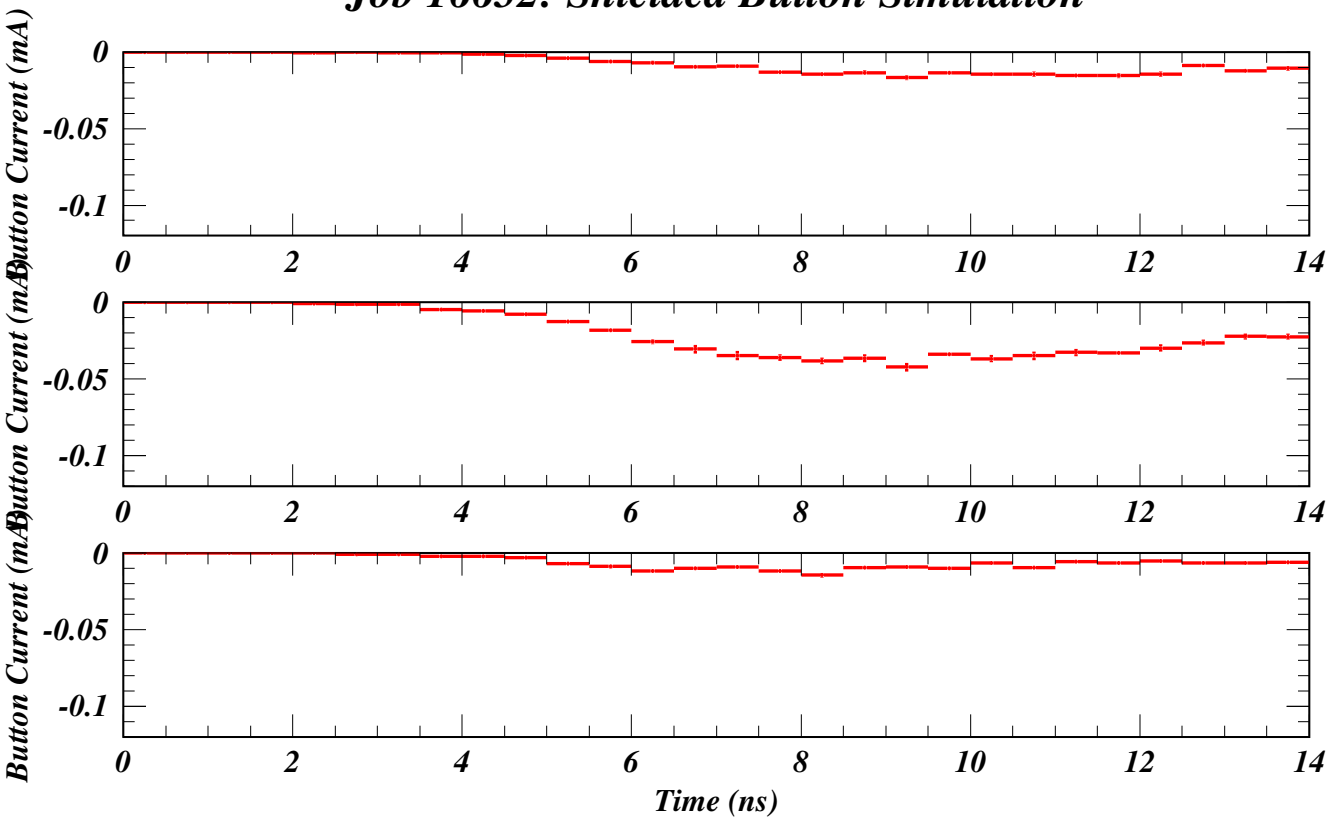
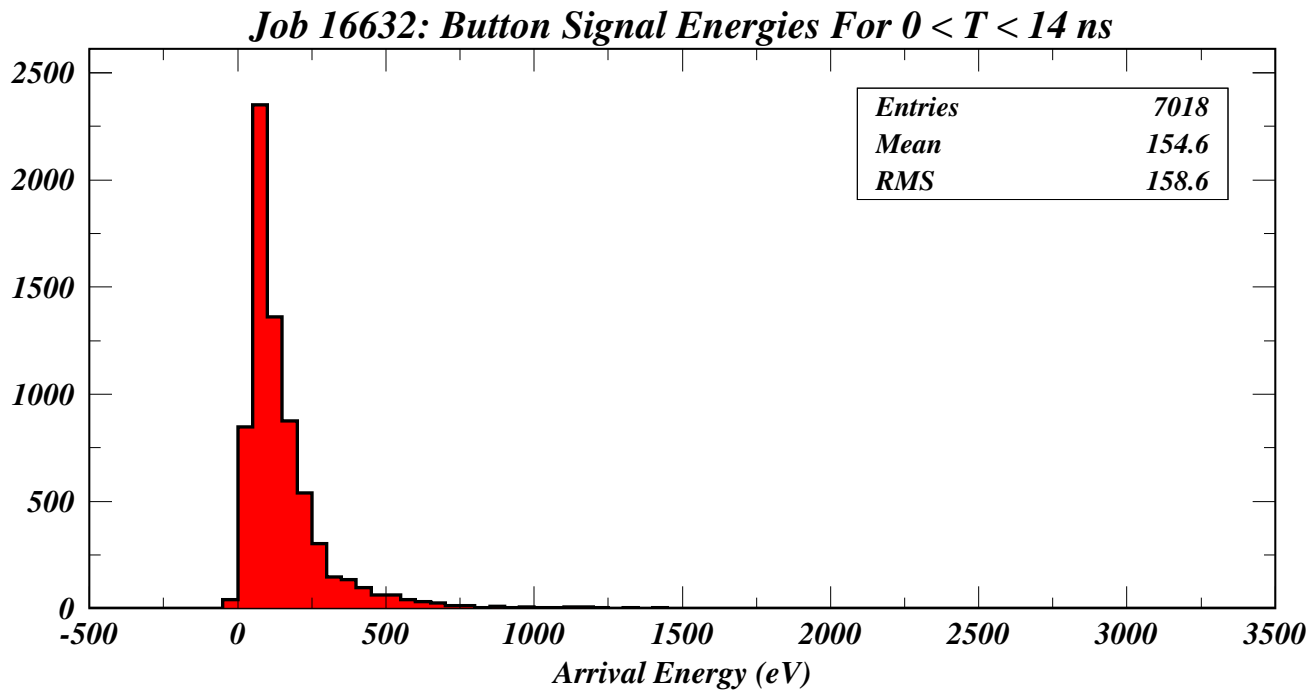
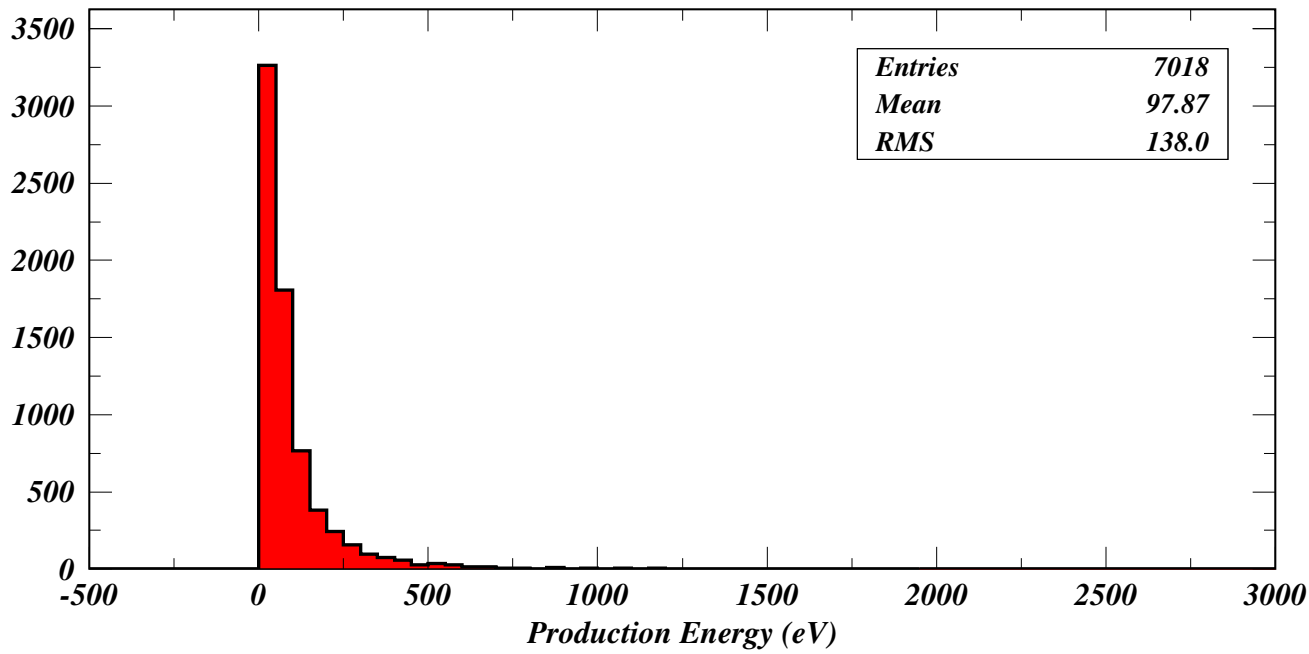
10/08/03 12.05

