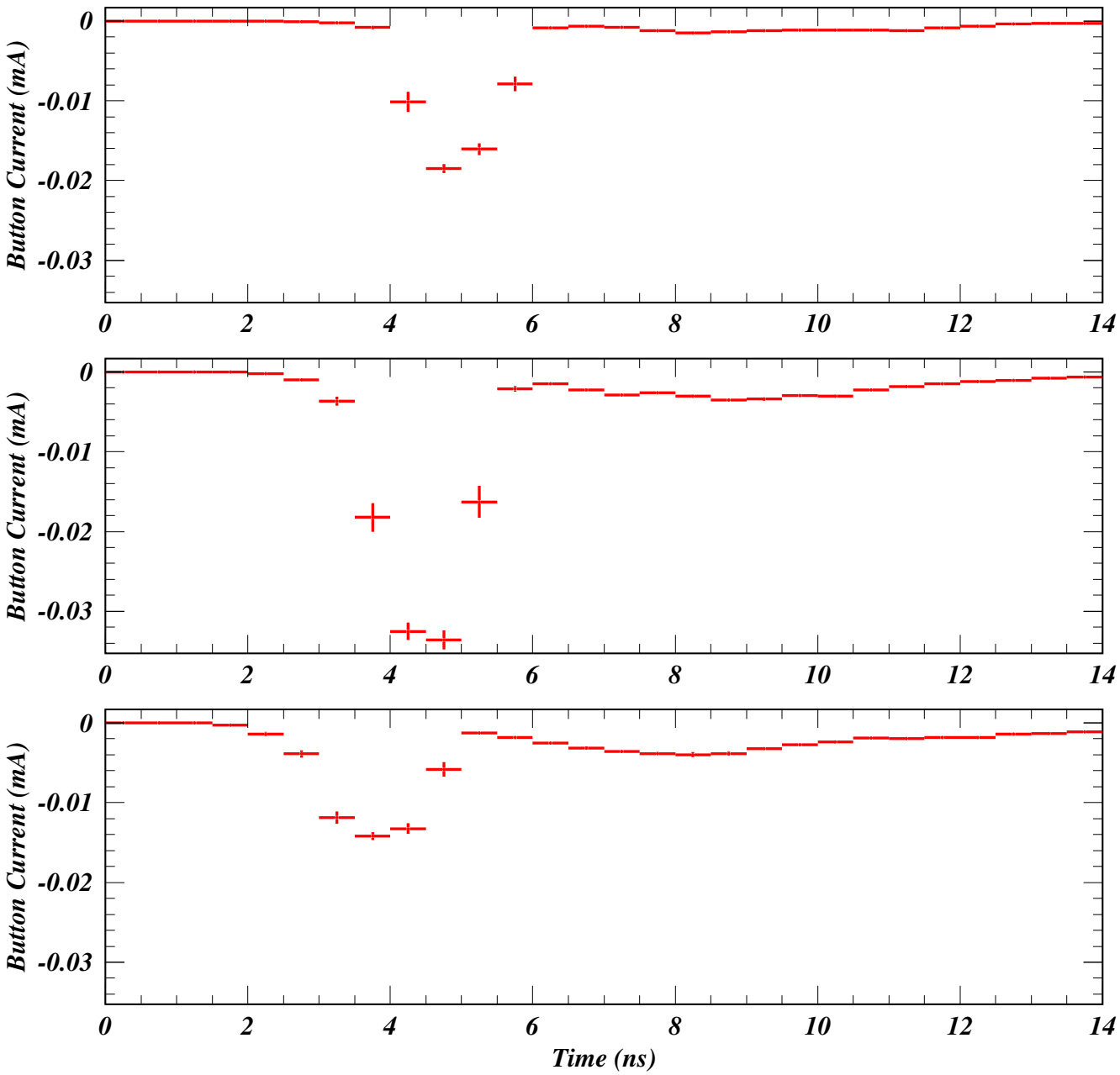
10/08/04 09.55

Job 16670: Shielded Button Simulation



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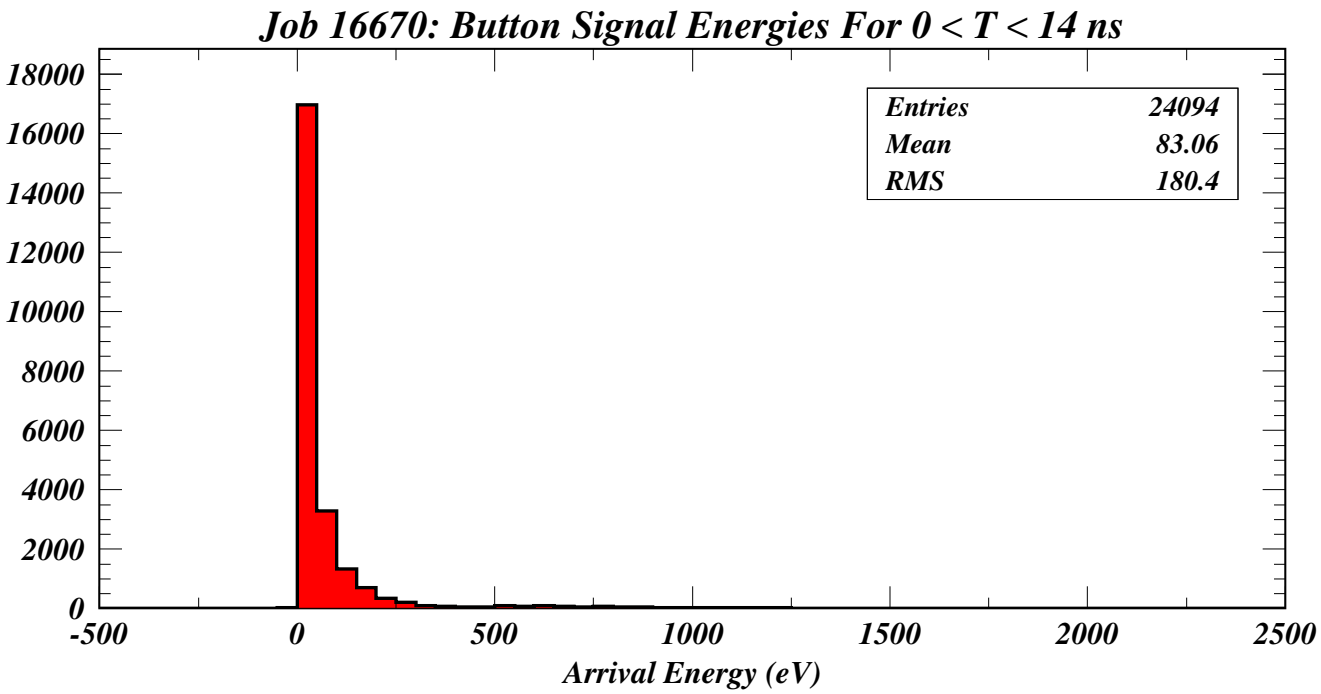
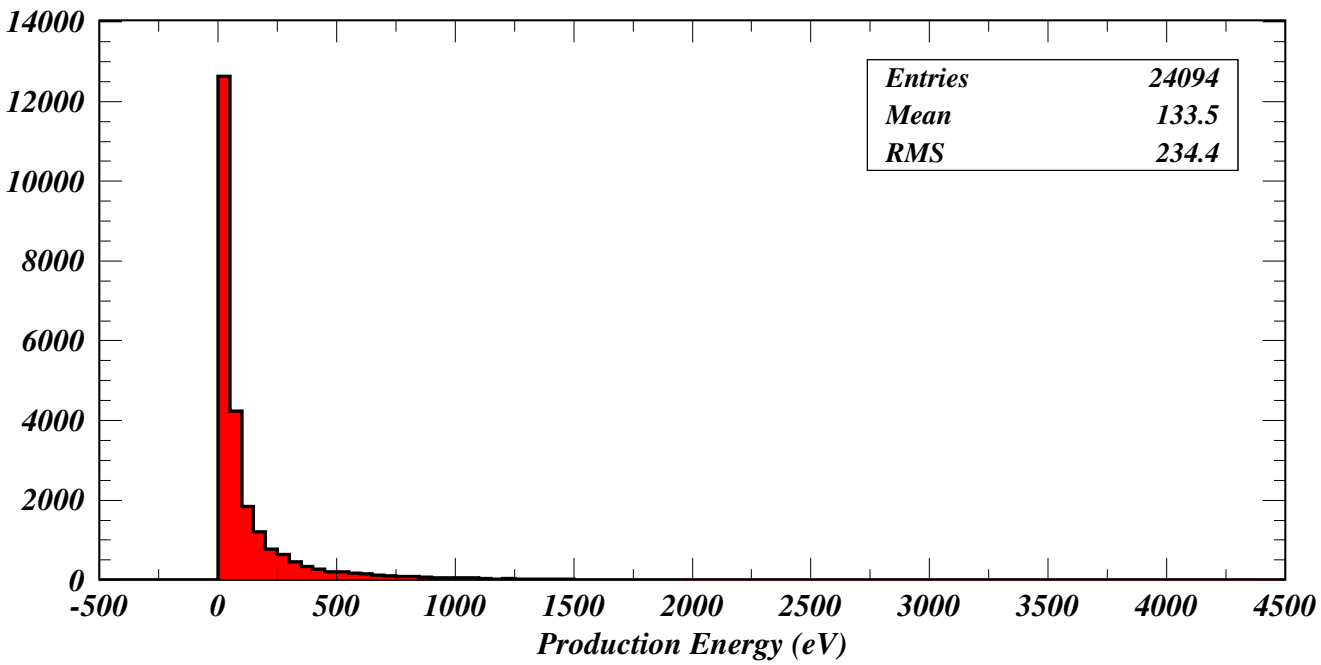

