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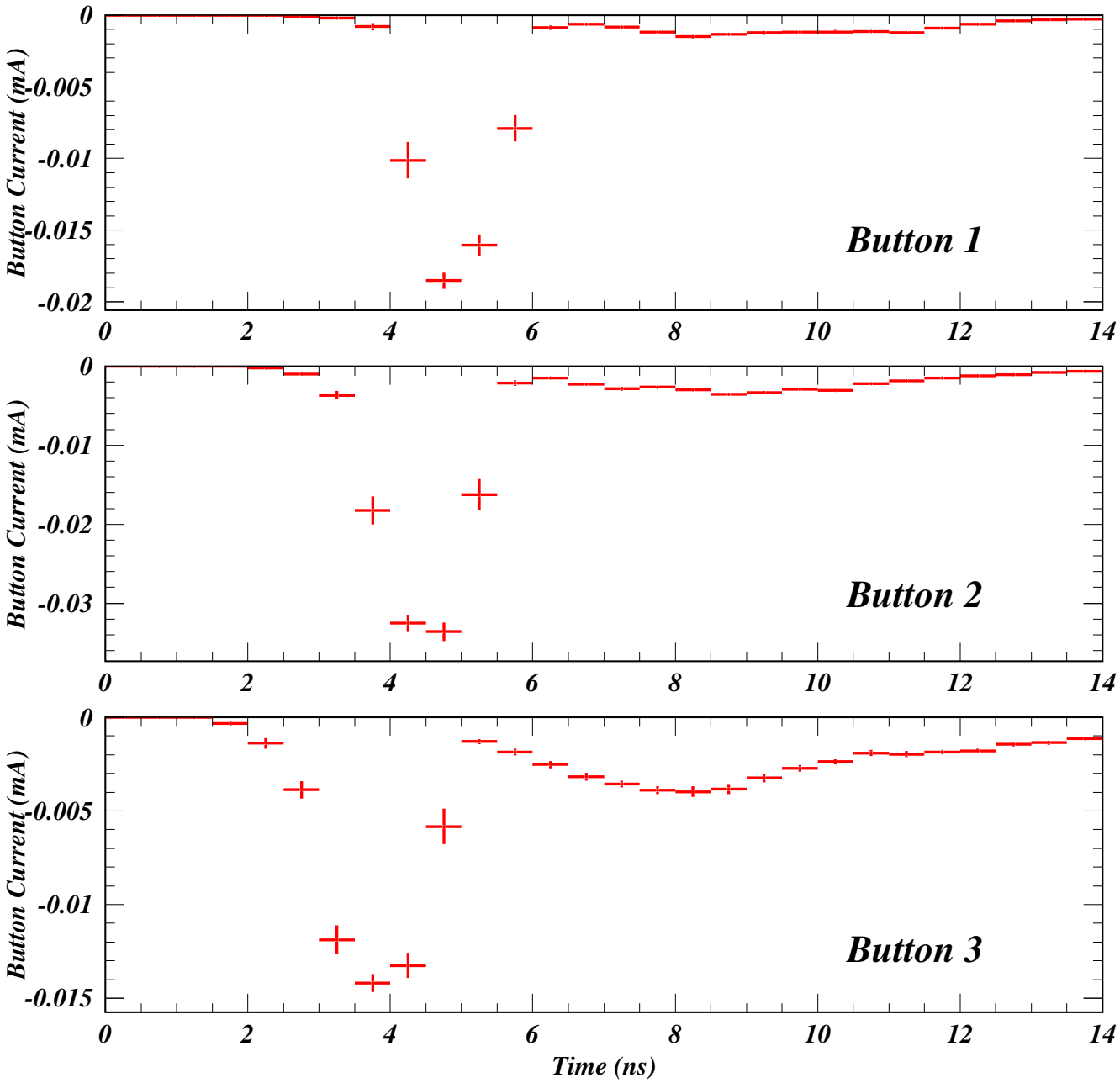
Job 16670: Shielded Button Simulation



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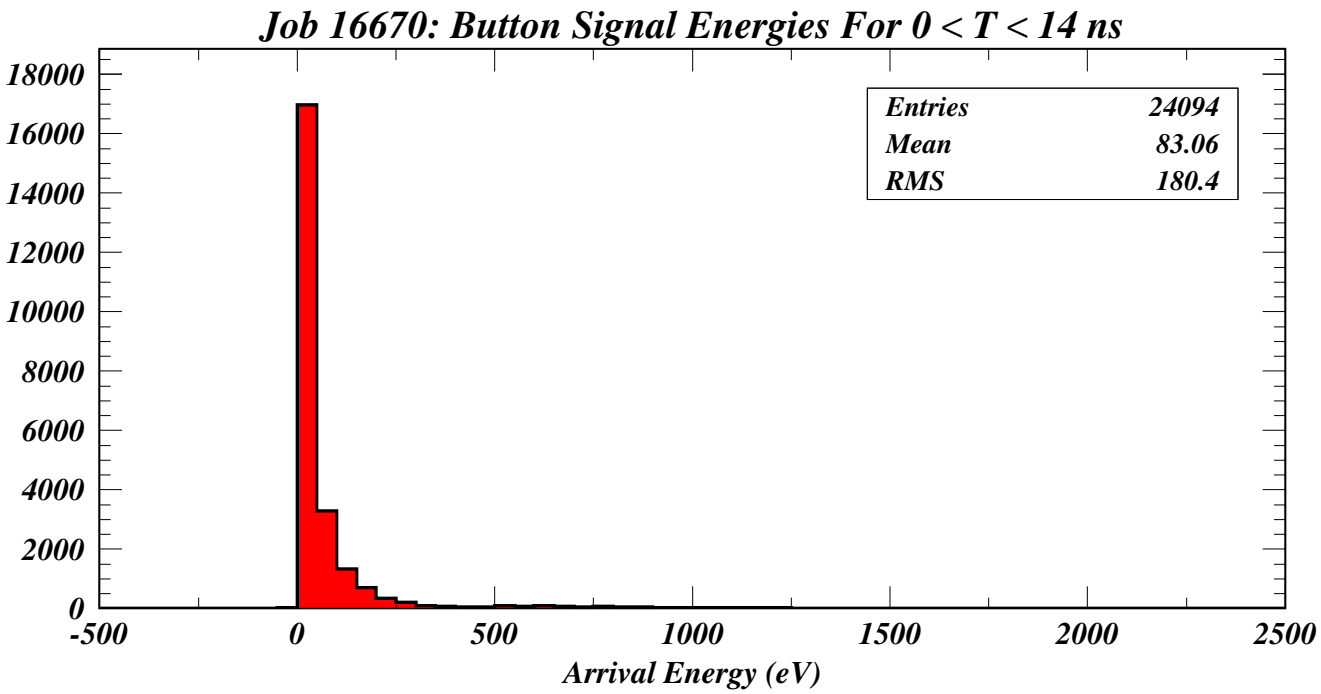
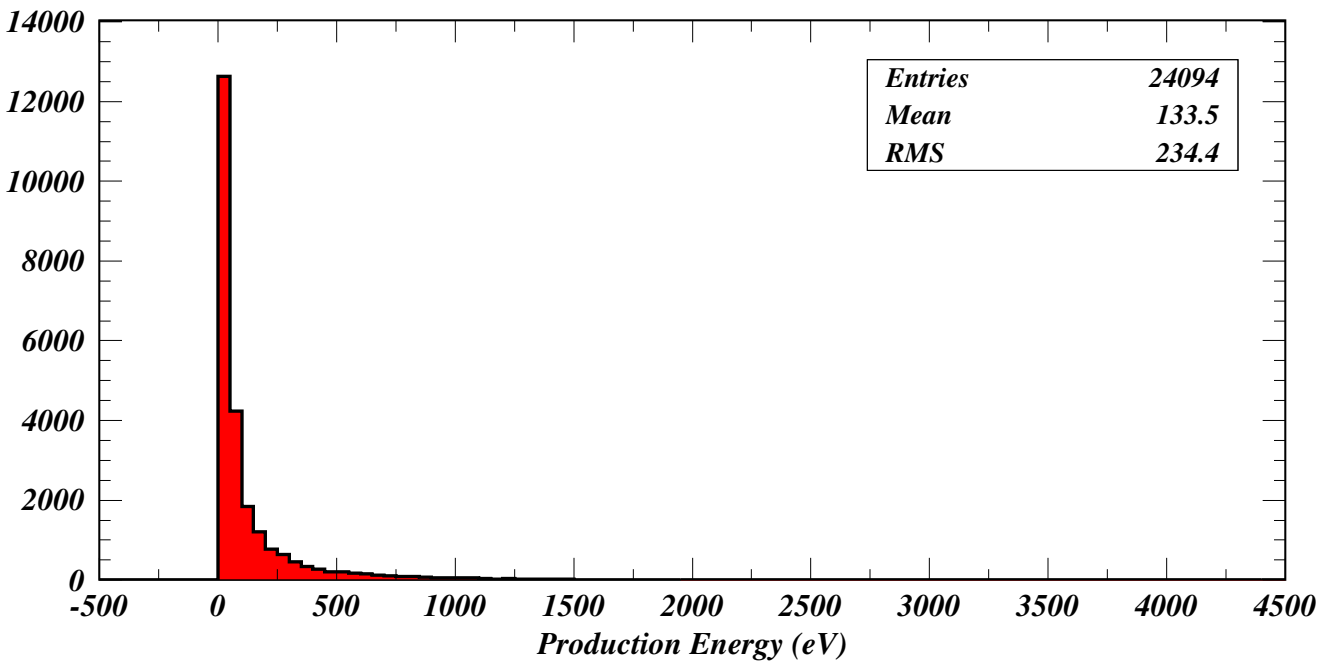

Job 16670: Button Signal Energies For 0 < T < 14 ns
Entries 24094
Mean 83.06
RMS 180.4
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
-500
0
500
1000
1500
2000
2500
Arrival Energy (eV)


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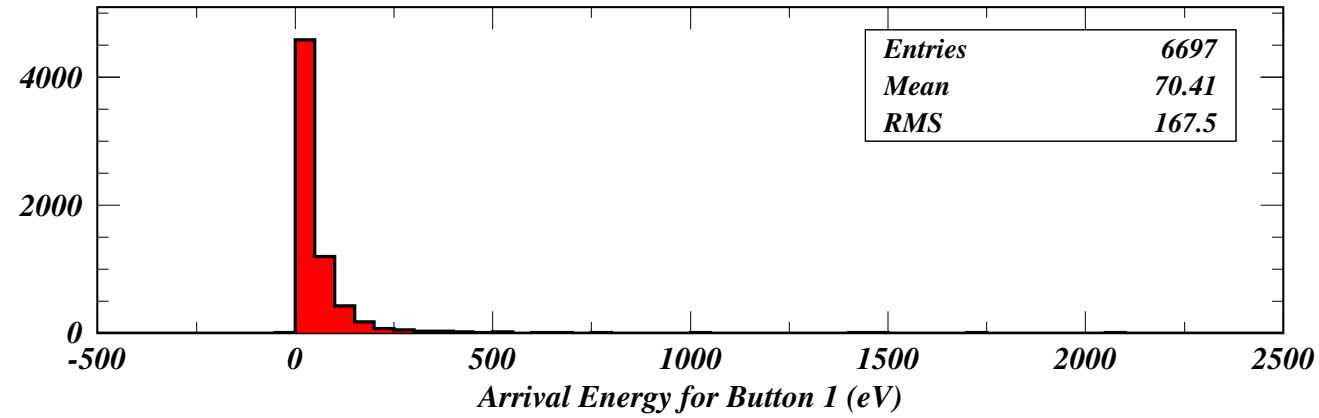
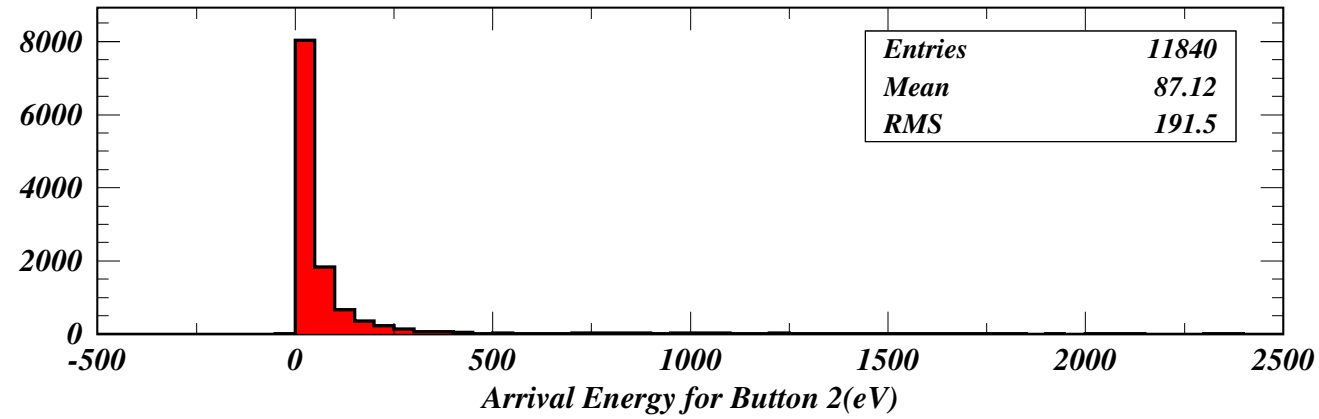
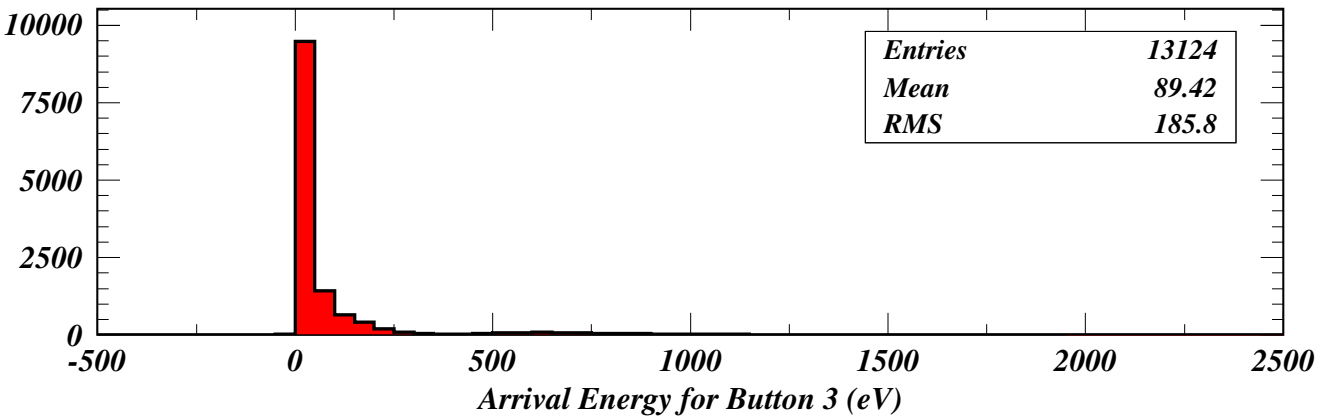
Job 16670: Button Signal Energies For 0 < T < 14 ns







