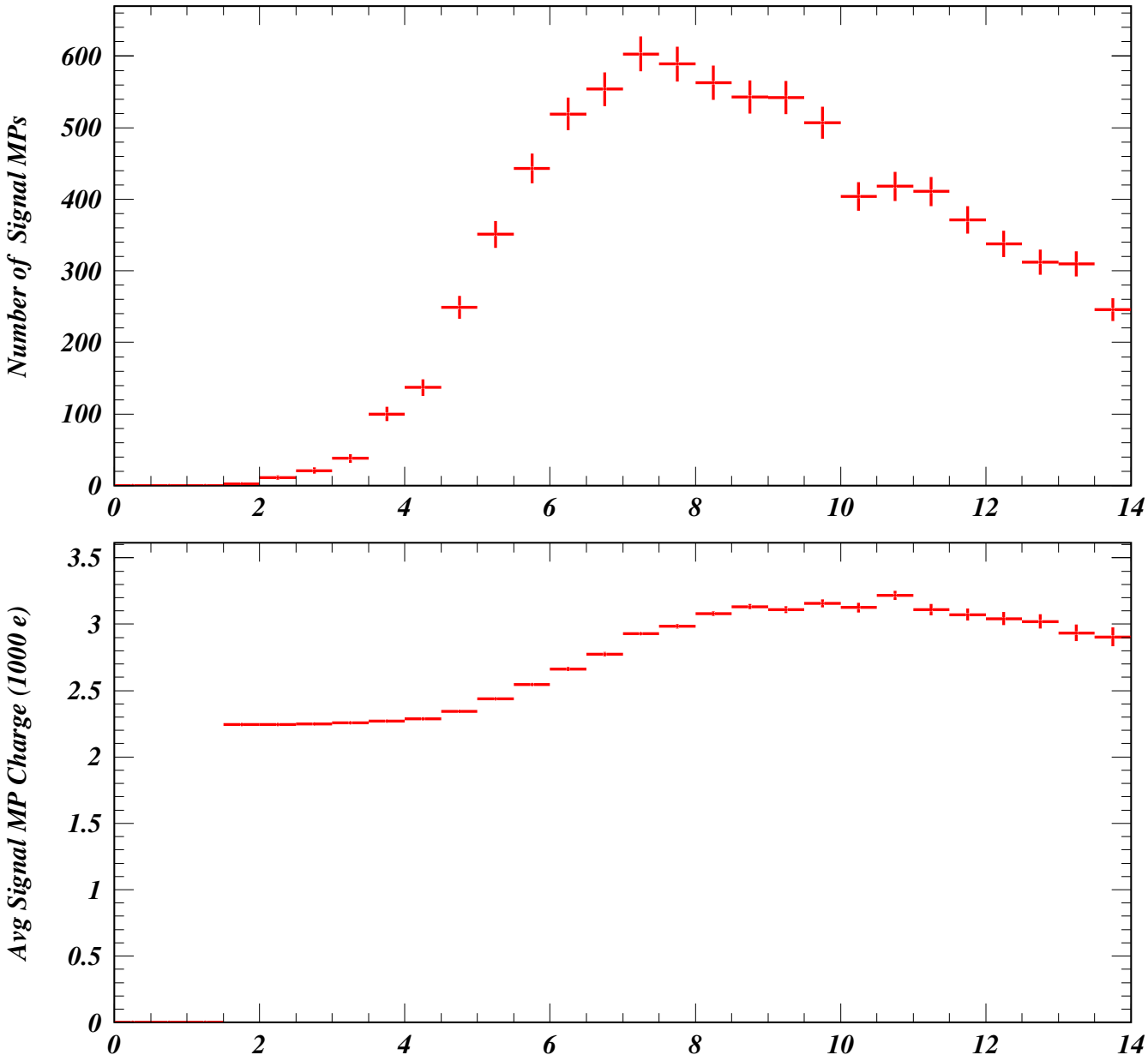
10/08/03 12.05

Job 16634: Button Signal Energies For 0 < T < 14 ns: Primaries Only



