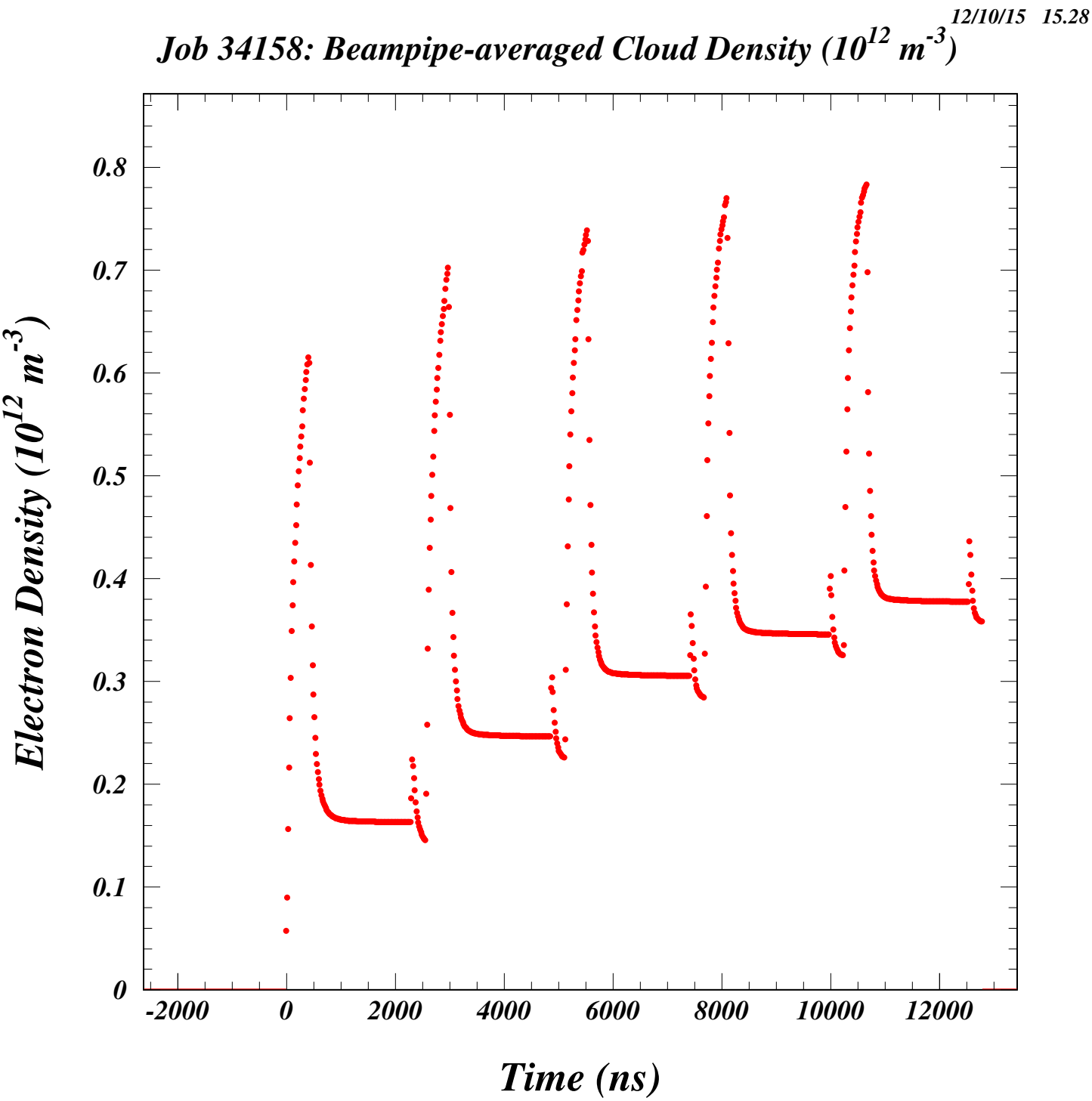
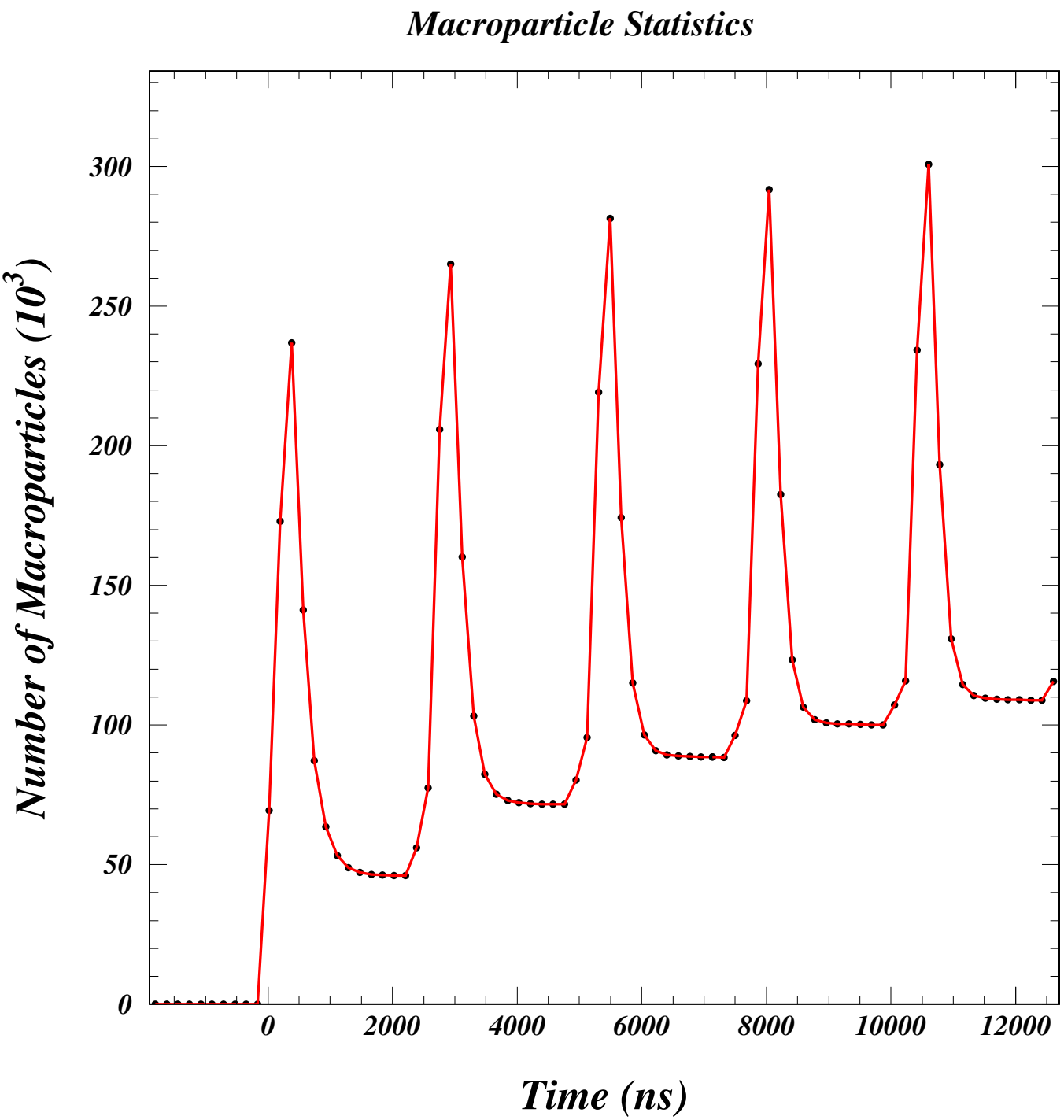
