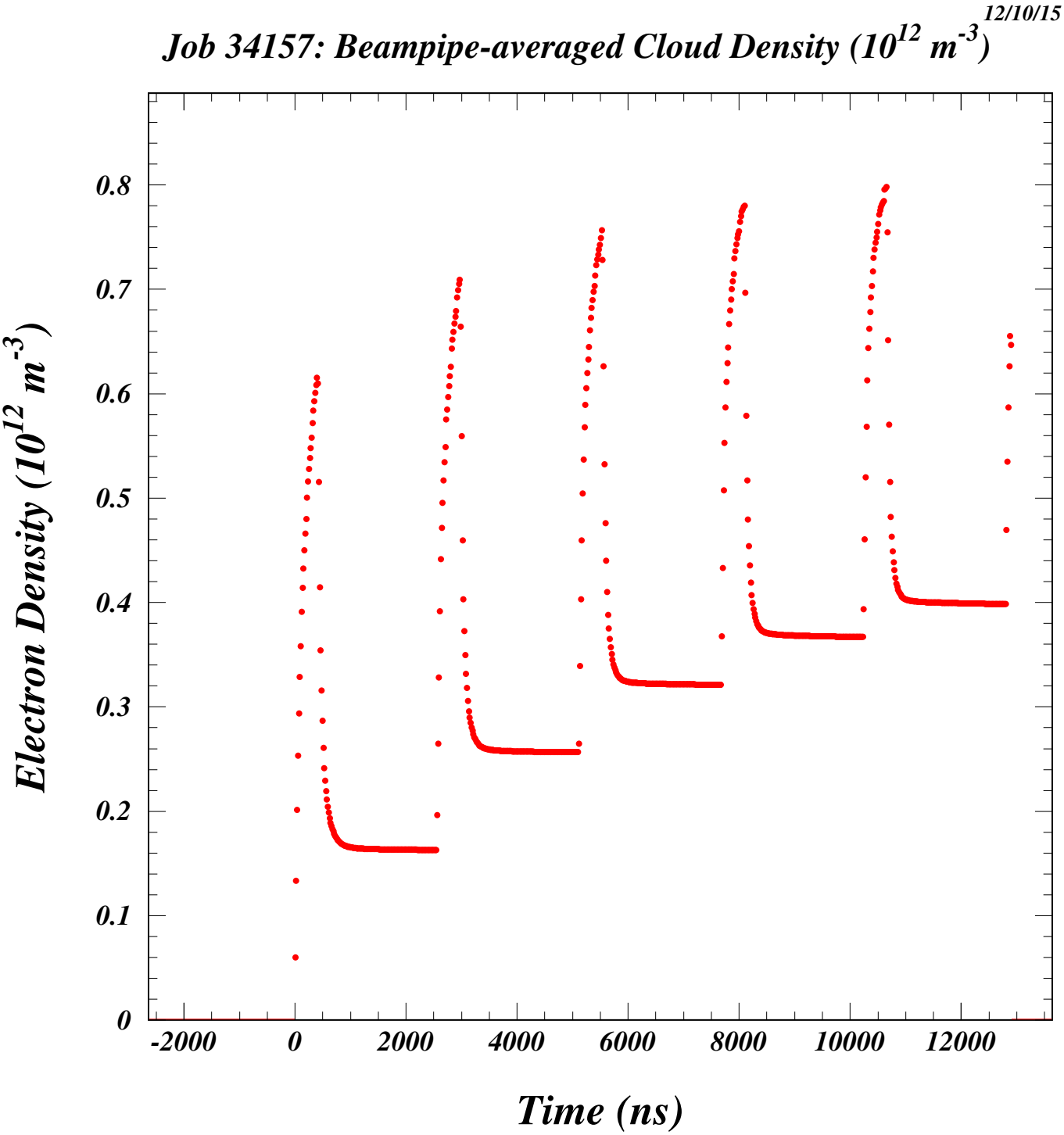
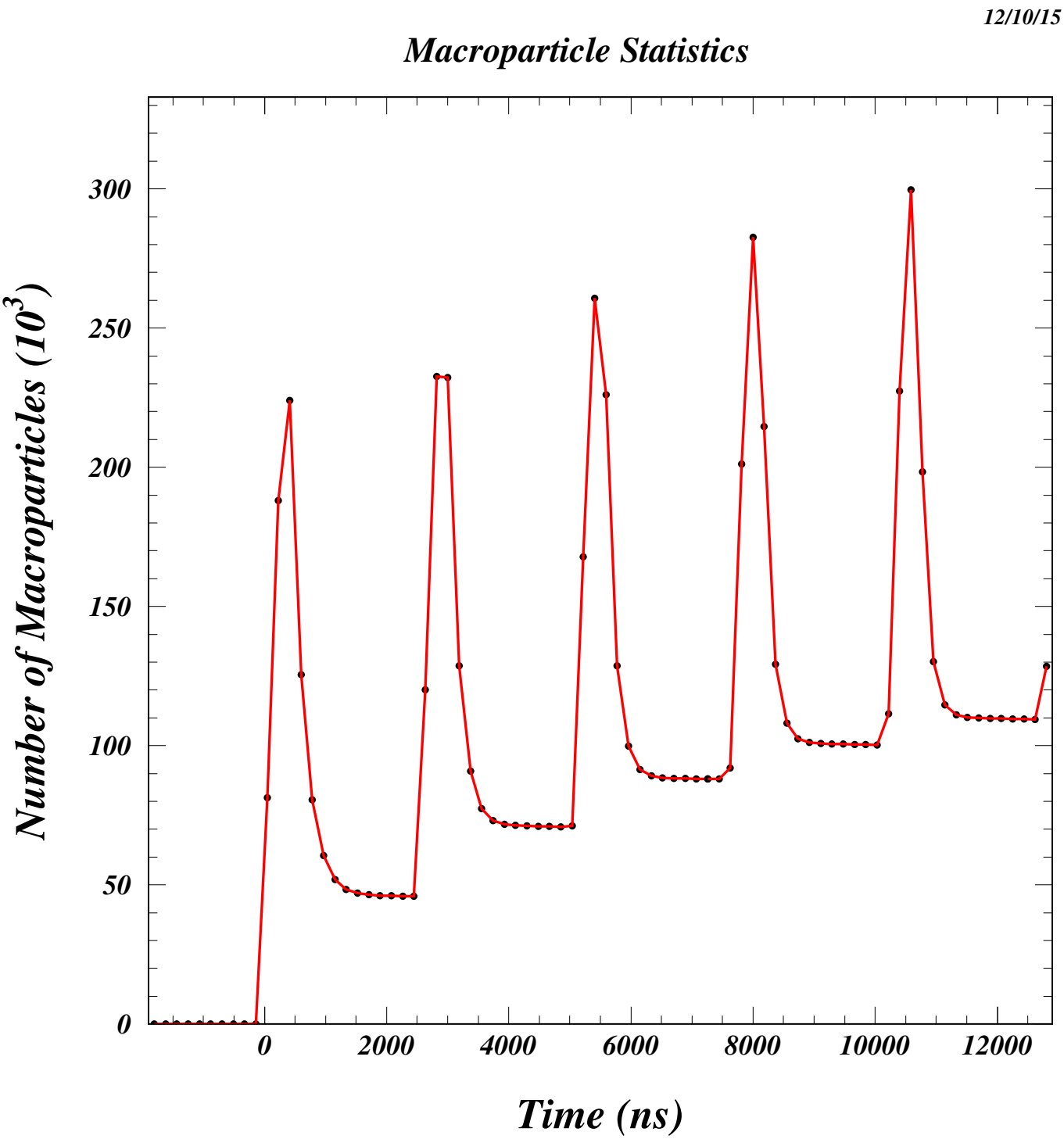
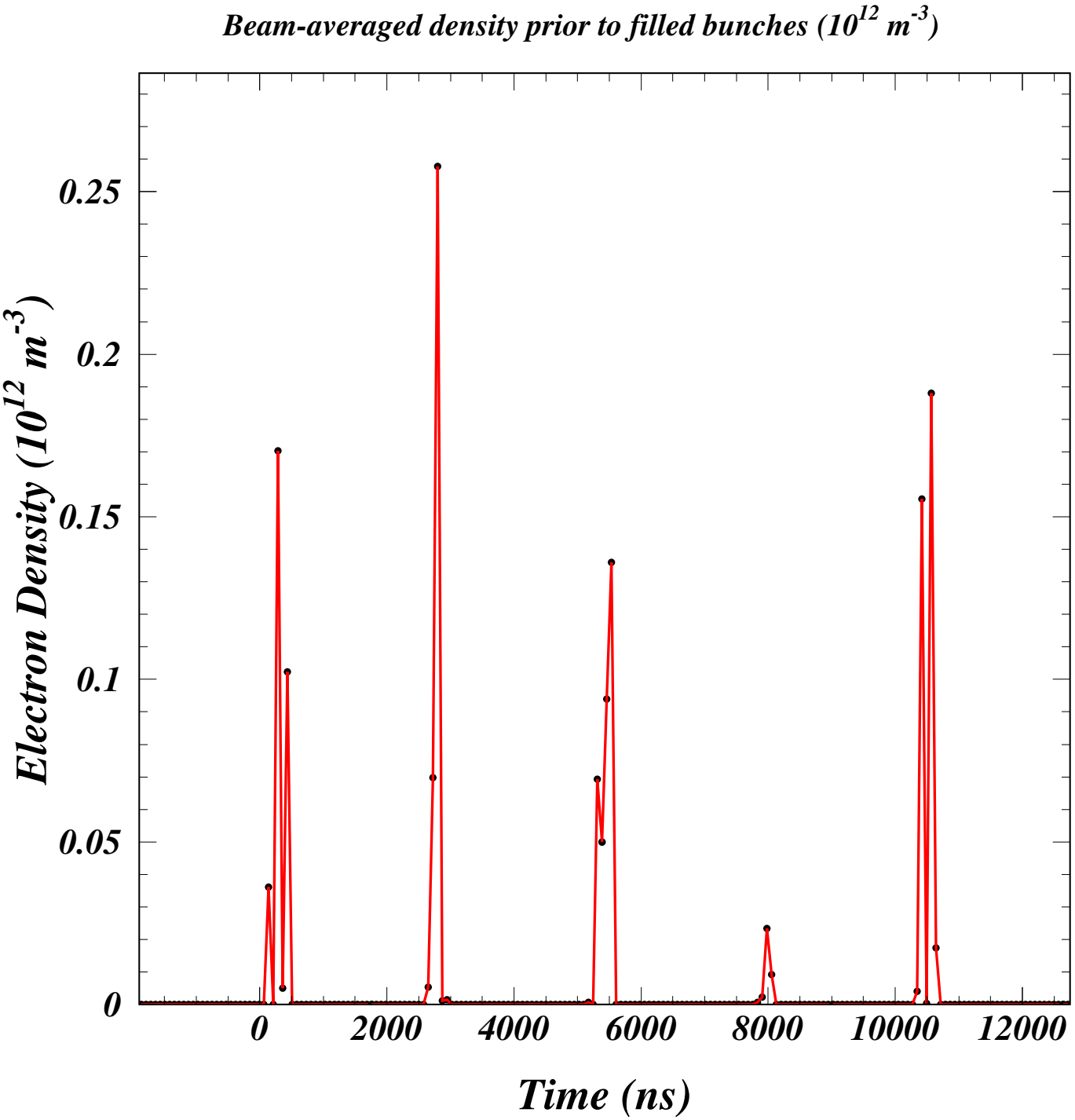
12/10/15 15.27