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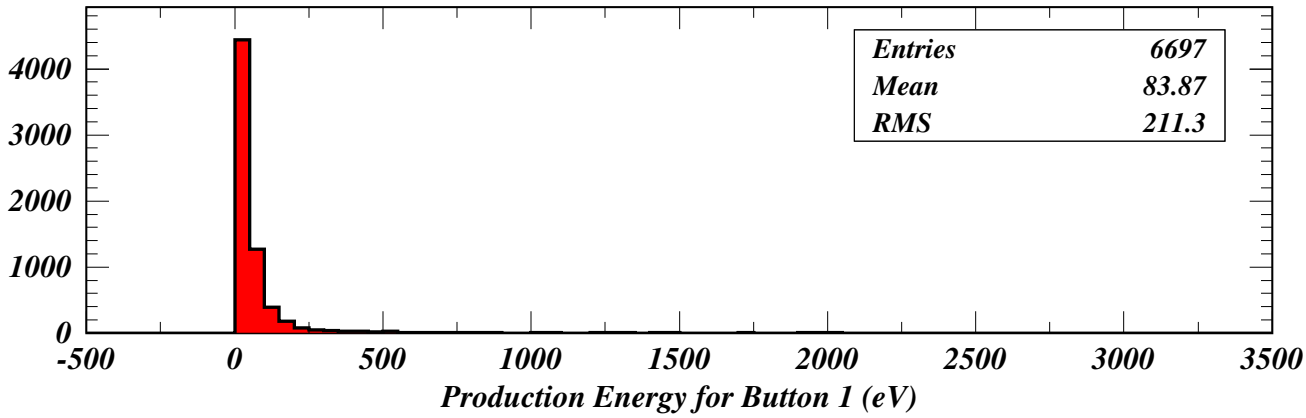
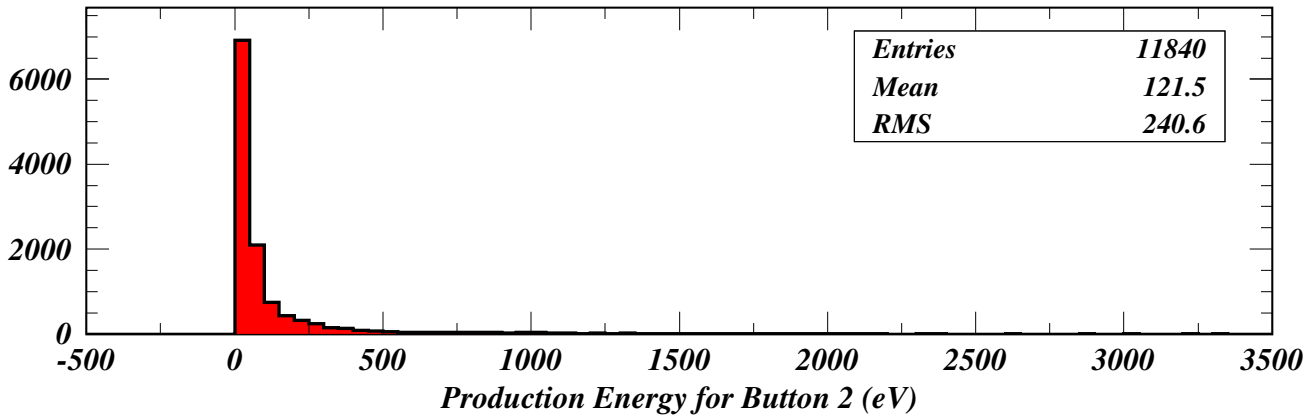
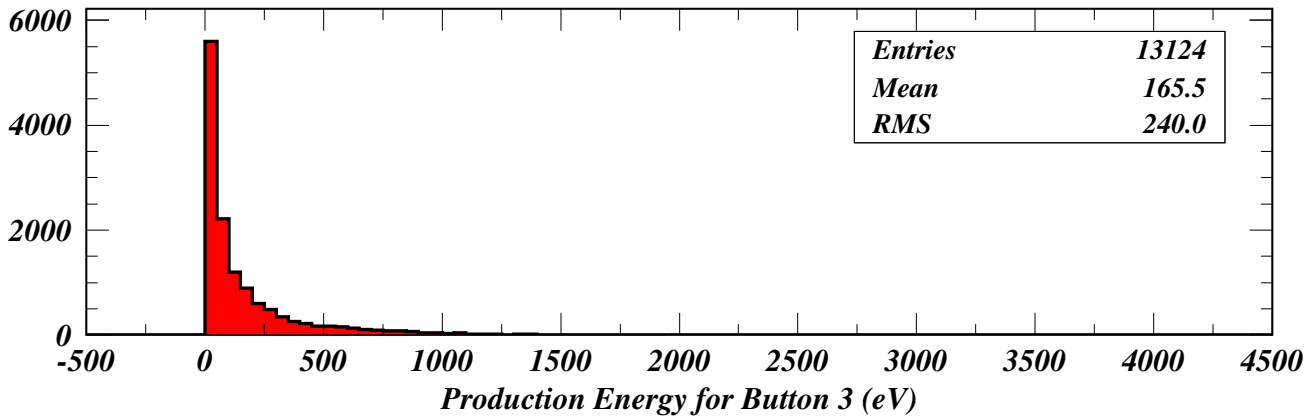
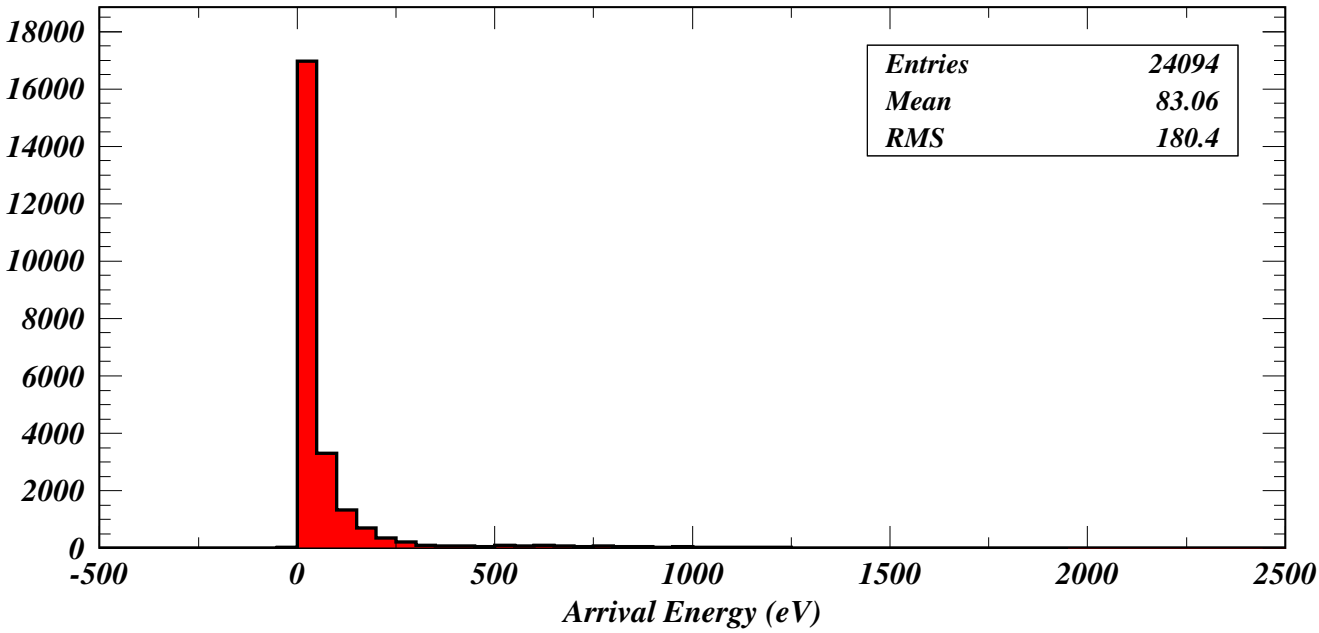
Job 16670: Button Signal Energies For 0 < T < 14 ns

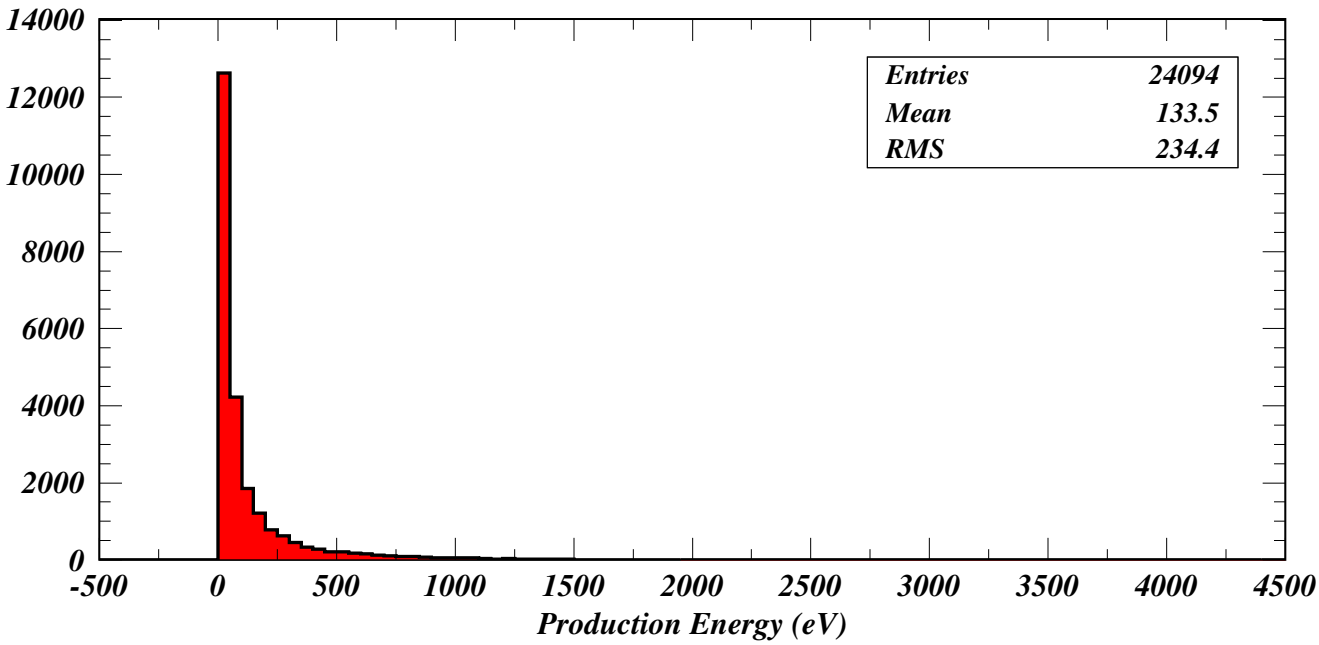




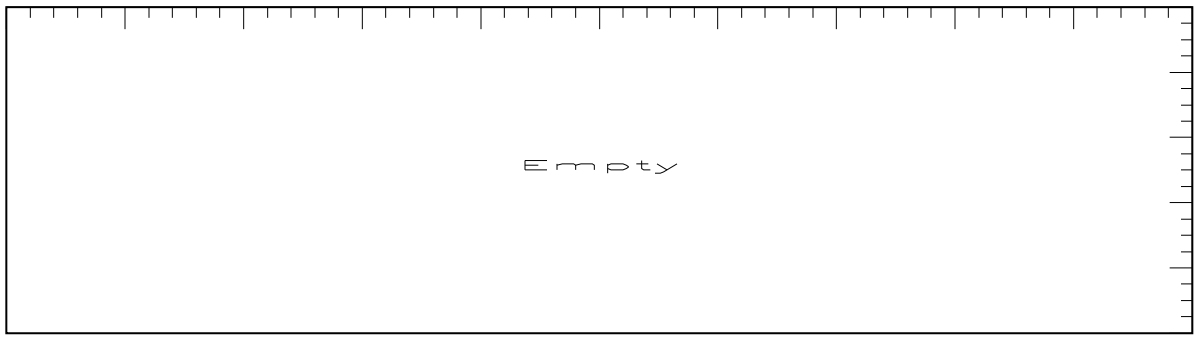


Job 16670: Button Signal Energies For 0 < T < 14 ns: Primaries Only

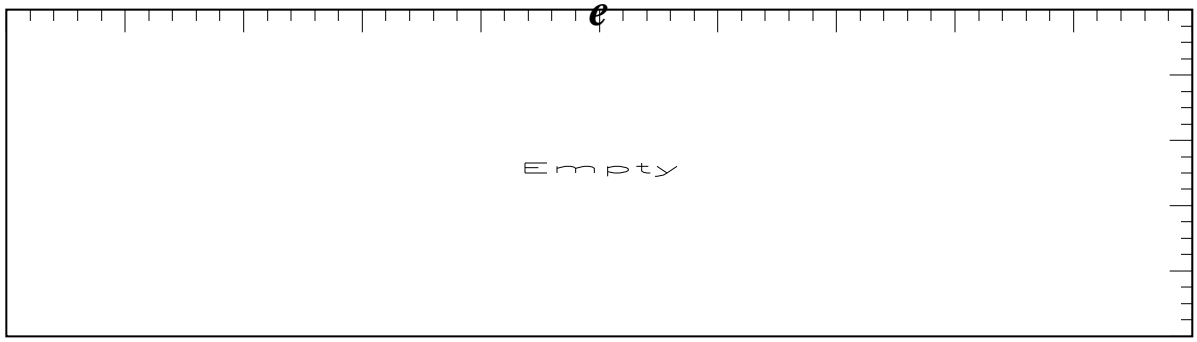




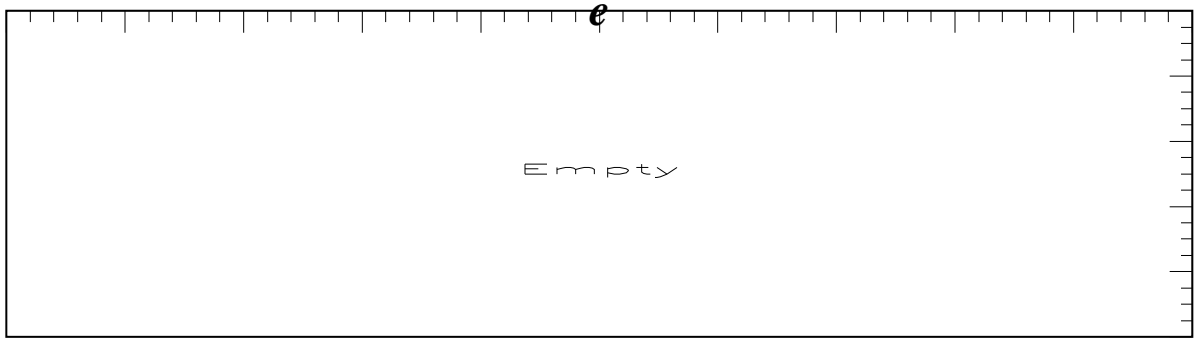
Job 16670: Button Signal Energies For 0 < T < 14 ns: Primaries Only



Arrival Energy for Button 1 (eV)



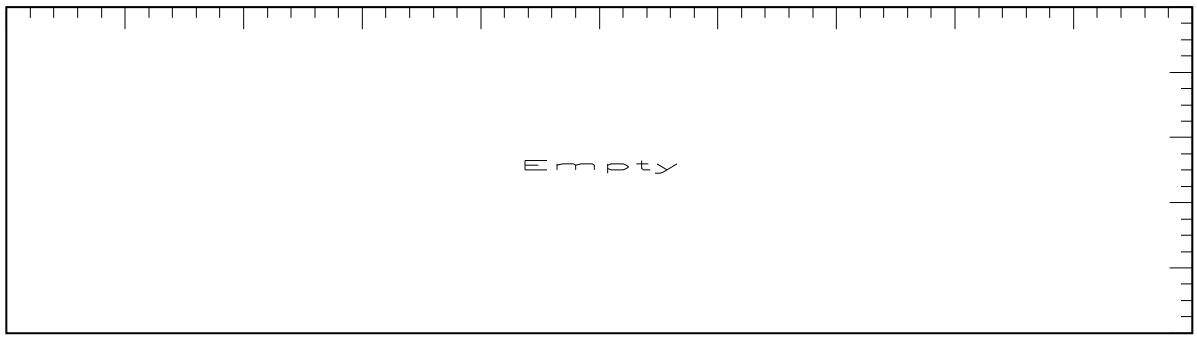
Arrival Energy for Button 2(eV)



Arrival Energy for Button 3 (eV)

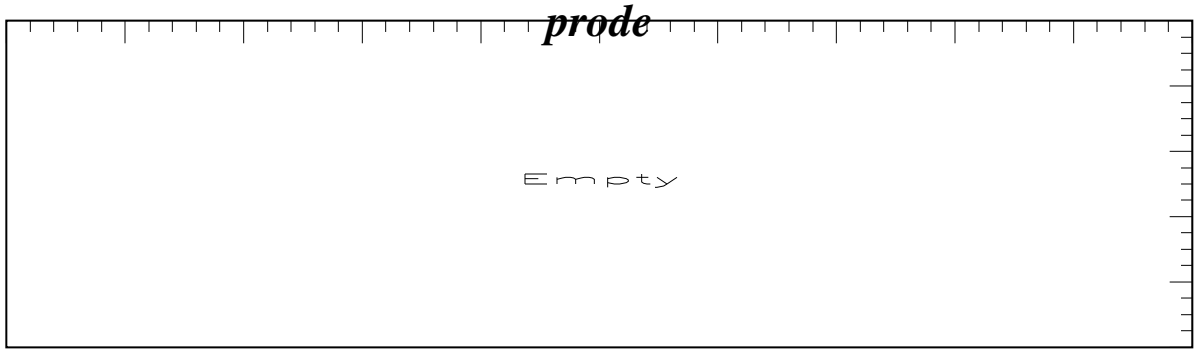
e

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



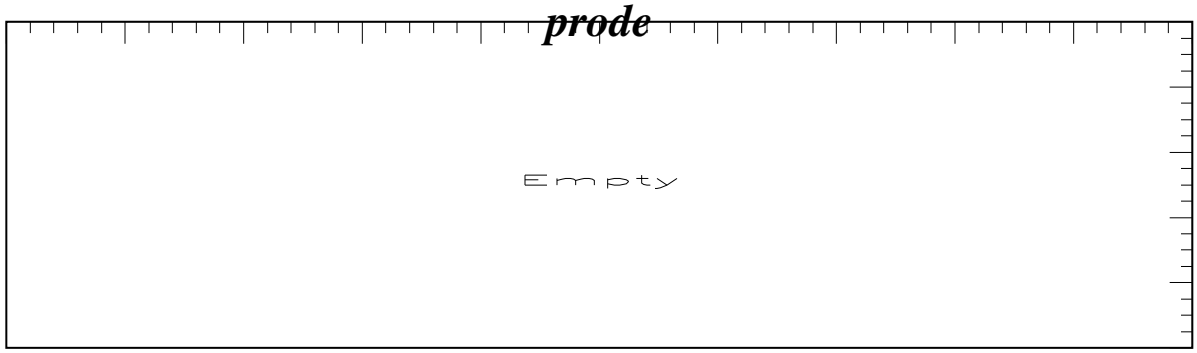
Production Energy for Button 1 (eV)

prode



Production Energy for Button 2 (eV)

prode



Production Energy for Button 3 (eV)

prode

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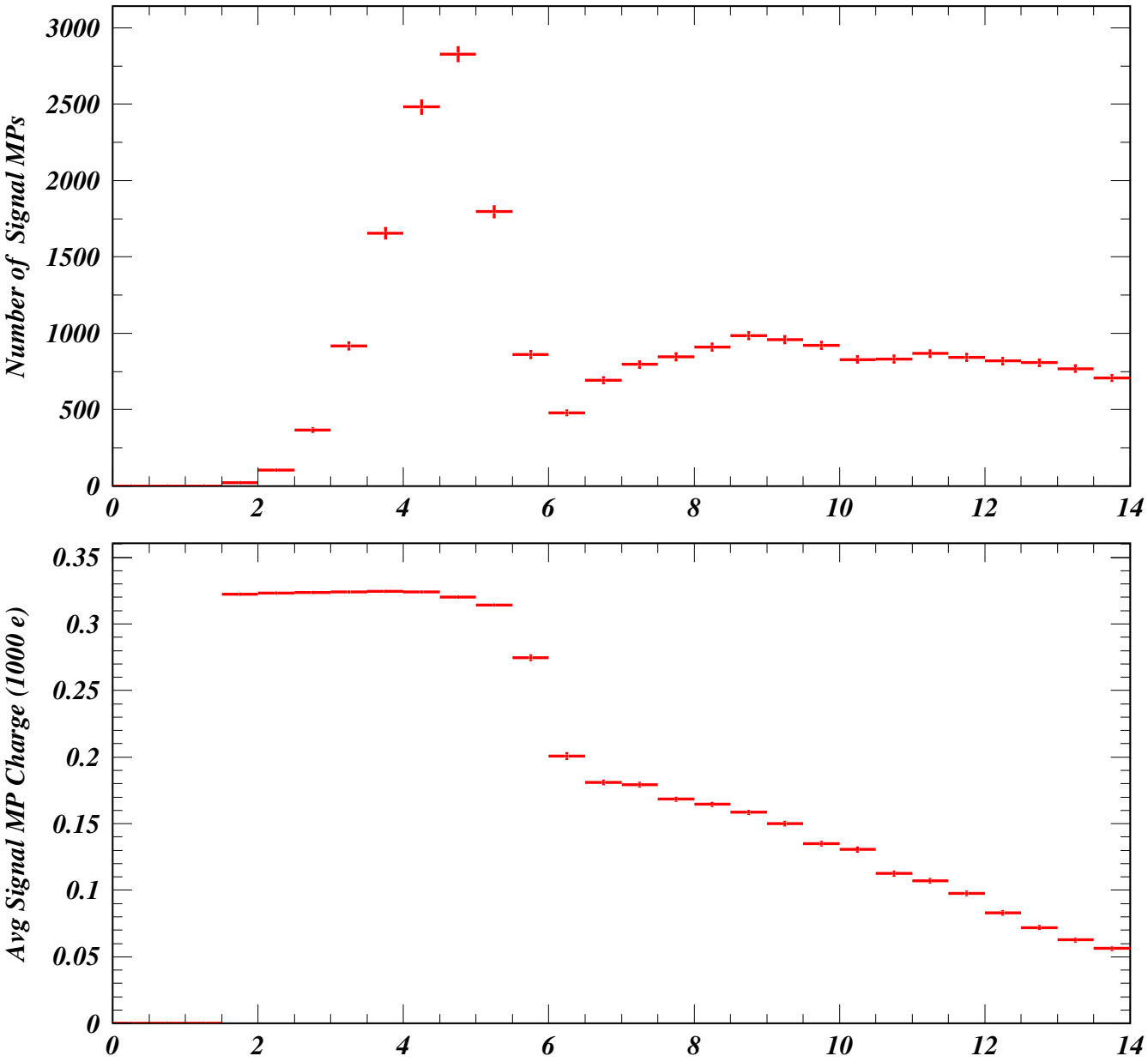
Job 16670: Button Signal Macroparticles For 0 < T < 14 ns