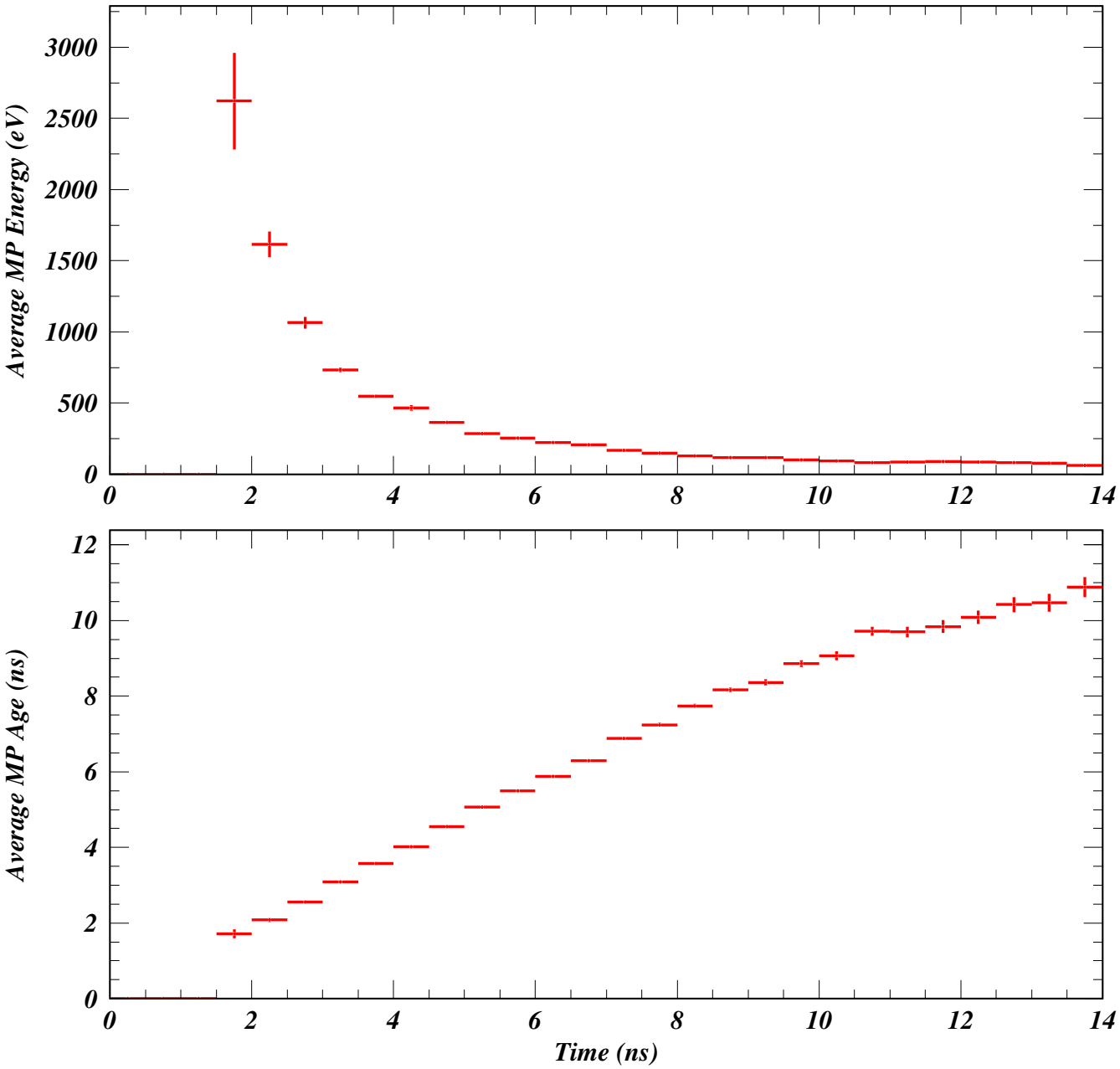
10/08/03 12.05

Job 16634: Button Signal Macroparticles For 0 < T < 14 ns