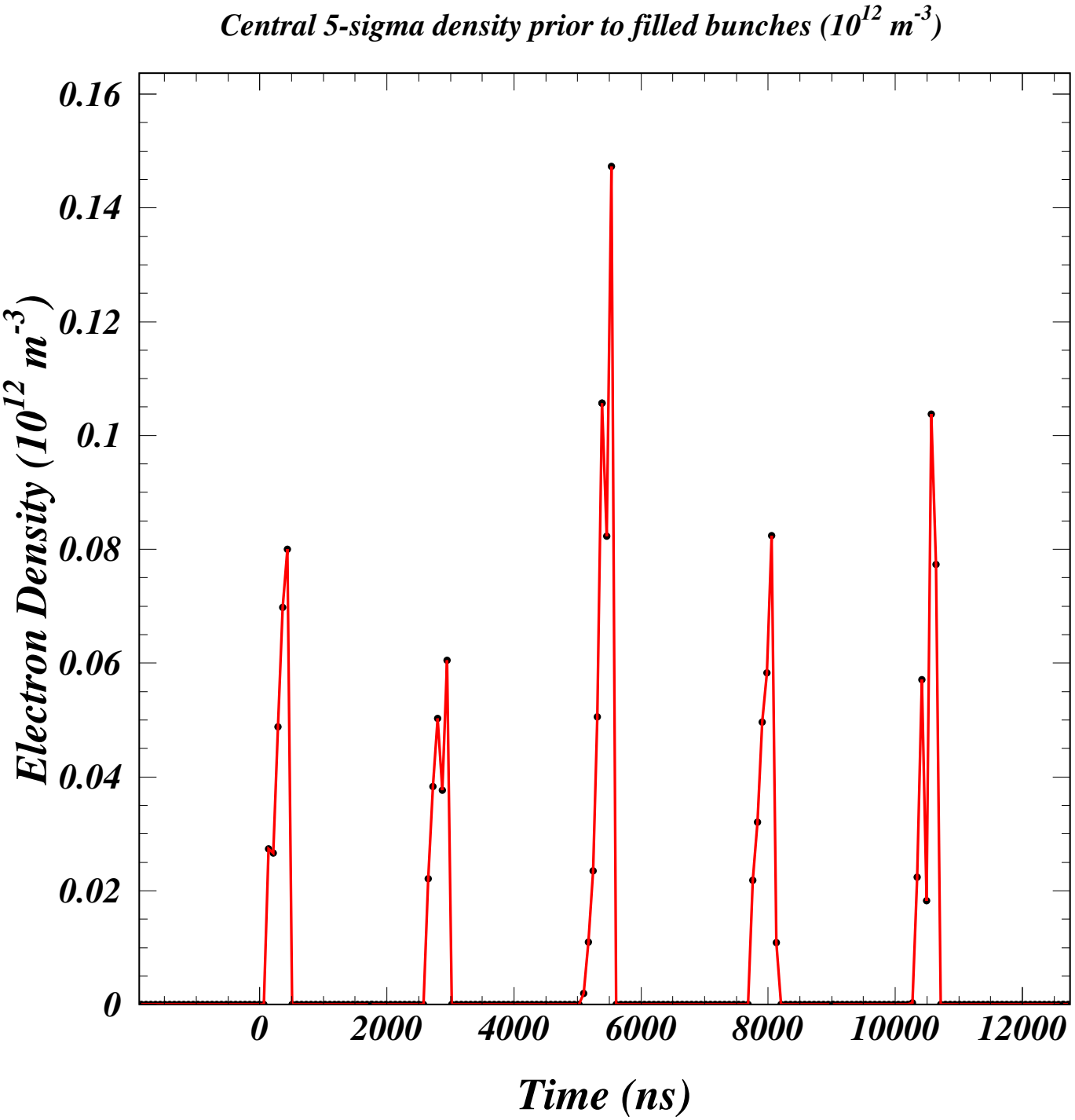

Job 34157: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
-2000
0
2000
4000
6000
8000
10000
12000
Time (ns)


12/10/15 15.27
Macroparticle Statistics
Number of Macroparticles (10^3)
300
250
200
150
100
50
0
0
2000
4000
6000
8000
10000
12000
Time (ns)

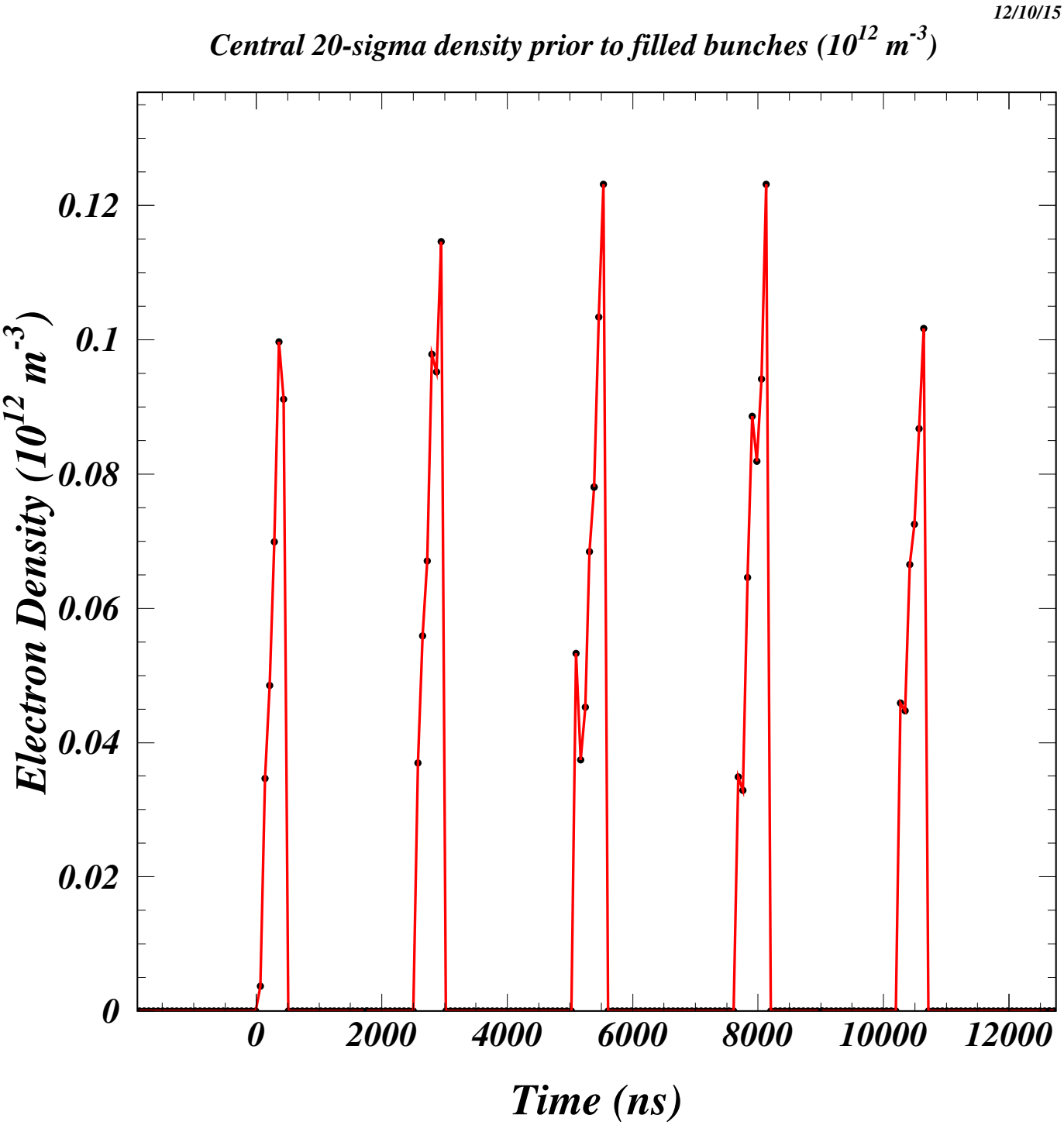
12/10/15 15.27


Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.25
0.2
0.15
0.1
0.05
0
0
2000
4000
6000
8000
10000
12000
Time (ns)

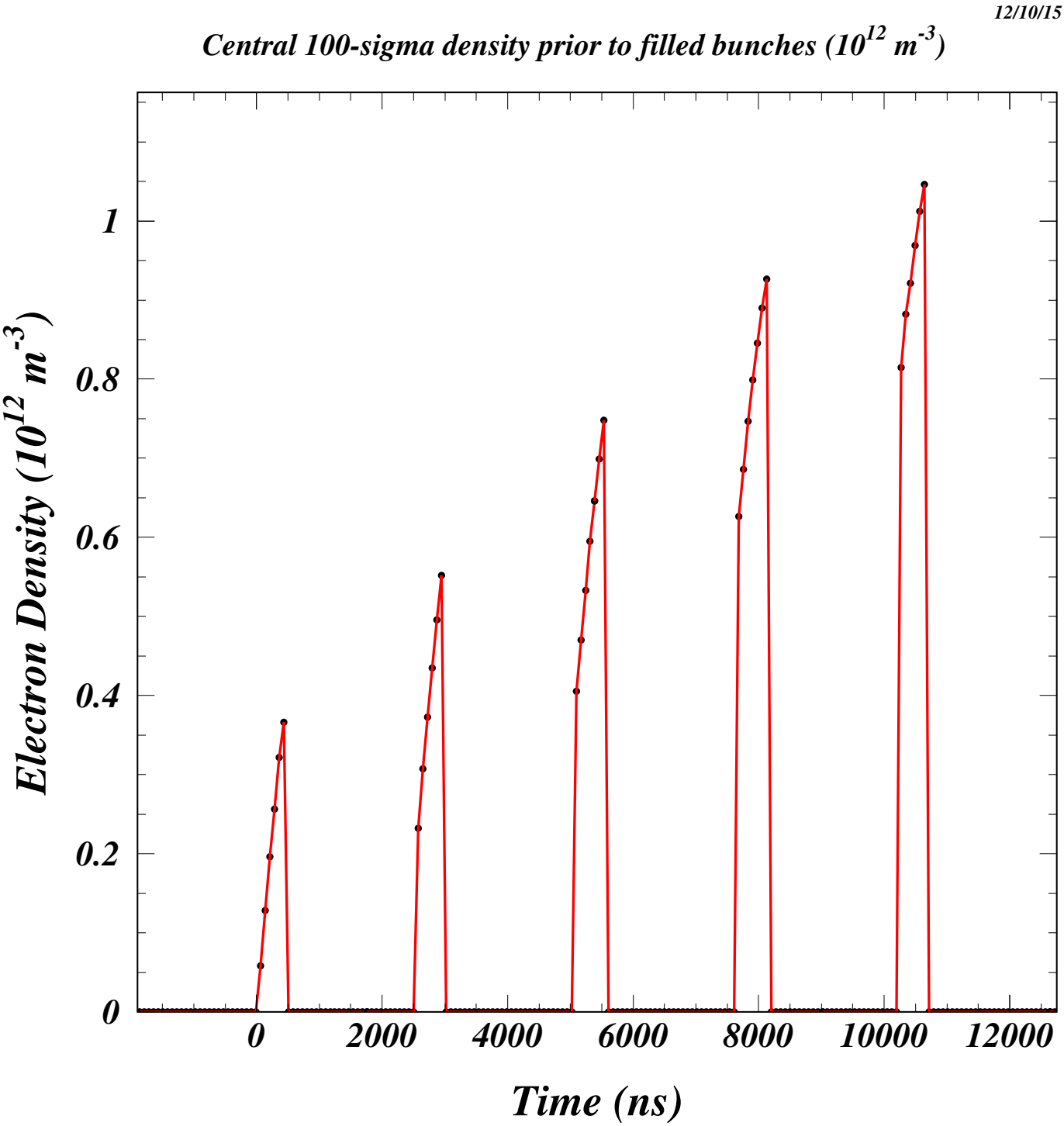
12/10/15 15.27


Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
2000
4000
6000
8000
10000
12000
Time (ns)