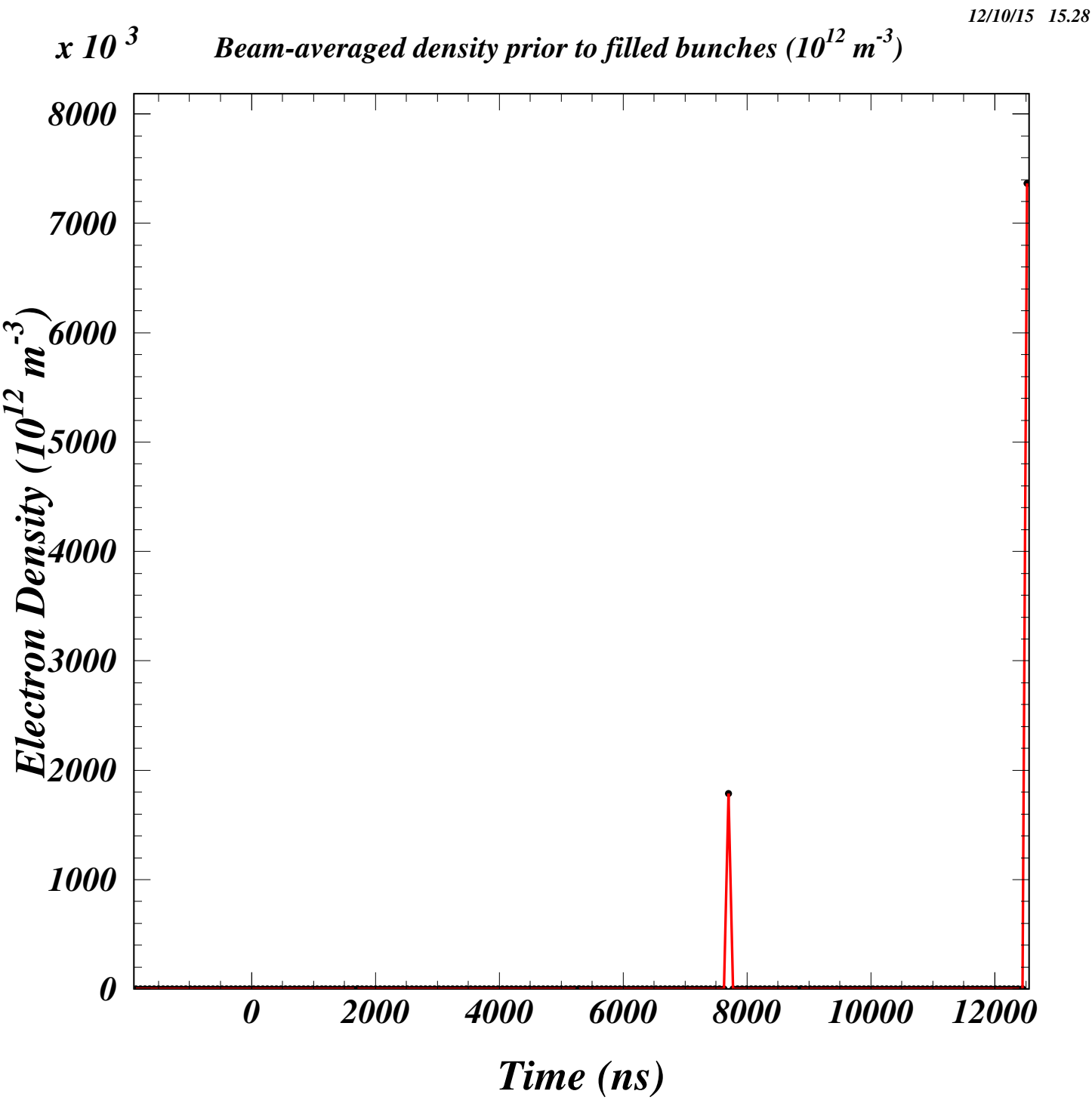
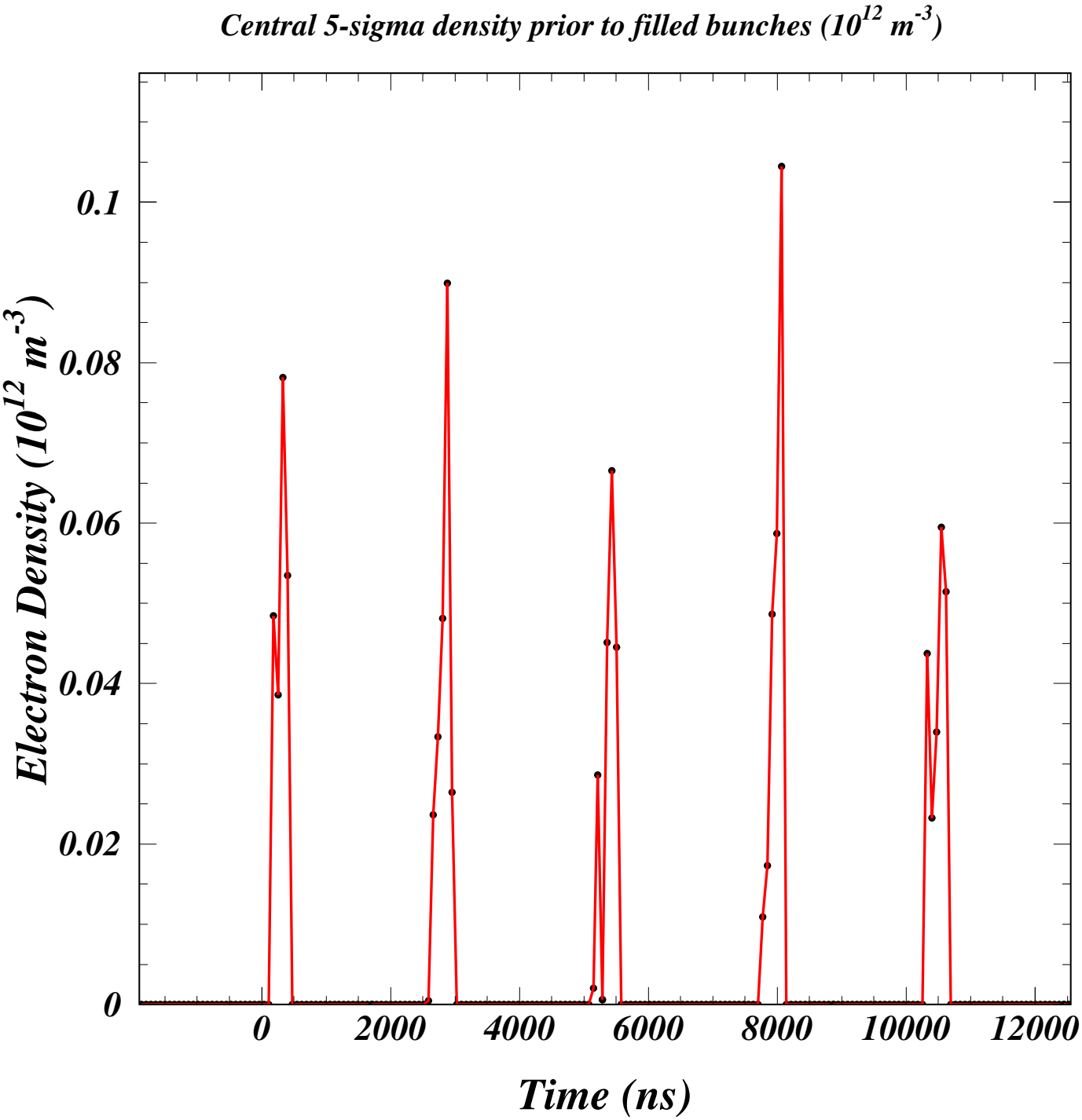