Job 16632: Shielded Button Simulation



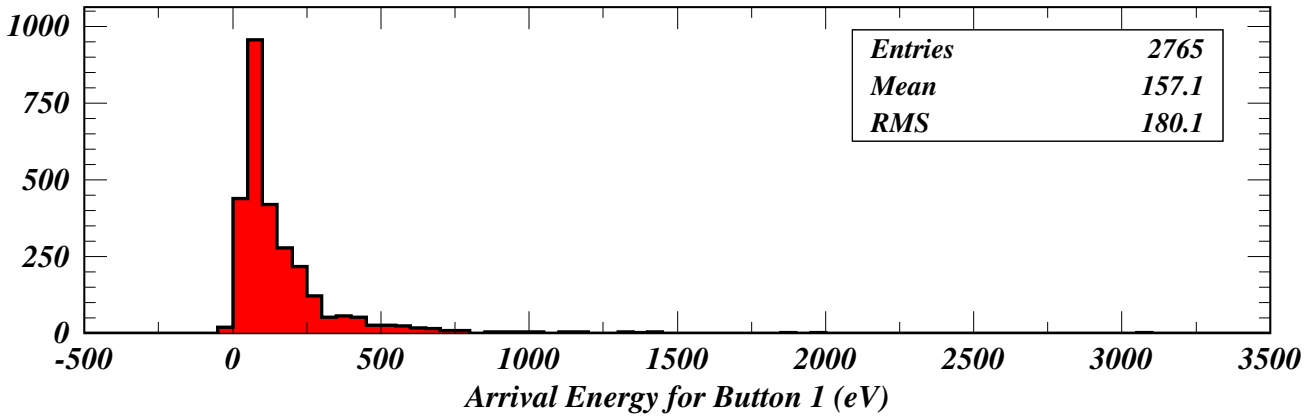
10/08/03 12.05

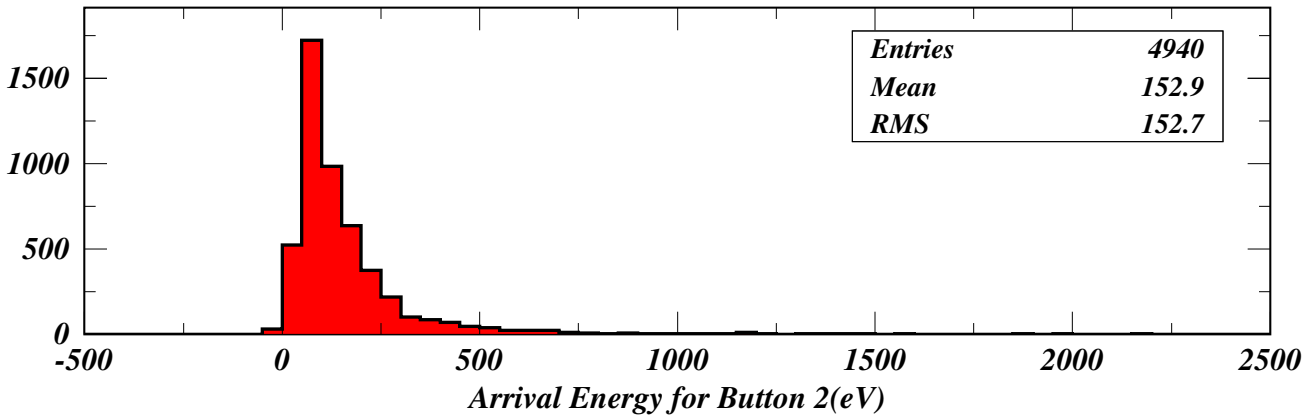

Job 16632: Button Signal Energies For 0 < T < 14 ns
Entries 7018
Mean 154.6
RMS 158.6
2500
2000
1500
1000
500
0
-500
0
500
1000
1500
2000
2500
3000
3500
Arrival Energy (eV)

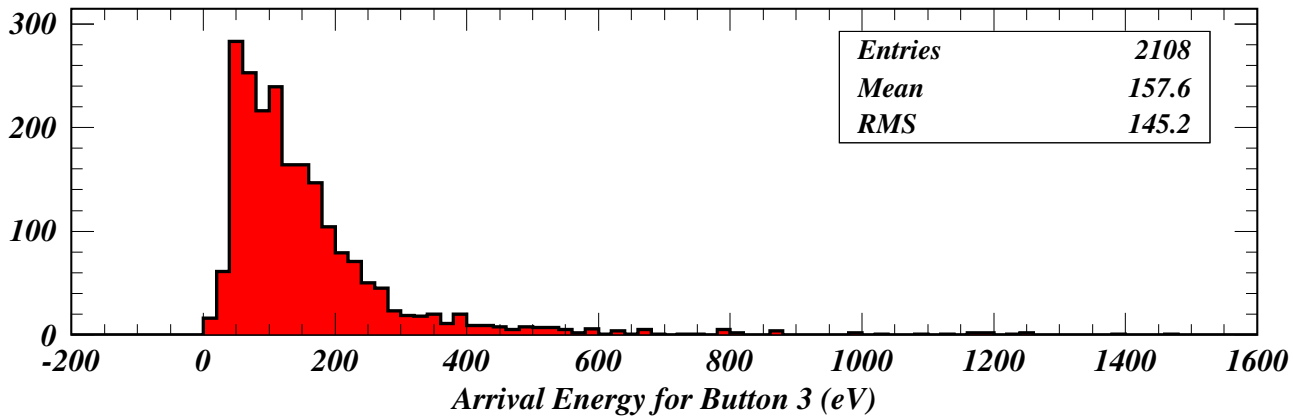

Entries 7018
Mean 97.87
RMS 138.0
3500
3000
2500
2000
1500
1000
500
0
-500
0
500
1000
1500
2000
2500
3000
Production Energy (eV)