12/10/15 15.27


Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.02
0.04
0.06
0.08
0.1
0.12
0
2000
4000
6000
8000
10000
12000
Time (ns)

12/10/15 15.27


Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
Time (ns)

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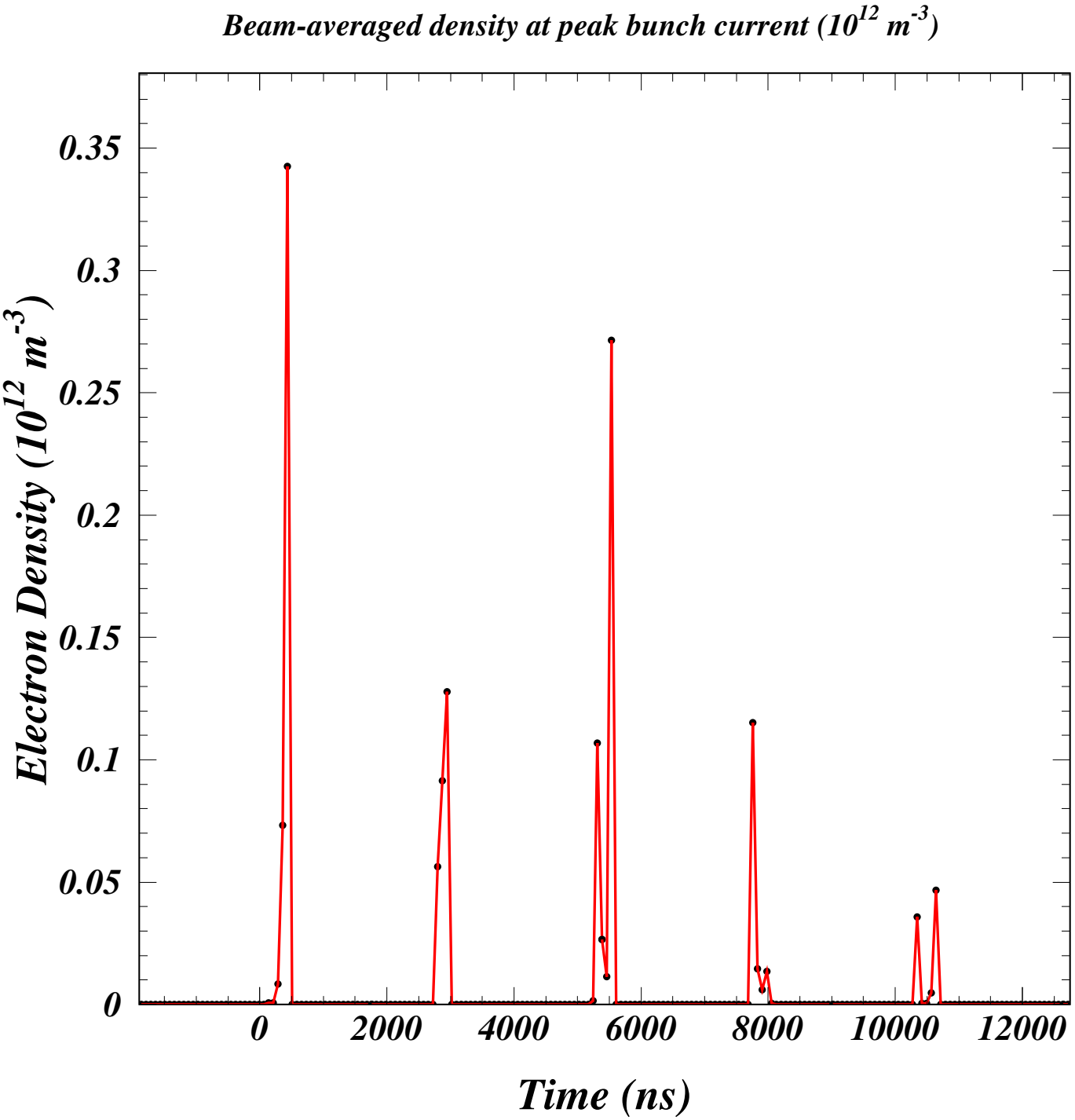
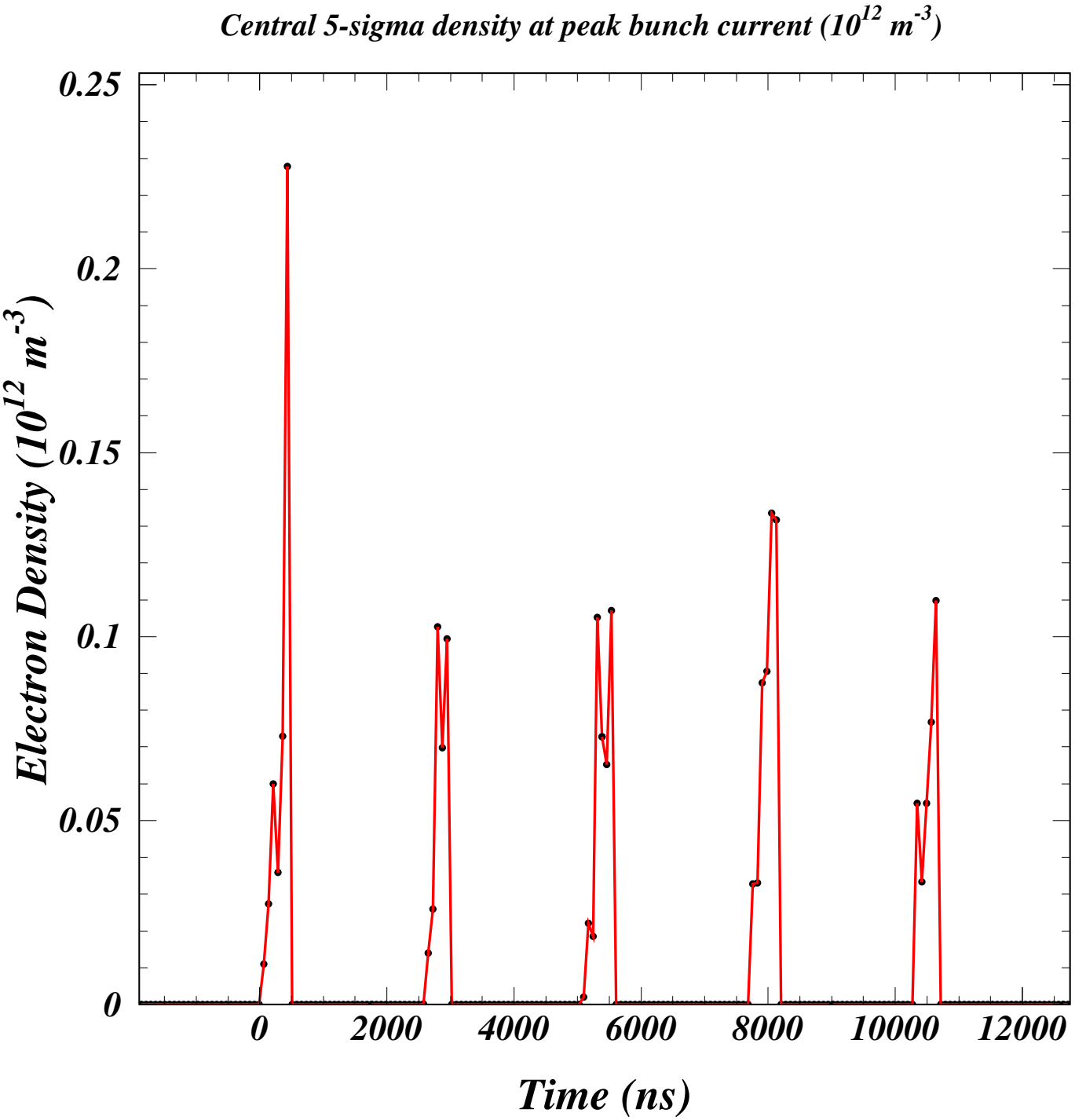
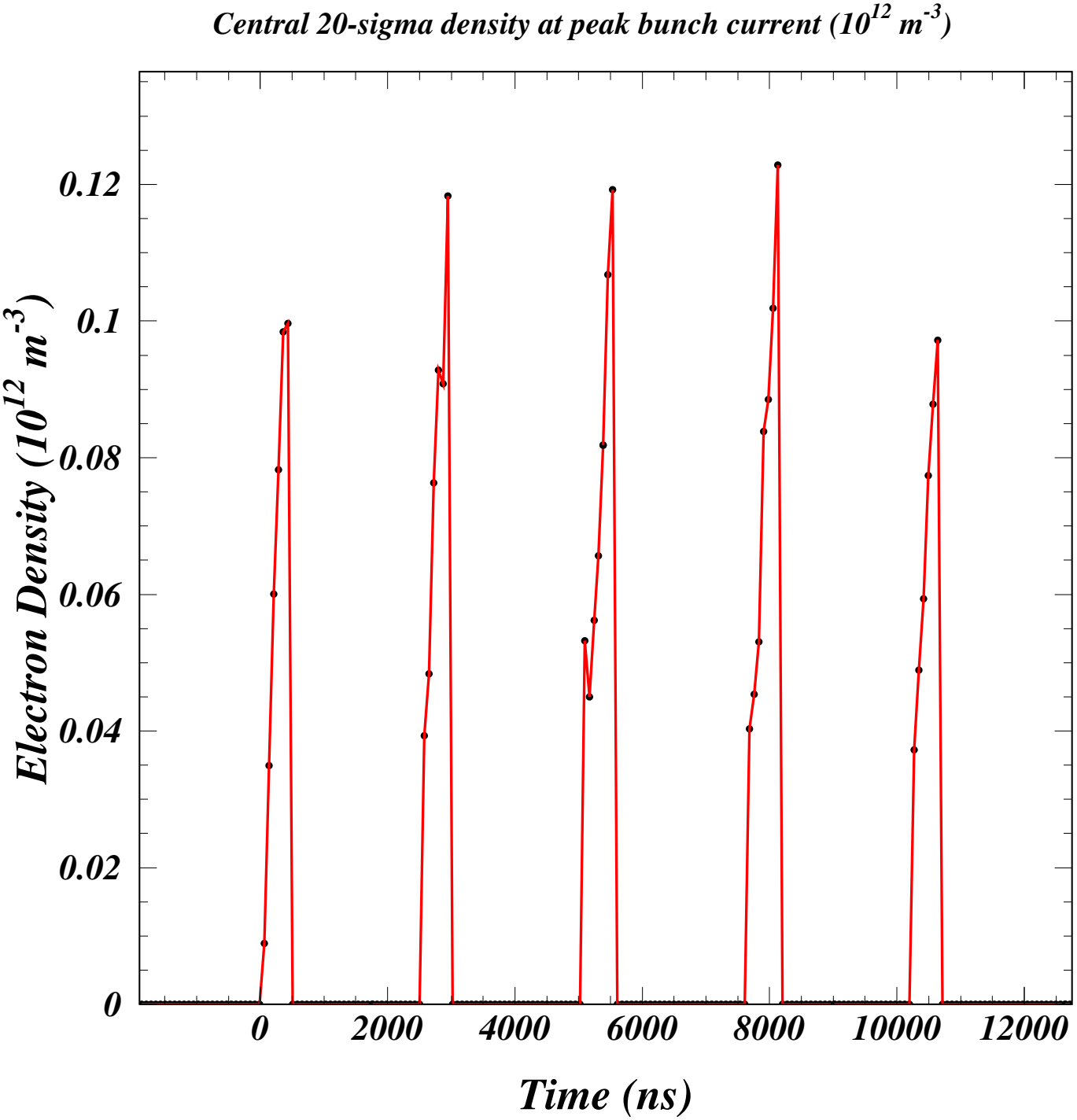

Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2000
4000
6000
8000
10000
12000
Time (ns)

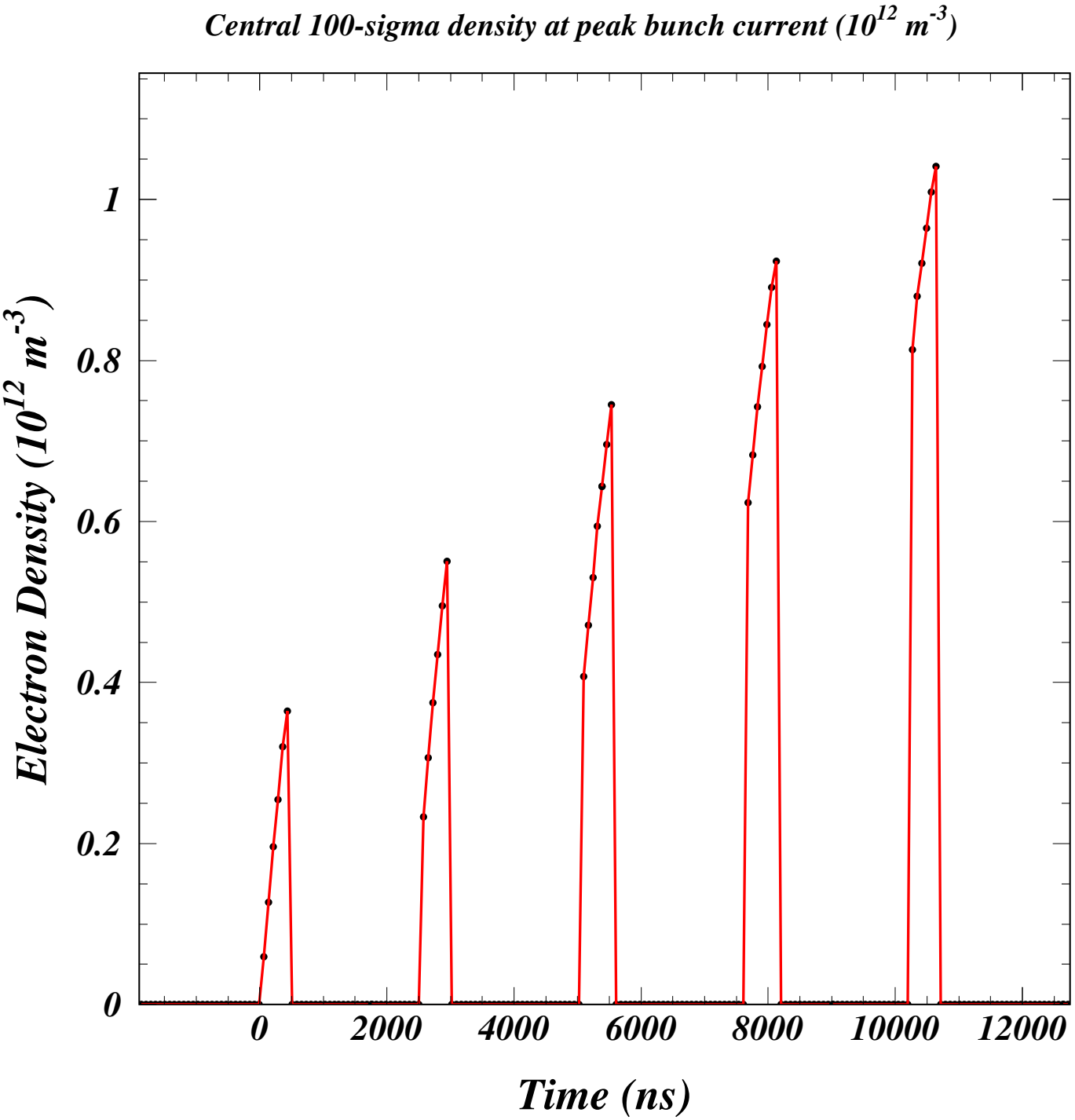
12/10/15 15.27


Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.25
0.2
0.15
0.1
0.05
0
0
2000
4000
6000
8000
10000
12000
Time (ns)

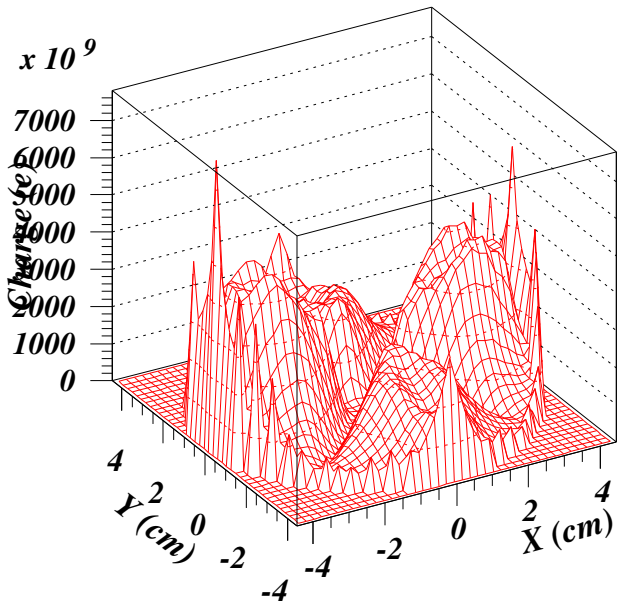
12/10/15 15.27

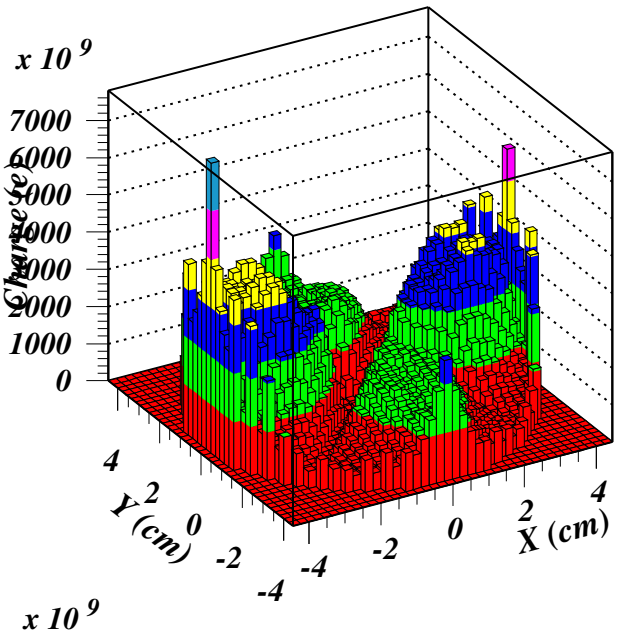

Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.02
0.04
0.06
0.08
0.1
0.12
0
2000
4000
6000
8000
10000
12000
Time (ns)

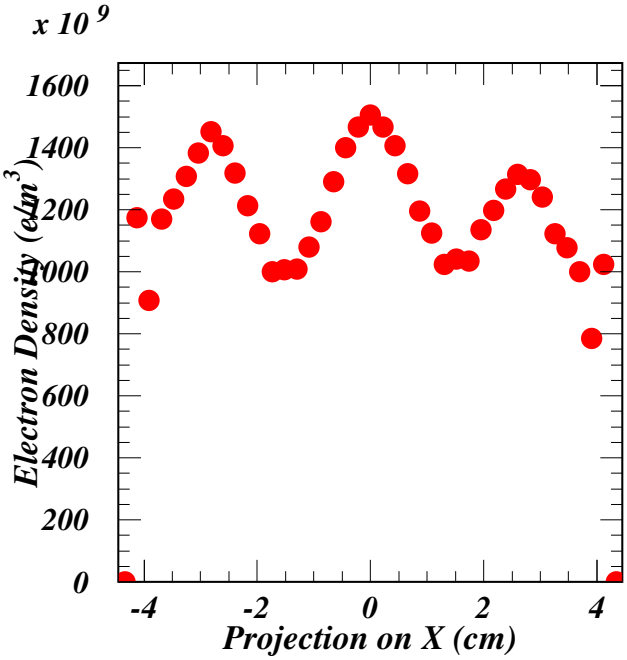
12/10/15 15.27

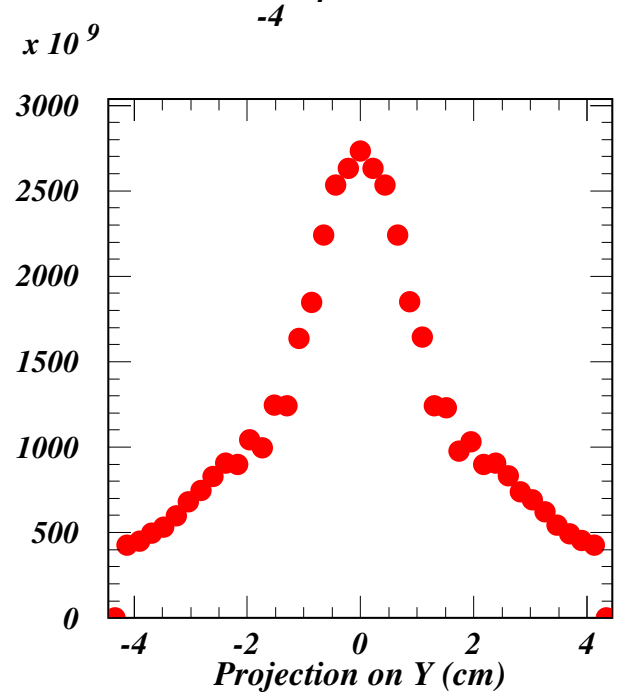

Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
Time (ns)