12/10/15 15.28
Job 34158: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
-2000
0
2000
4000
6000
8000
10000
12000
Time (ns)

12/10/15 15.28

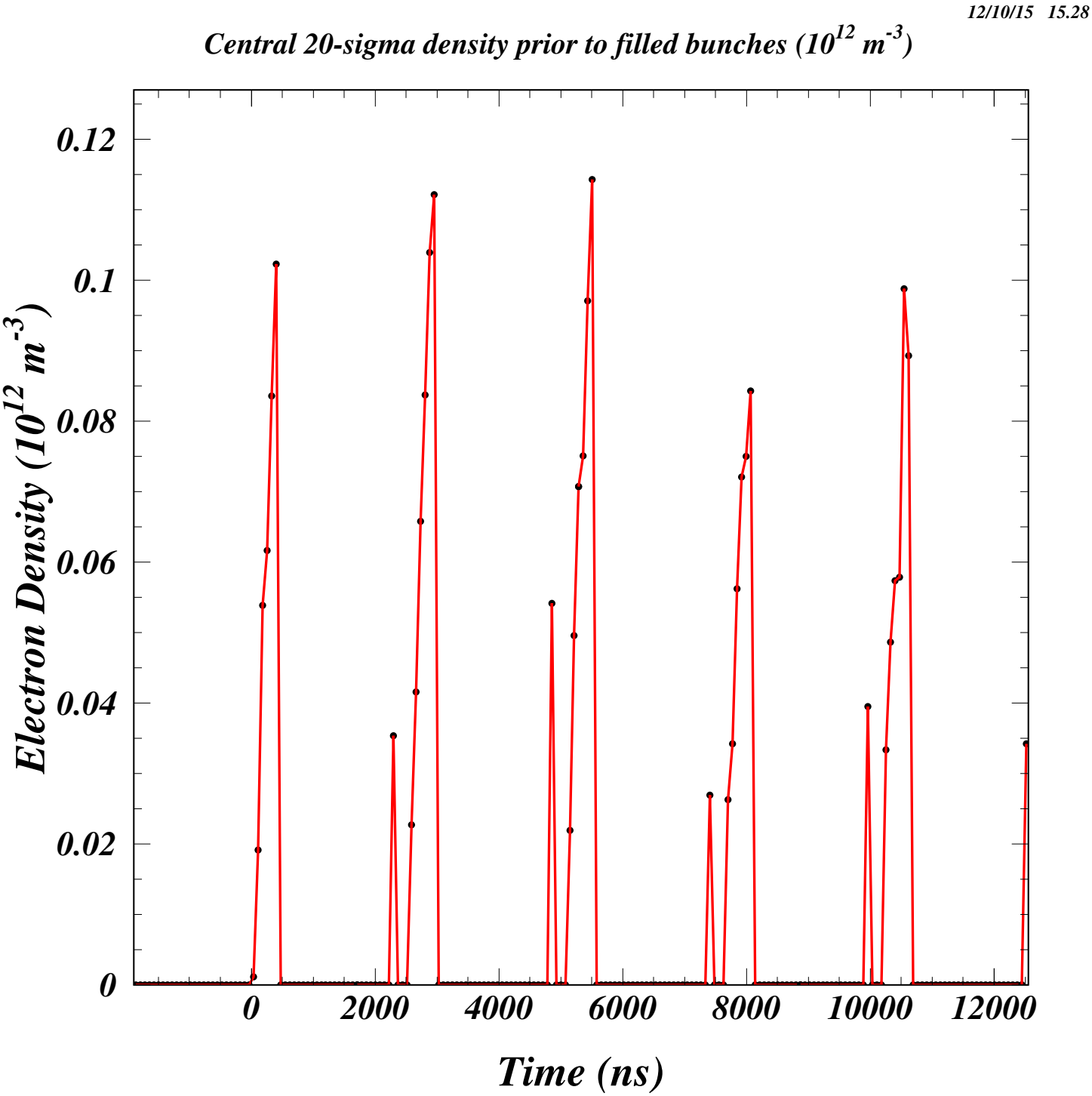

Macroparticle Statistics
Number of Macroparticles (10^3)
300
250
200
150
100
50
0
0
2000
4000
6000
8000
10000
12000
Time (ns)


12/10/15 15.28
x 10 3
Beam-averaged density prior to filled bunches (10^12 m^-3)
8000
7000
6000
5000
4000
3000
2000
1000
0
Electron Density (10^12 m^-3)
0
2000
4000
6000
8000
10000
12000
Time (ns)