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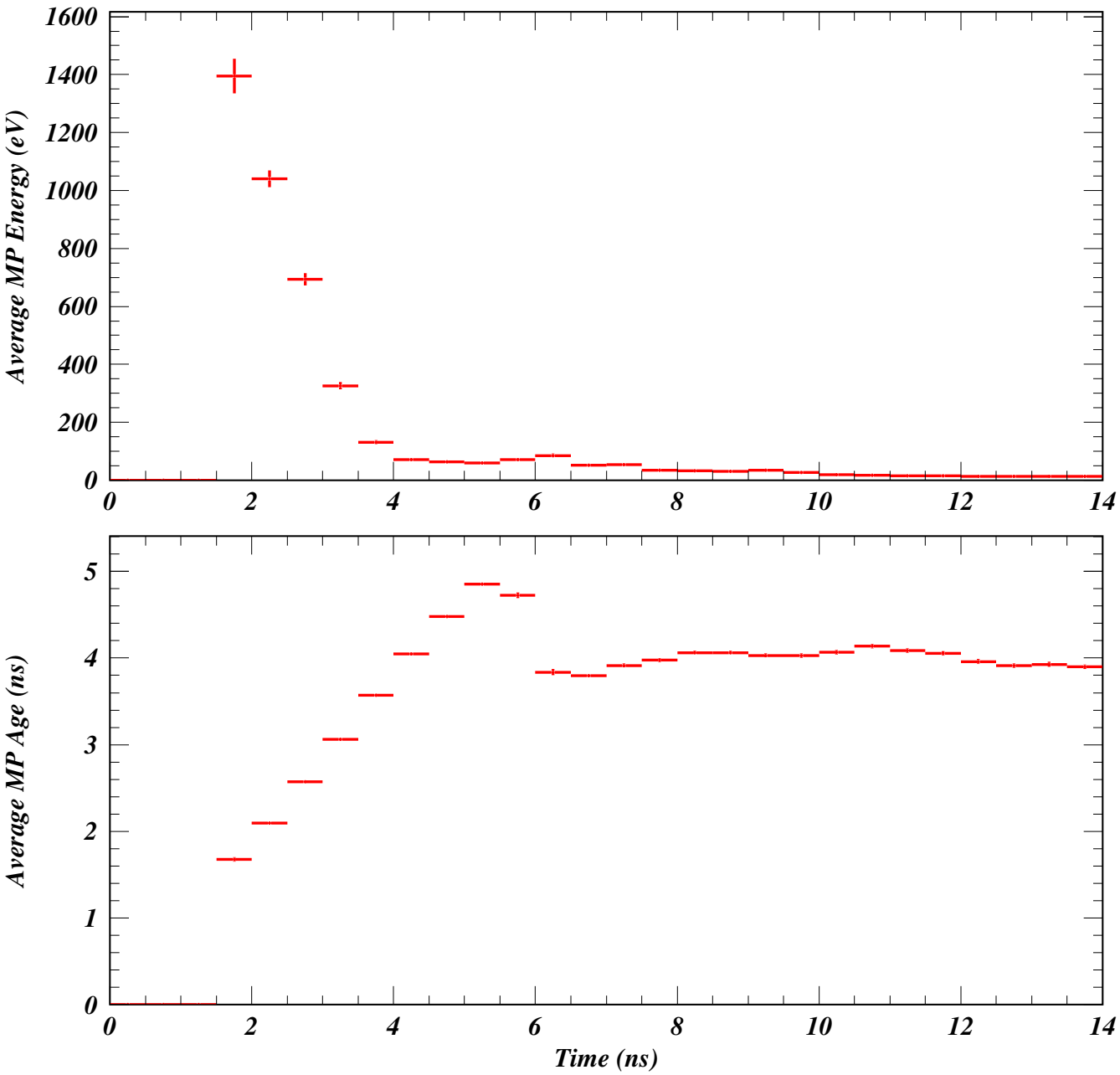
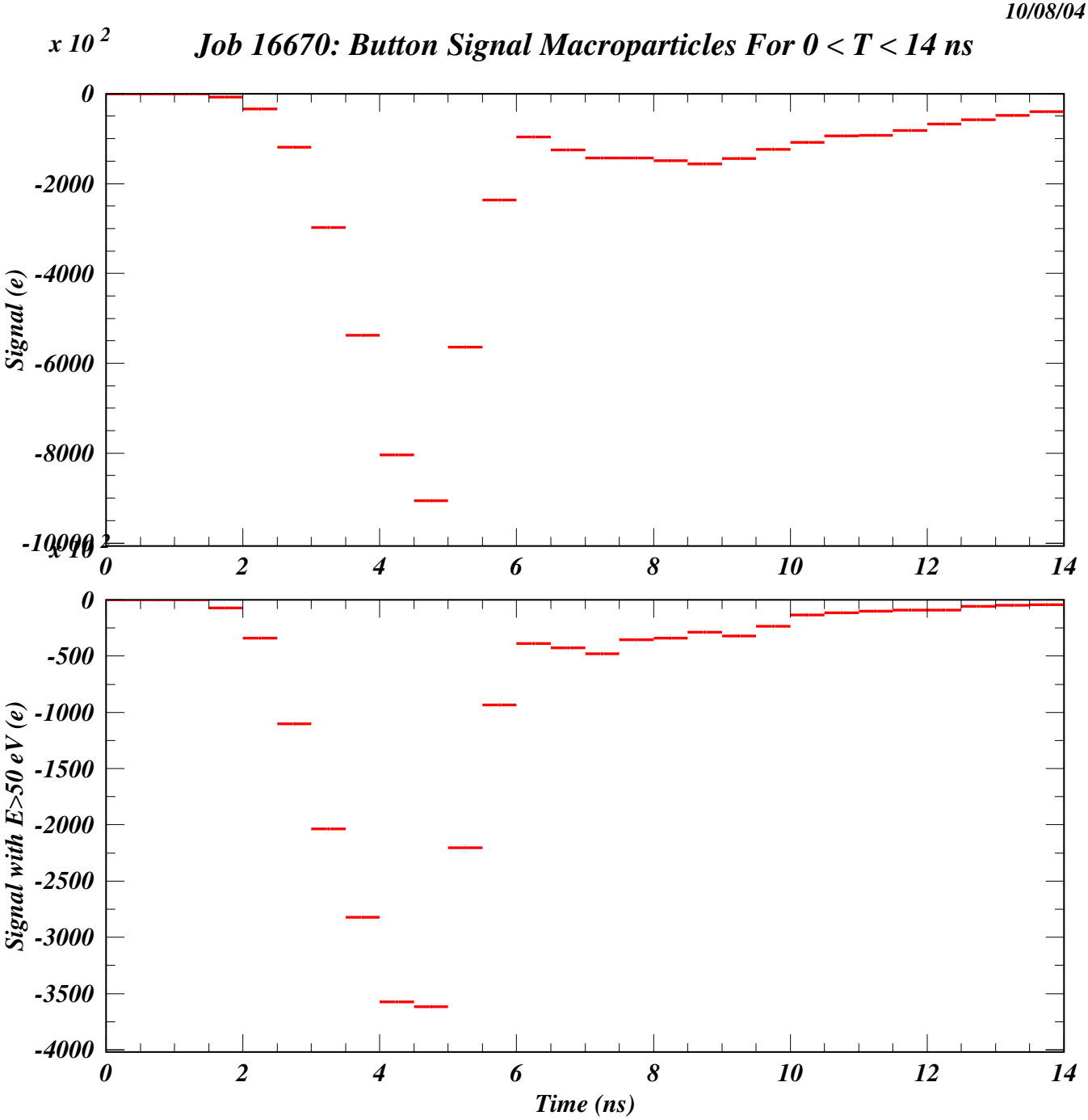
Job 16670: Button Signal Macroparticles For 0 < T < 14 ns




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

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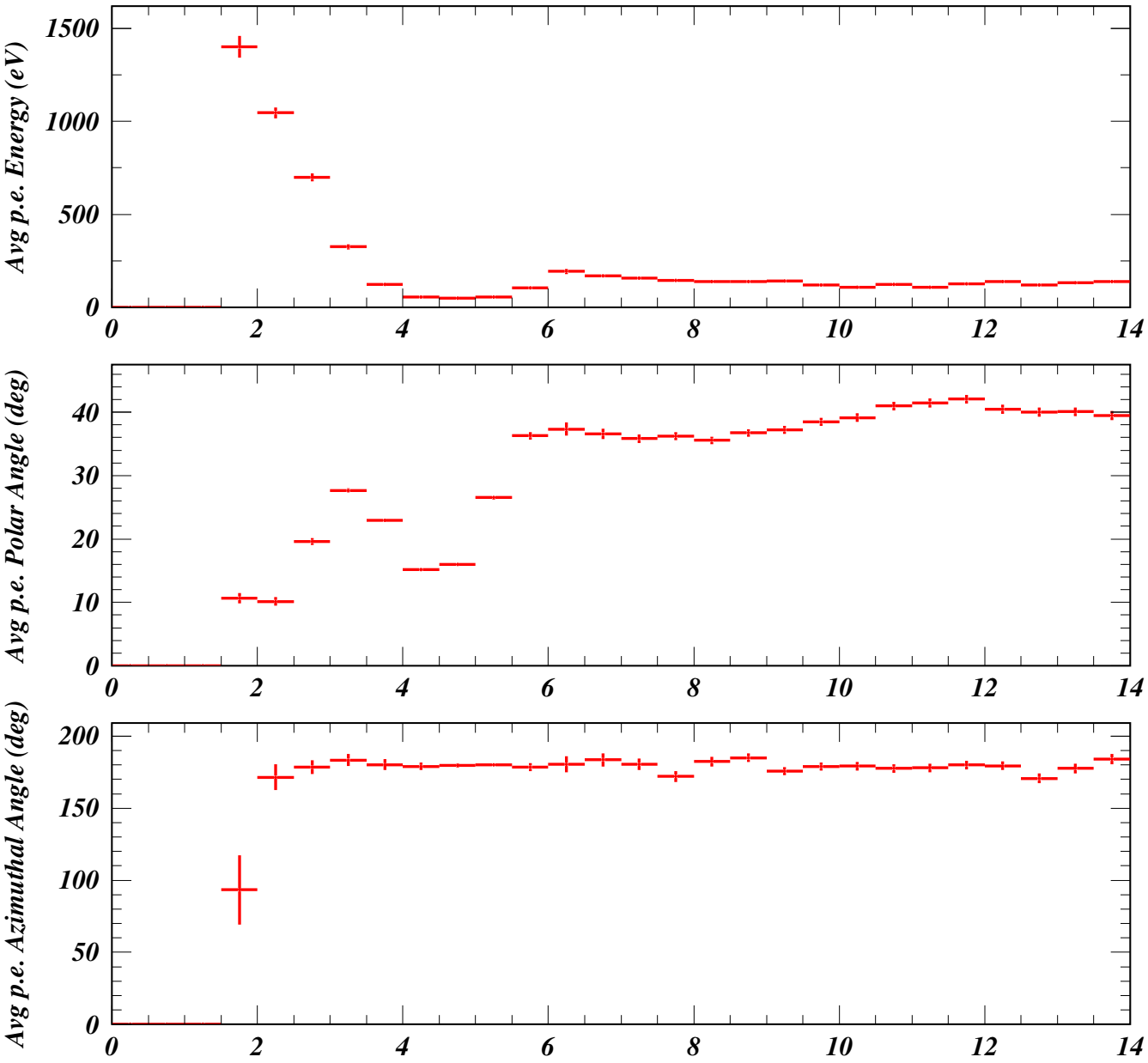
Job 16670: Button Signal Macroparticles For 0 < T < 14 ns



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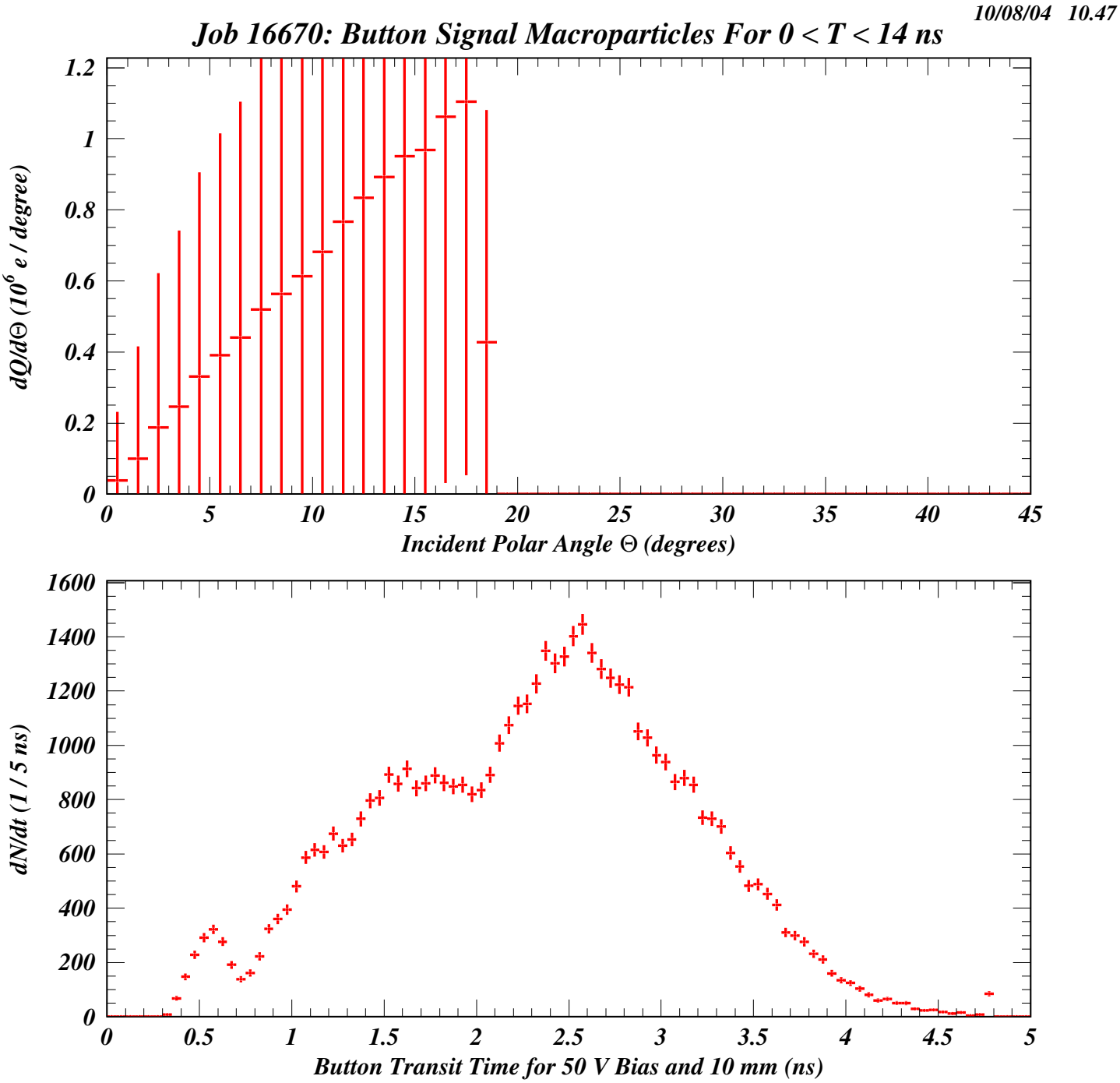
Job 16670: Button Signal Macroparticles For 0 < T < 14 ns
dQ/dΘ (10^6 e / degree)
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
25
30
35
40
45
Incident Polar Angle Θ (degrees)
dN/dt (1 / 5 ns)
1600
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Button Transit Time for 50 V Bias and 10 mm (ns)