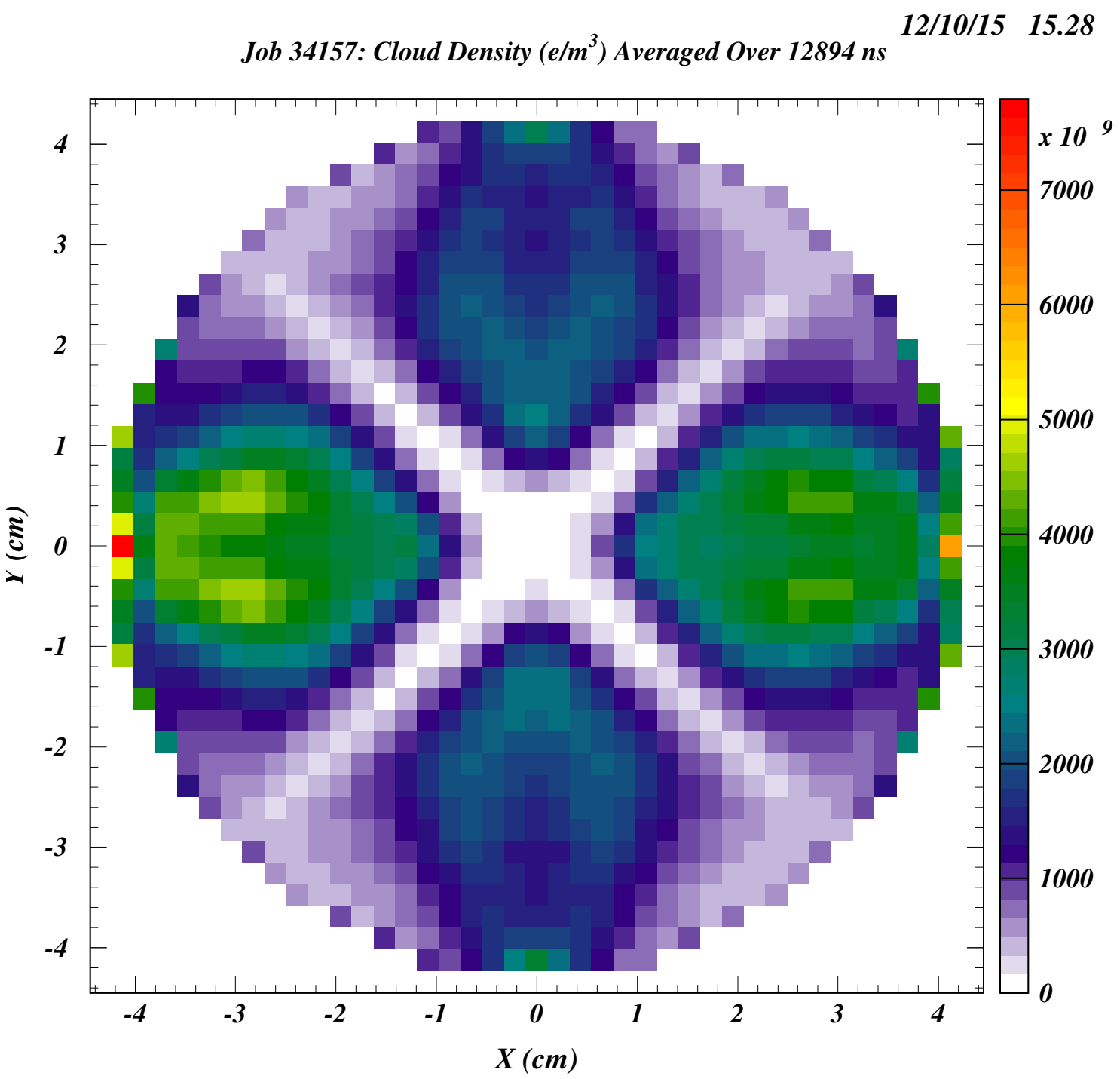
Job 34157: Cloud Density (e/m^3) Averaged Over 12894 ns





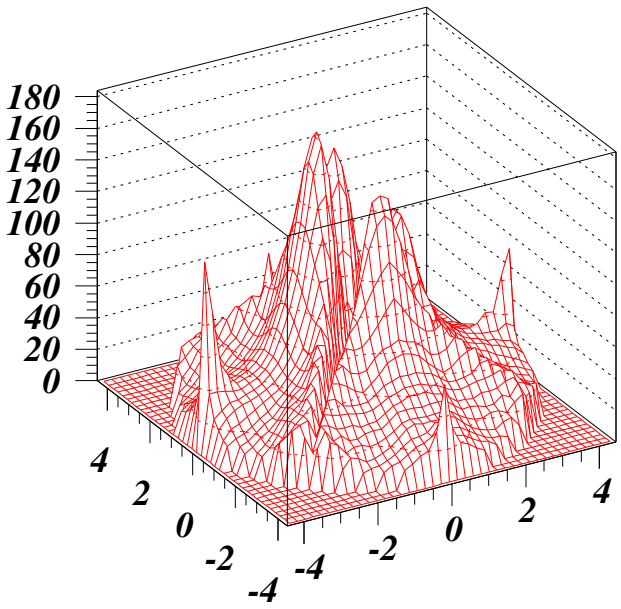


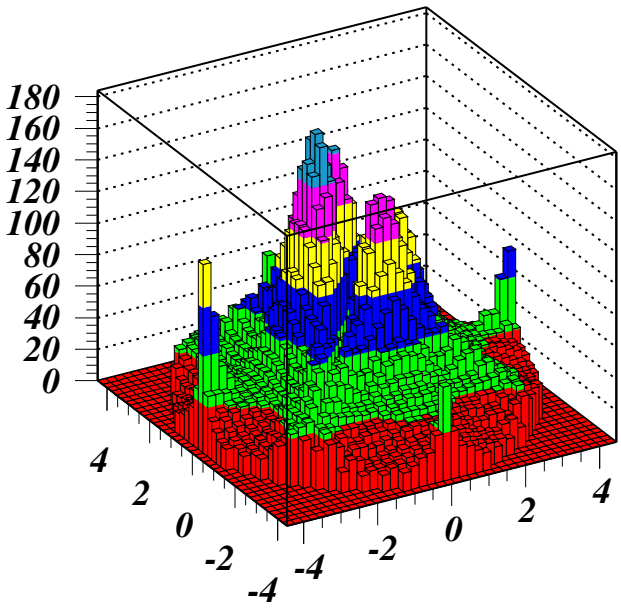


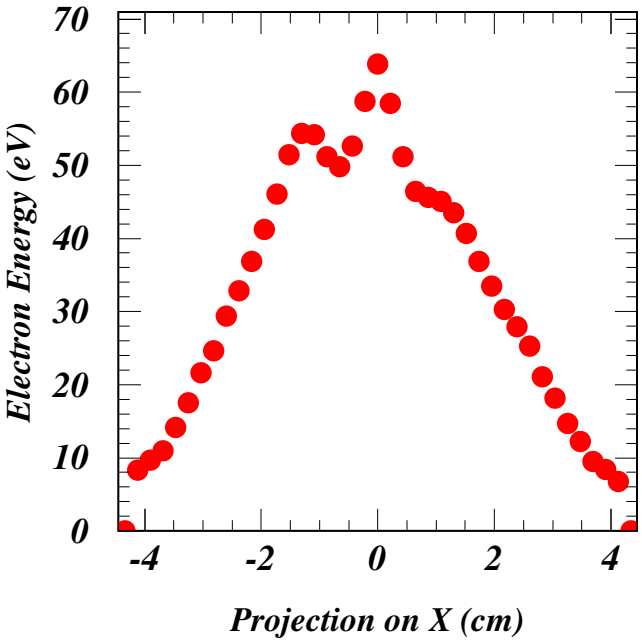

12/10/15 15.28
Job 34157: Cloud Density (e/m3) Averaged Over 12894 ns
x 10 9
7000
6000
5000
4000
3000
2000
1000
0
Y (cm)
X (cm)
4
3
2
1
0
-1
-2
-3
-4

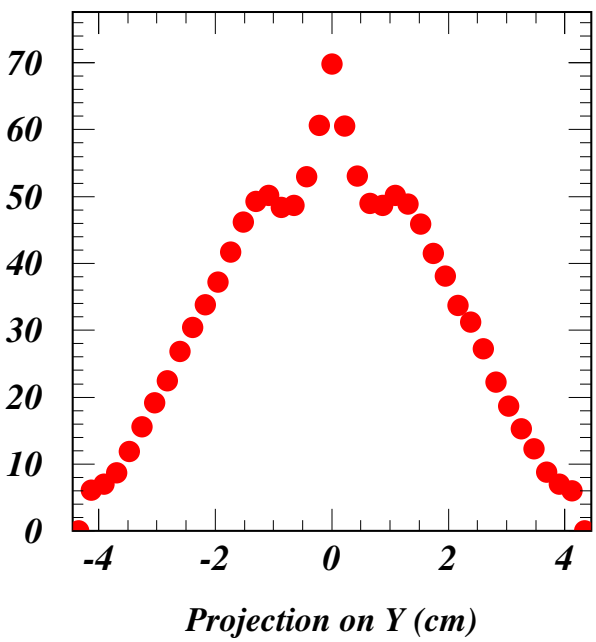
12/10/15 15.28

Job 34157: Electron Energies (eV) Averaged Over 12894 ns









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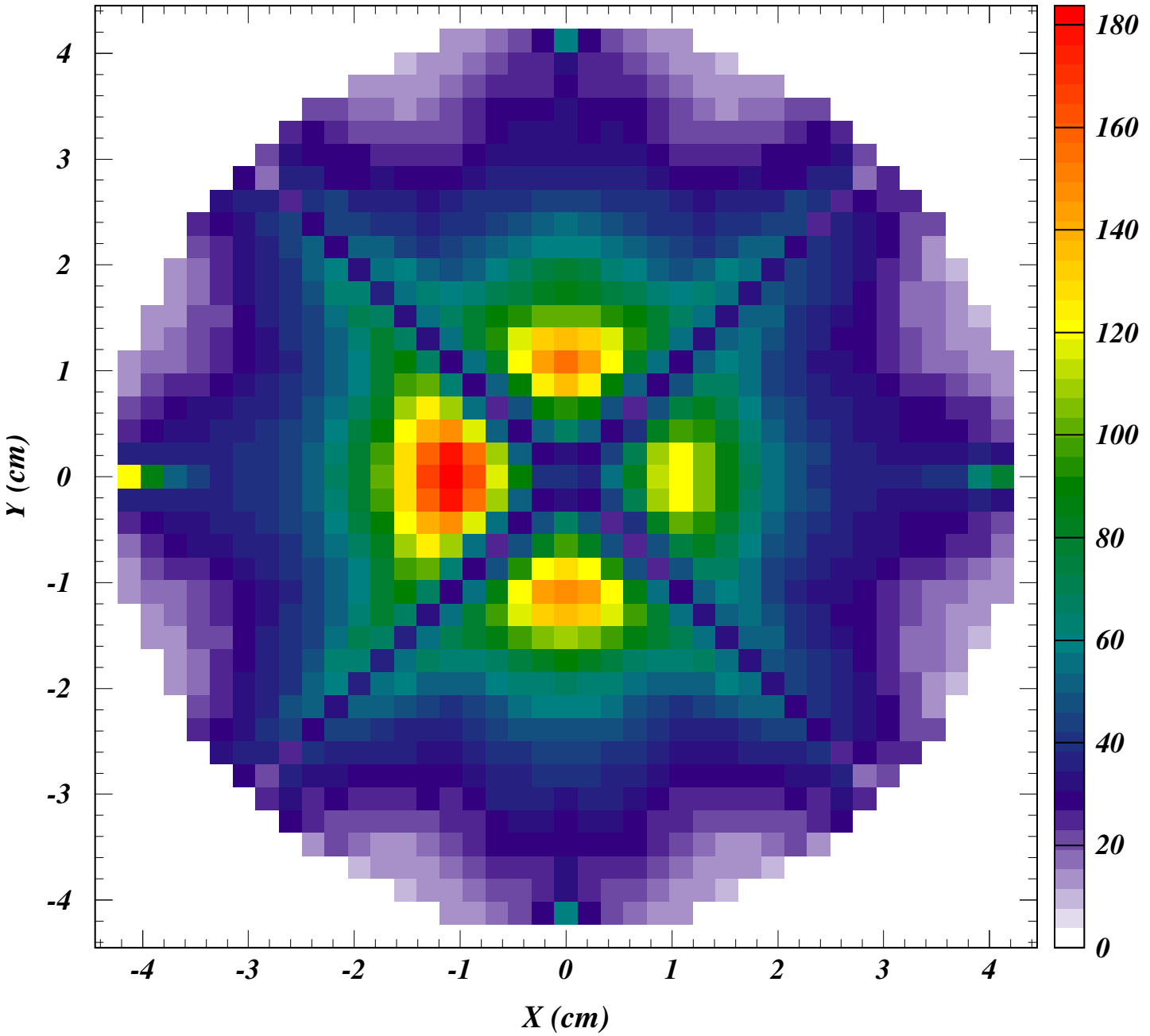
Job 34157: Electron Energies (eV) Averaged Over 12894 ns