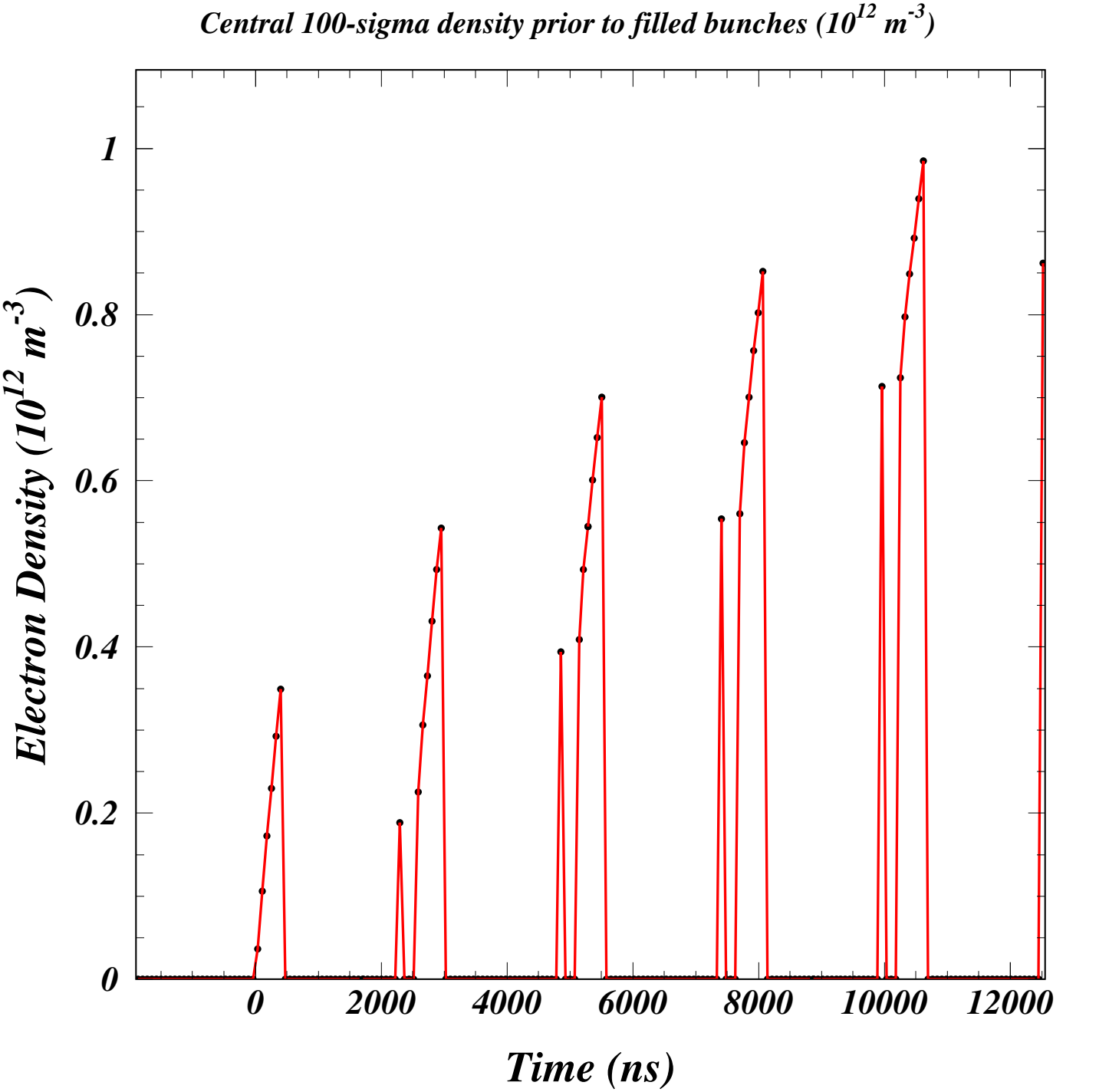
12/10/15 15.28


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

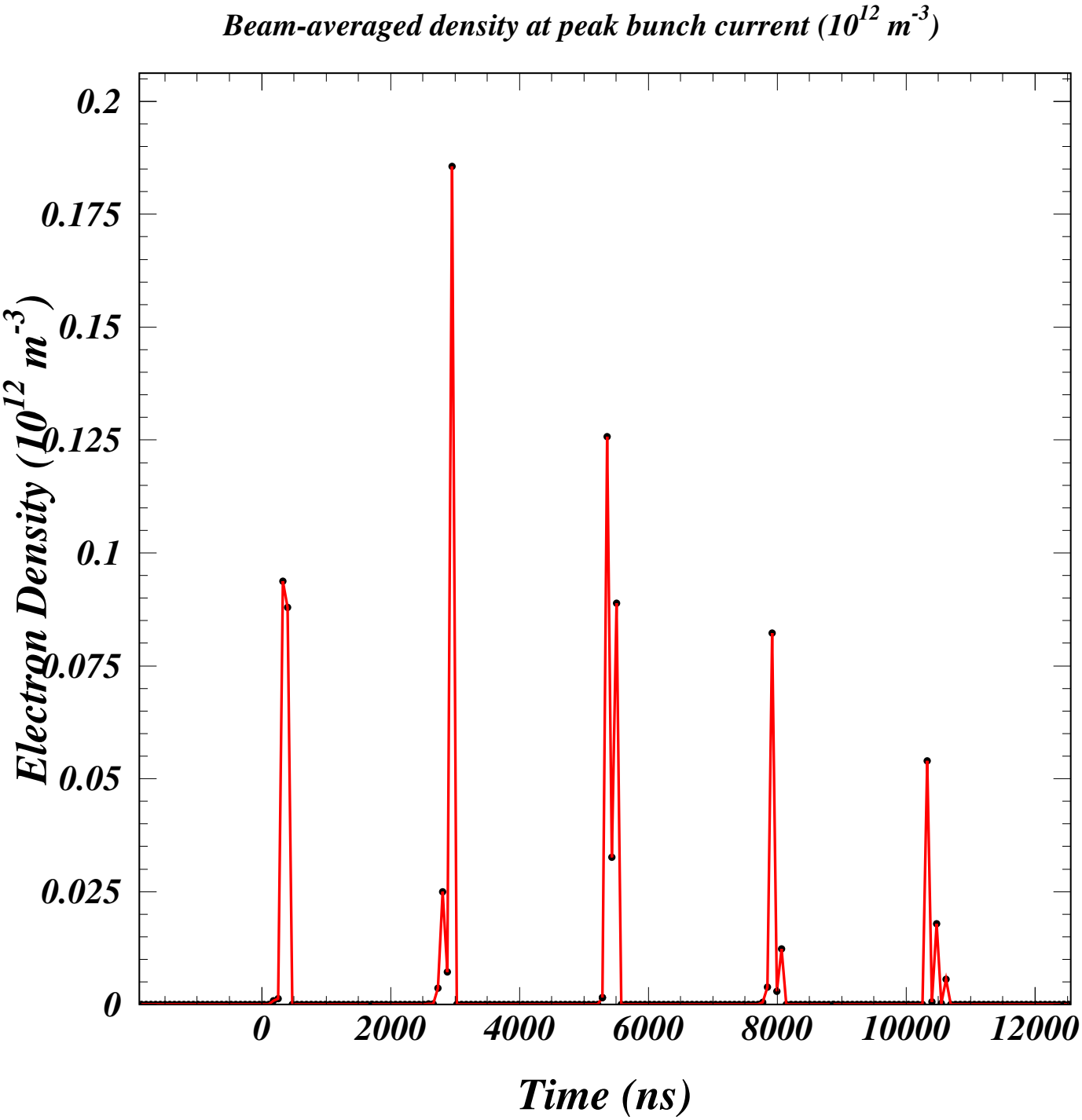
12/10/15 15.28