Job 16670: Button Signal Energies For 0 < T < 14 ns
Entries 24094
Mean 83.06
RMS 180.4
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
-500
0
500
1000
1500
2000
2500
Arrival Energy (eV)


Entries 24094
Mean 133.5
RMS 234.4
14000
12000
10000
8000
6000
4000
2000
0
-500
0
500
1000
1500
2000
2500
3000
3500
4000
4500
Production Energy (eV)

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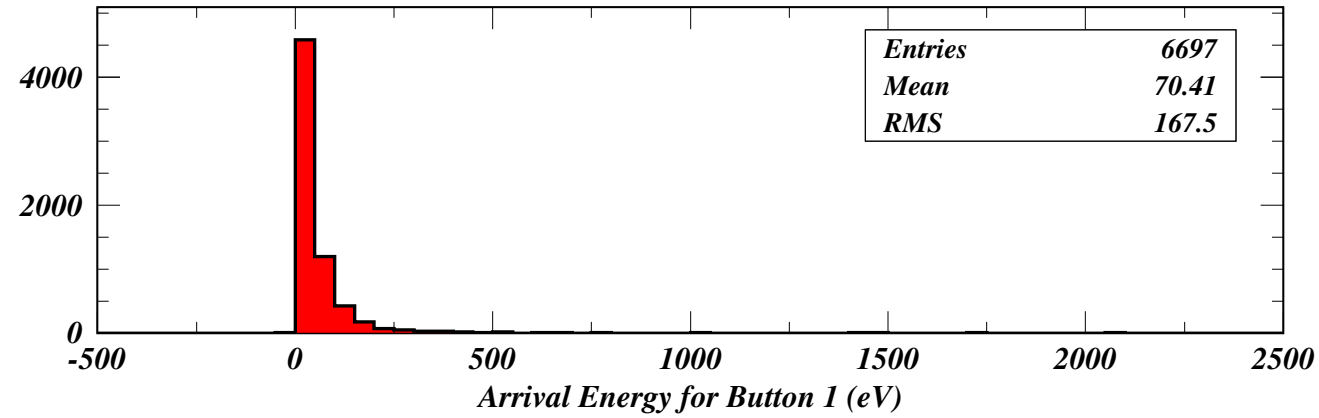
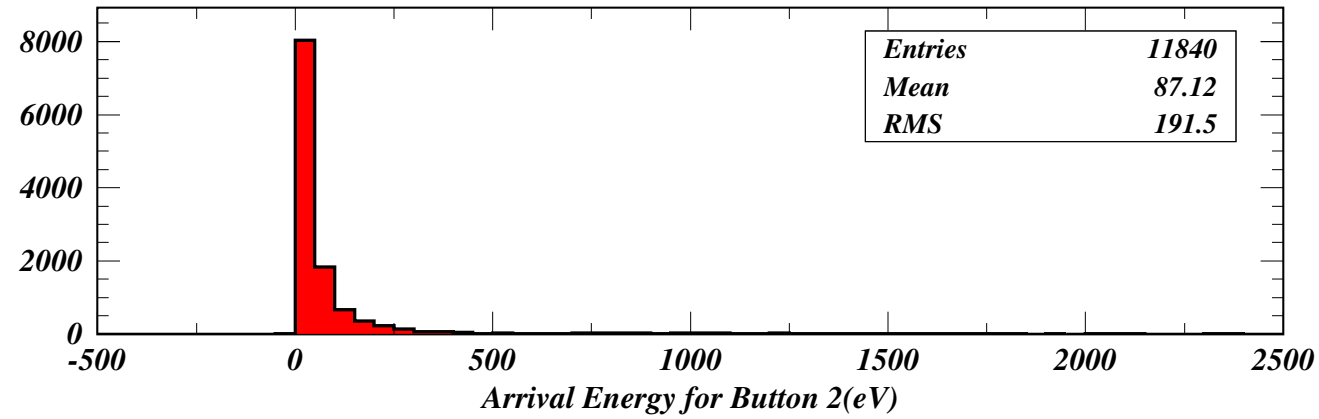
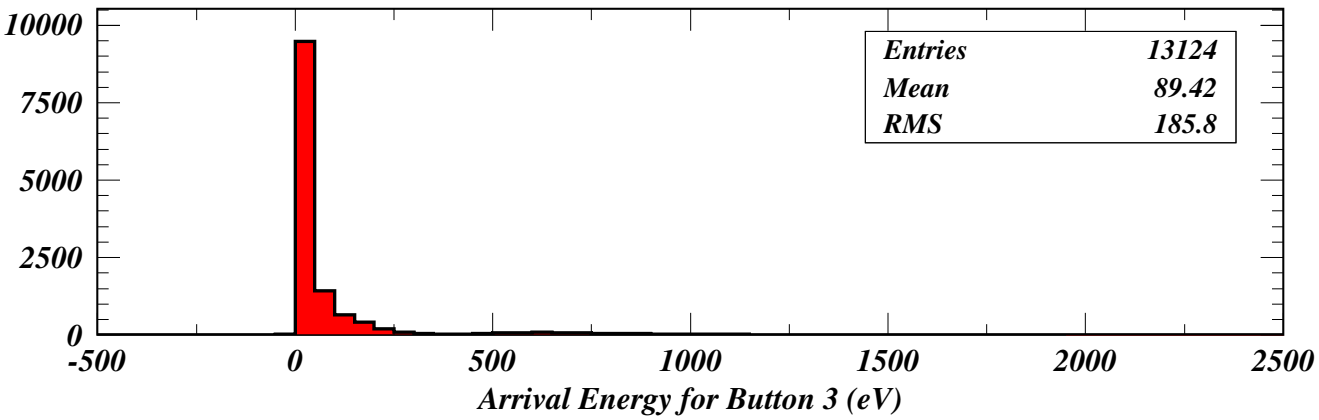
Job 16670: Button Signal Energies For 0 < T < 14 ns