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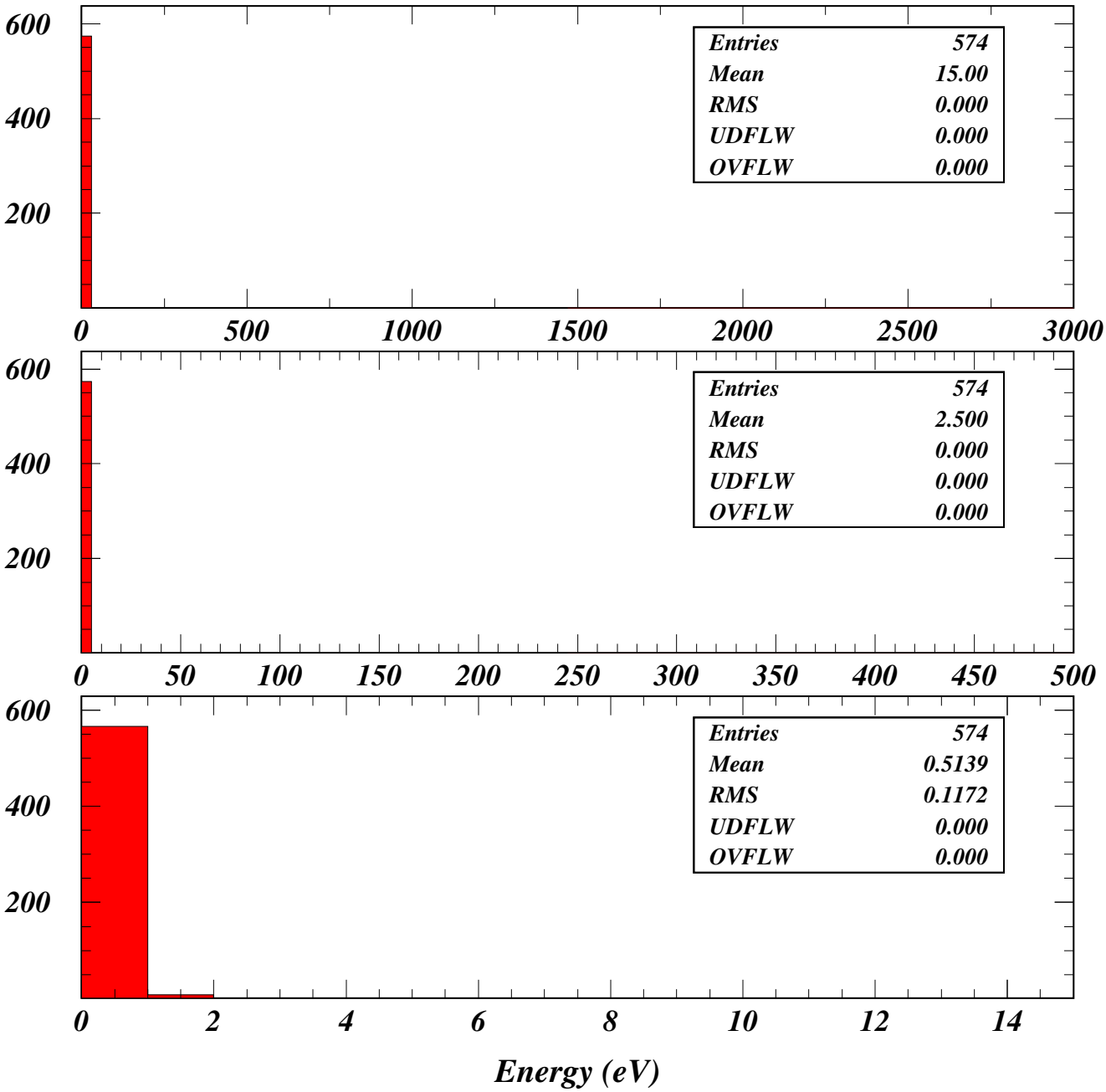
Job 34157: Photoelectrons from Direct Photons



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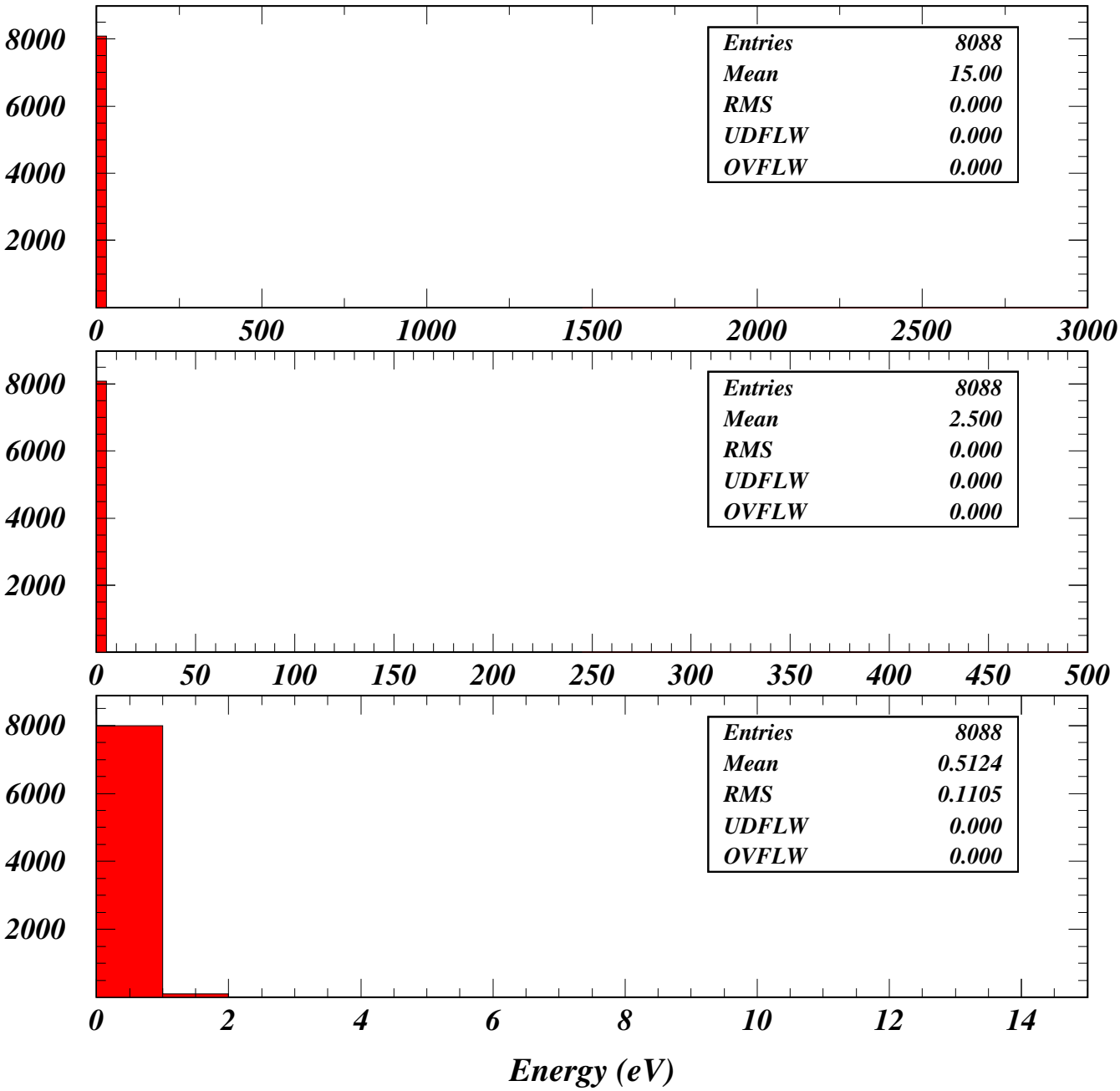
Job 34157: Photoelectrons from Reflected Photons



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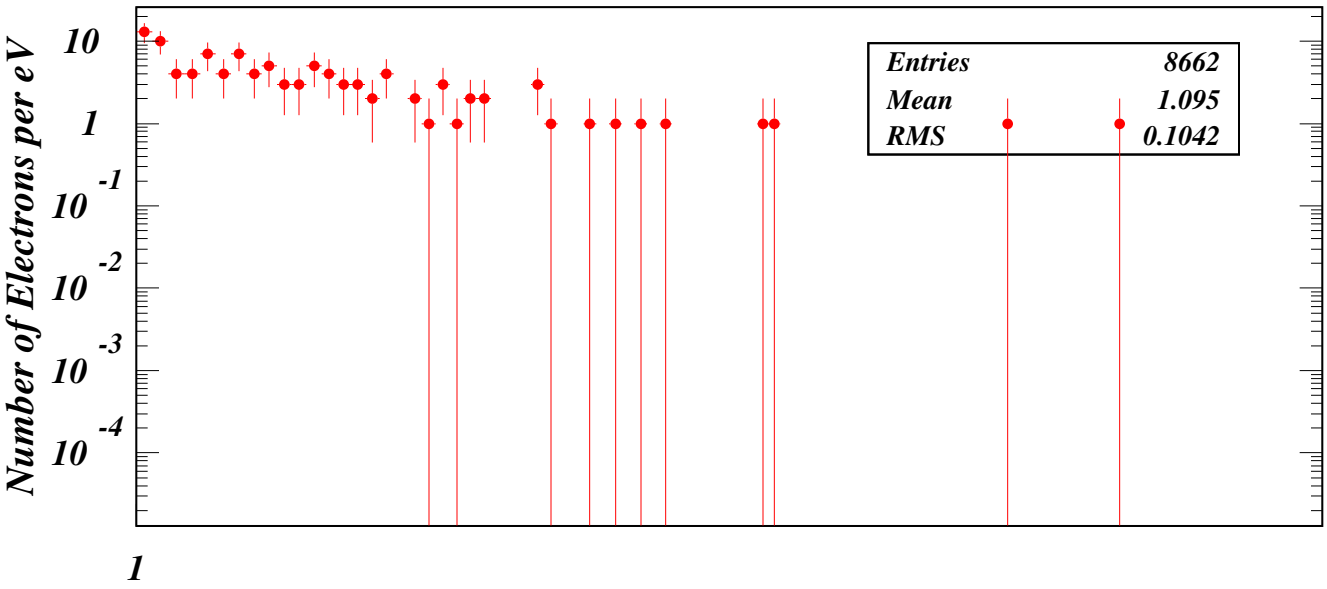
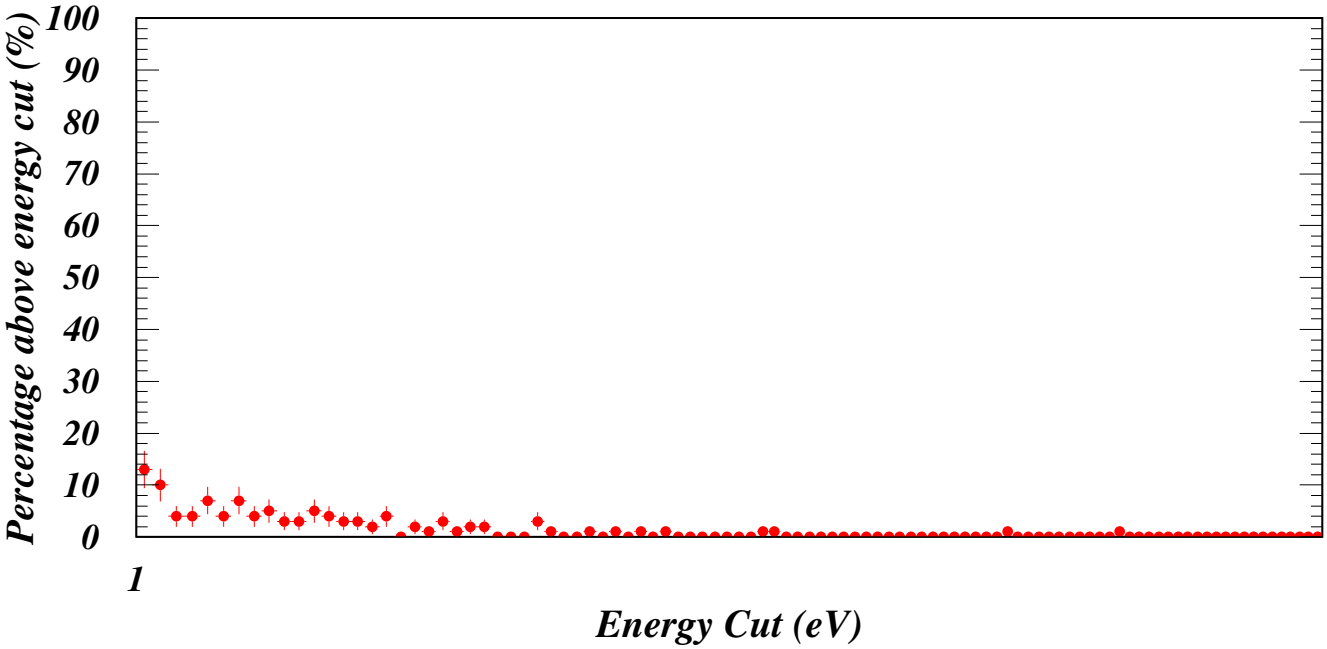
Job 34157: Photoelectron Energies