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

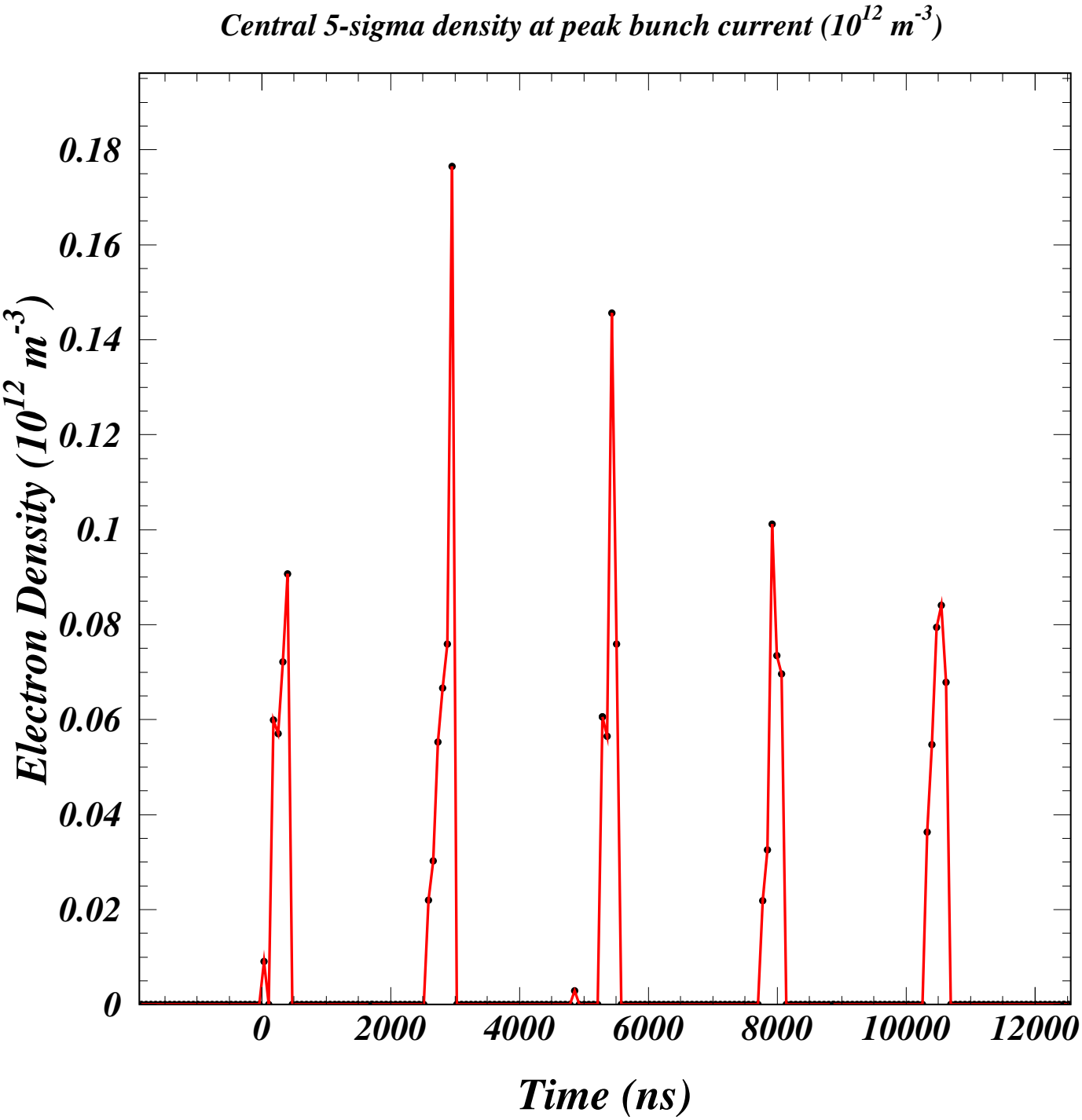
12/10/15 15.28


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)