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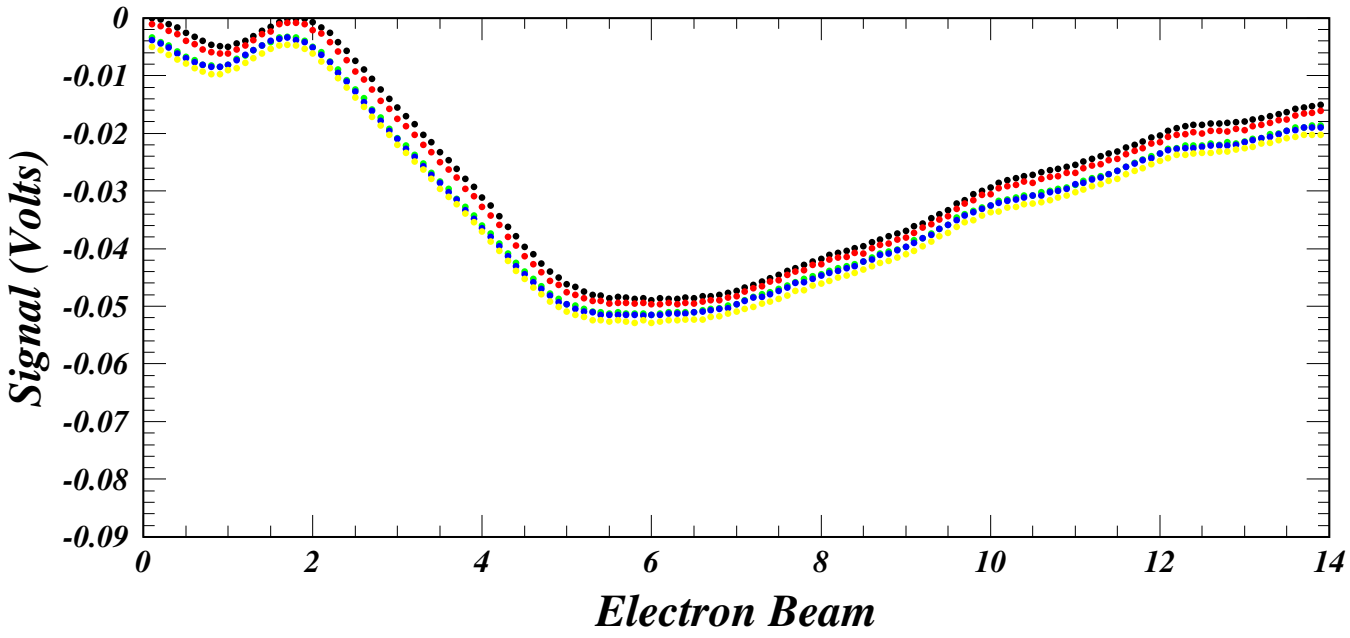
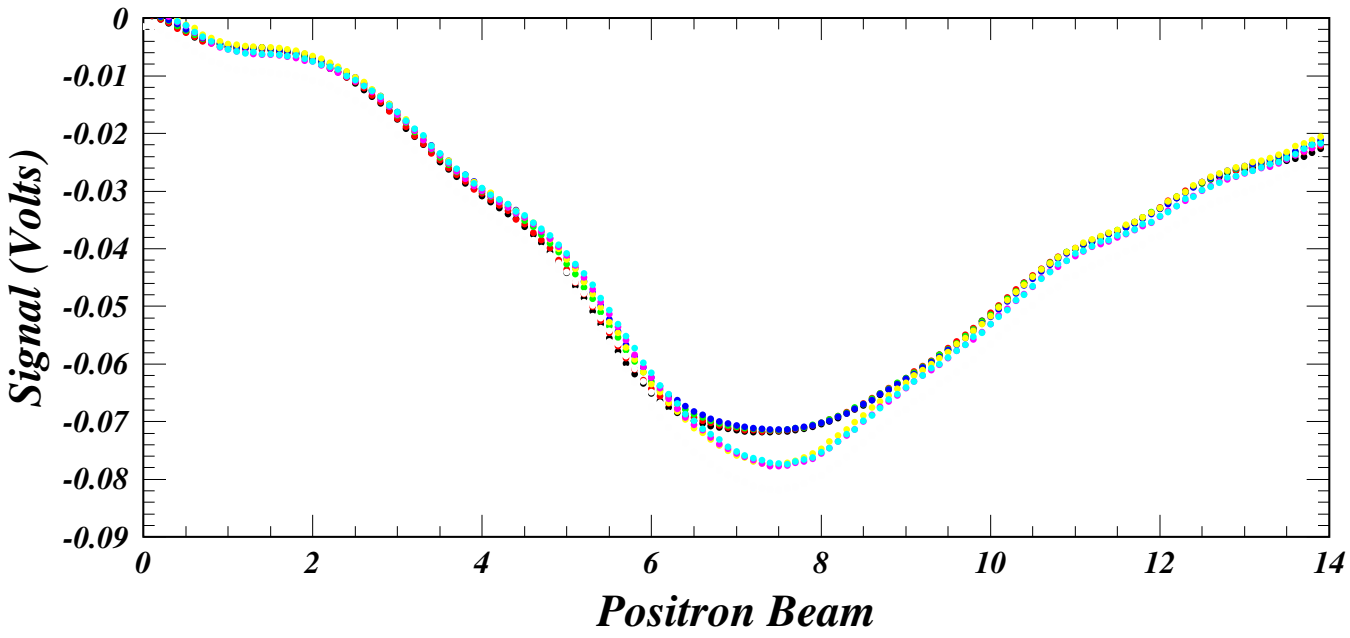
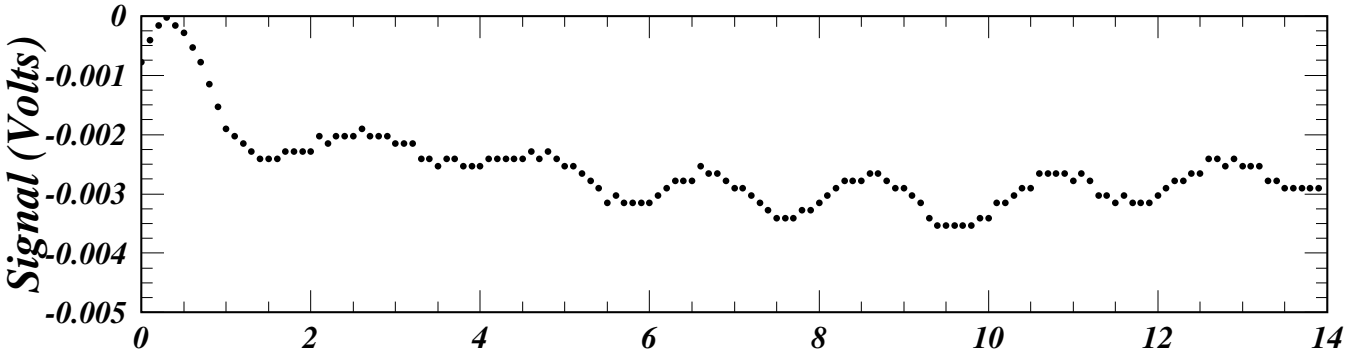
15E (TiN) Shielded Button Measurements (3/16/2010, 5.3 GeV, 8 mA bunch)



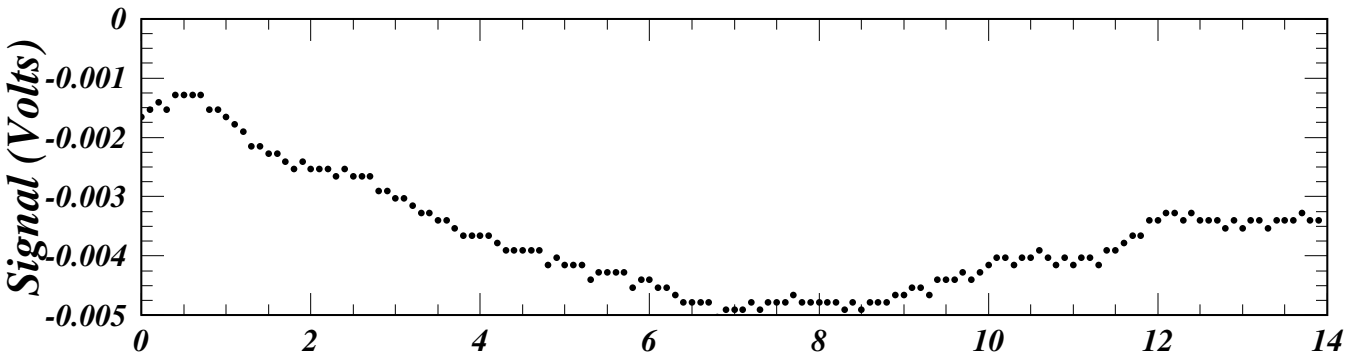


10/08/04 10.47

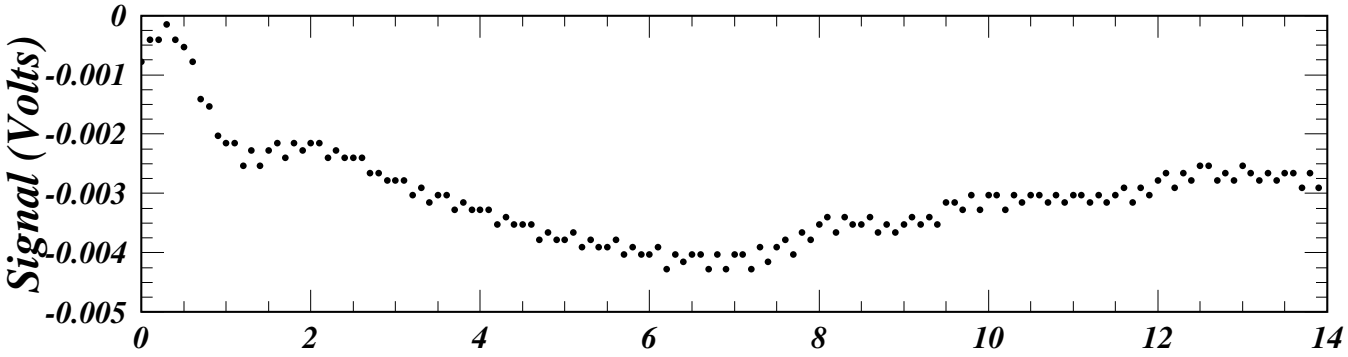
15E (Carbon) SPU Measurements (6/8/2010, 5.3 GeV e-, 1 mA, 5 G)



Button 1



Button 2



Button 3

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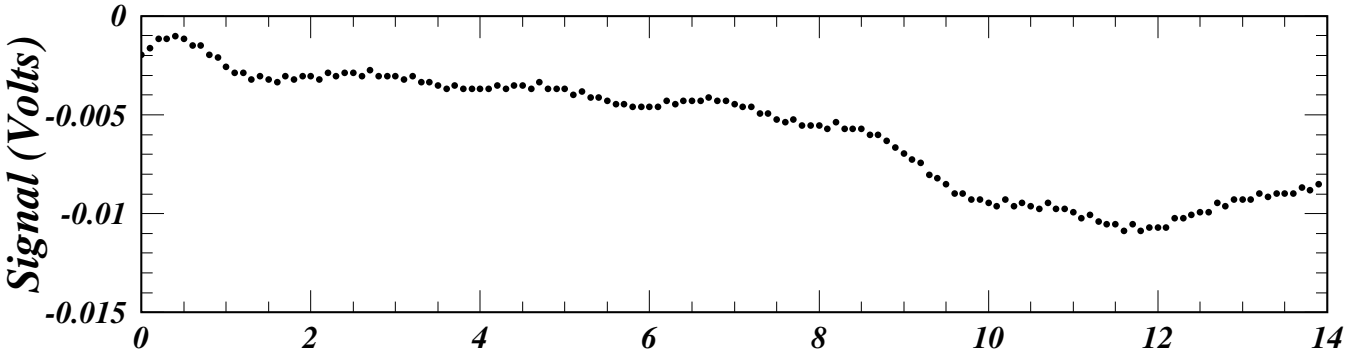
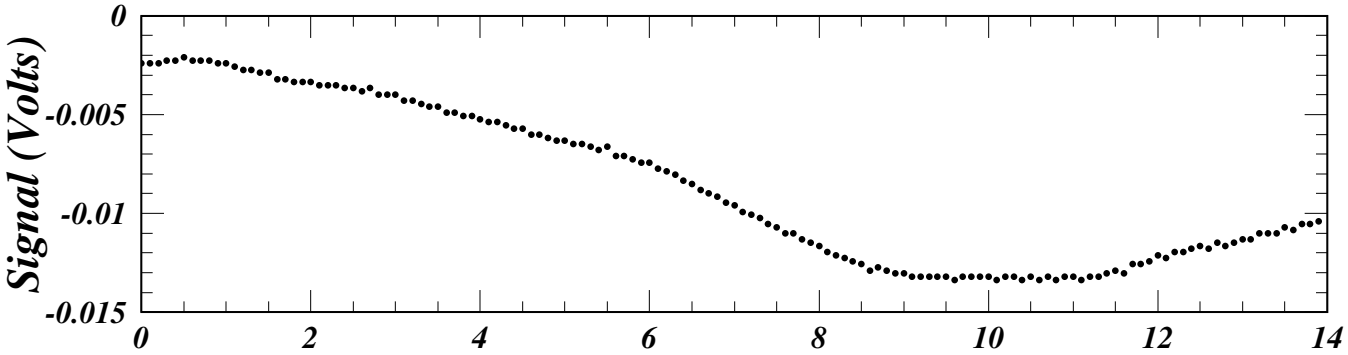
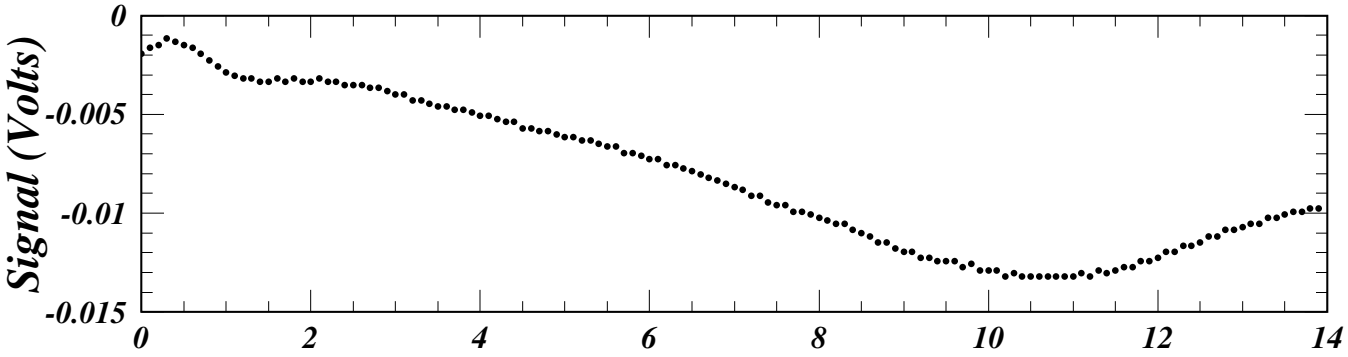
15E (Carbon) SPU Measurements (6/8/2010, 5.3 GeV e-, 1 mA, 10 G)



Button 1



Button 2



Button 3

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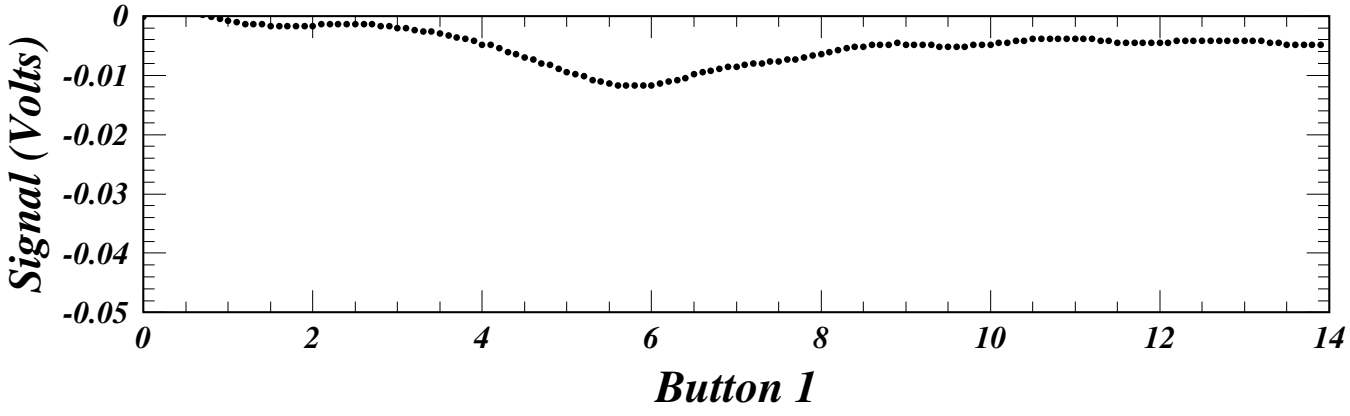
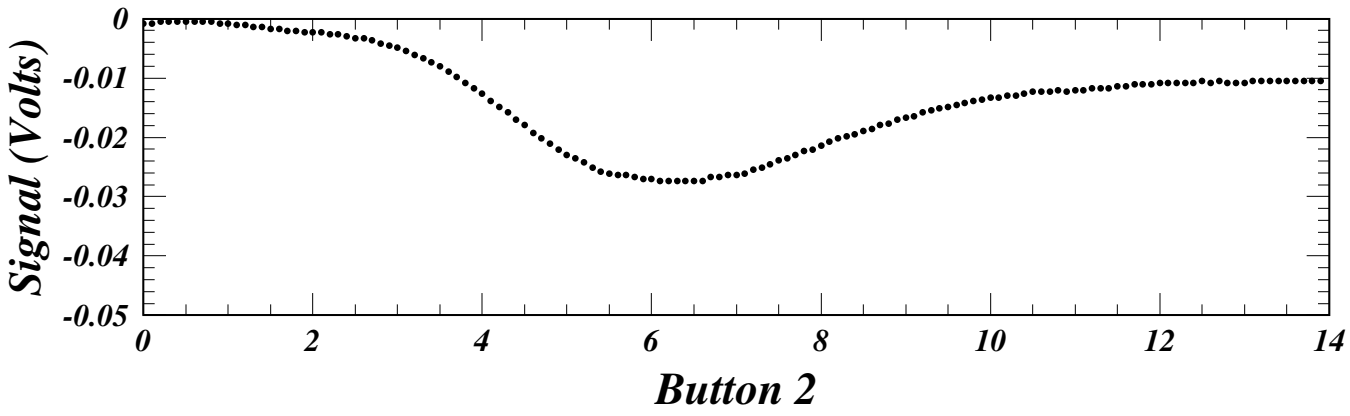
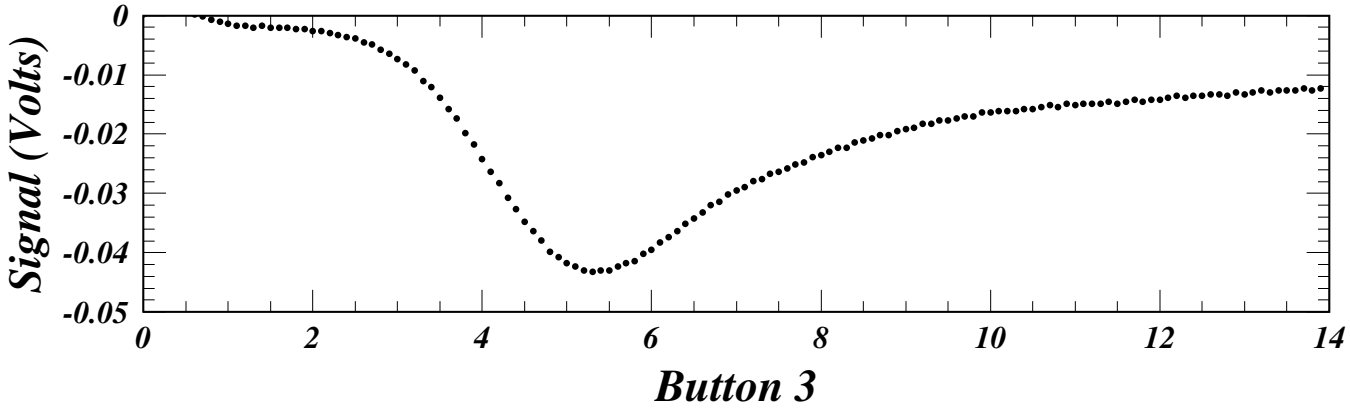
15E (Carbon) SPU Measurements (6/8/2010, 5.3 GeV e-, 1 mA, 20 G)