10/08/03 12.05

Job 16632: Button Signal Energies For 0 < T < 14 ns

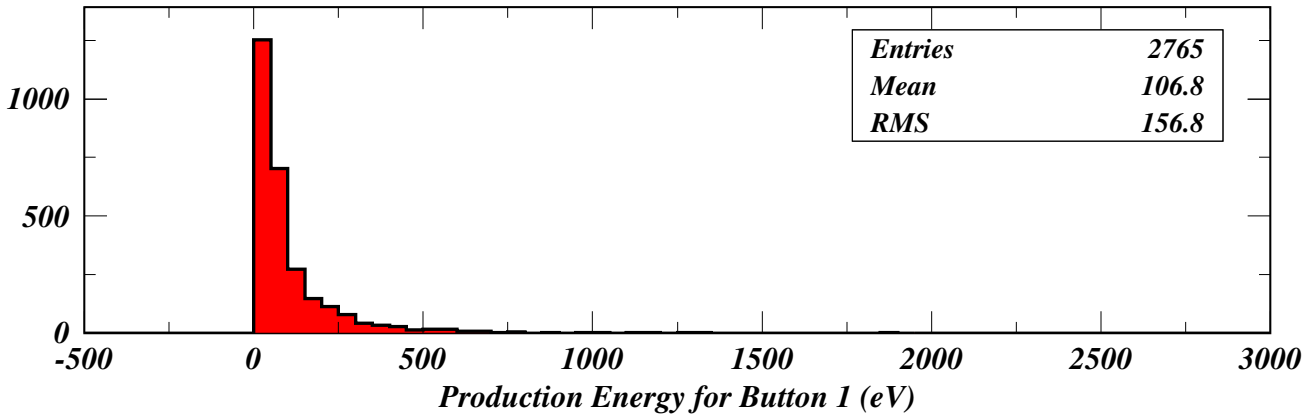


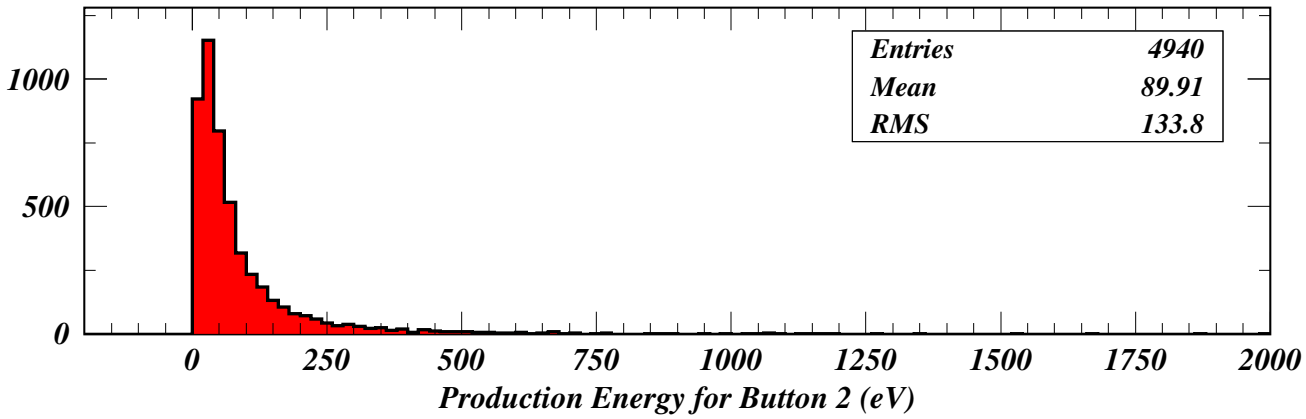


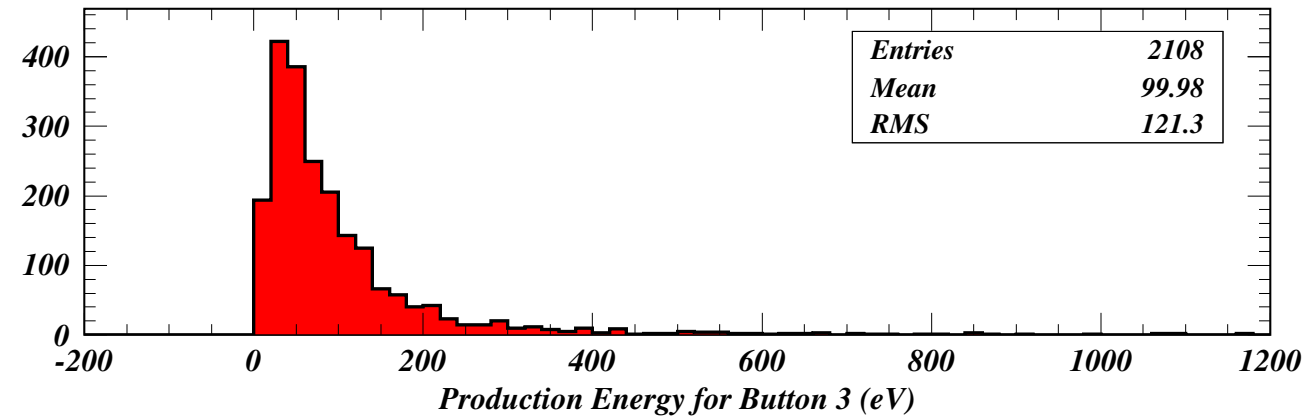


10/08/03 12.05

Job 16632: Button Signal Energies For 0 < T < 14 ns

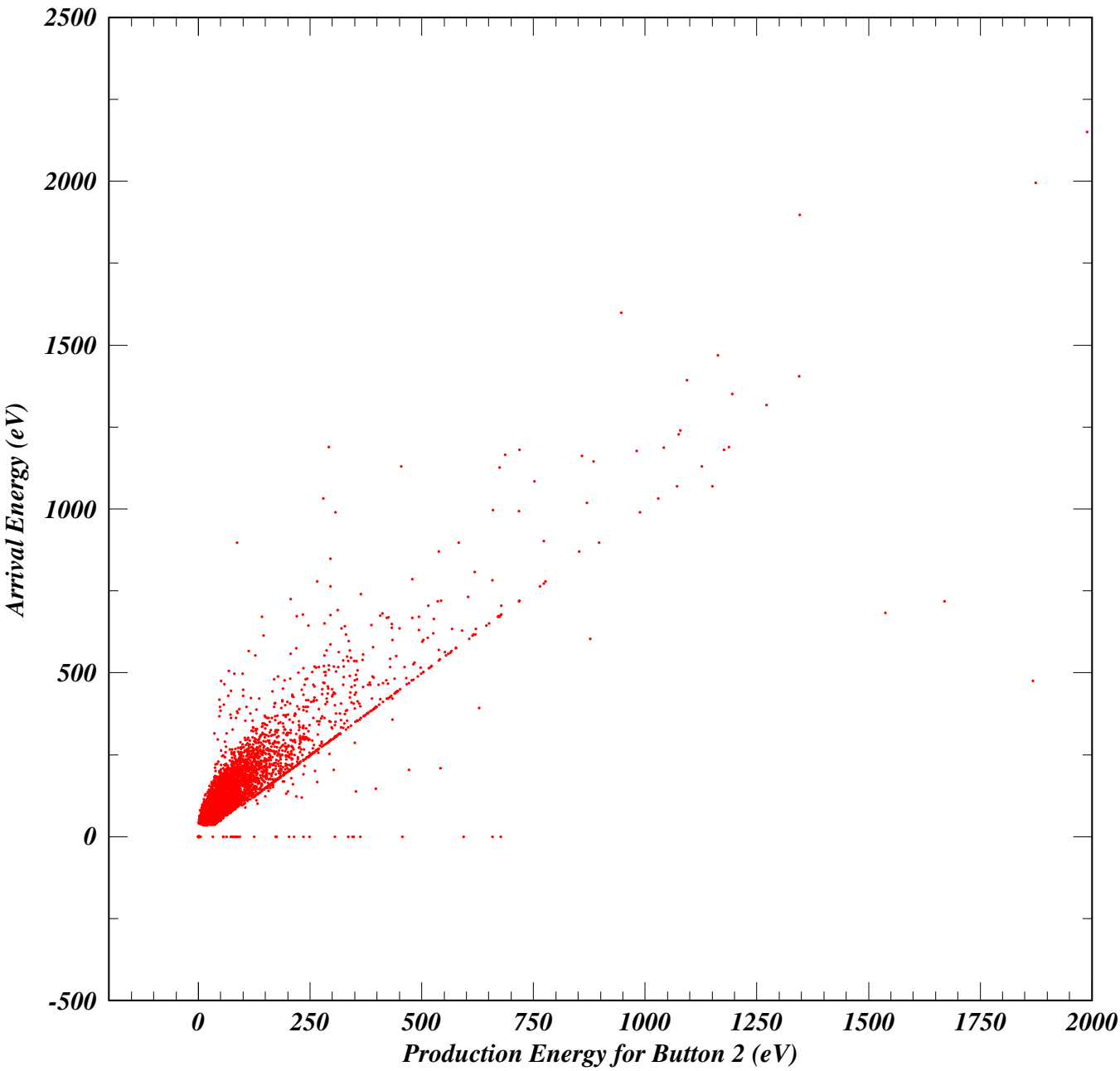