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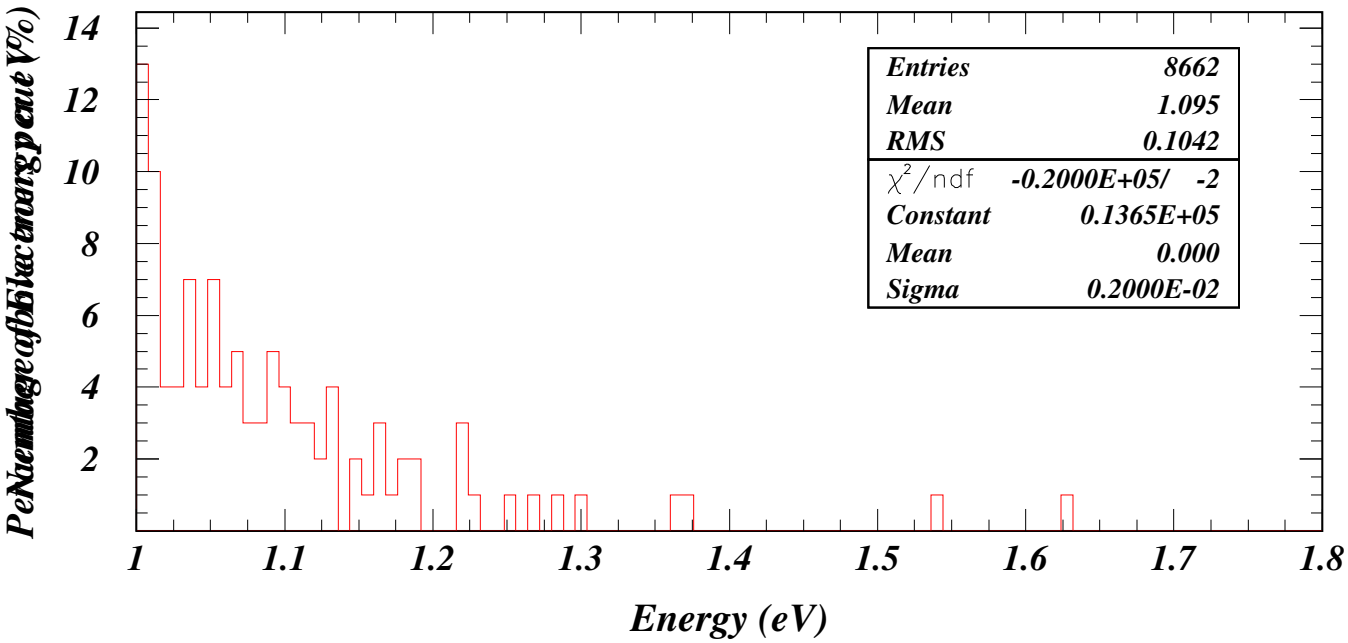
Job 34157: Photoelectron Energies



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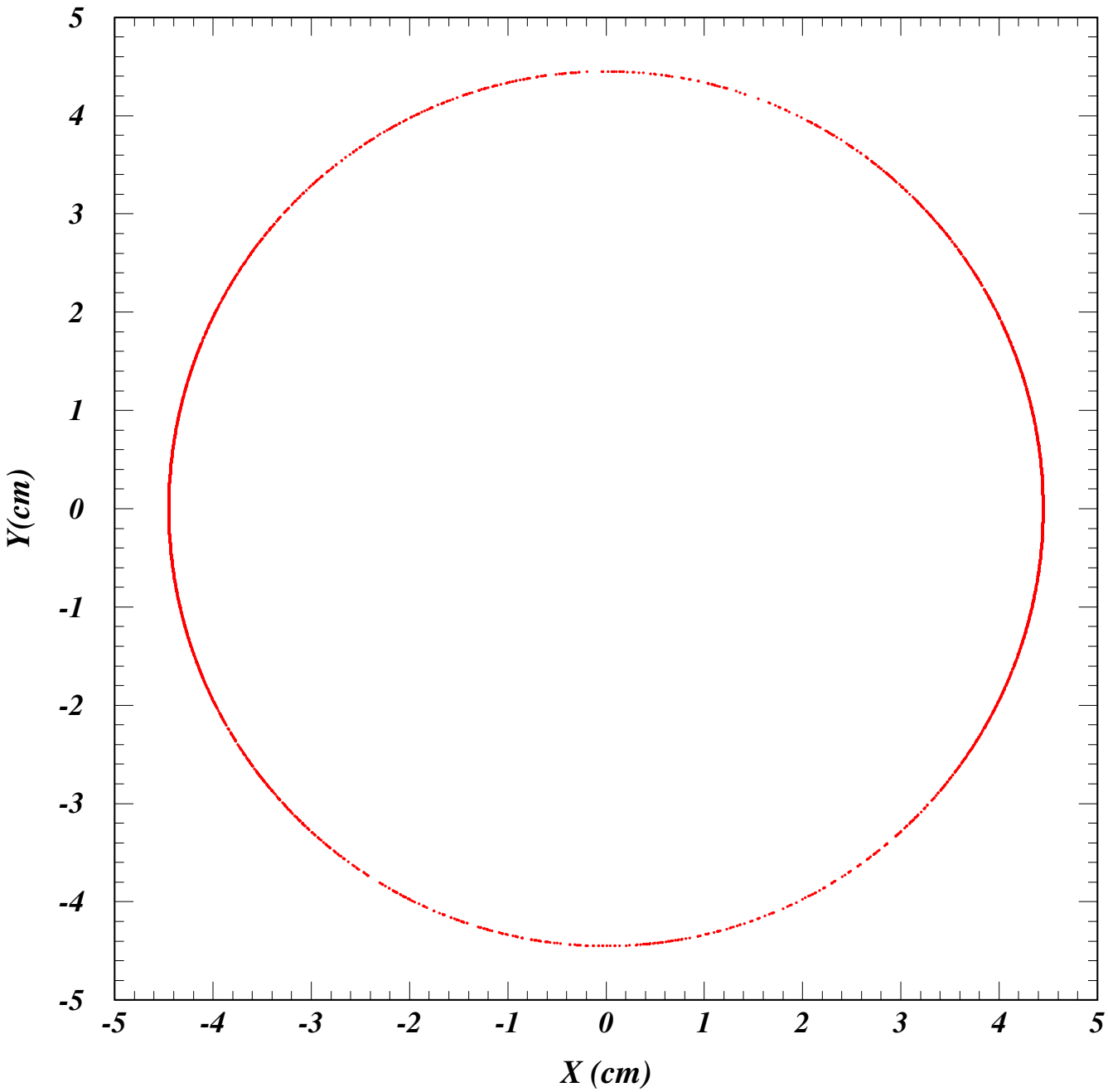
Job 34157: Photoelectron Production Distributions



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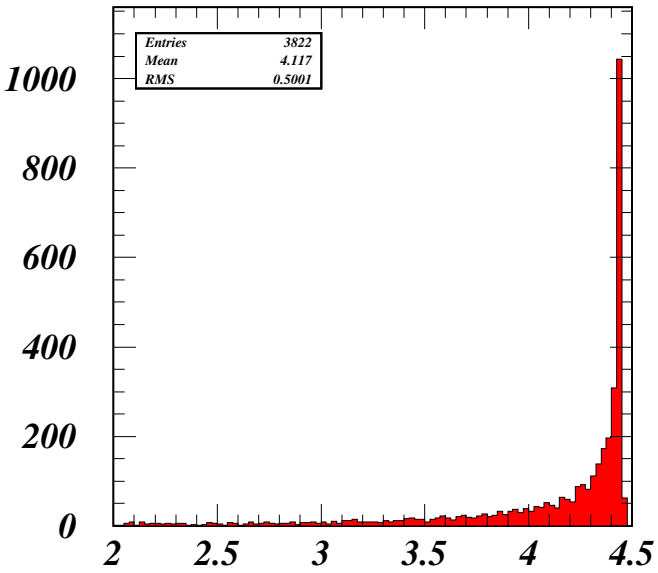
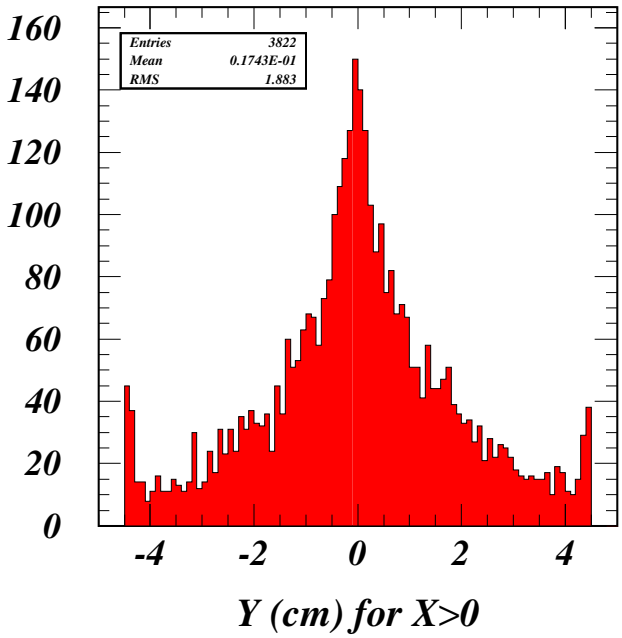
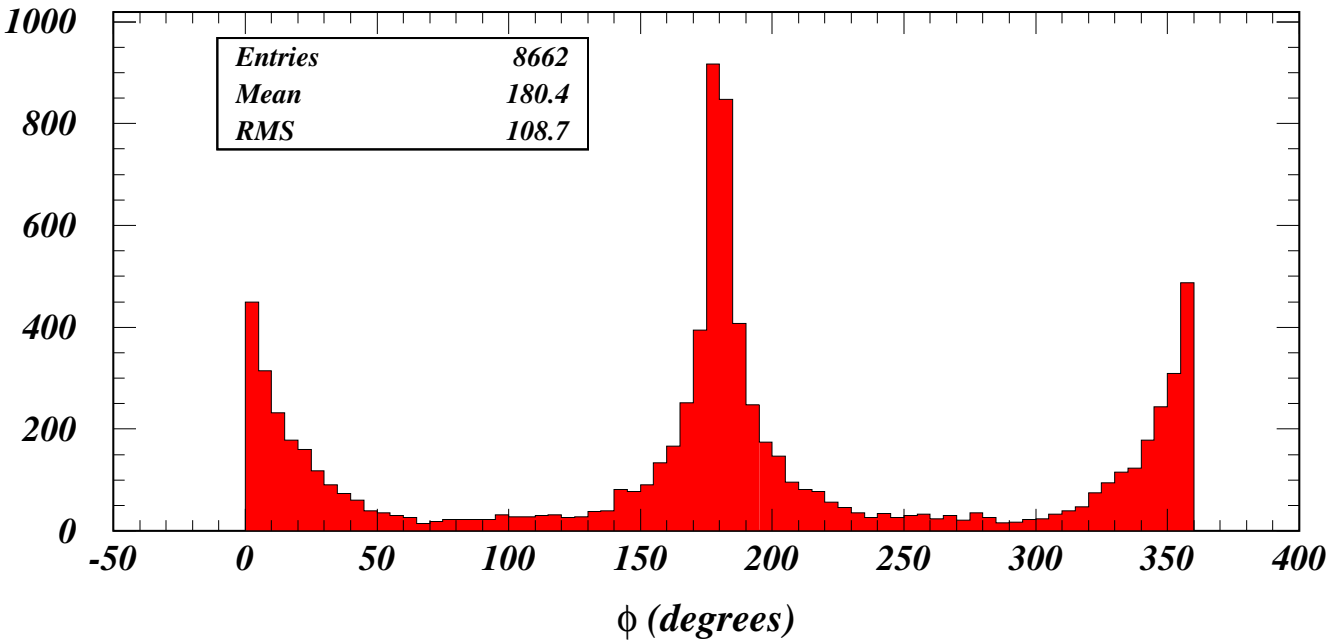
Job 34157: Photoelectron Production Distributions