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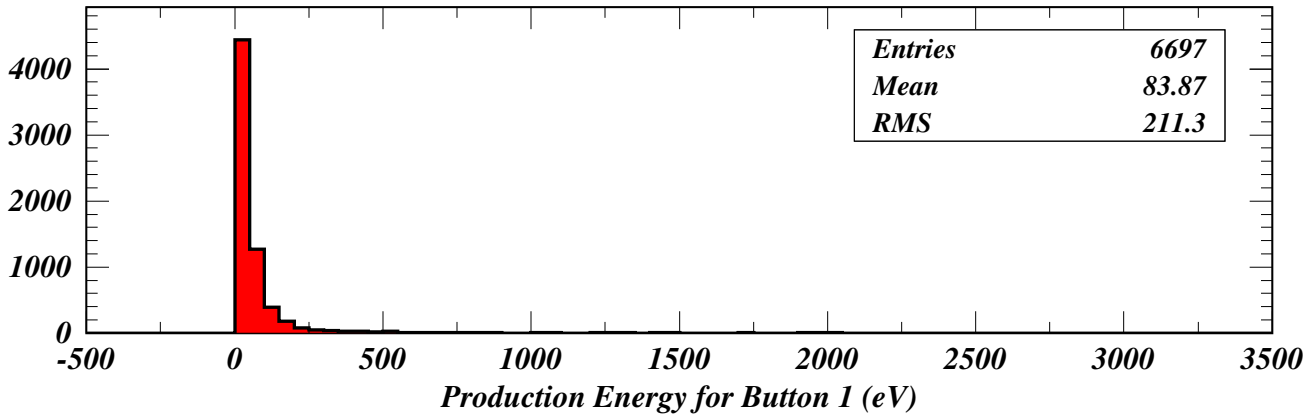
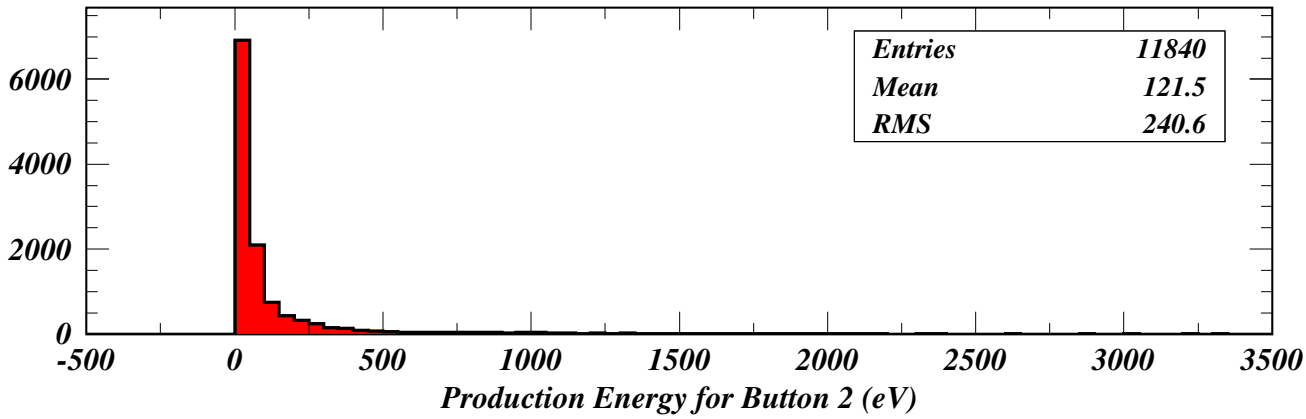
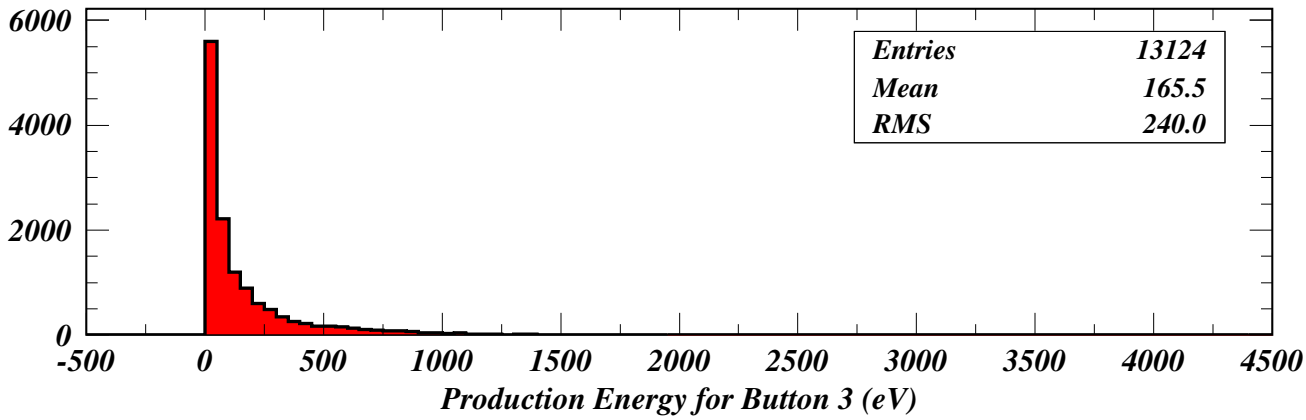
Job 16670: Button Signal Energies For 0 < T < 14 ns