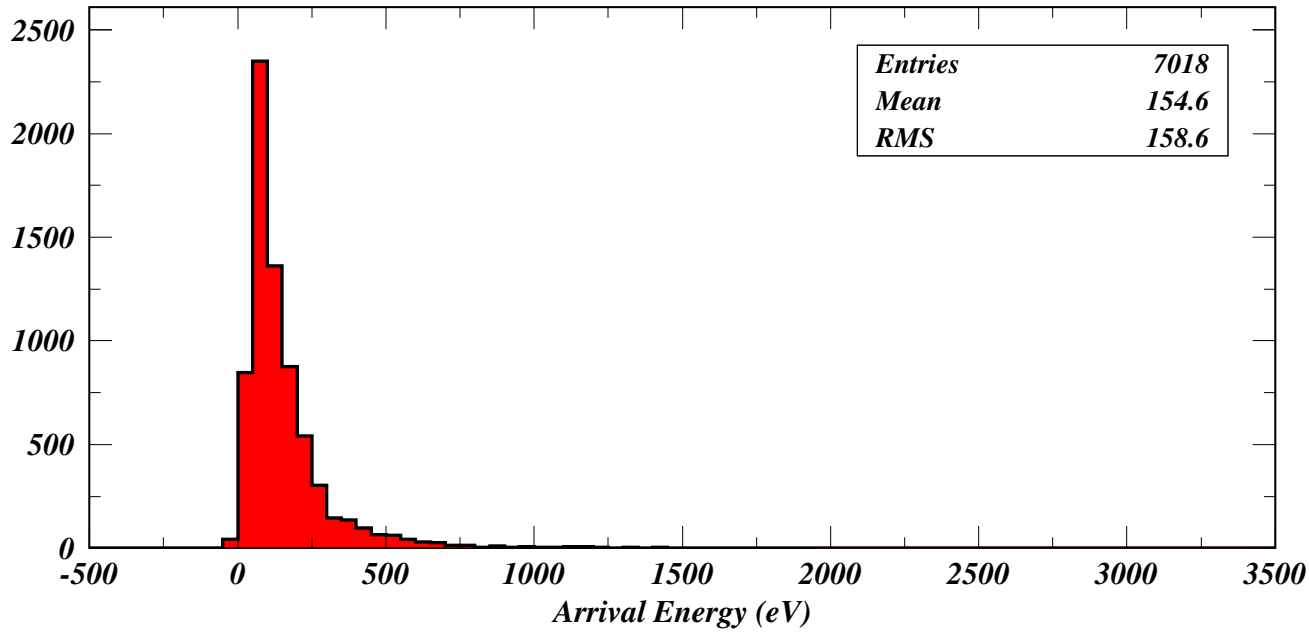
10/08/03 12.05

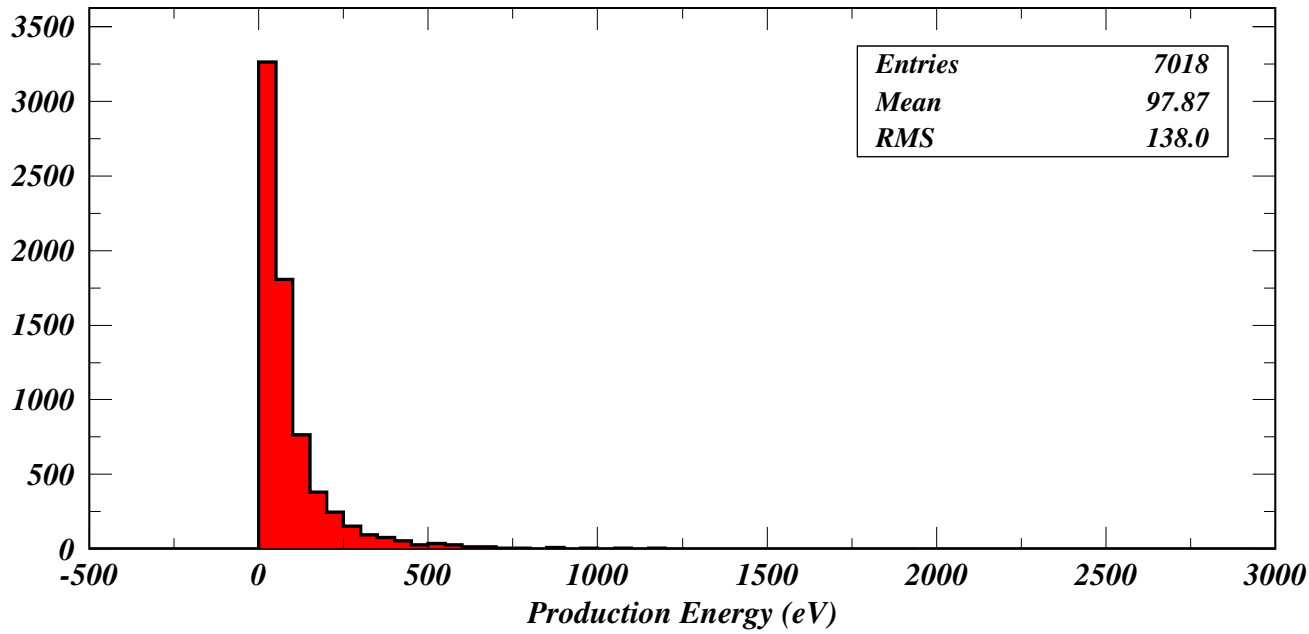
Job 16632: Button Signal Energies For 0 < T < 14 ns



10/08/03 12.05

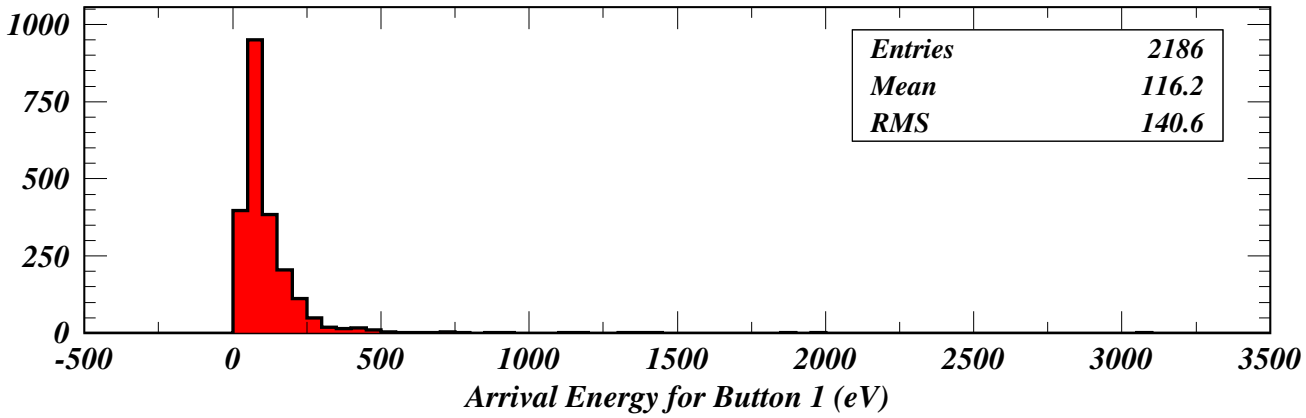
Job 16632: Button Signal Energies For 0 < T < 14 ns: Primaries Only