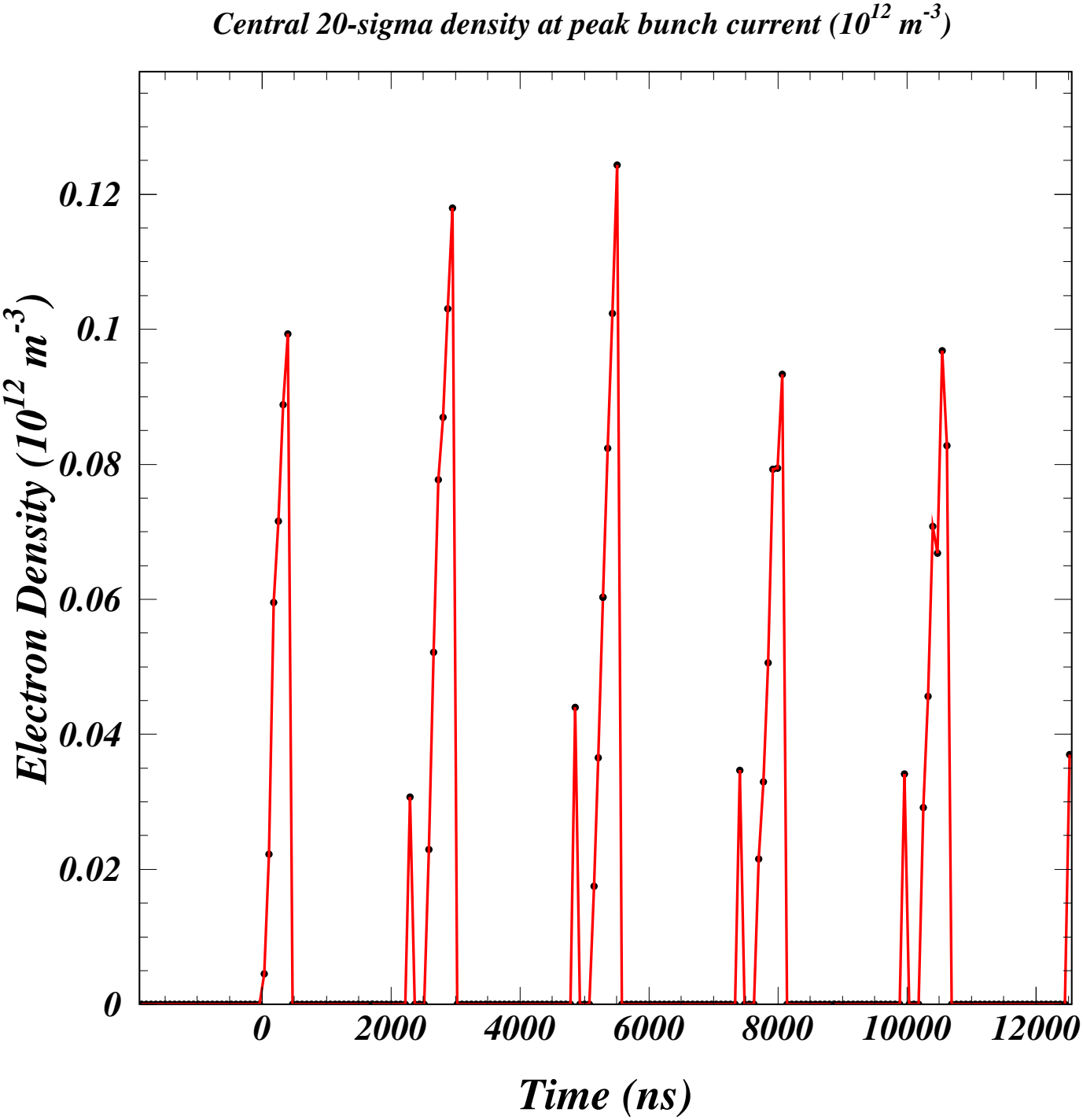
12/10/15 15.28


Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
0
2000
4000
6000
8000
10000
12000
Time (ns)

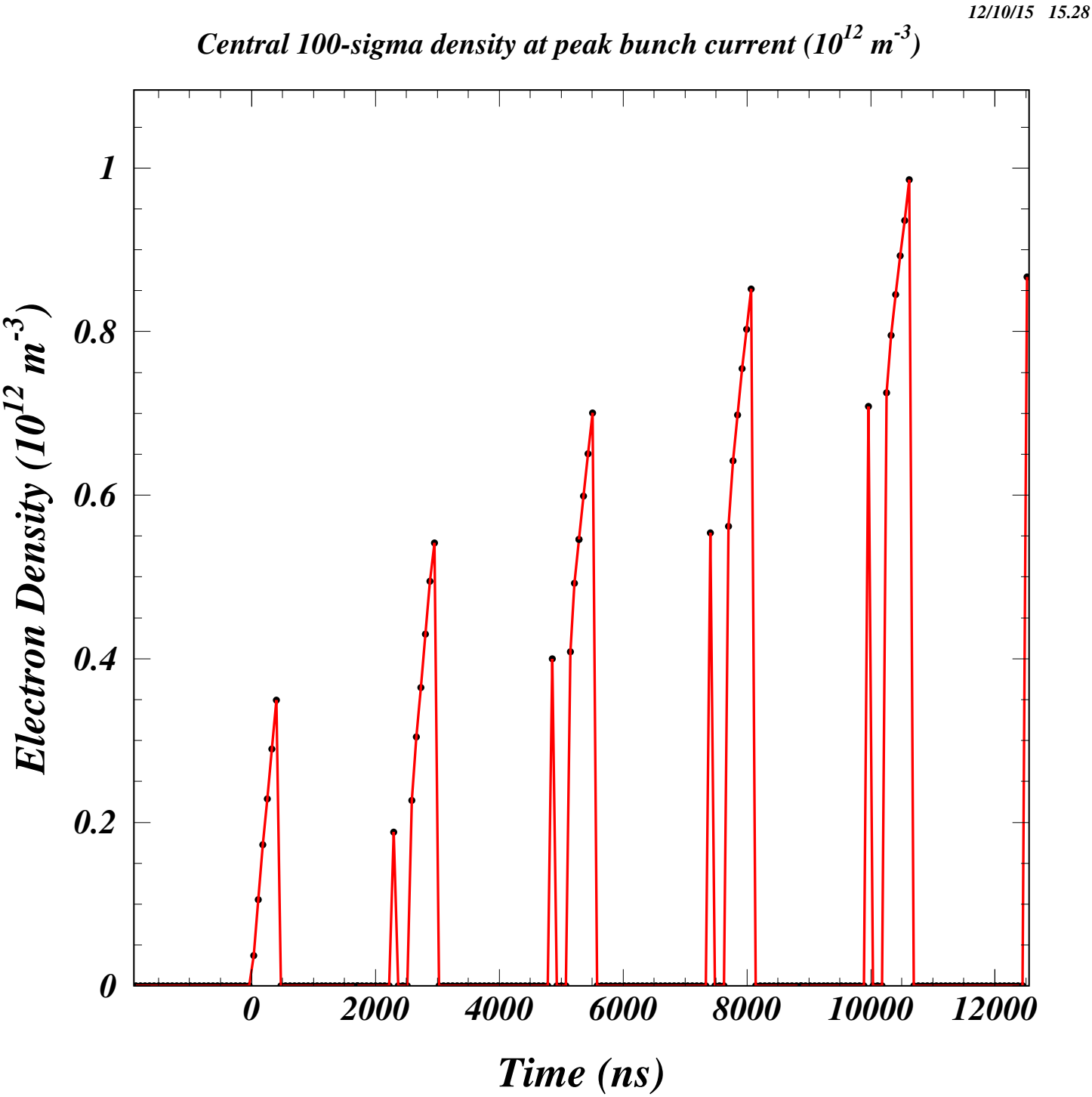
12/10/15 15.28


Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.18
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)