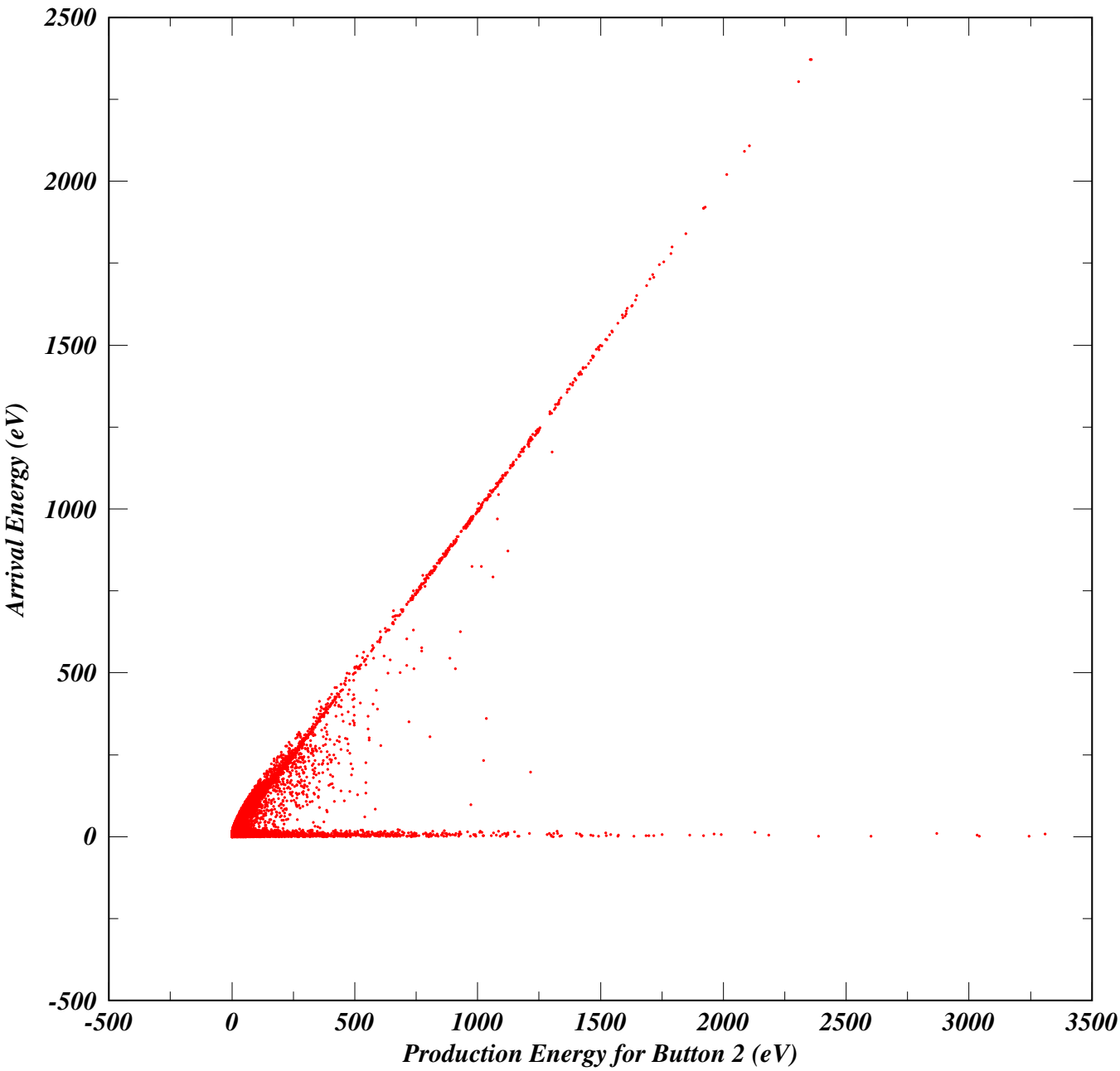






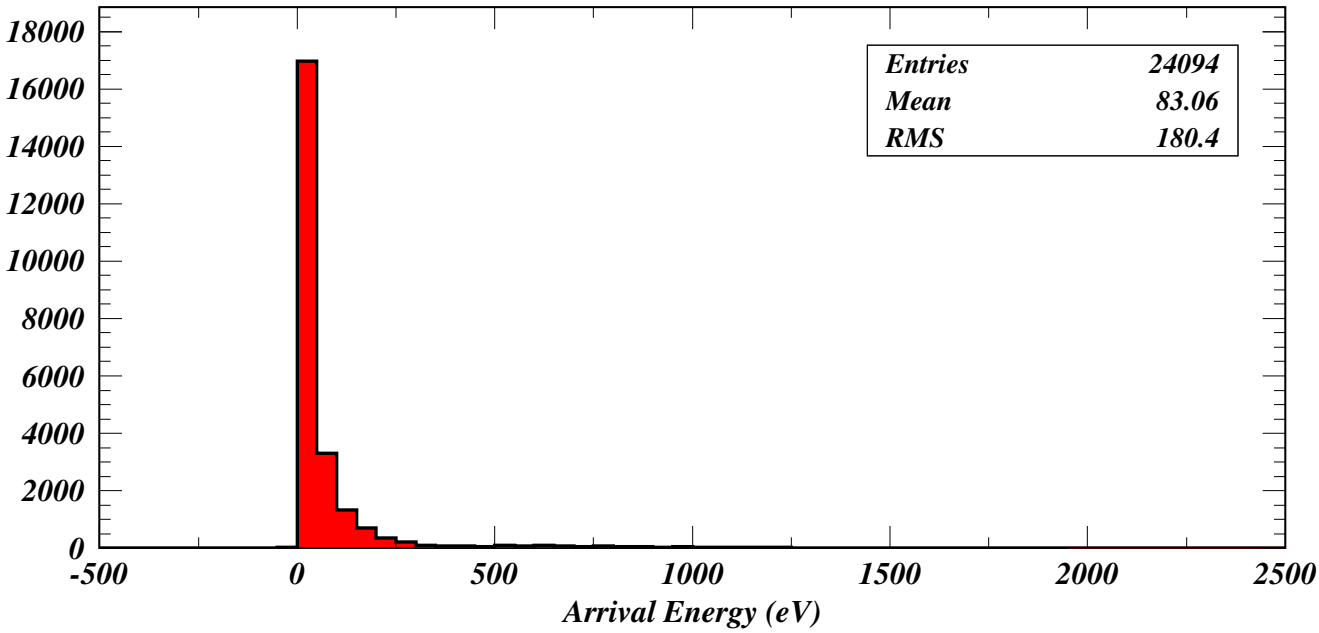
10/08/04 09.55

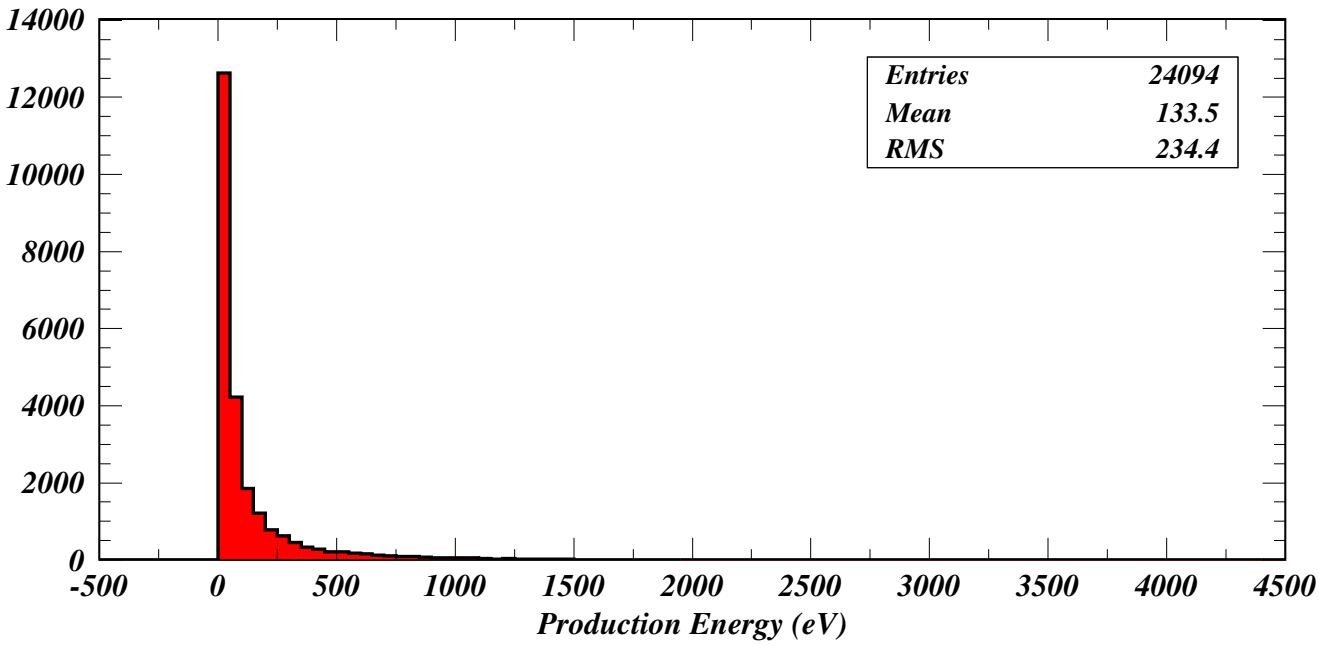
Job 16670: Button Signal Energies For 0 < T < 14 ns



10/08/04 09.55

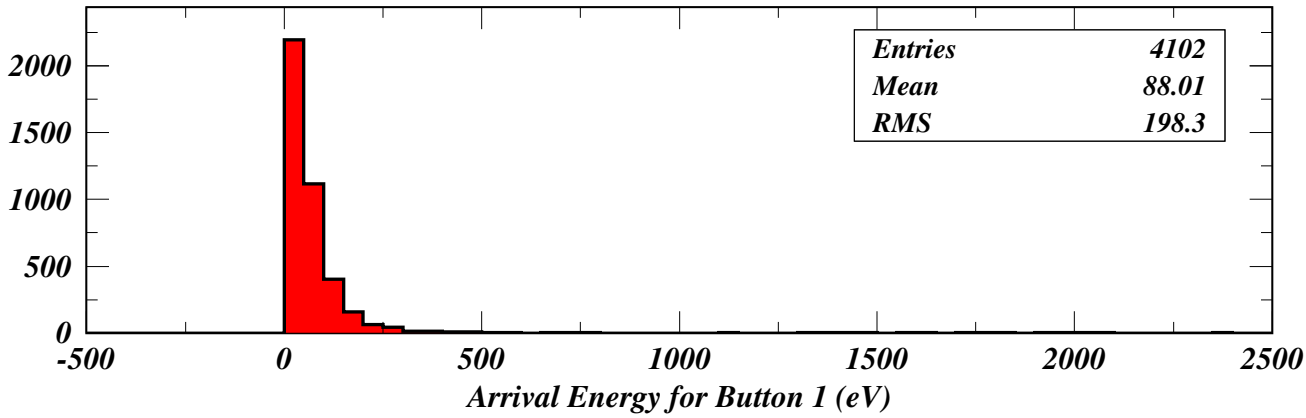
Job 16670: Button Signal Energies For 0 < T < 14 ns: Primaries Only