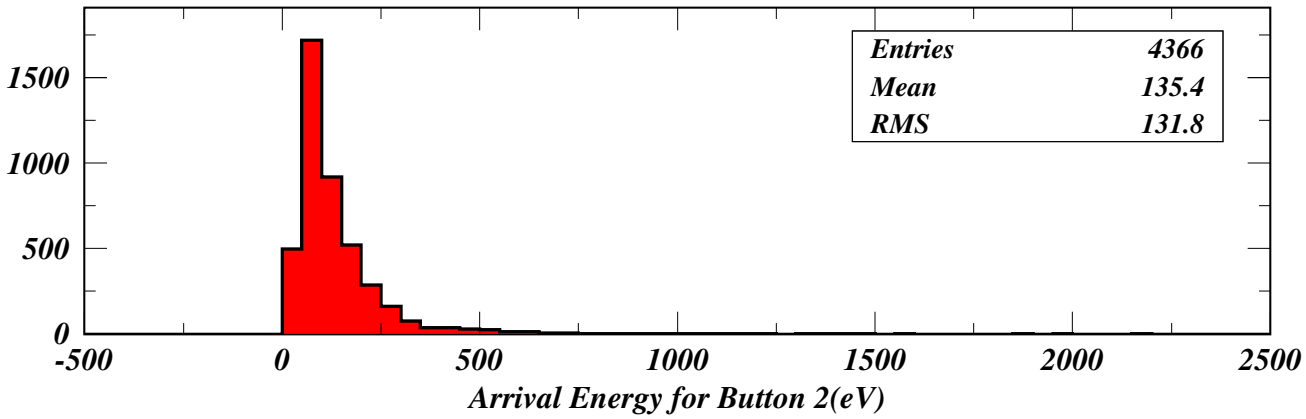


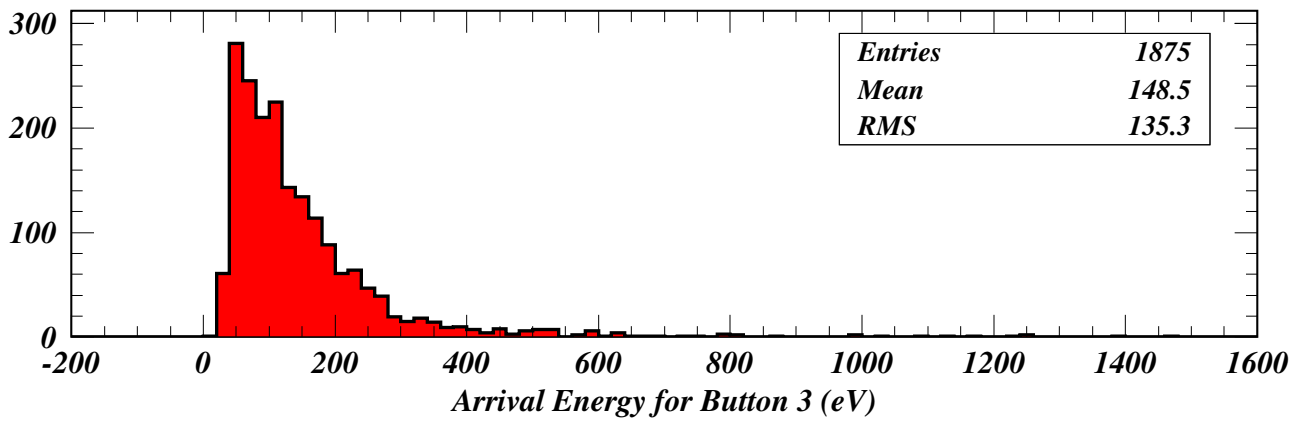


10/08/03 12.05

Job 16632: Button Signal Energies For 0 < T < 14 ns: Primaries Only

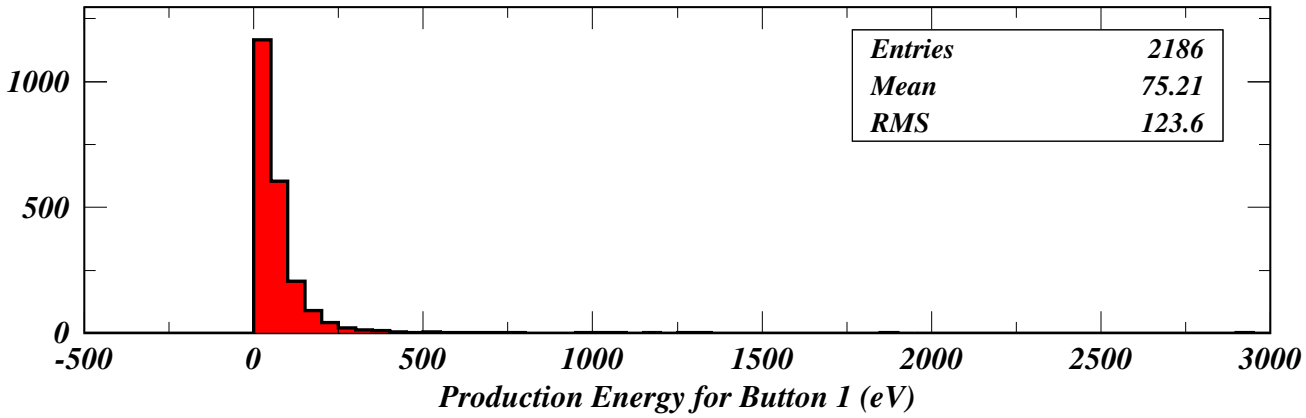


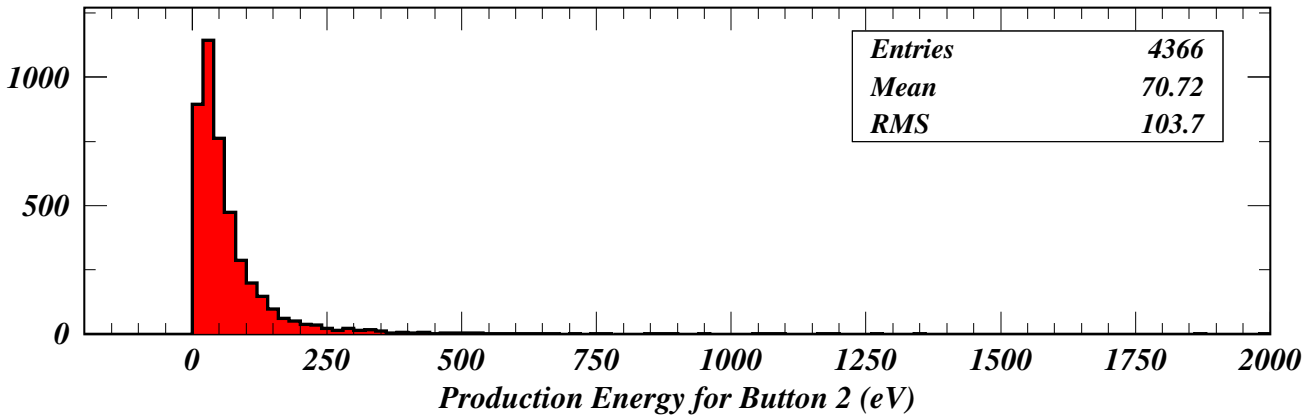


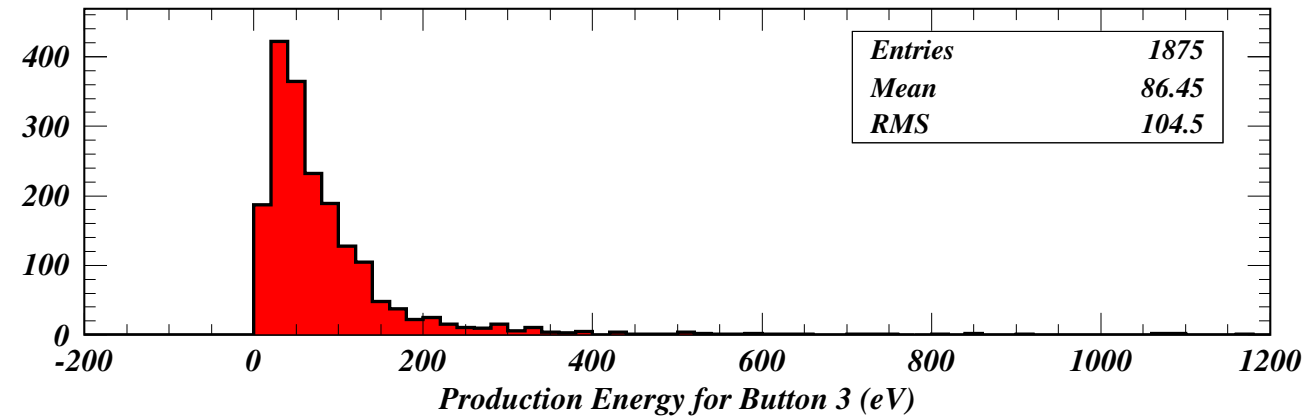


10/08/03 12.05