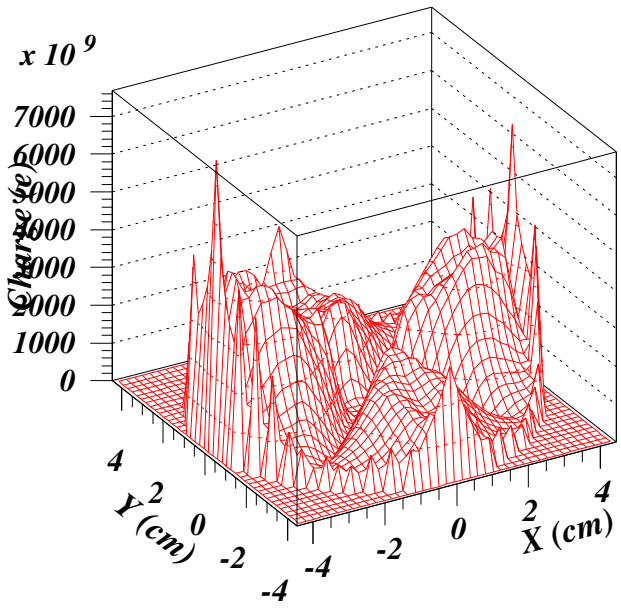
12/10/15 15.28

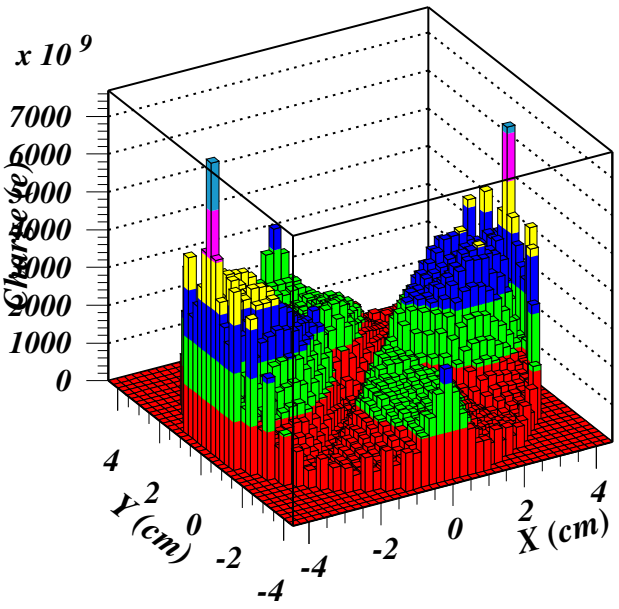

Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.12
0.1
0.08
0.06
0.04
0.02
0
0
2000
4000
6000
8000
10000
12000
Time (ns)

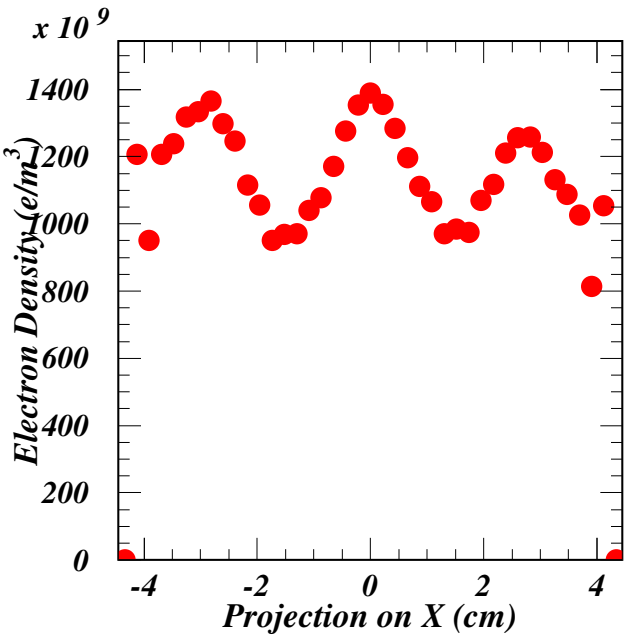
12/10/15 15.28

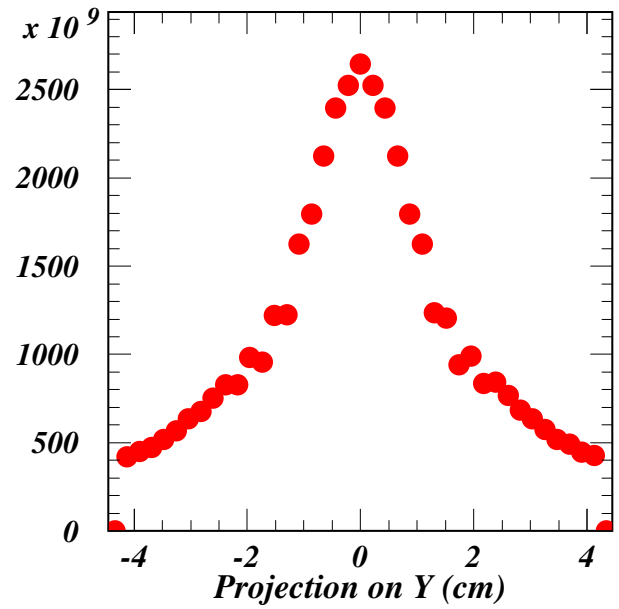

Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
Time (ns)