Button 1



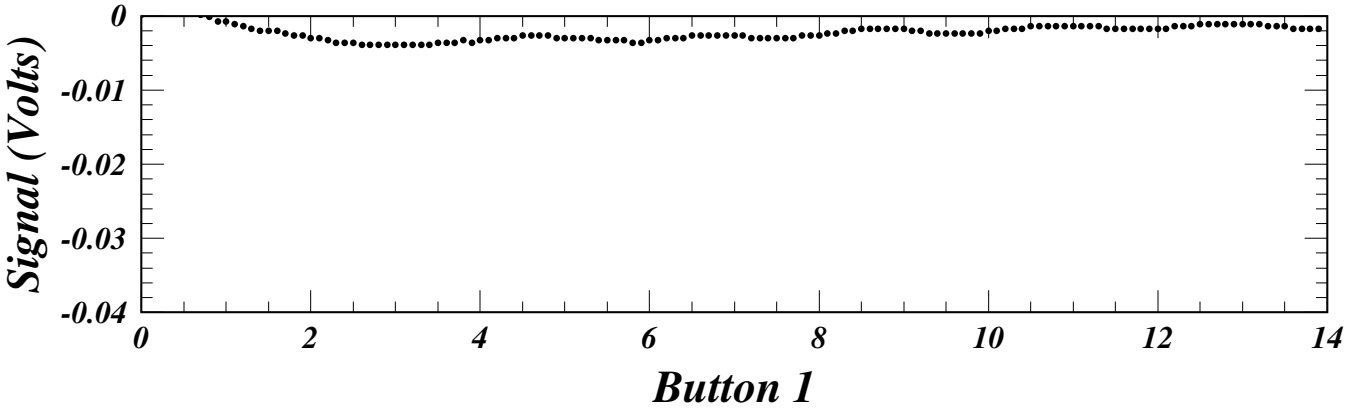
Button 2



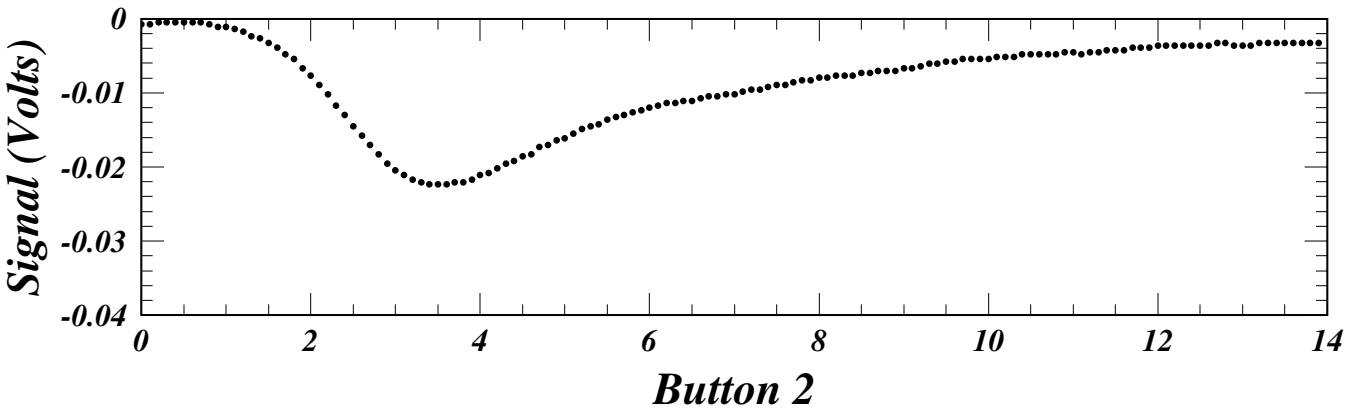
Button 3

10/08/04 10.47

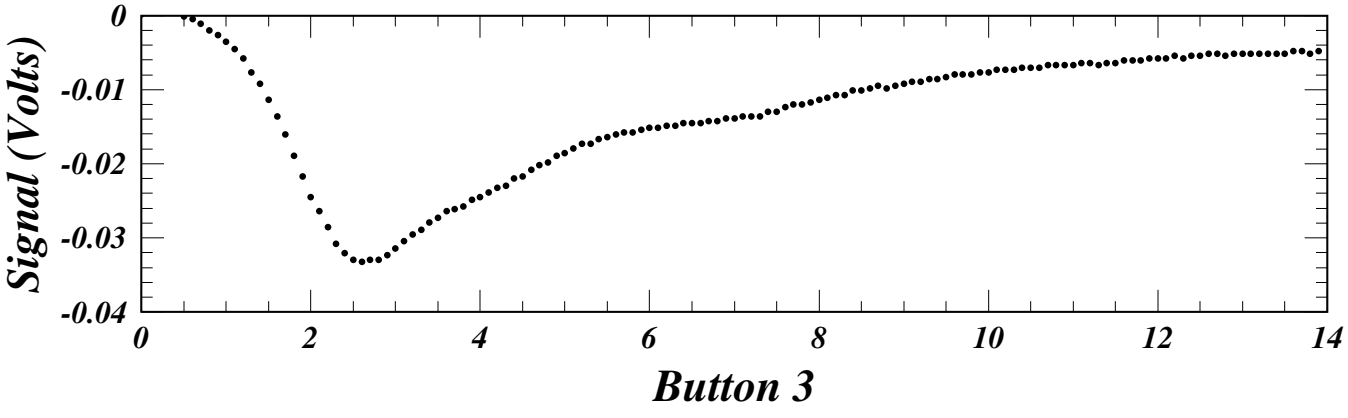
15E (Carbon) SPU Measurements (6/8/2010, 5.3 GeV e-, 1 mA, 40 G)



Button 1



Button 2



Button 3

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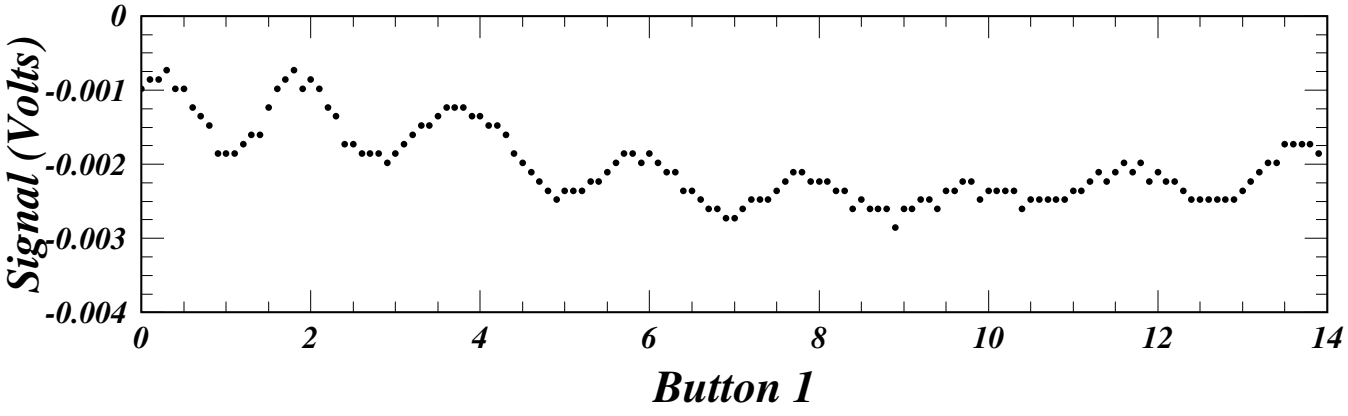
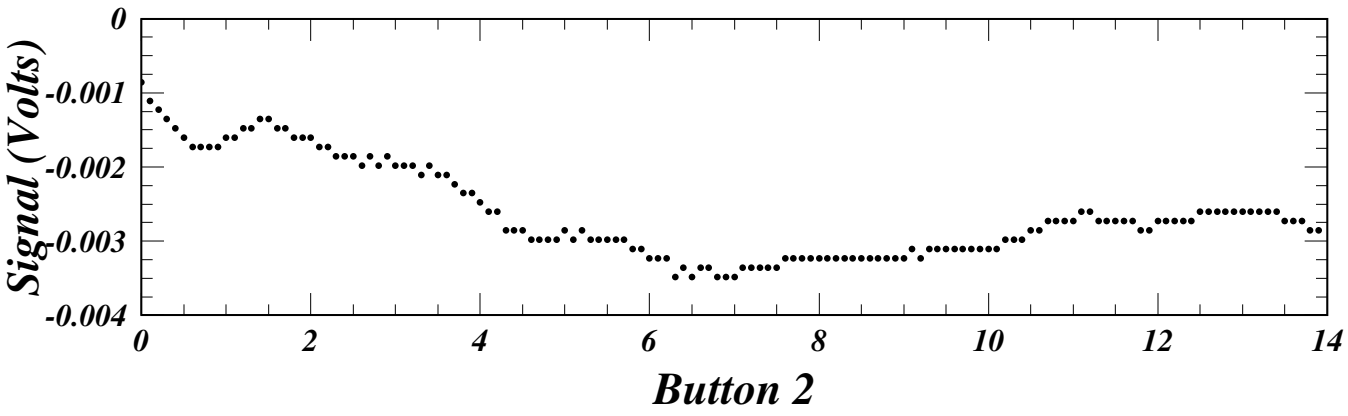
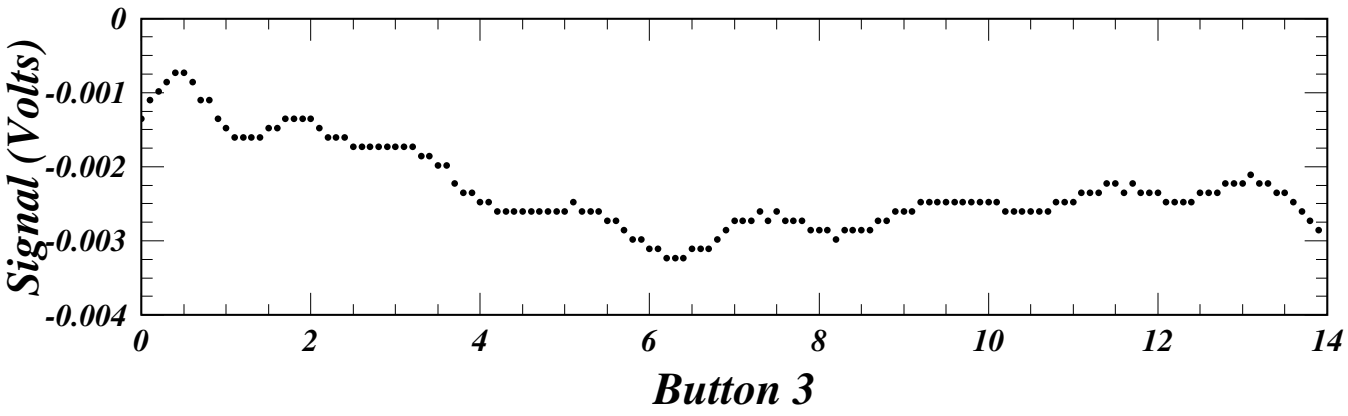
15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e+, 1 mA, 5 G)



Button 1



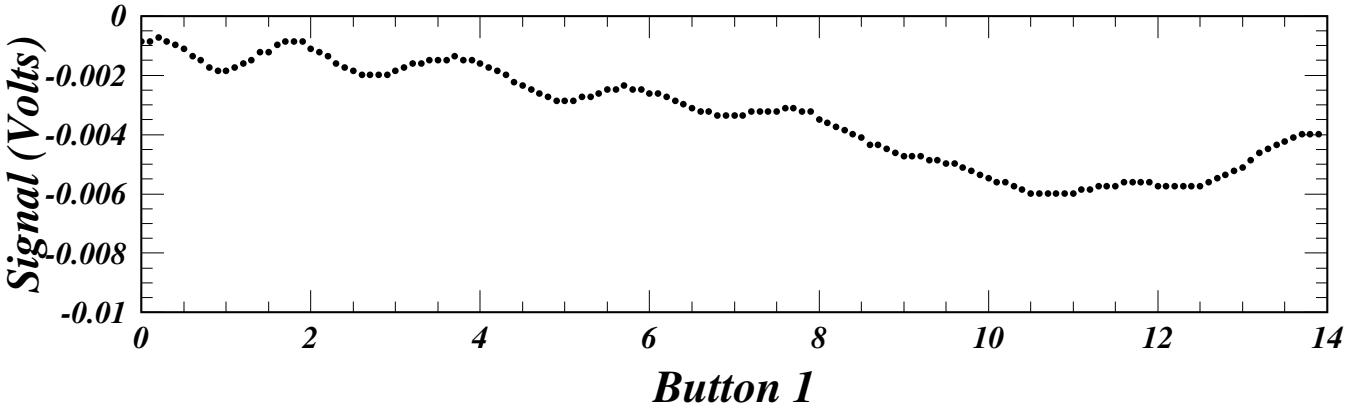
Button 2



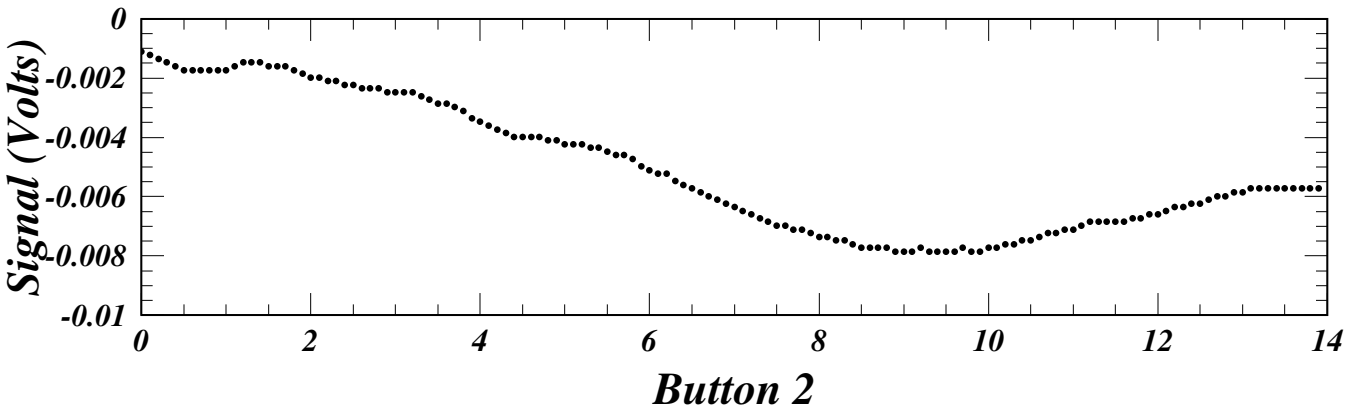
Button 3

10/08/04 10.47

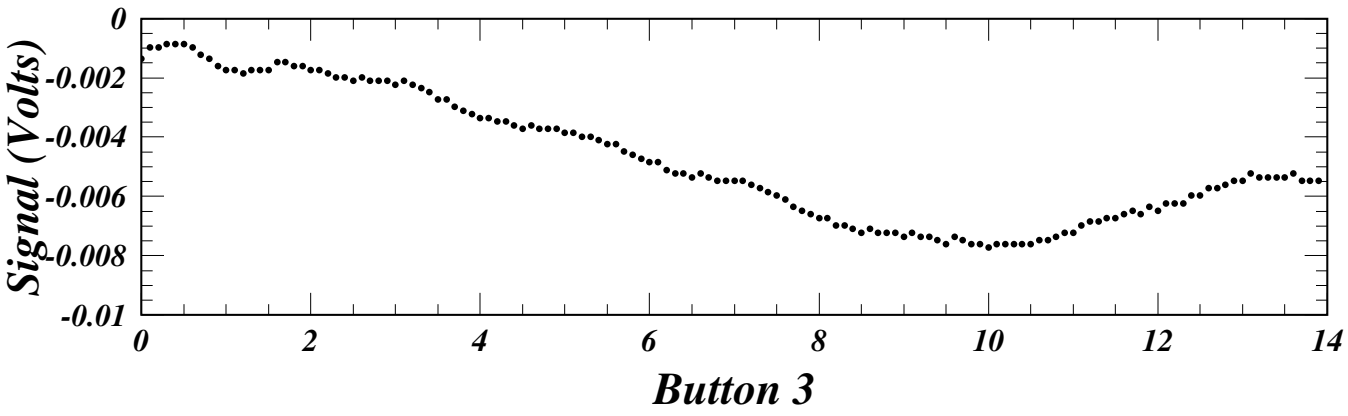
15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e+, 1 mA, 10 G)