Job 16632: Button Signal Energies For 0 < T < 14 ns: Primaries Only

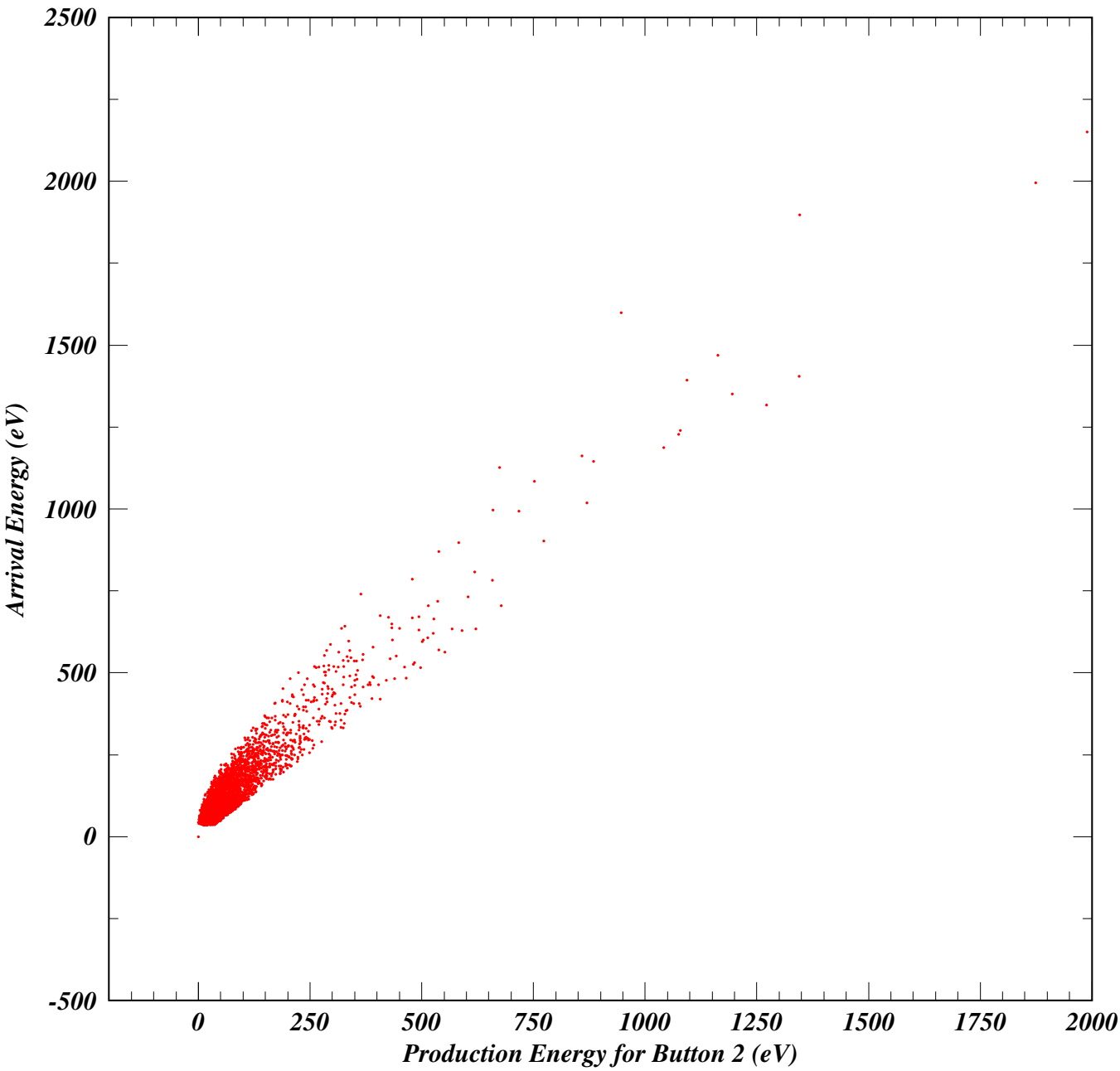






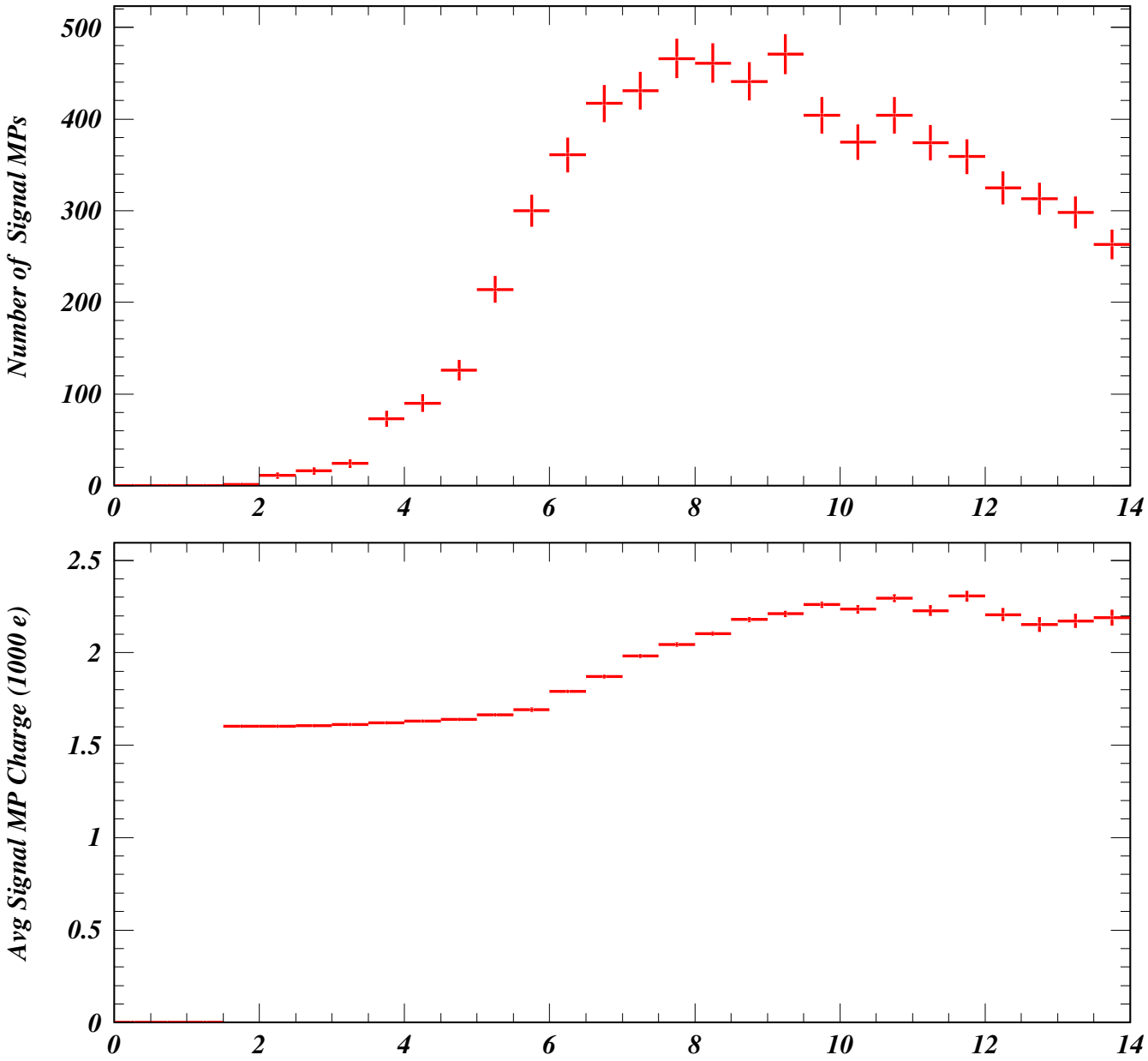
10/08/03 12.05

Job 16632: Button Signal Energies For 0 < T < 14 ns: Primaries Only



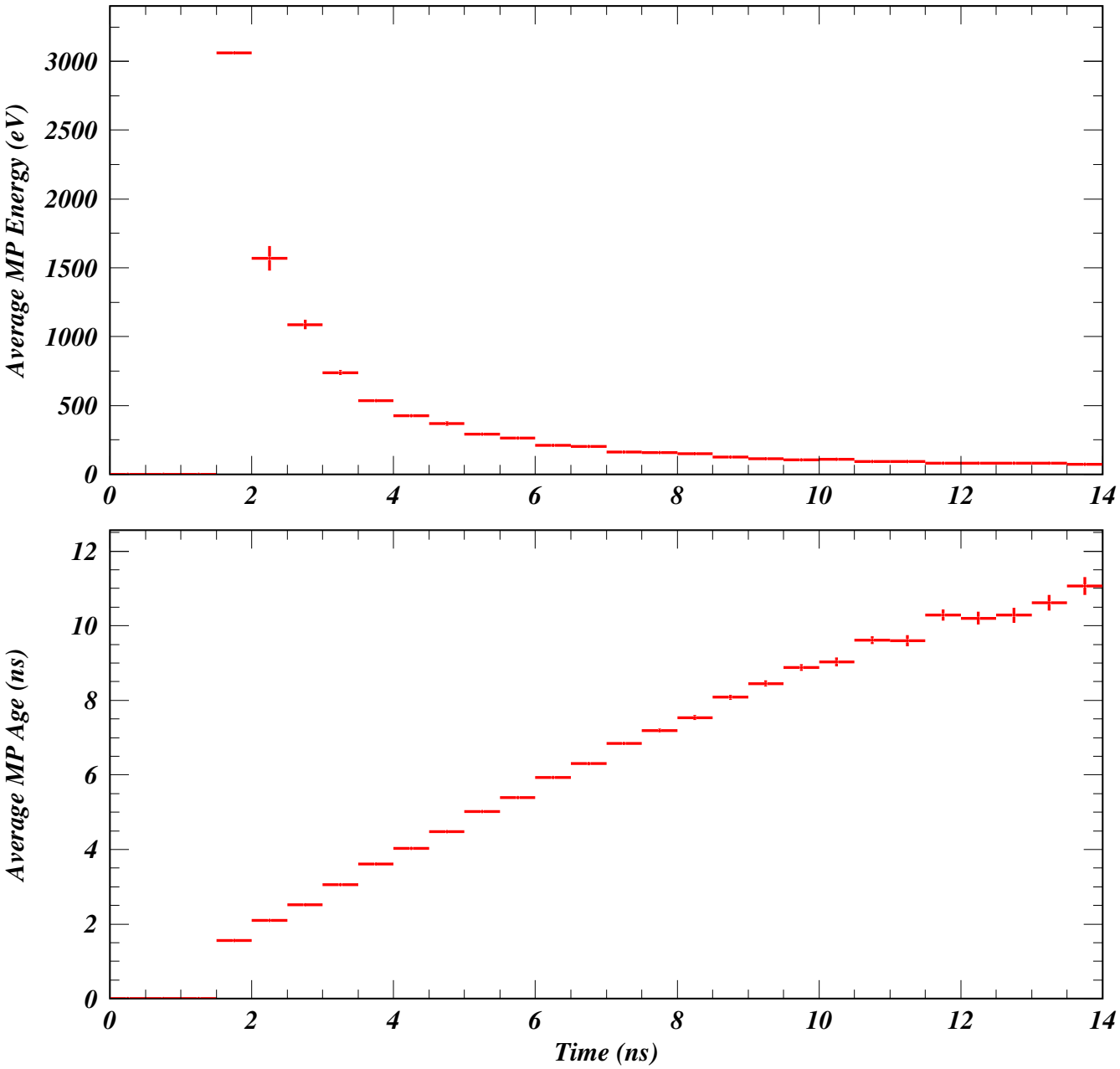
10/08/03 12.05

Job 16632: Button Signal Macroparticles For 0 < T < 14 ns