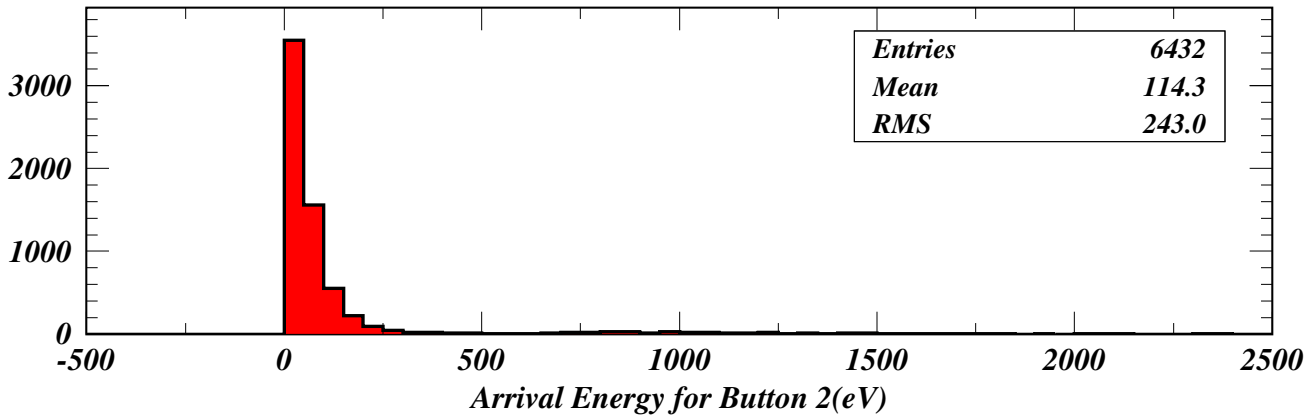


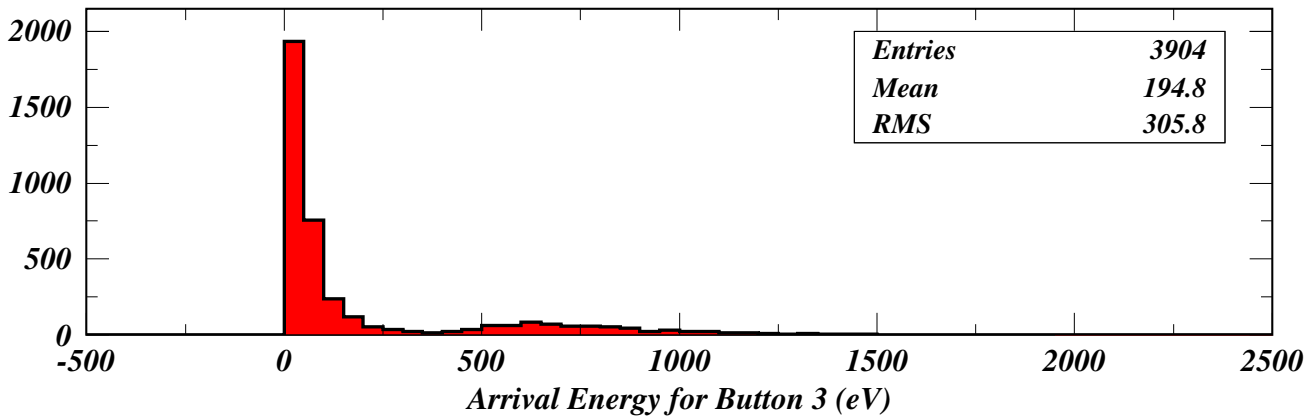


10/08/04 09.55

Job 16670: Button Signal Energies For 0 < T < 14 ns: Primaries Only







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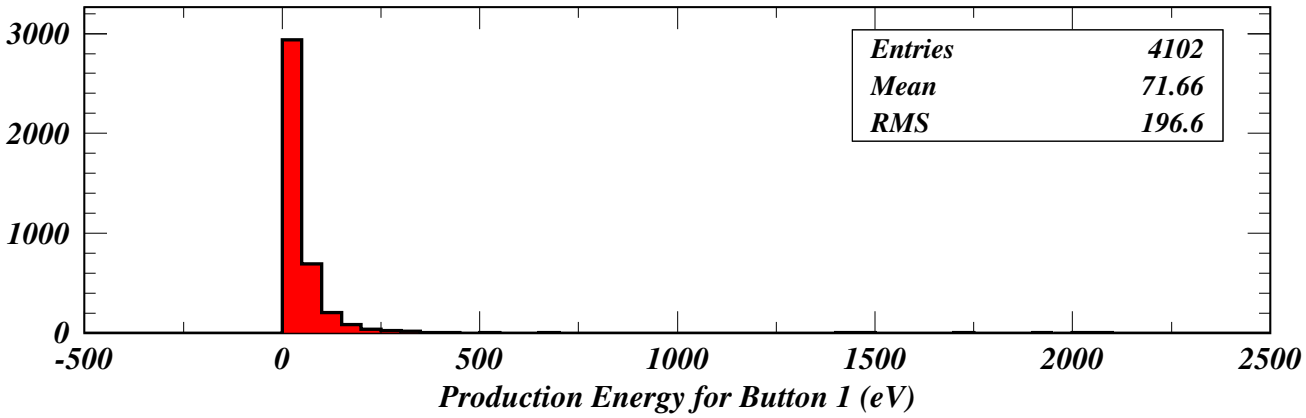
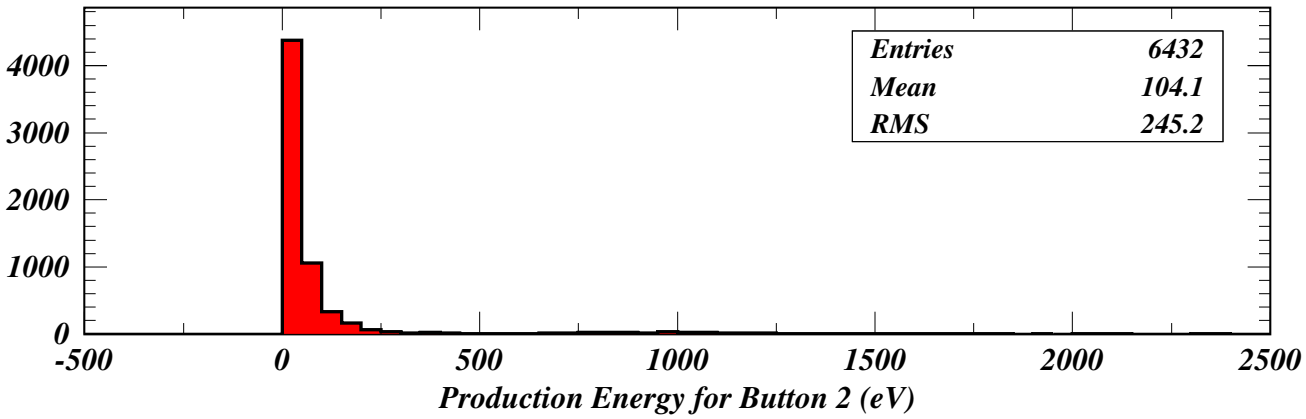
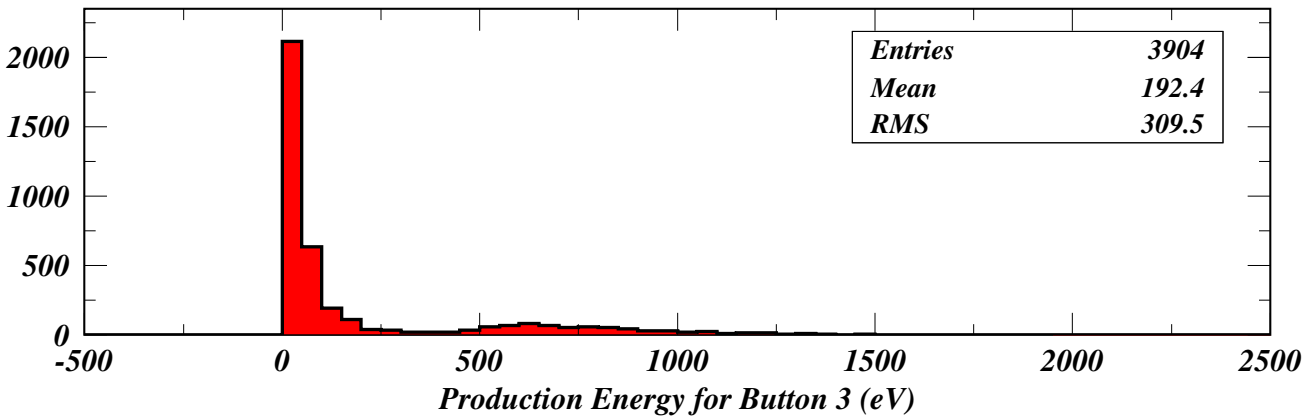
Job 16670: Button Signal Energies For 0 < T < 14 ns: Primaries Only