Button 1



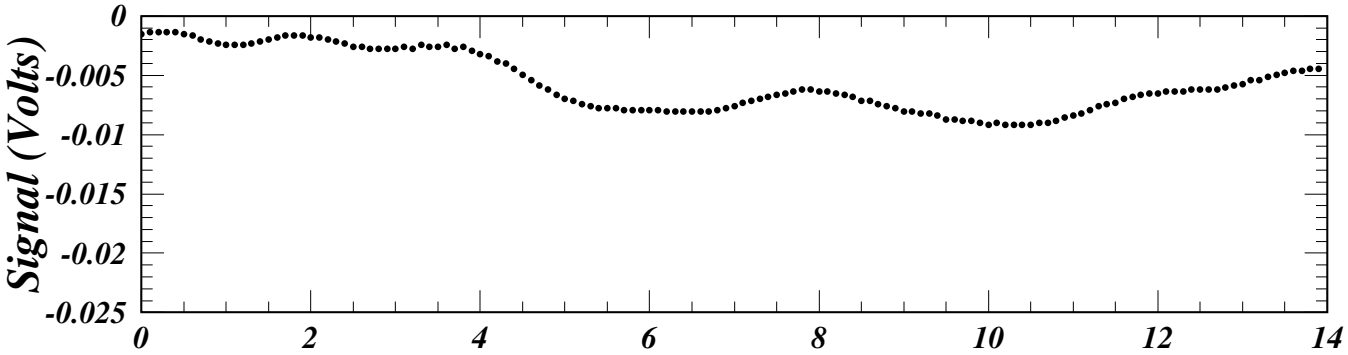
Button 2



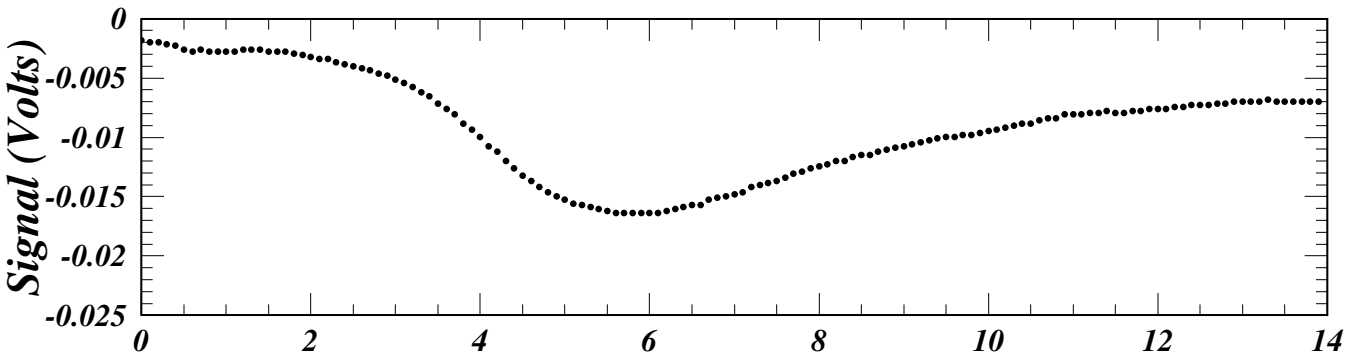
Button 3

10/08/04 10.47

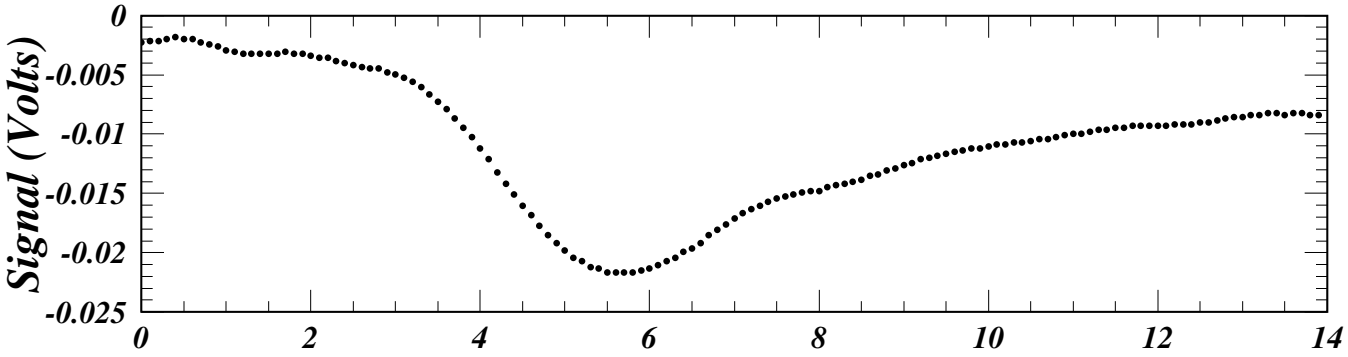
15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e+, 1 mA, 20 G)



Button 1



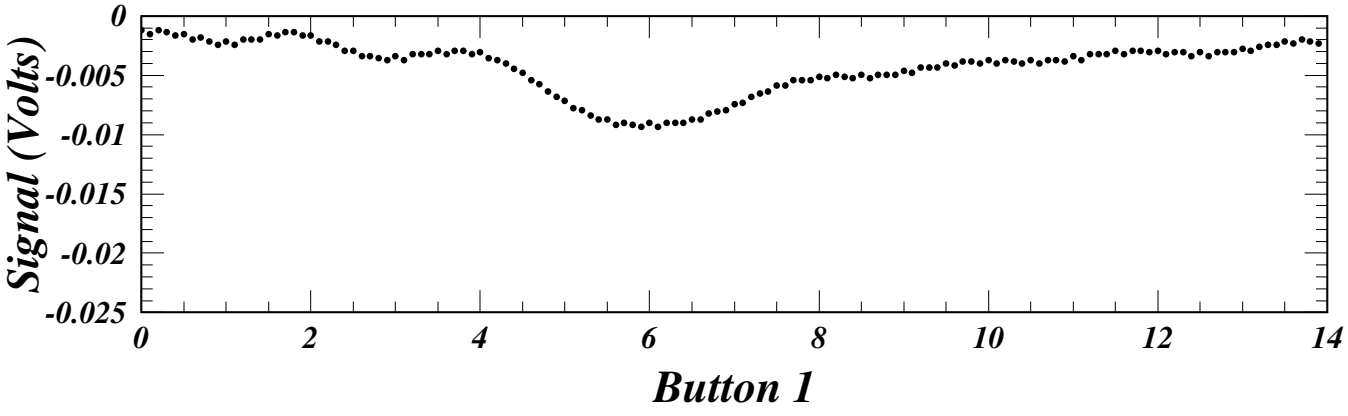
Button 2



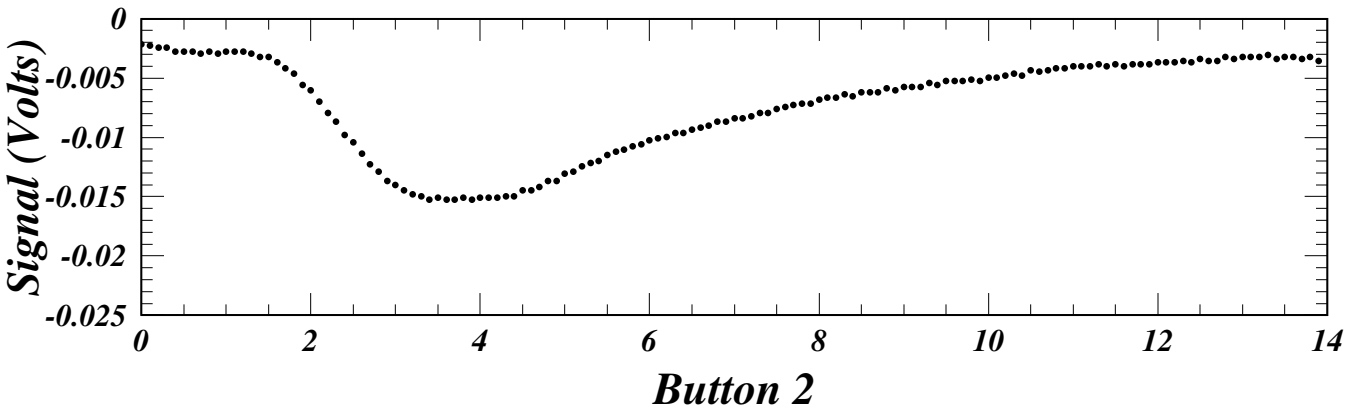
Button 3

10/08/04 10.47

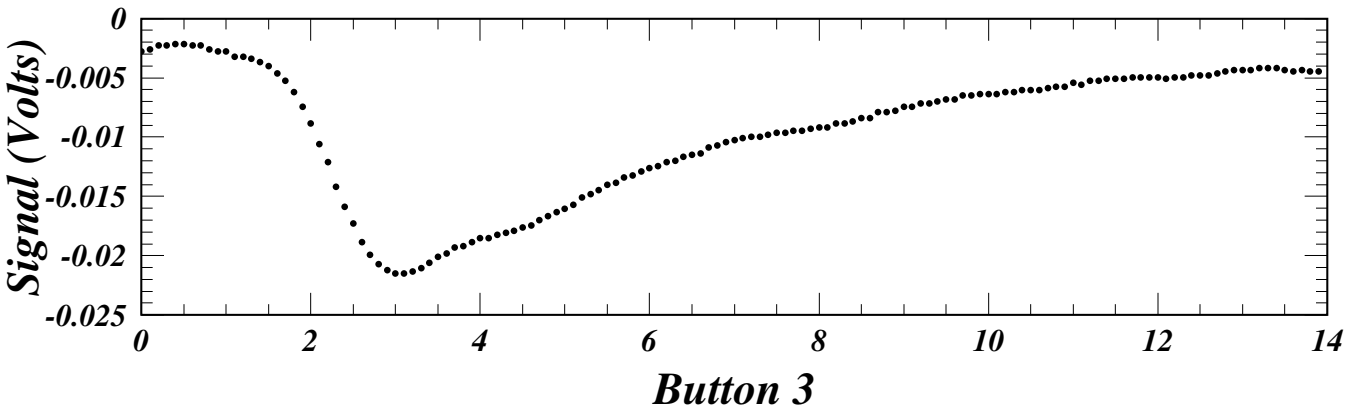
15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e+, 1 mA, 40 G)



Button 1



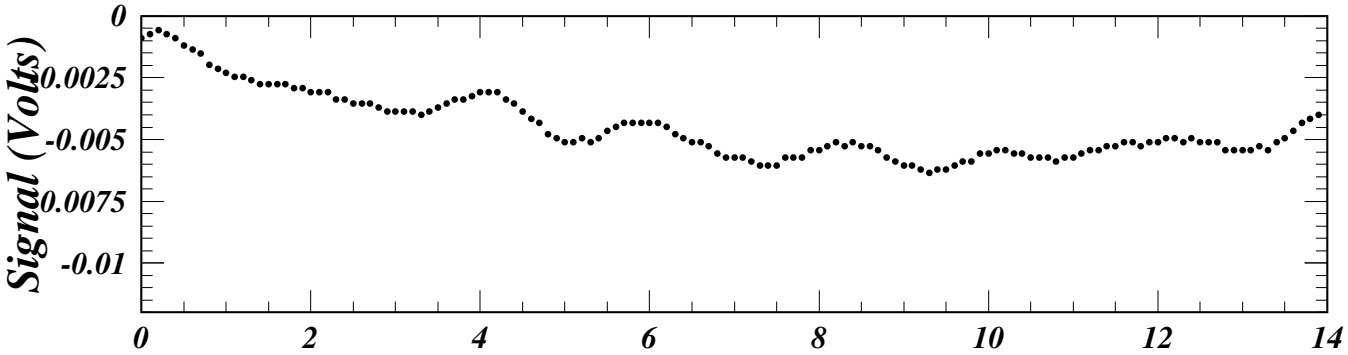
Button 2



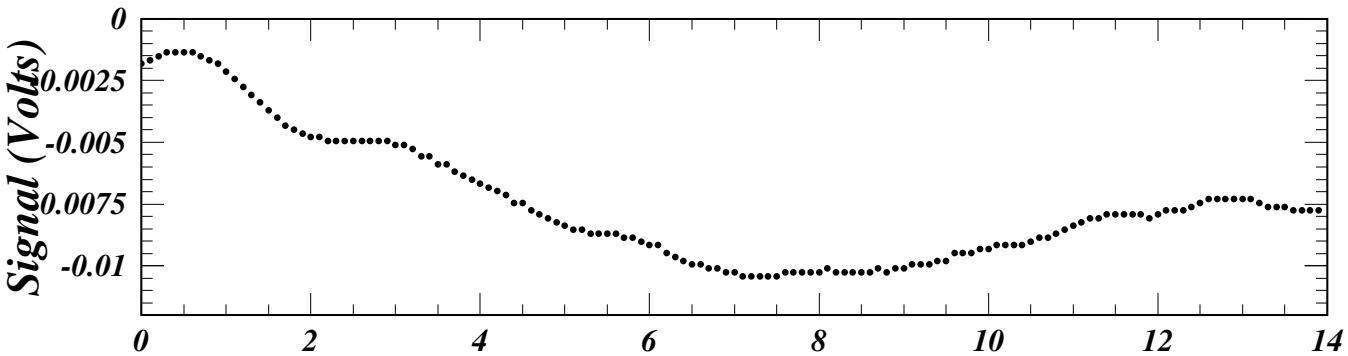
Button 3

10/08/04 10.47

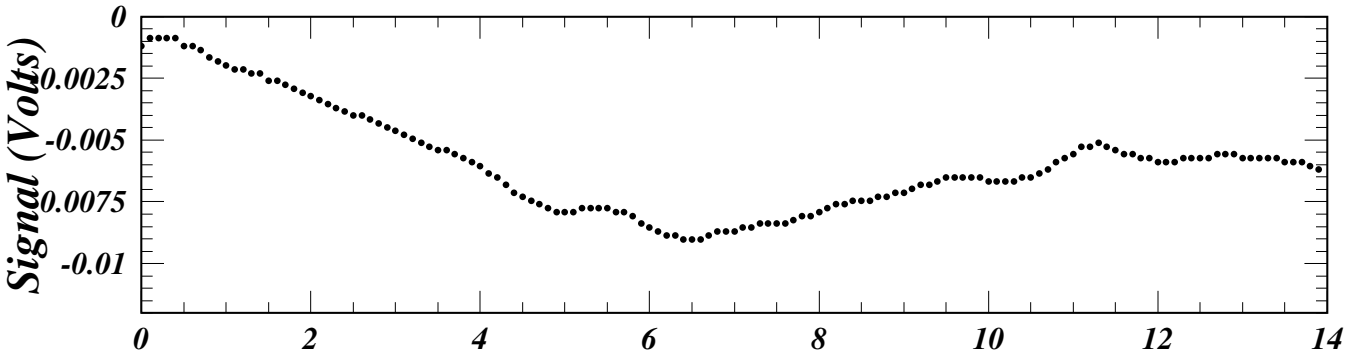
15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e-, 2 mA, 5 G)



Button 1



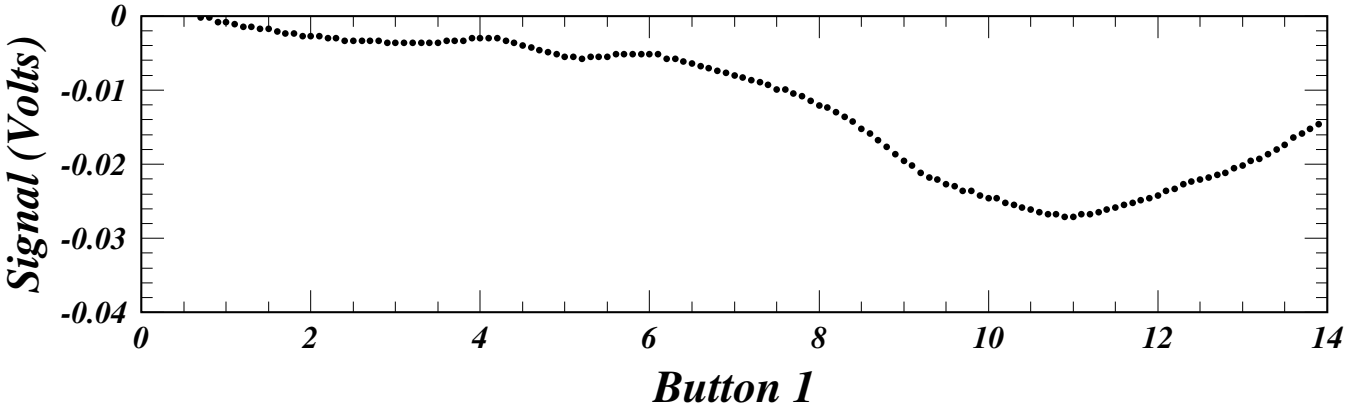
Button 2



Button 3

10/08/04 10.47

15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e-, 2 mA, 10 G)