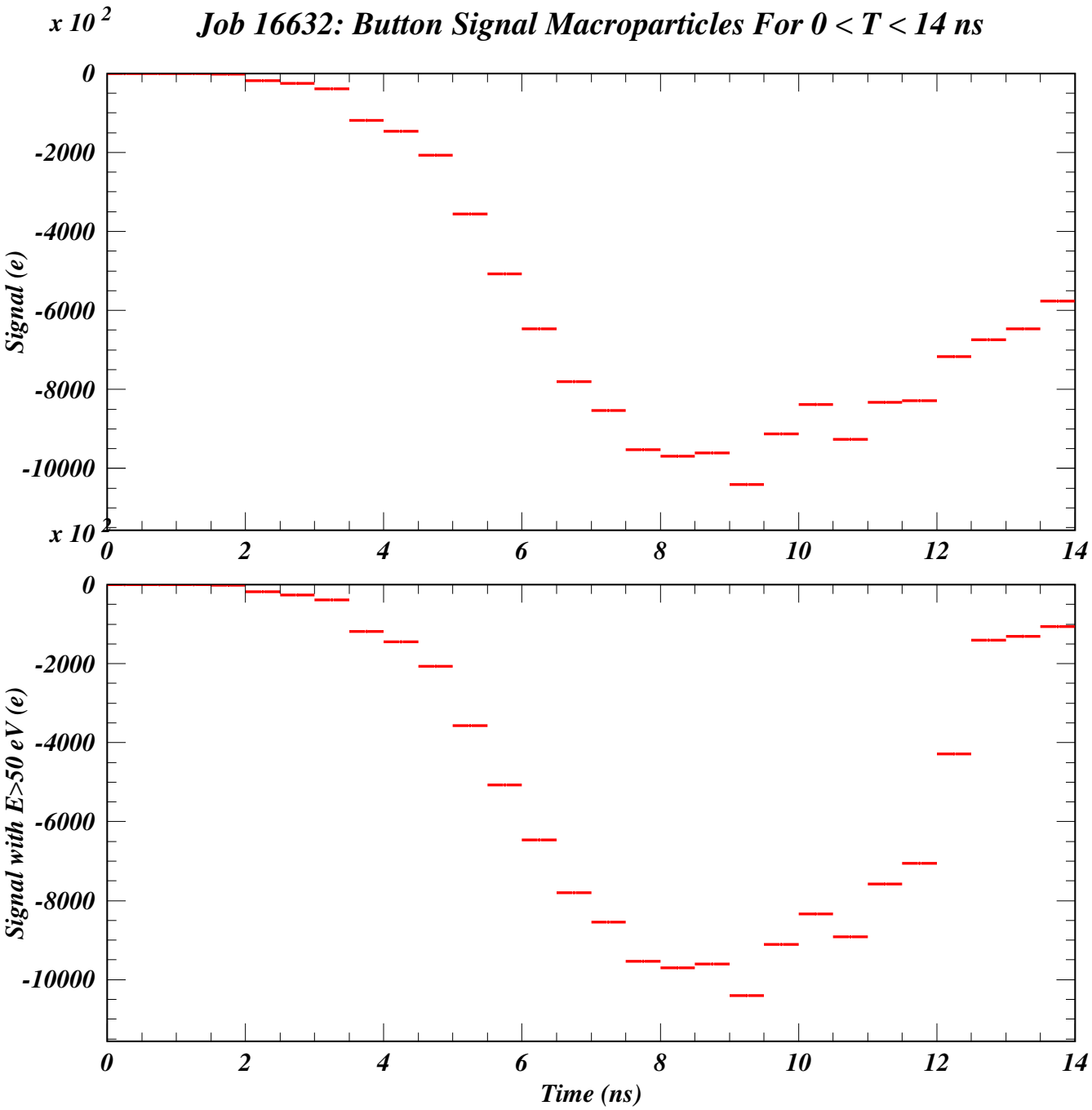


10/08/03 12.05

Job 16632: Button Signal Macroparticles For 0 < T < 14 ns

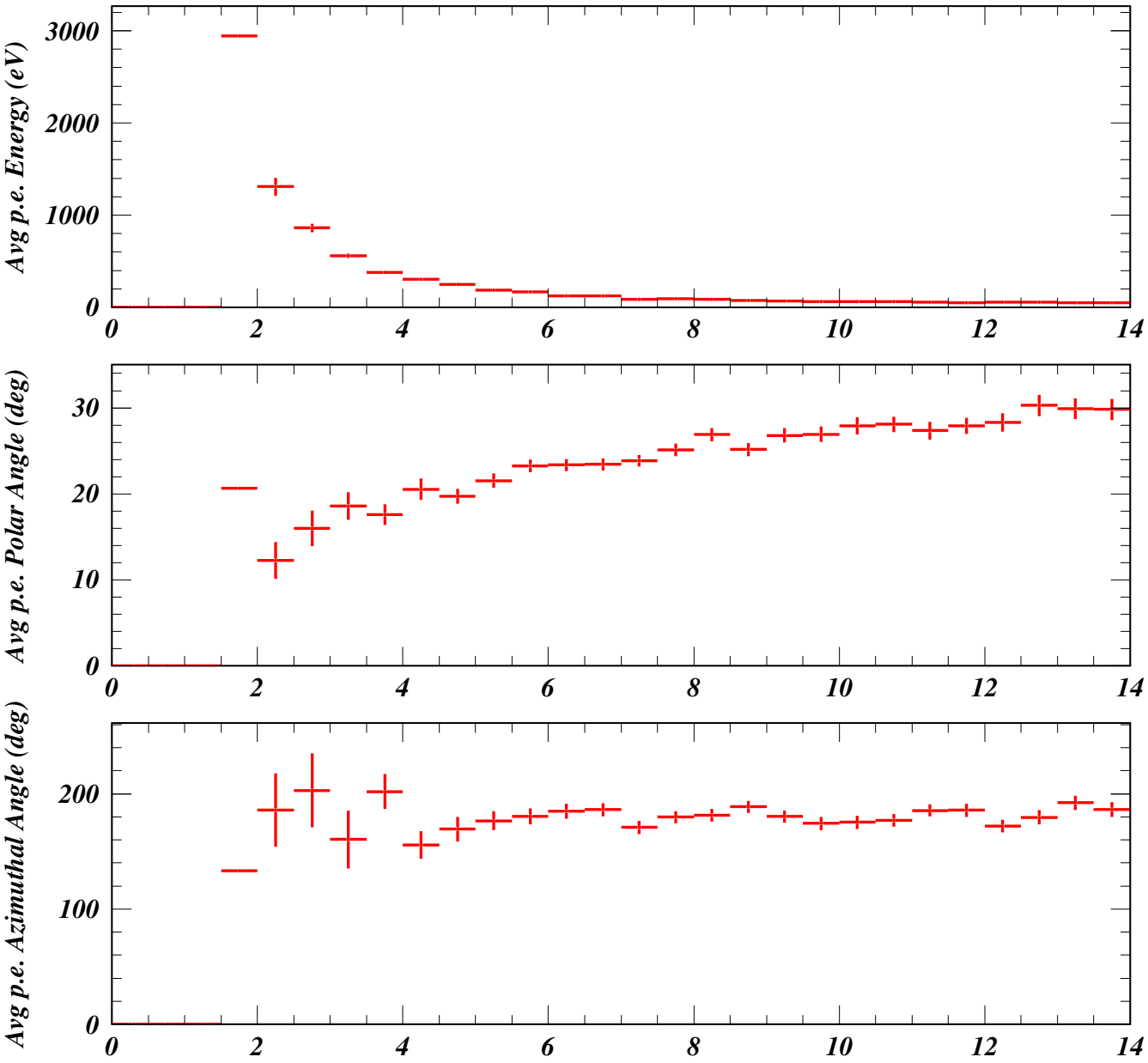


10/08/03 12.05

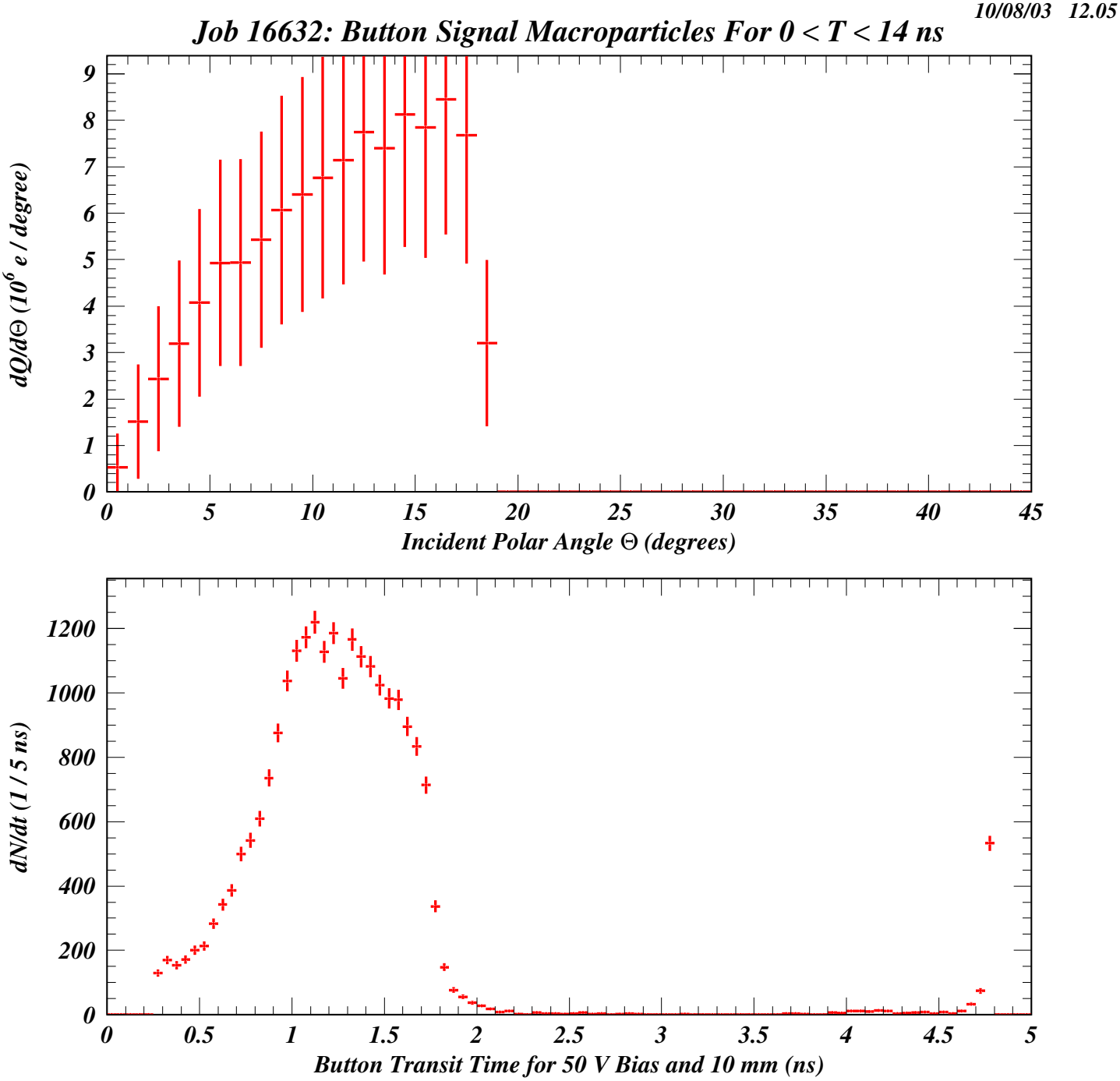

x 10 2
Job 16632: Button Signal Macroparticles For 0 < T < 14 ns
0
-2000
-4000
-6000
-8000