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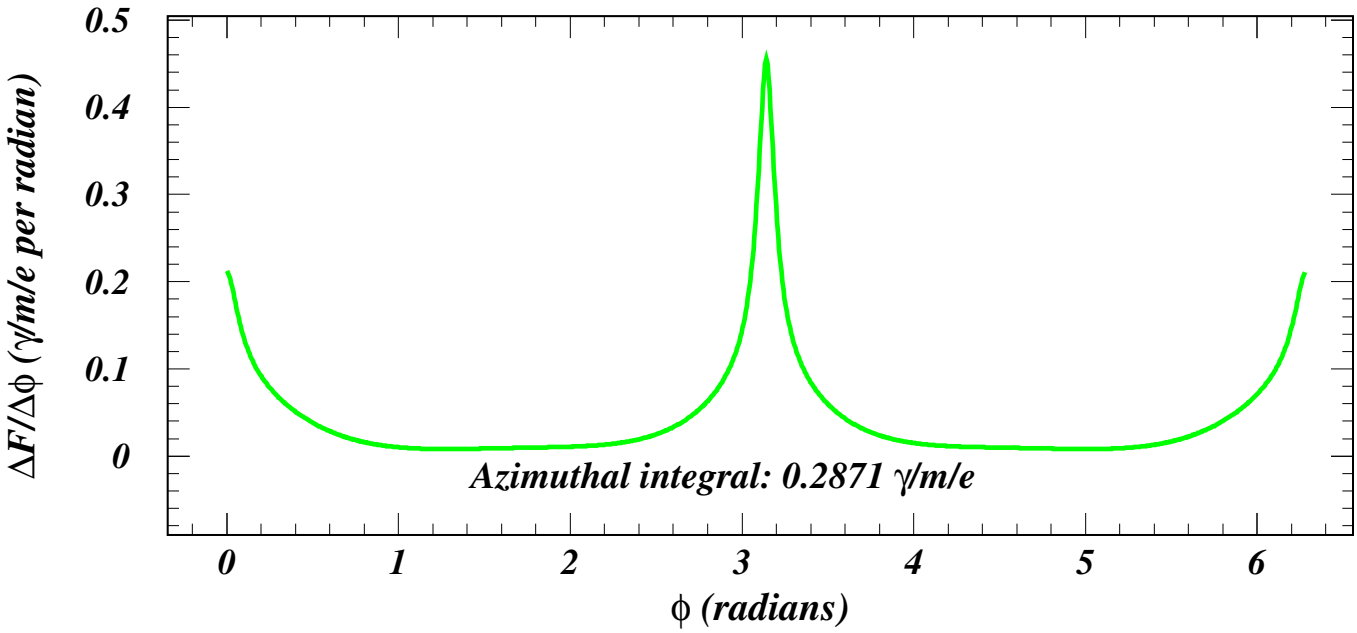
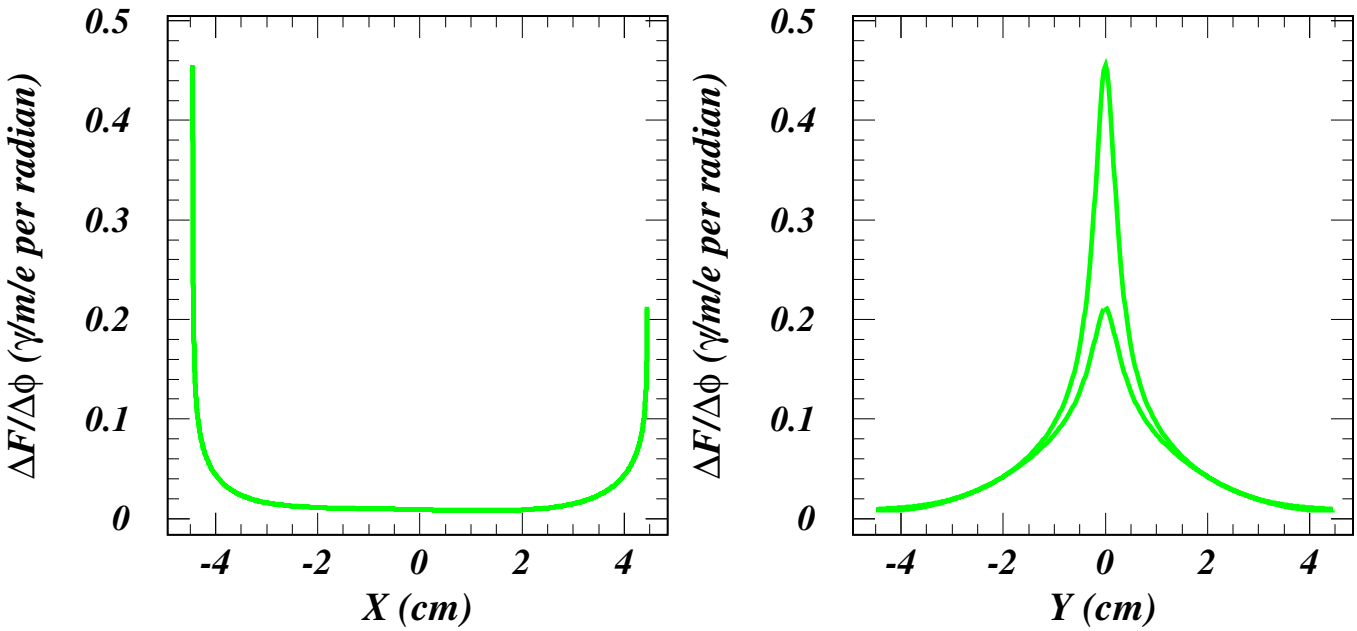
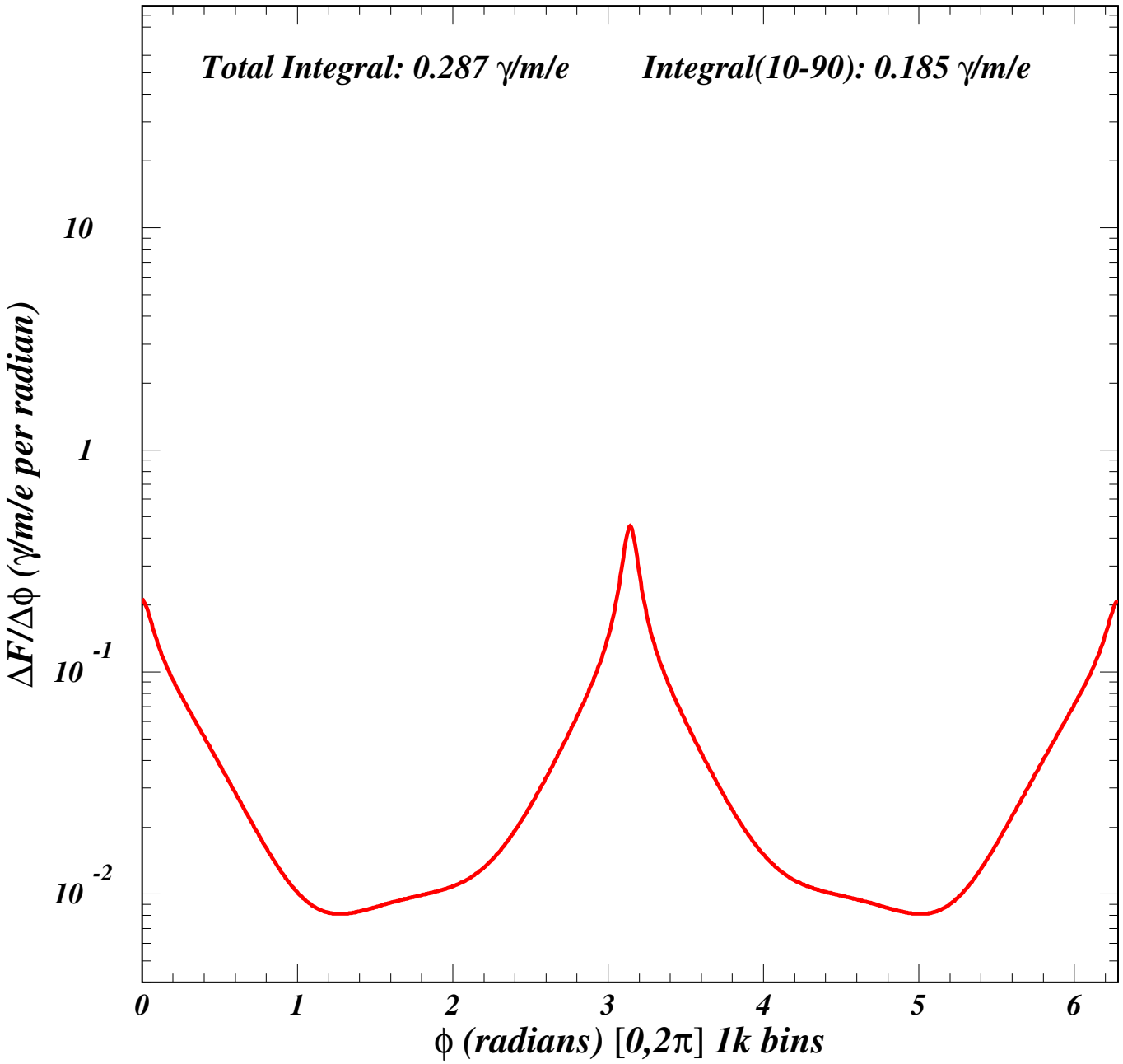
Job 34157: Photoelectron Production Distributions





12/10/15 15.28

Job 34157: Photoelectron Production Distributions