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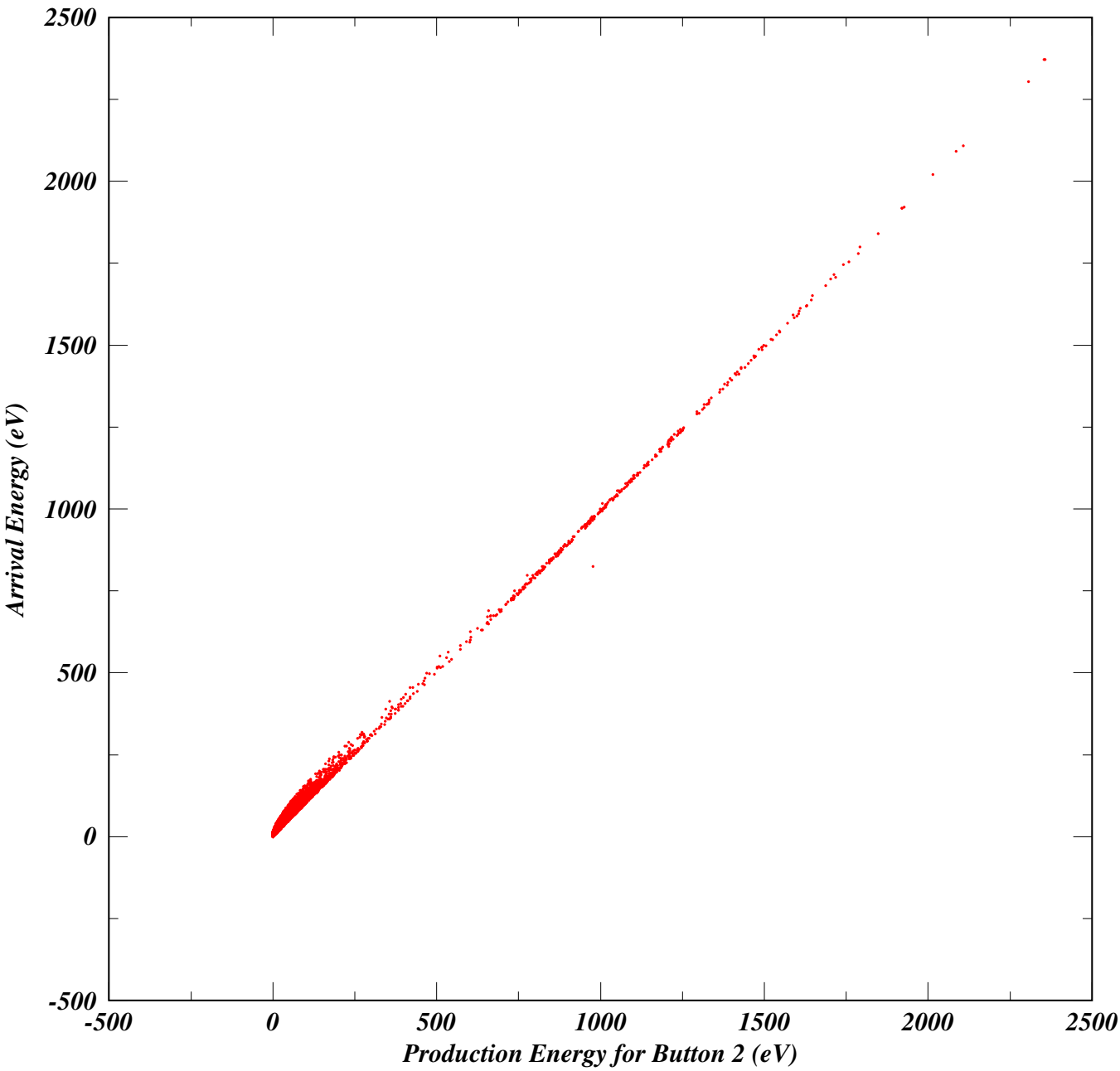
Job 16670: Button Signal Energies For 0 < T < 14 ns: Primaries Only



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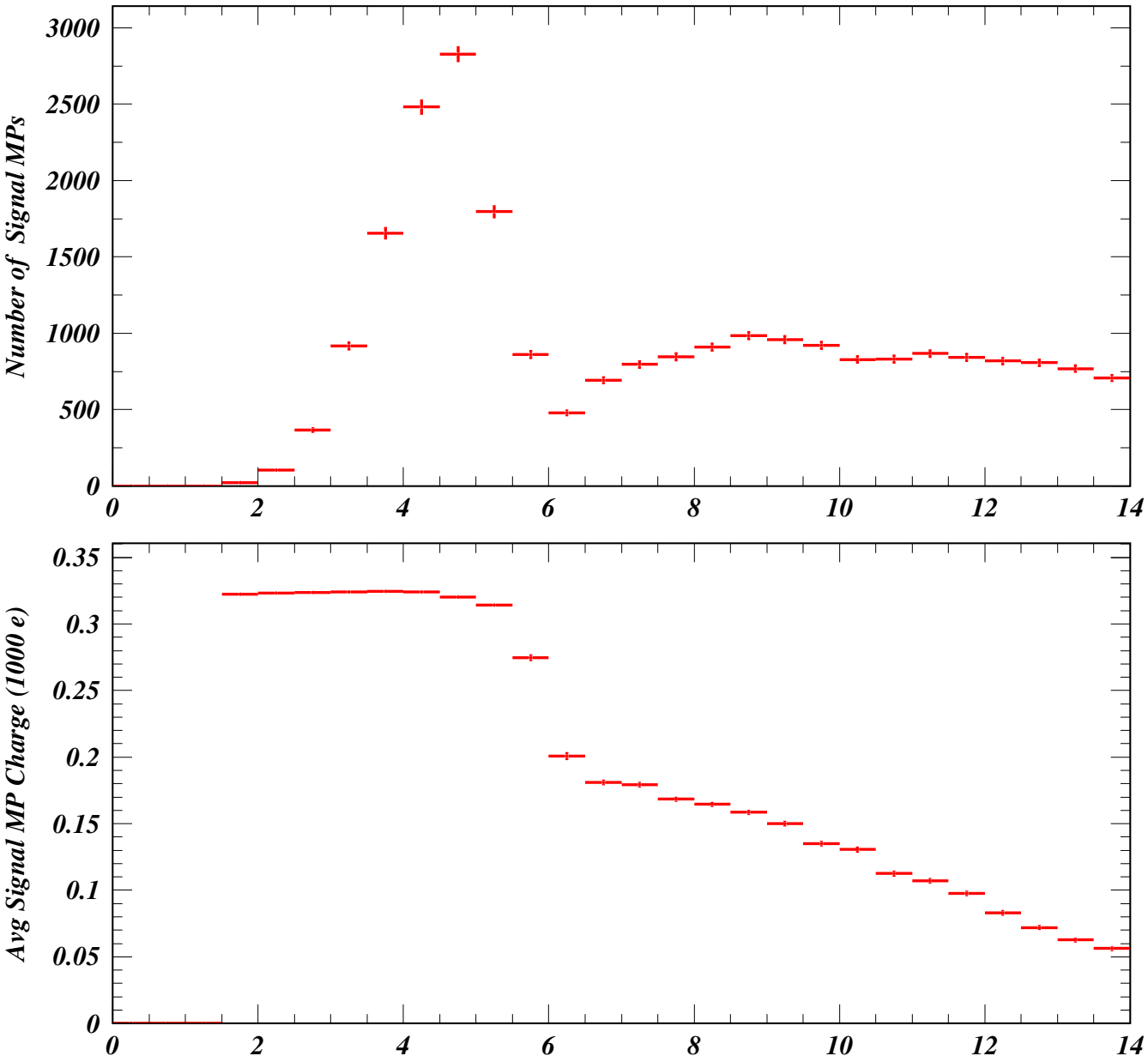
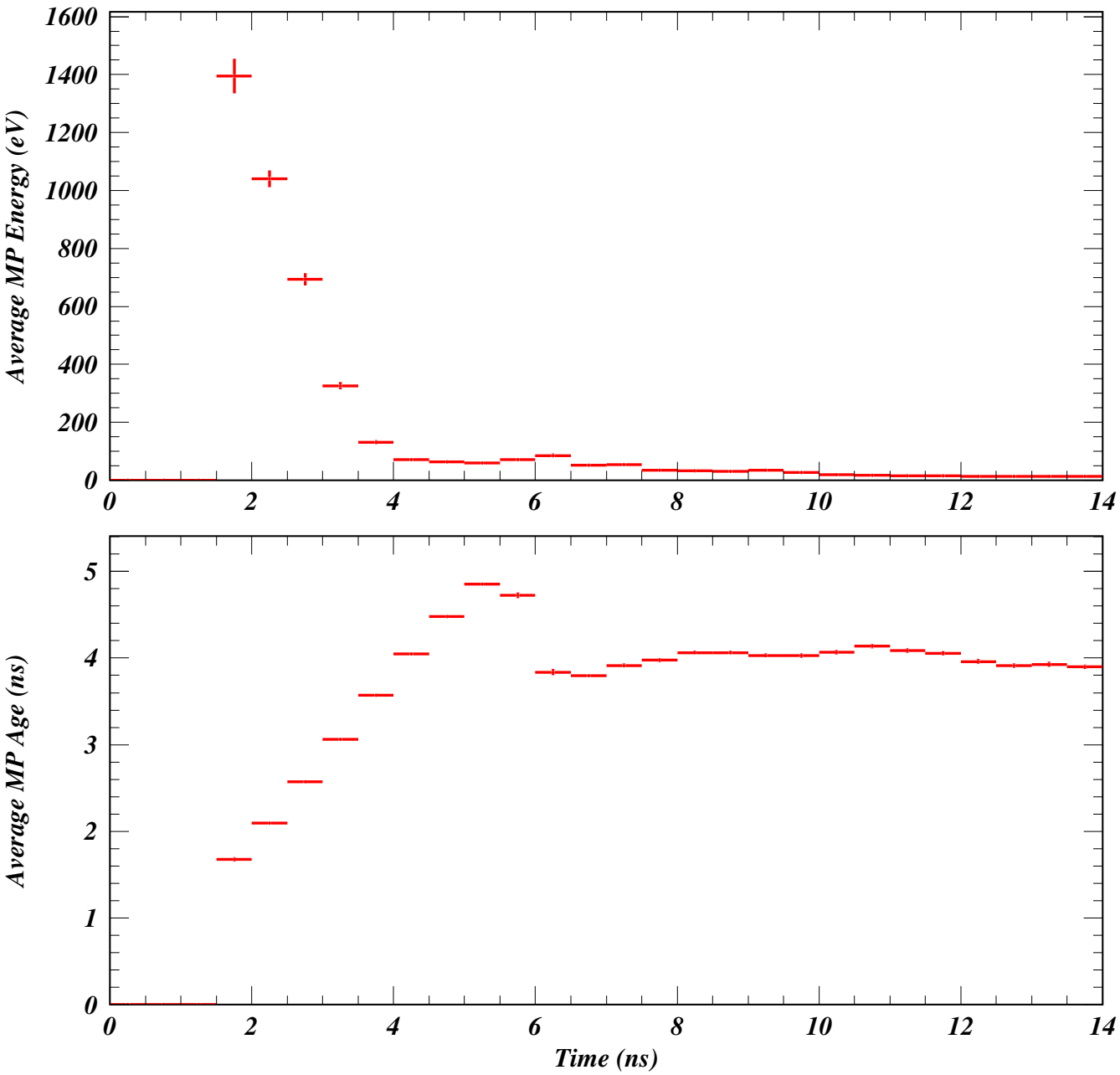
Job 16670: Button Signal Macroparticles For 0 < T < 14 ns