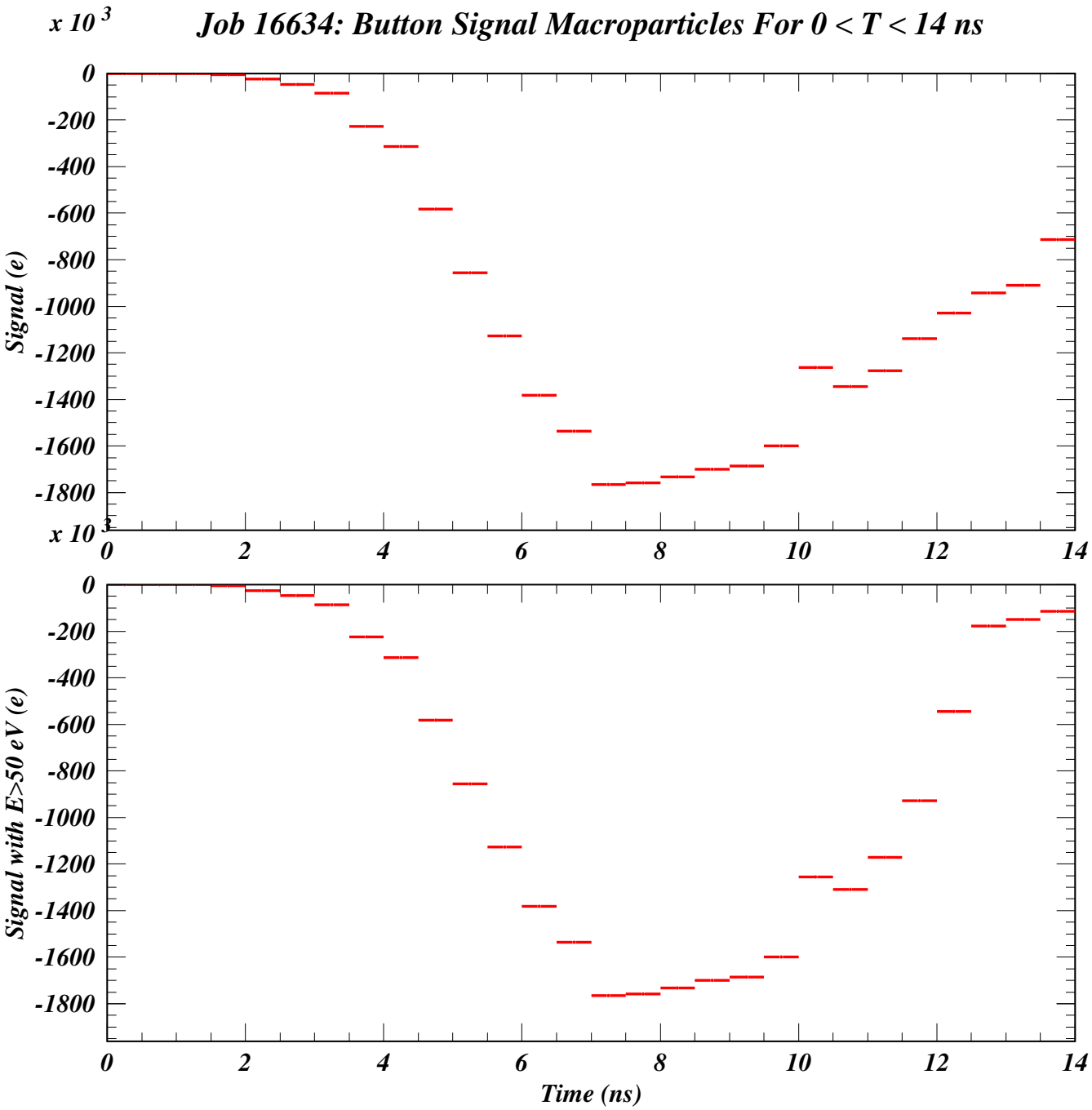


10/08/03 12.05

Job 16634: Button Signal Macroparticles For 0 < T < 14 ns

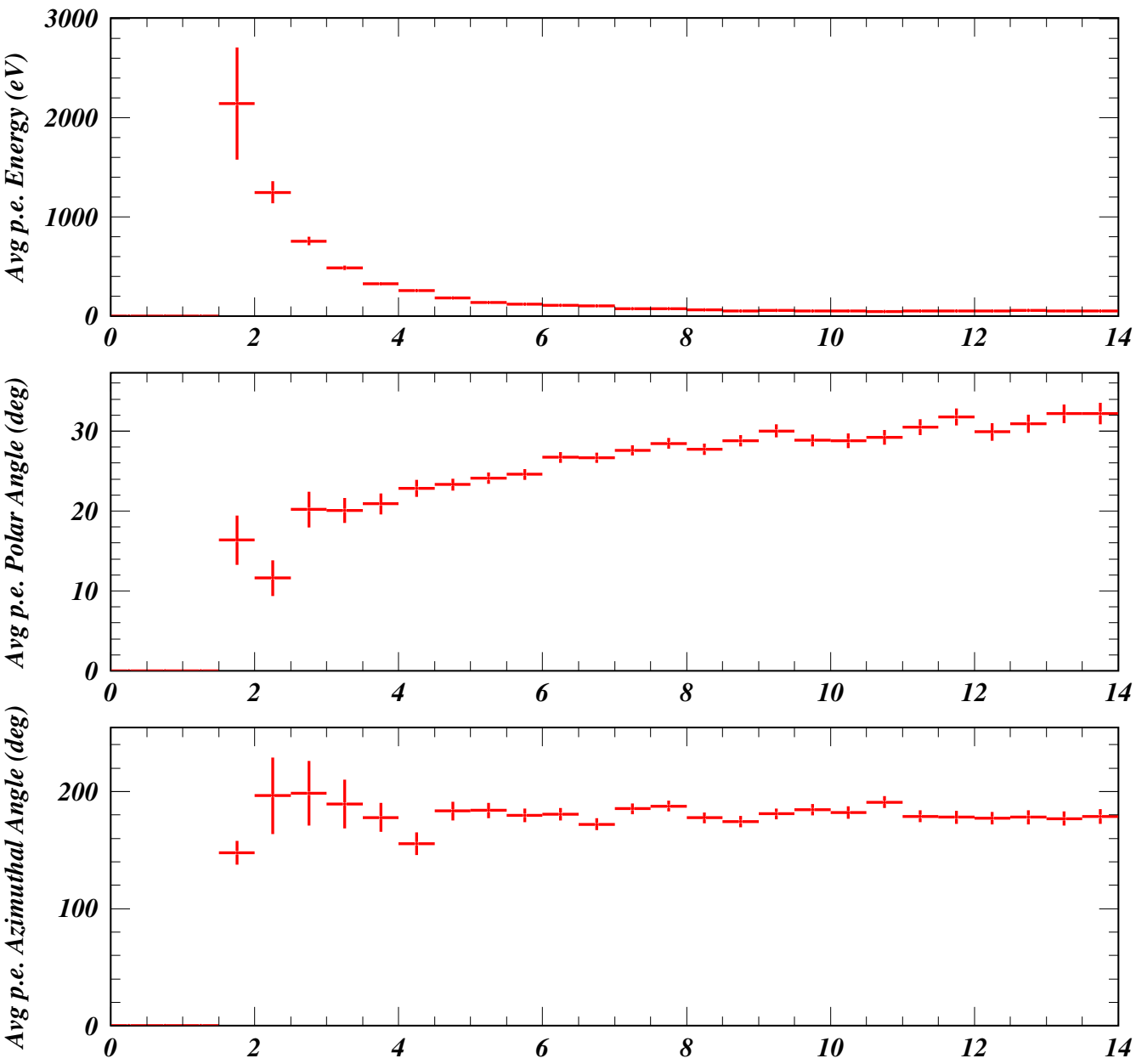