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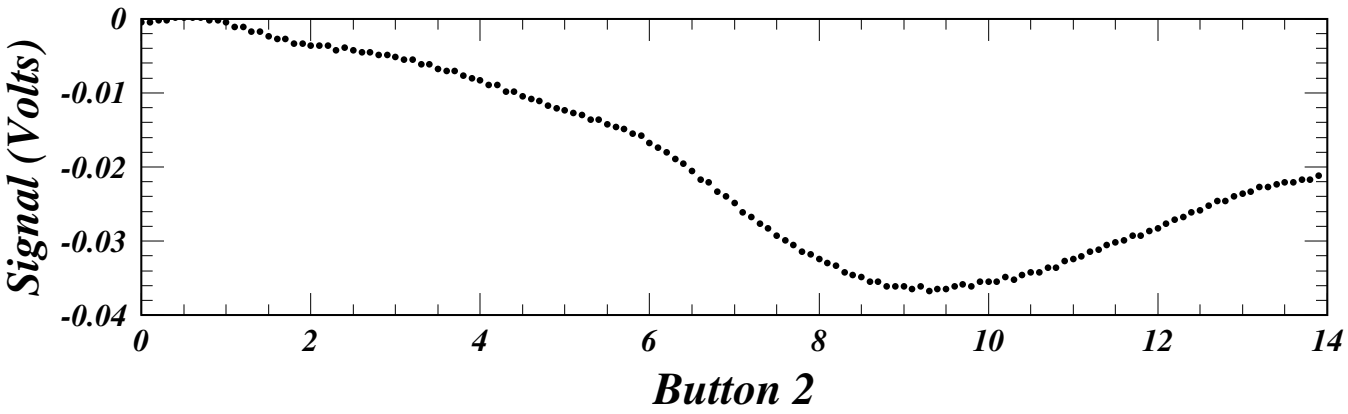

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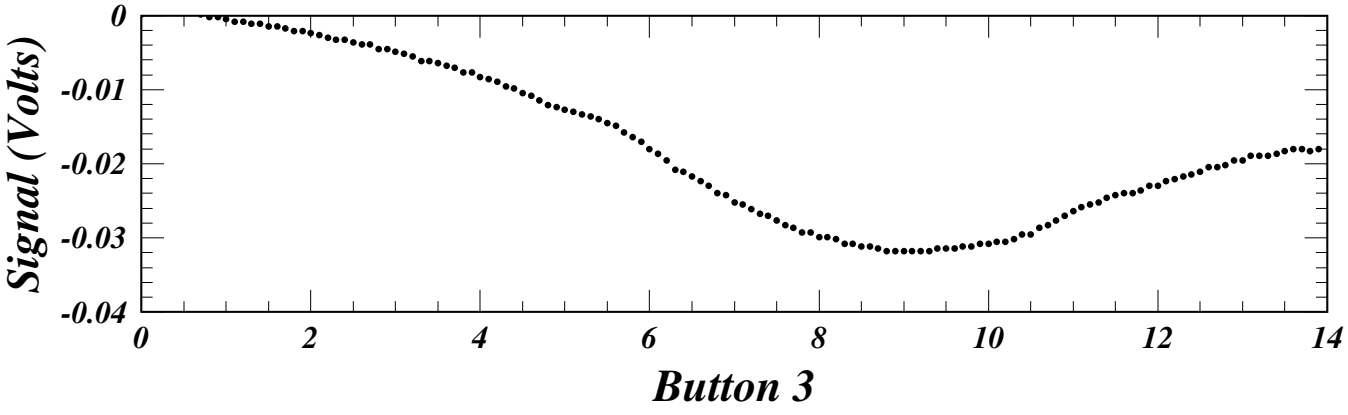
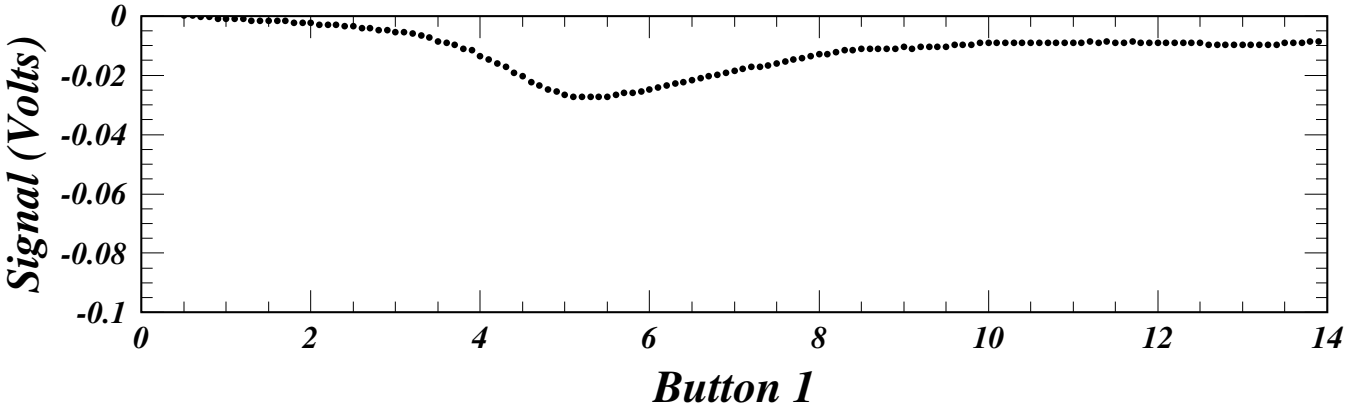


Button 3

10/08/04 10.47

15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e-, 2 mA, 20 G)



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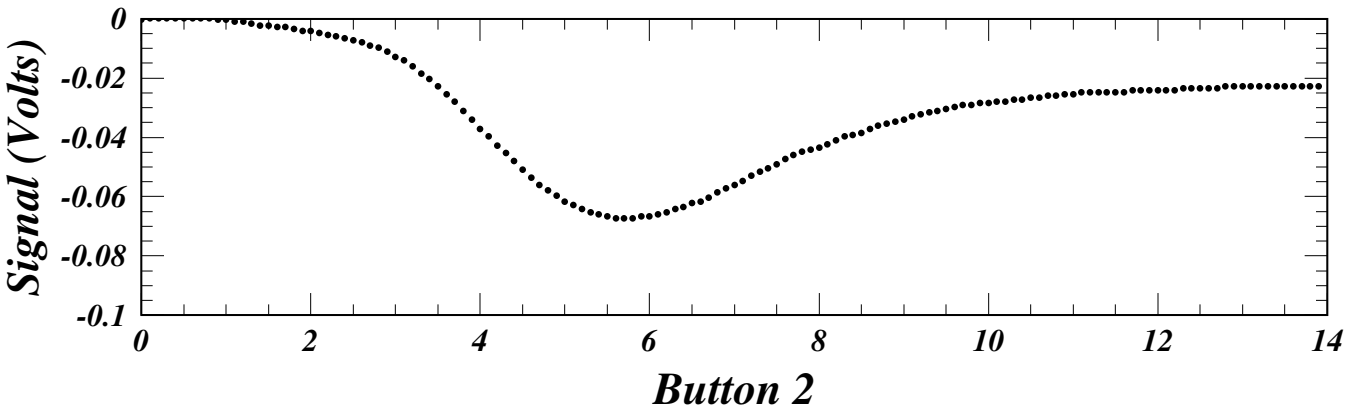

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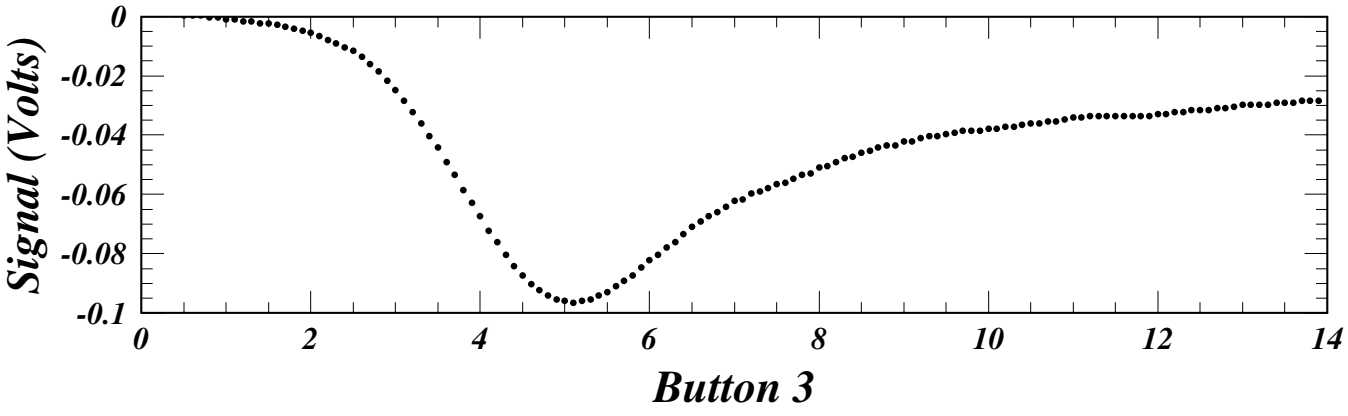
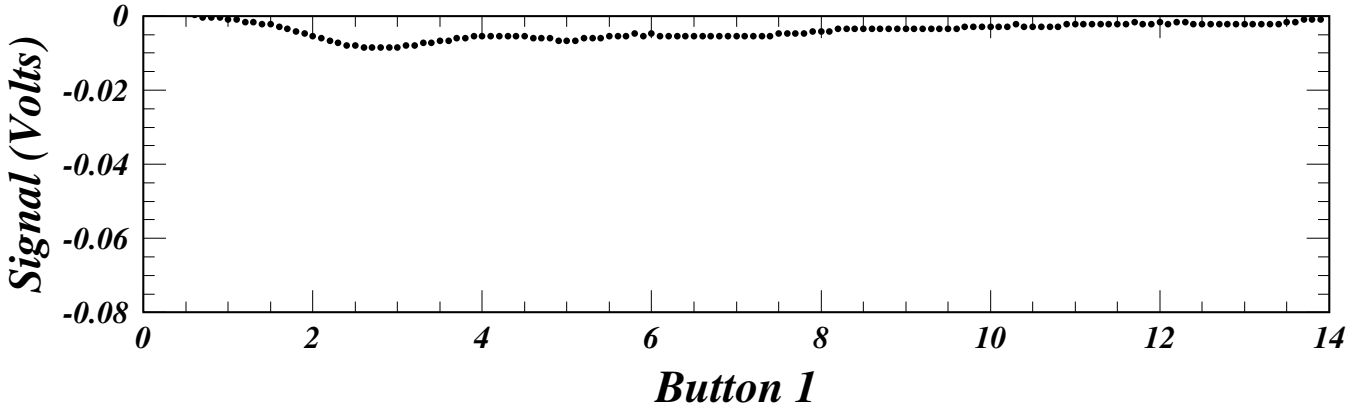


Button 3

10/08/04 10.47

15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e-, 2 mA, 40 G)



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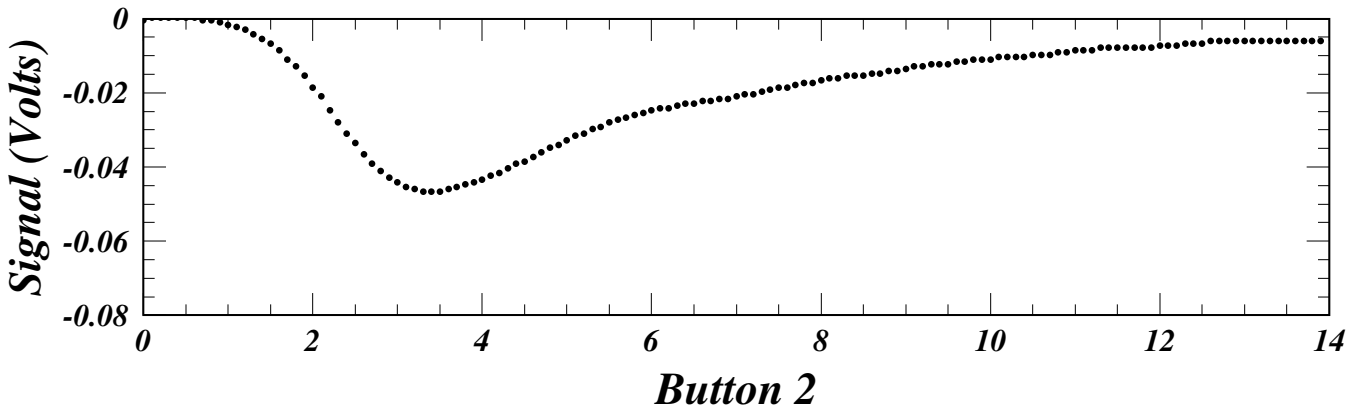

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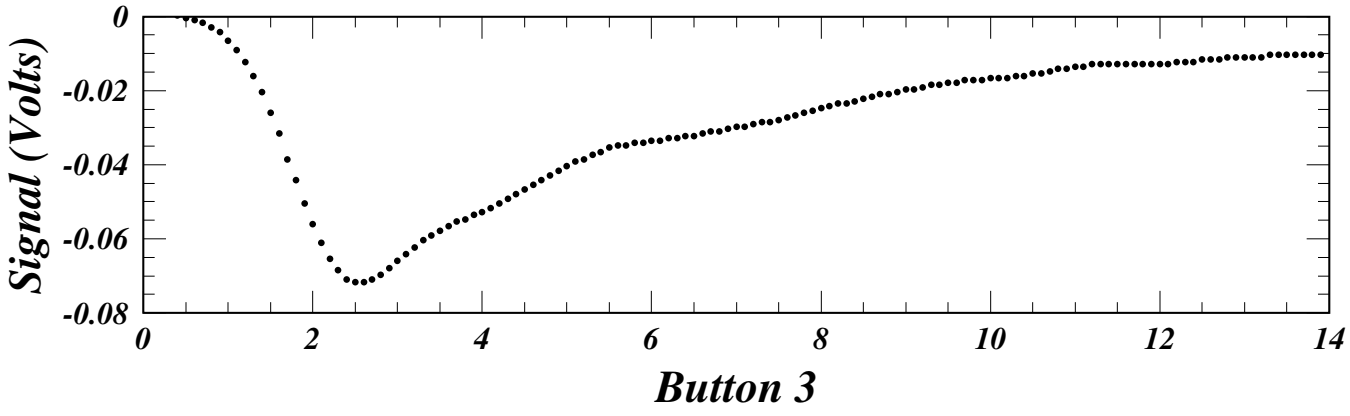

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10/08/04 10.47

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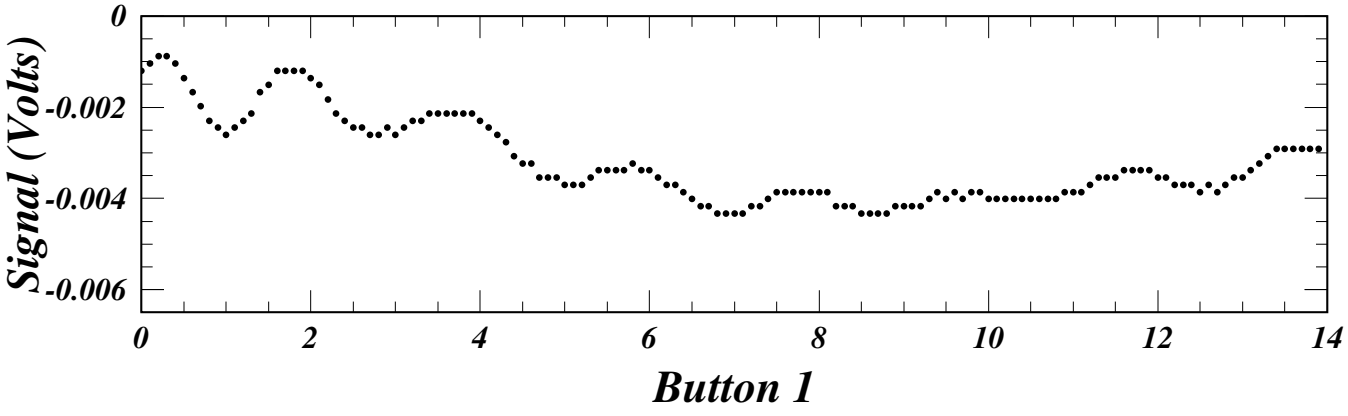

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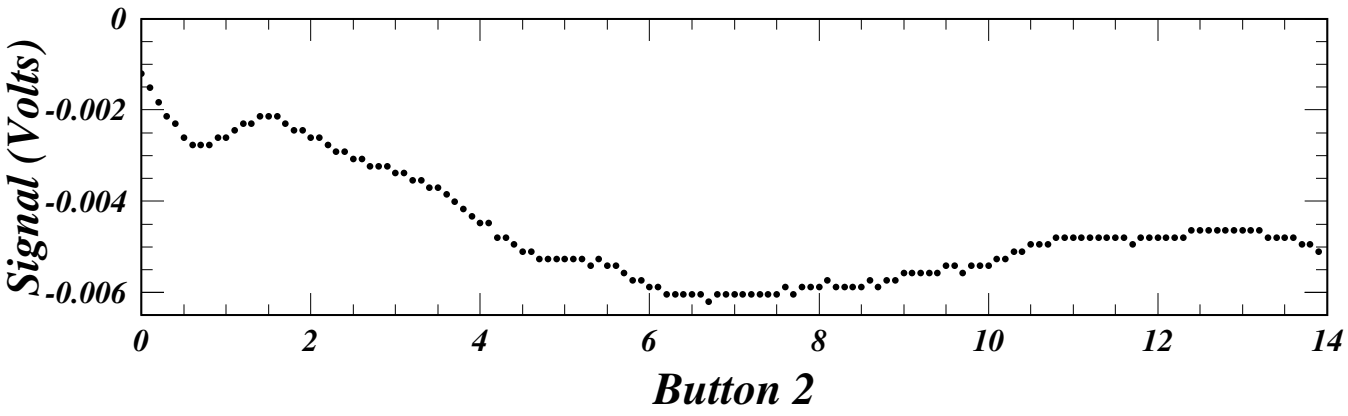