-10000
Signal (e)
x 10 2
0
2
4
6
8
10
12
14
0
-2000
-4000
-6000
-8000
-10000
Signal with E>50 eV (e)
0
2
4
6
8
10
12
14
Time (ns)

10/08/03 12.05

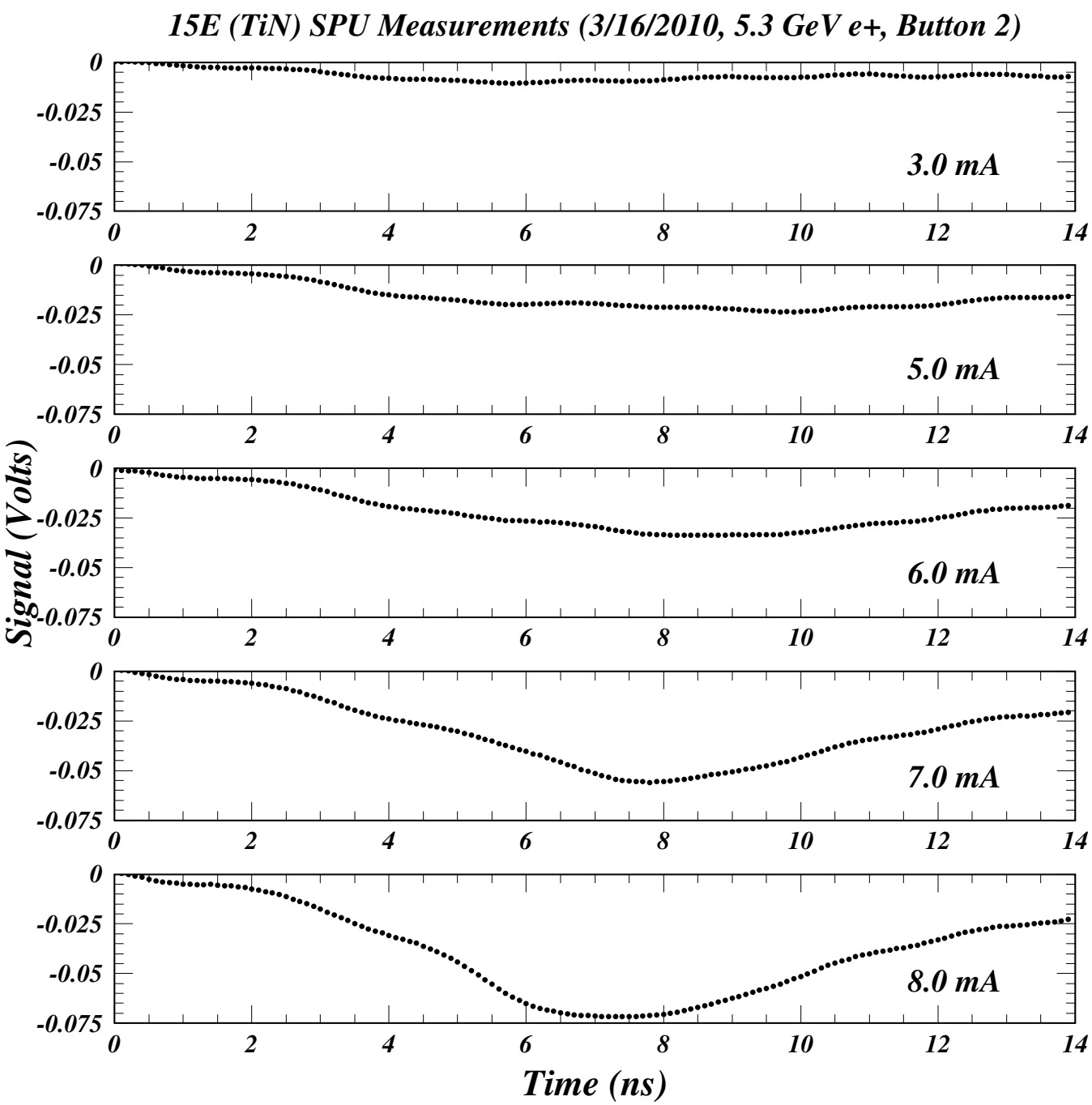
Job 16632: Button Signal Macroparticles For 0 < T < 14 ns



10/08/03 12.05


Job 16632: 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)