10/08/03 12.05

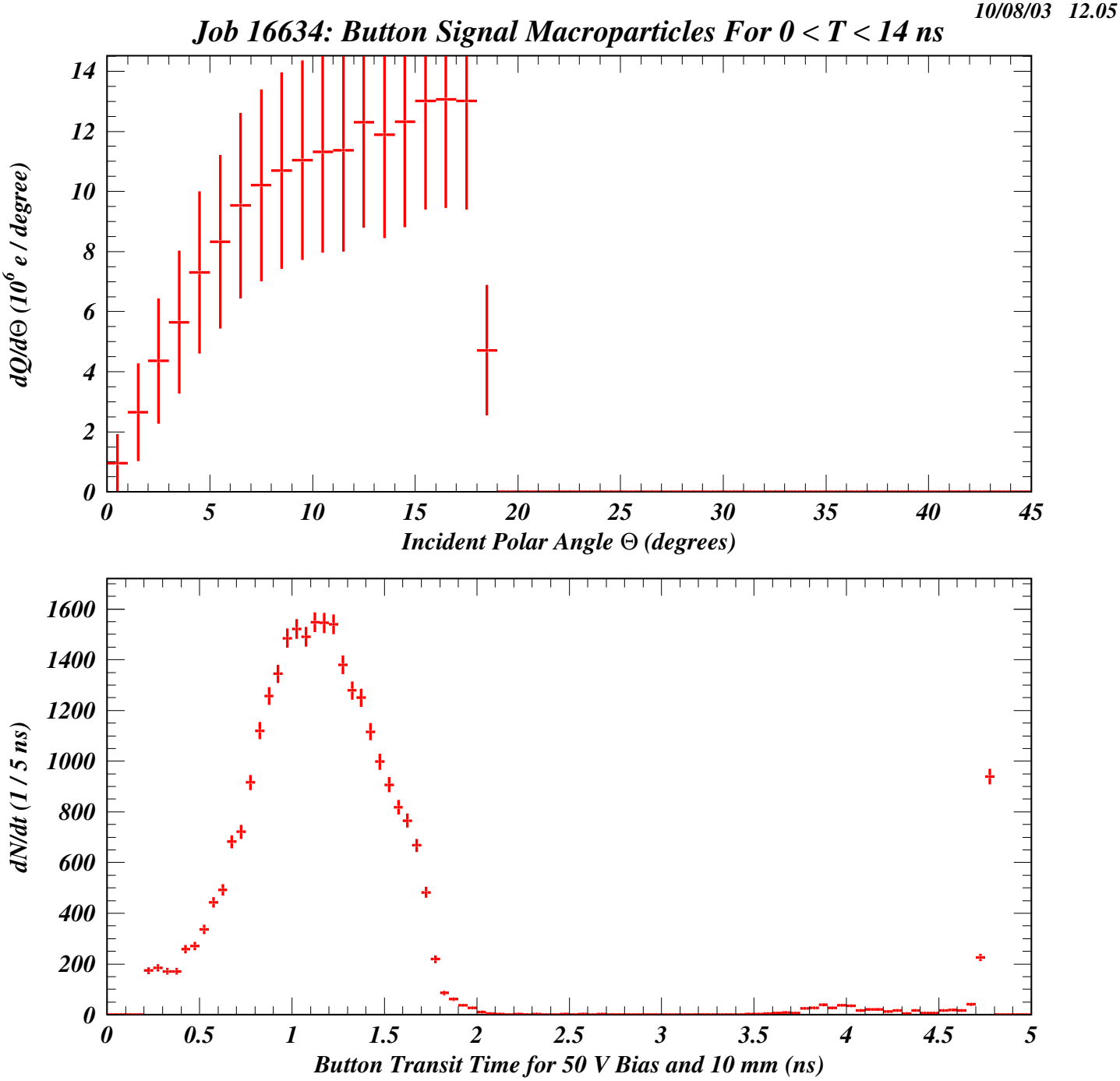

x 10 3
Job 16634: Button Signal Macroparticles For 0 < T < 14 ns
Signal (e)
0
-200
-400
-600
-800
-1000
-1200
-1400
-1600
-1800
x 10 3
0
2
4
6
8
10
12
14
Signal with E>50 eV (e)
Time (ns)