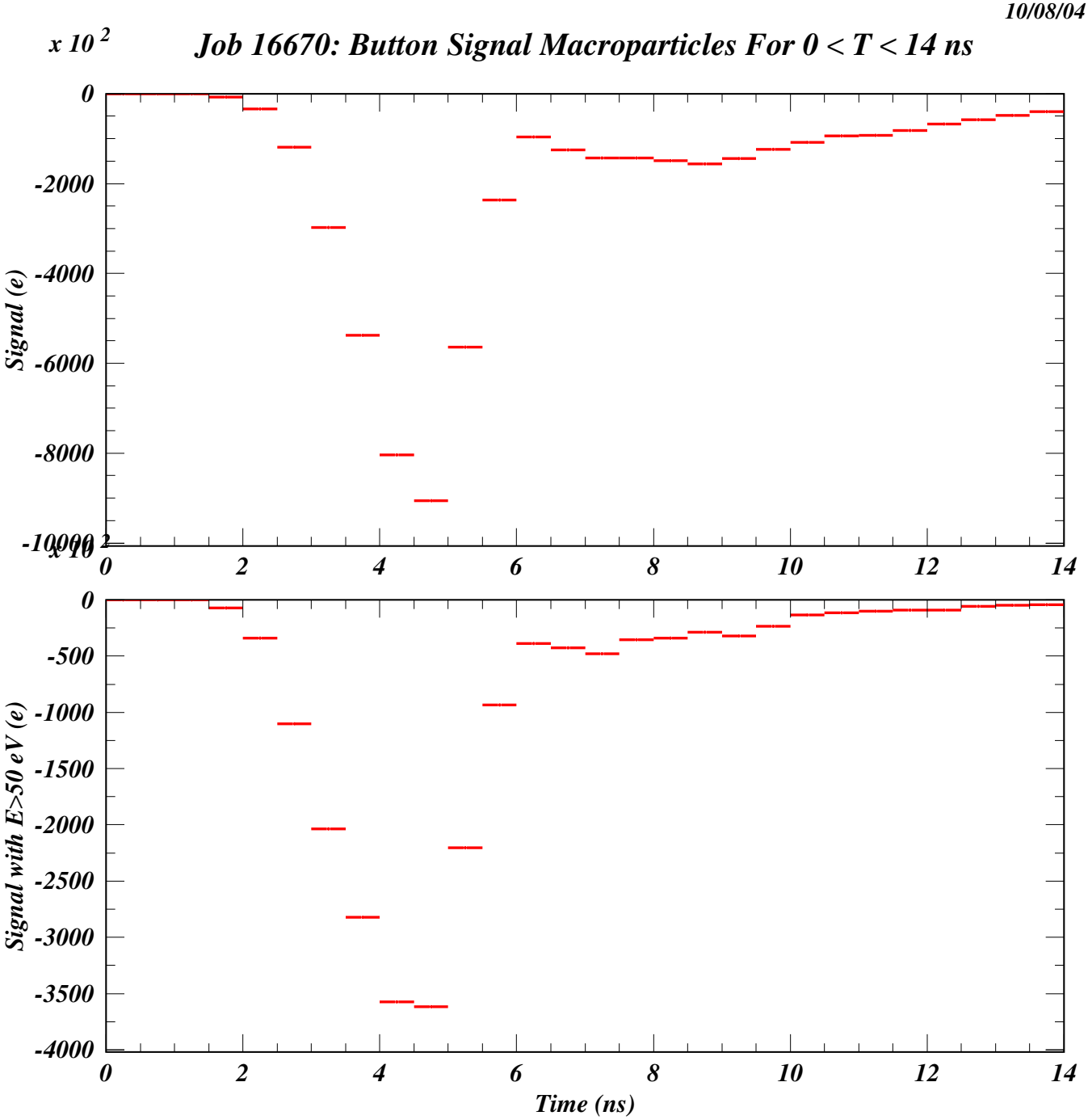


10/08/04 09.55

Job 16670: Button Signal Macroparticles For 0 < T < 14 ns

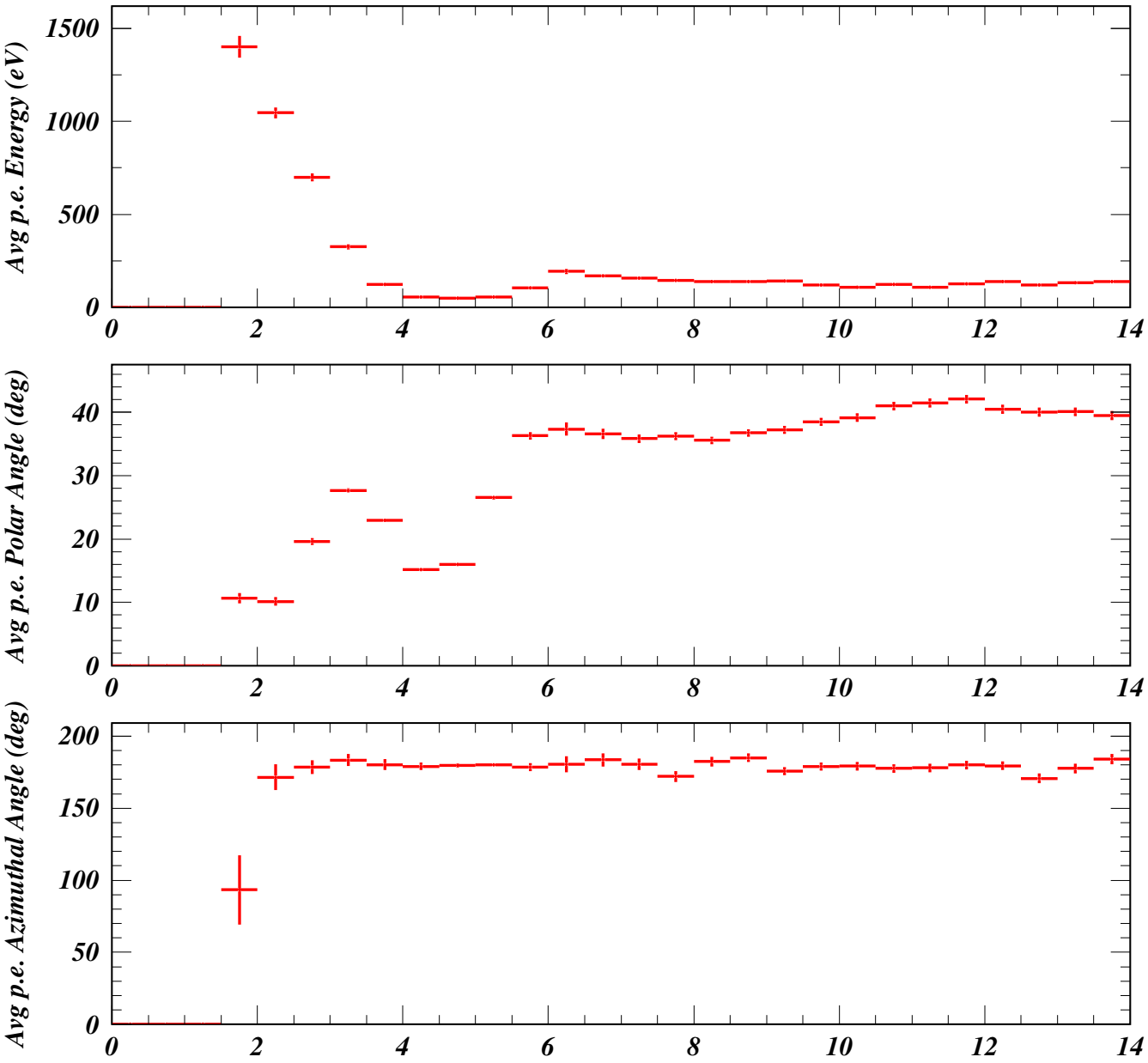


10/08/04 09.55

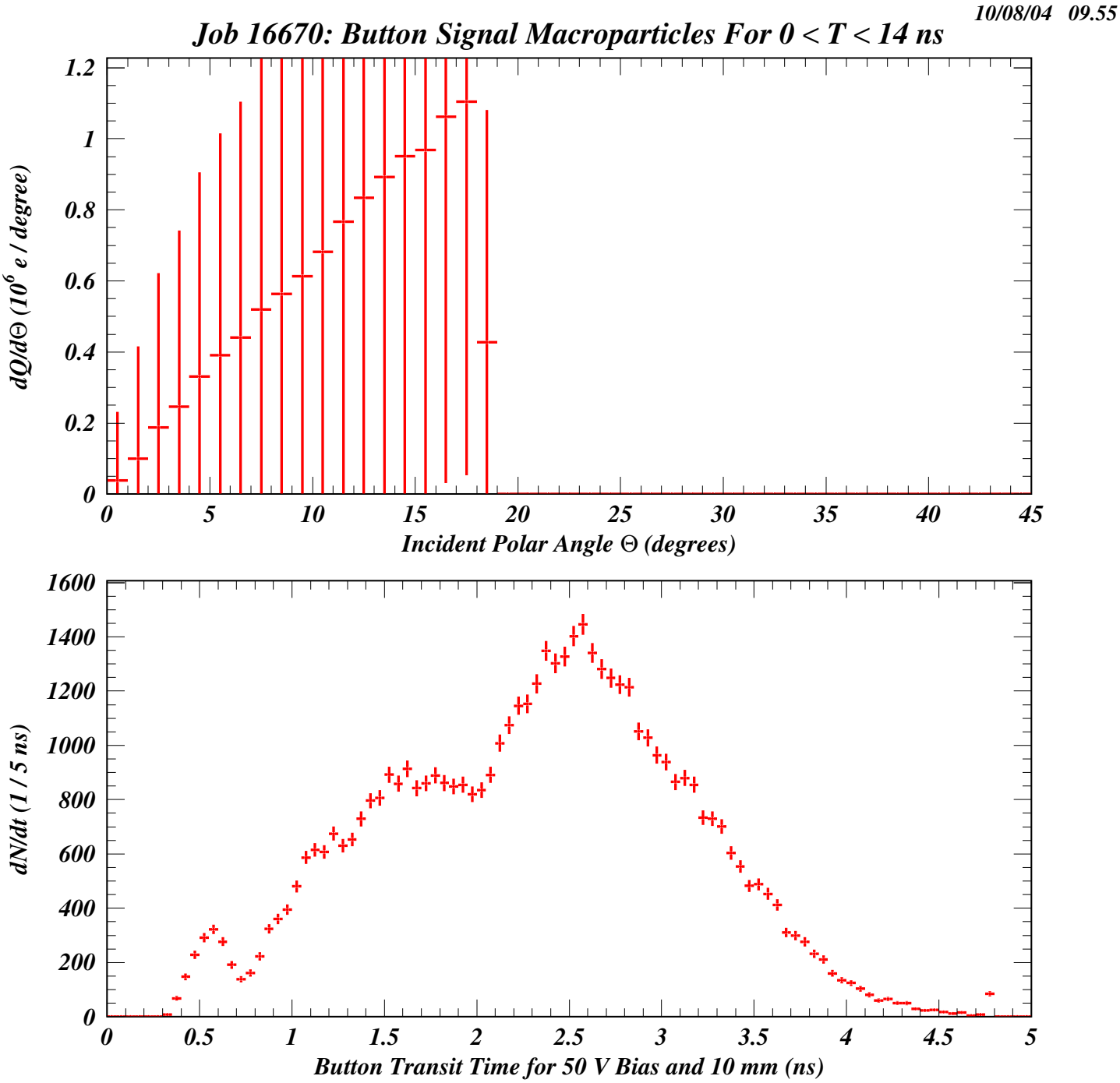

x 10 2
Job 16670: Button Signal Macroparticles For 0 < T < 14 ns
Signal (e)
0
-2000
-4000
-6000
-8000
-10000
x 10 2
0
2
4
6
8
10
12
14