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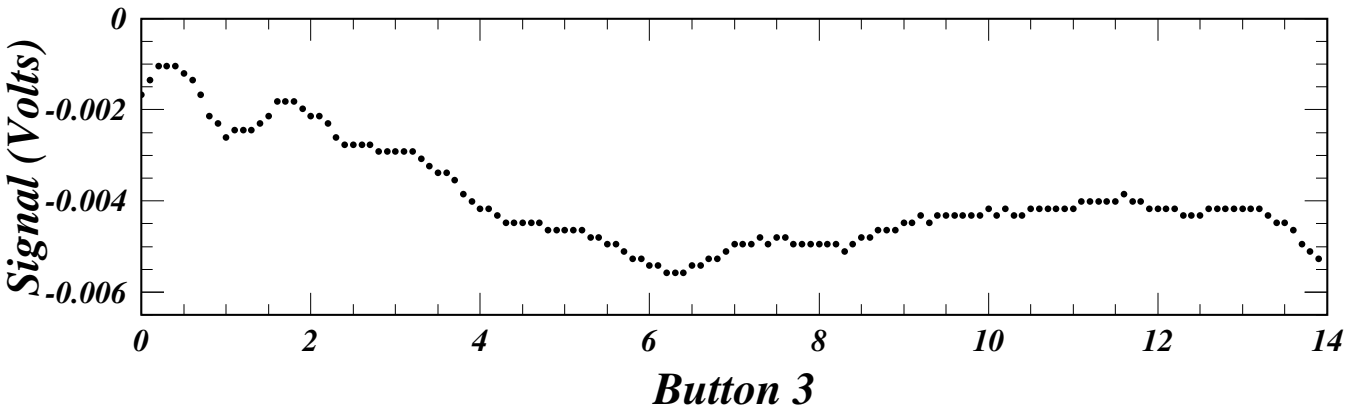
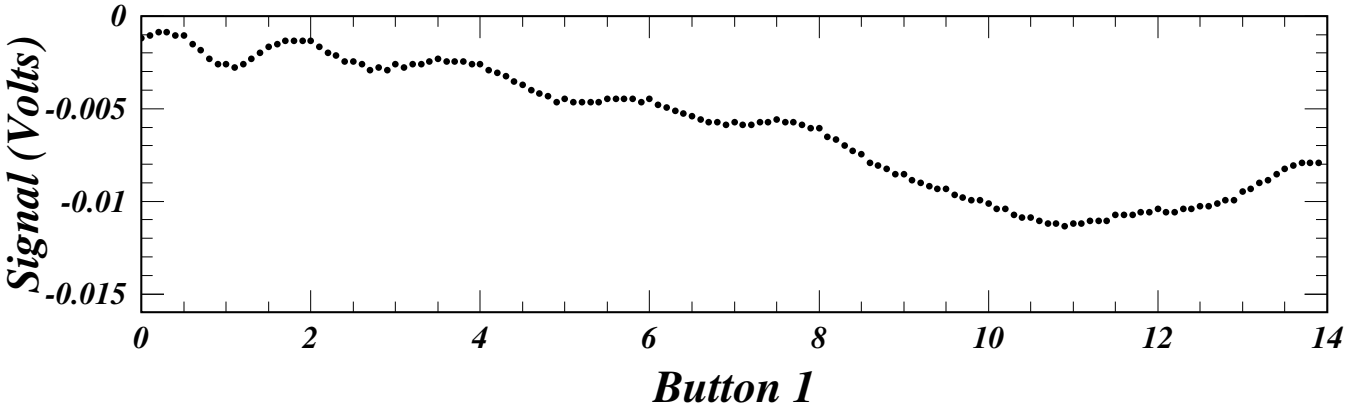


Button 3

10/08/04 10.47

15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e+, 2 mA, 10 G)



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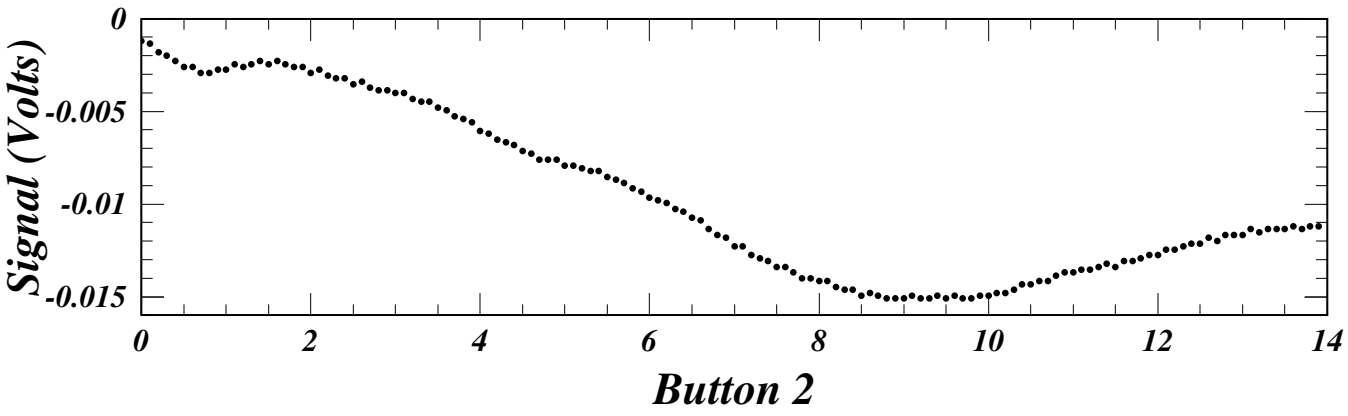

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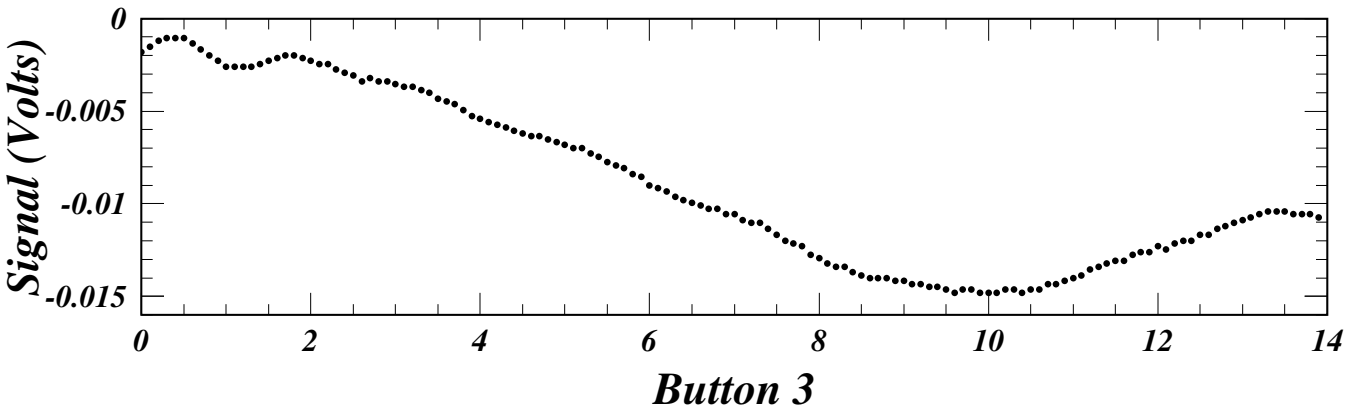

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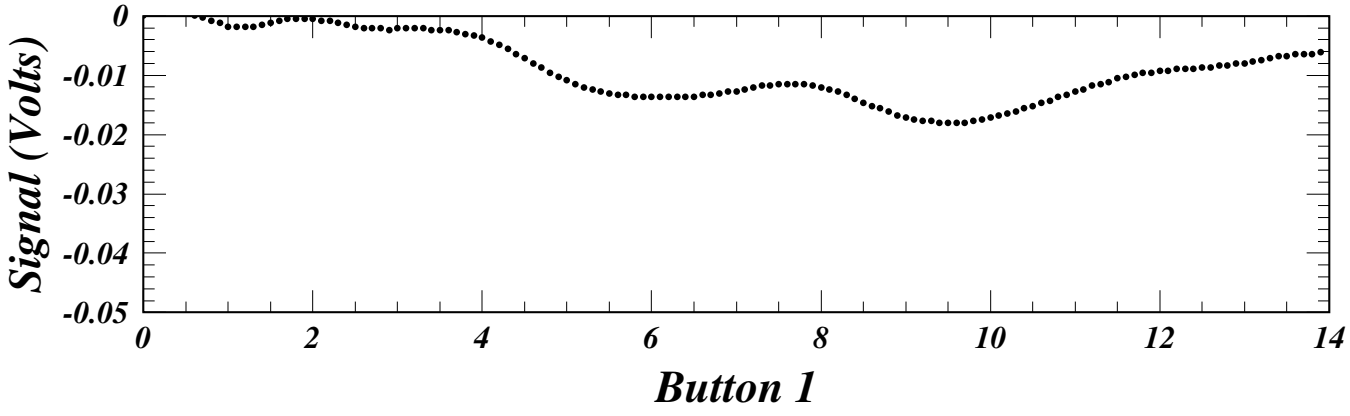
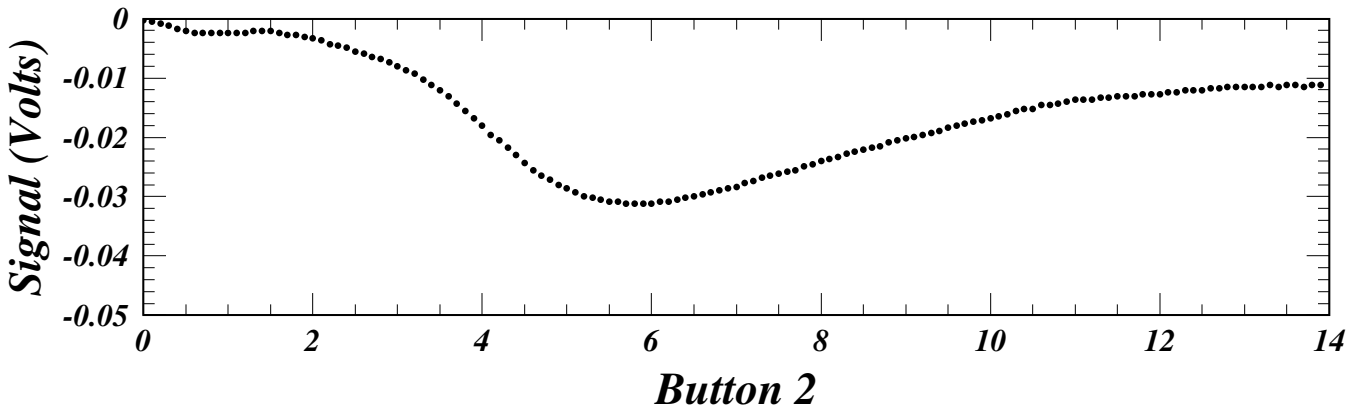
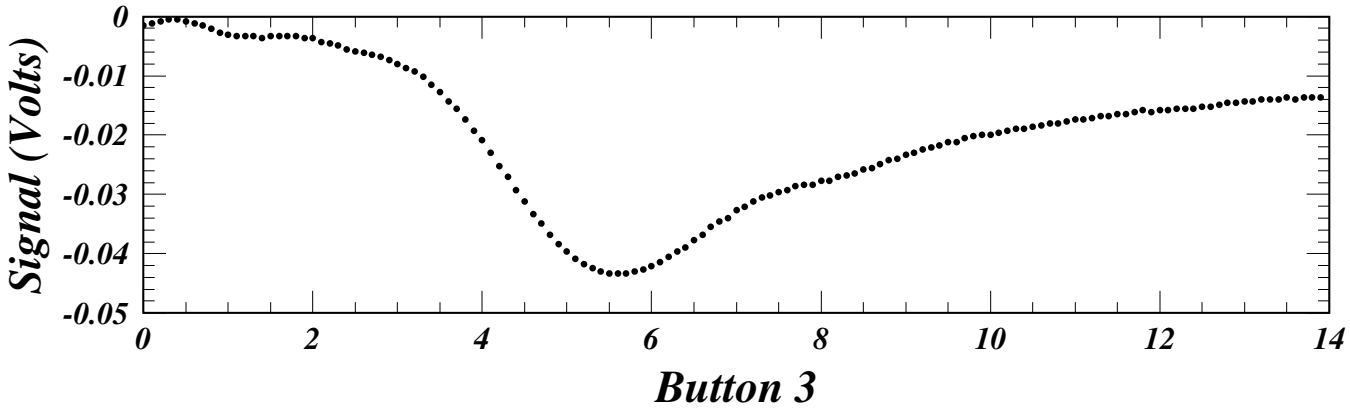
10/08/04 10.47

15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e+, 2 mA, 20 G)







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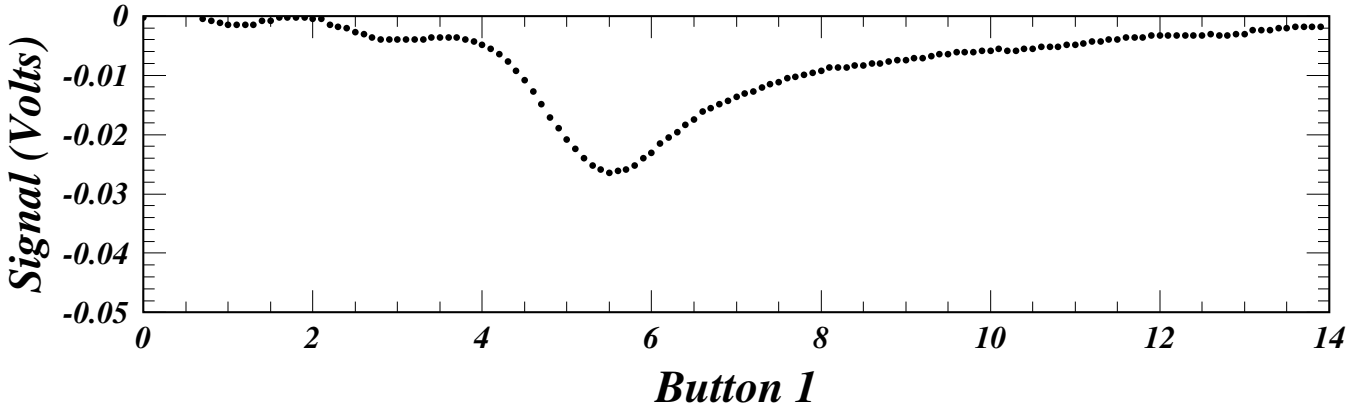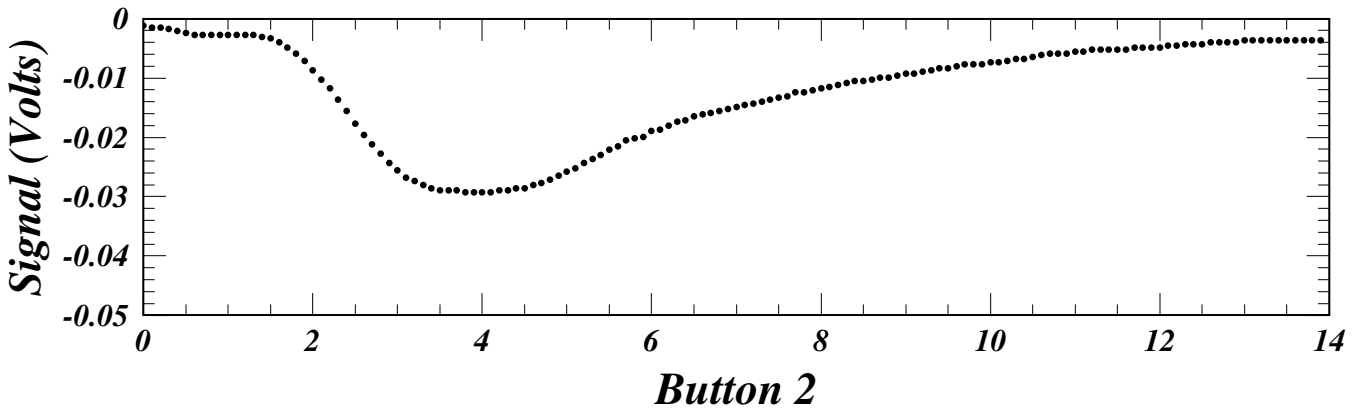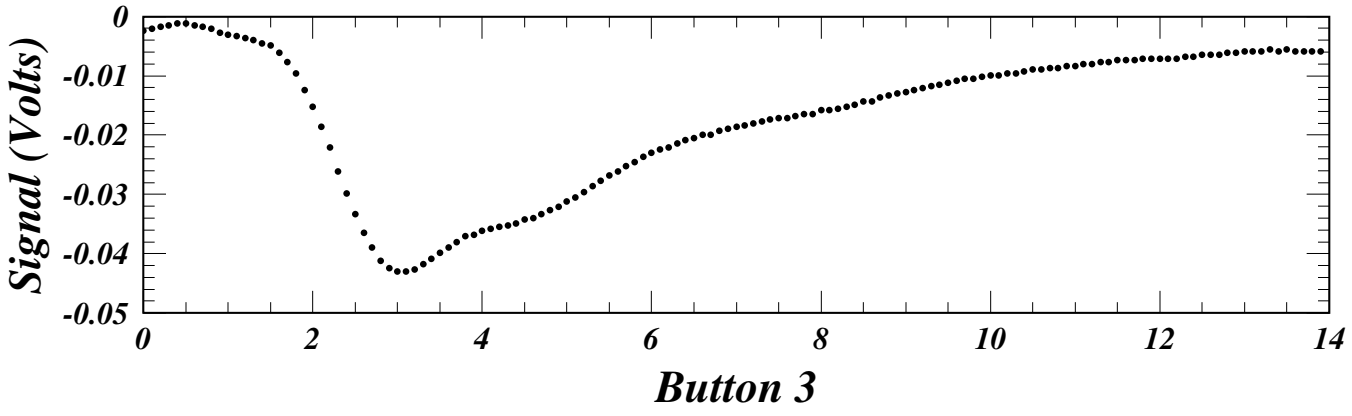
15E (Carbon) SPU Measurements (5/17/2010, 5.3 GeV e+, 2 mA, 40 G)