10/08/03 12.05

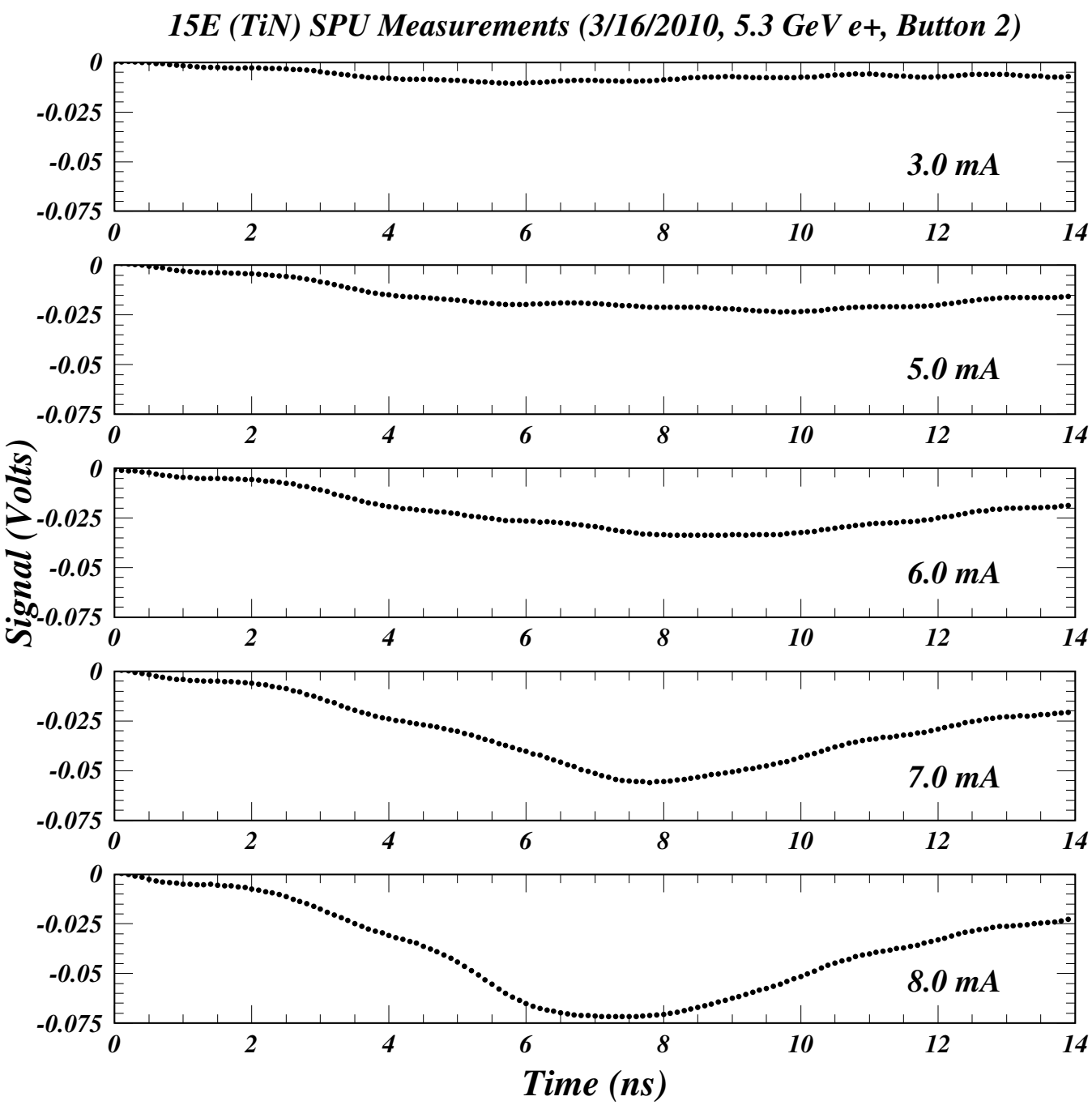
Job 16634: Button Signal Macroparticles For 0 < T < 14 ns



10/08/03 12.05


Job 16634: Button Signal Macroparticles For 0 < T < 14 ns
dQ/dΘ (10^6 e / degree)
Incident Polar Angle Θ (degrees)
dN/dt (1 / 5 ns)
Button Transit Time for 50 V Bias and 10 mm (ns)

10/08/03 12.05


15E (TiN) SPU Measurements (3/16/2010, 5.3 GeV e+, Button 2)
Signal (Volts)
3.0 mA
5.0 mA
6.0 mA
7.0 mA
8.0 mA
0
-0.025
-0.05
-0.075
0
2
4
6
8
10
12
14
Time (ns)