Signal with E>50 eV (e)
0
-500
-1000
-1500
-2000
-2500
-3000
-3500
-4000
Time (ns)

10/08/04 09.55

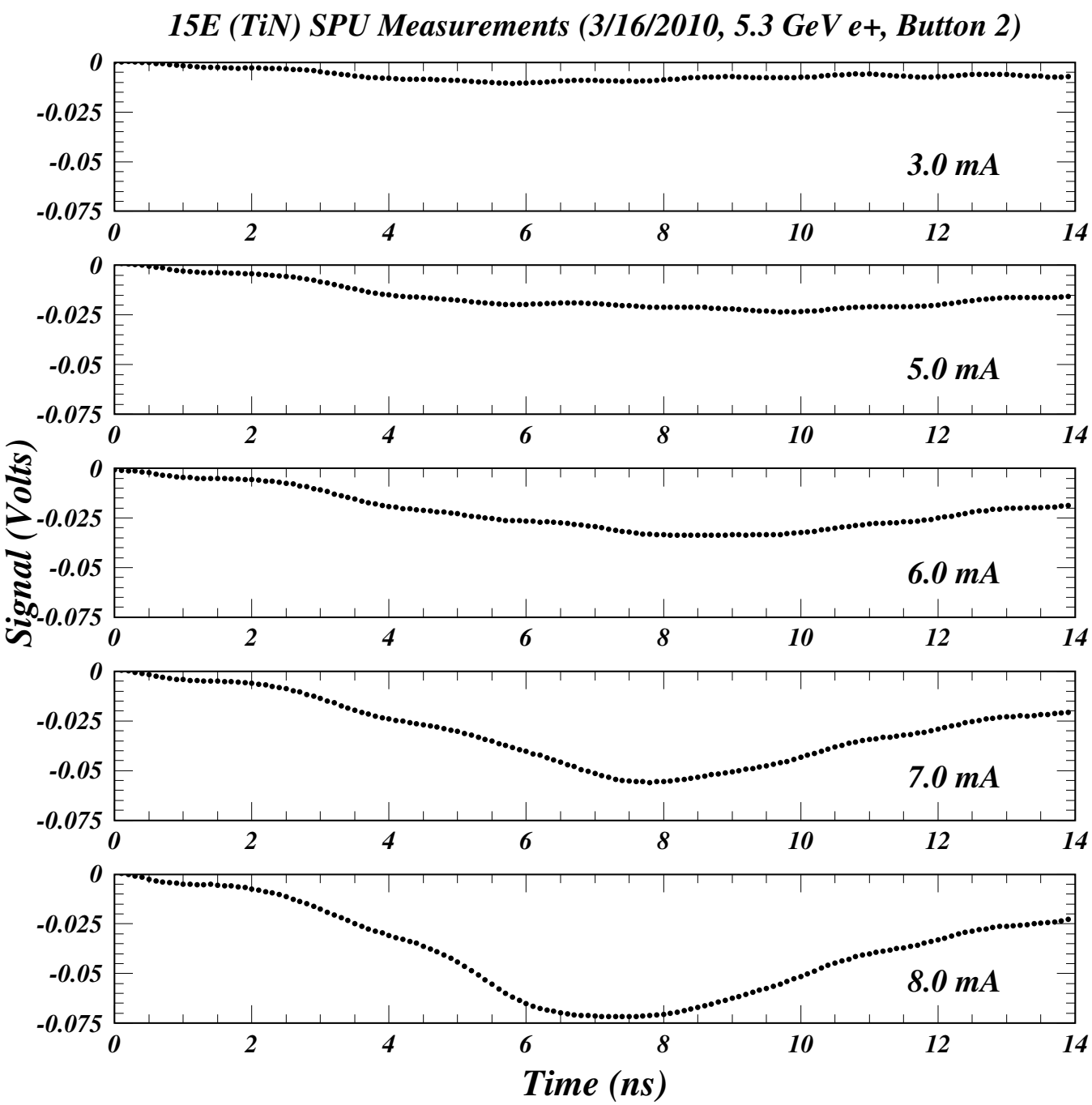
Job 16670: Button Signal Macroparticles For 0 < T < 14 ns



10/08/04 09.55


Job 16670: 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)

10/08/04 09.55


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