Job 34158: Cloud Density (e/m^3) Averaged Over 12782 ns

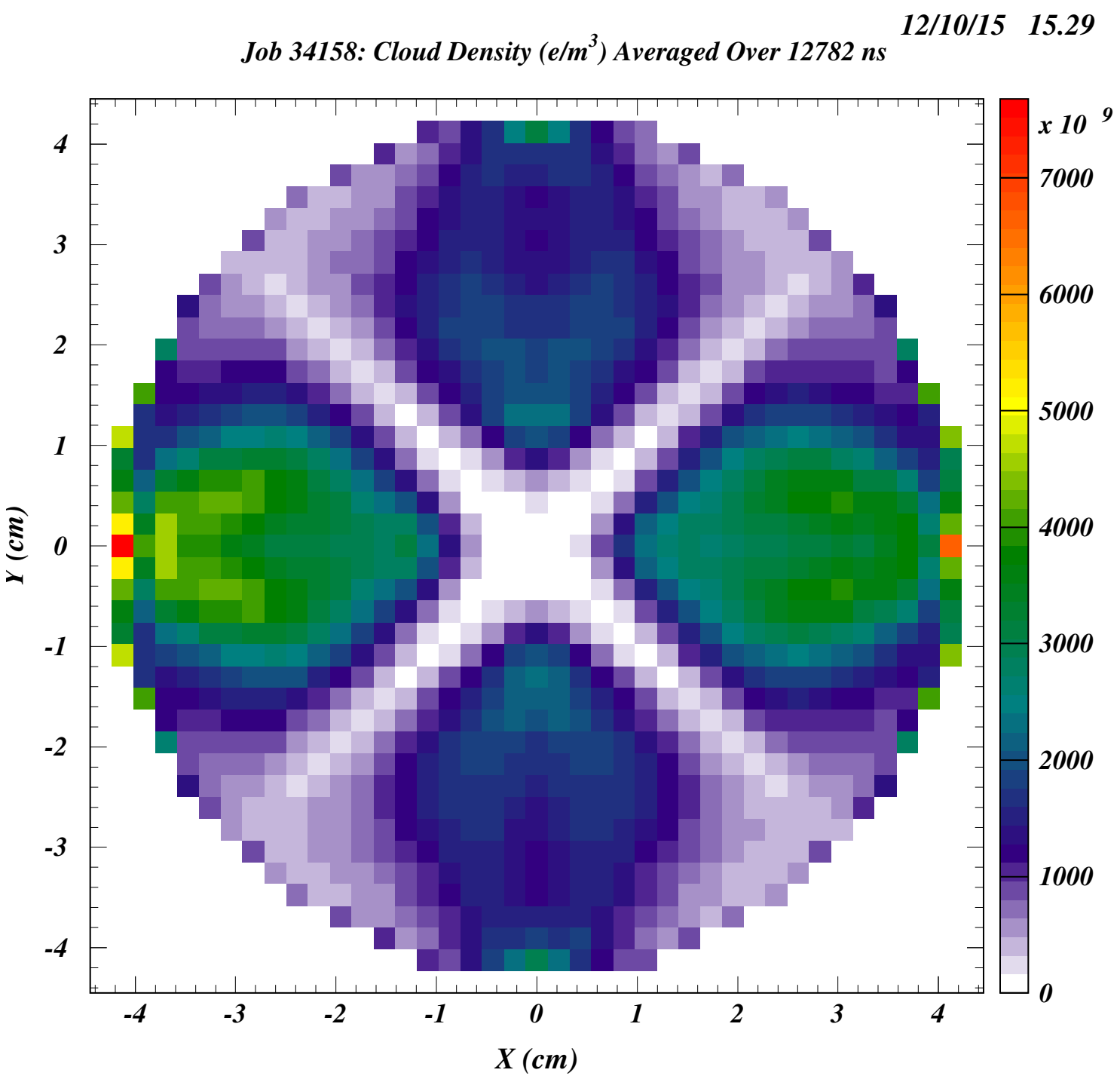






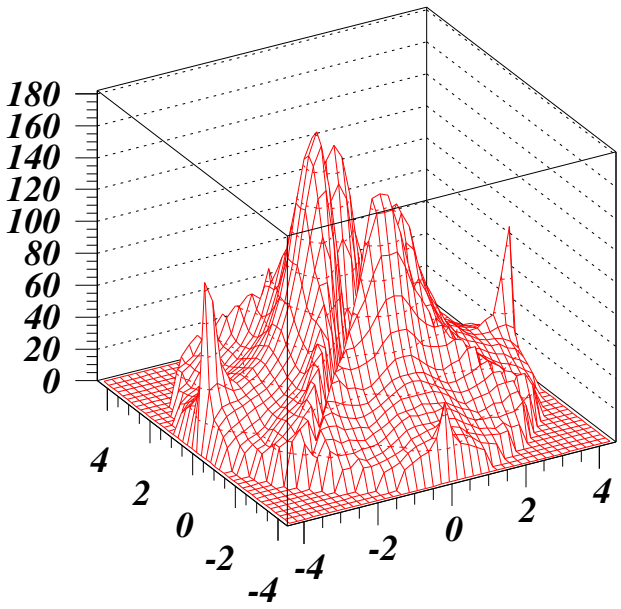


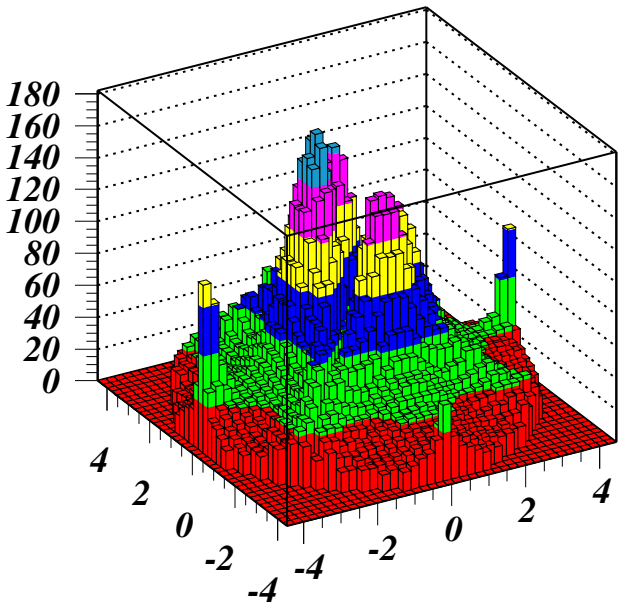
12/10/15 15.29

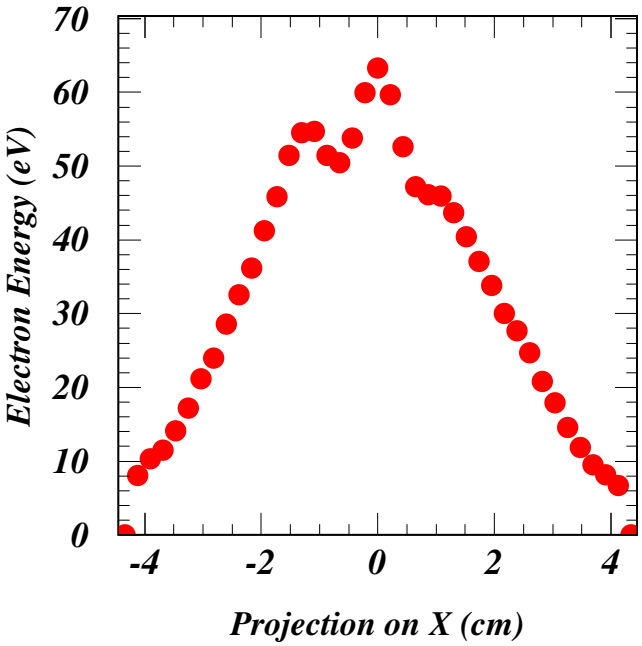

Job 34158: Cloud Density (e/m3) Averaged Over 12782 ns
x 10 9
7000
6000
5000
4000
3000
2000
1000
0
Y (cm)
X (cm)
4
3
2
1
0
-1
-2
-3
-4

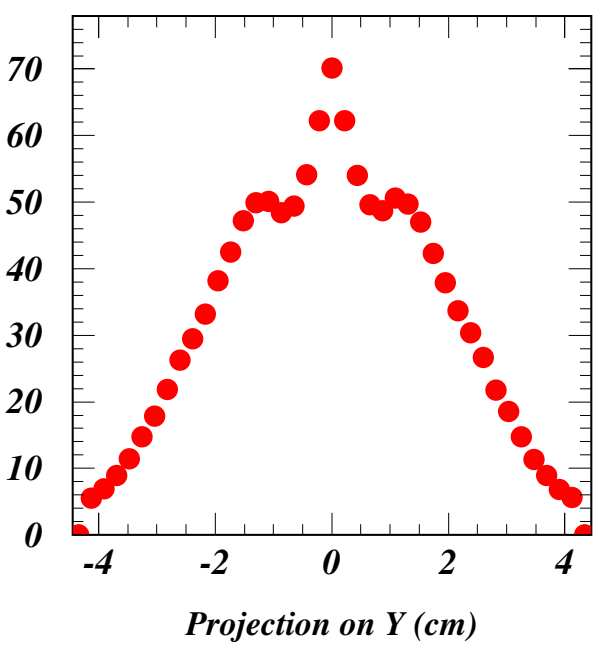
12/10/15 15.29

Job 34158: Electron Energies (eV) Averaged Over 12782 ns



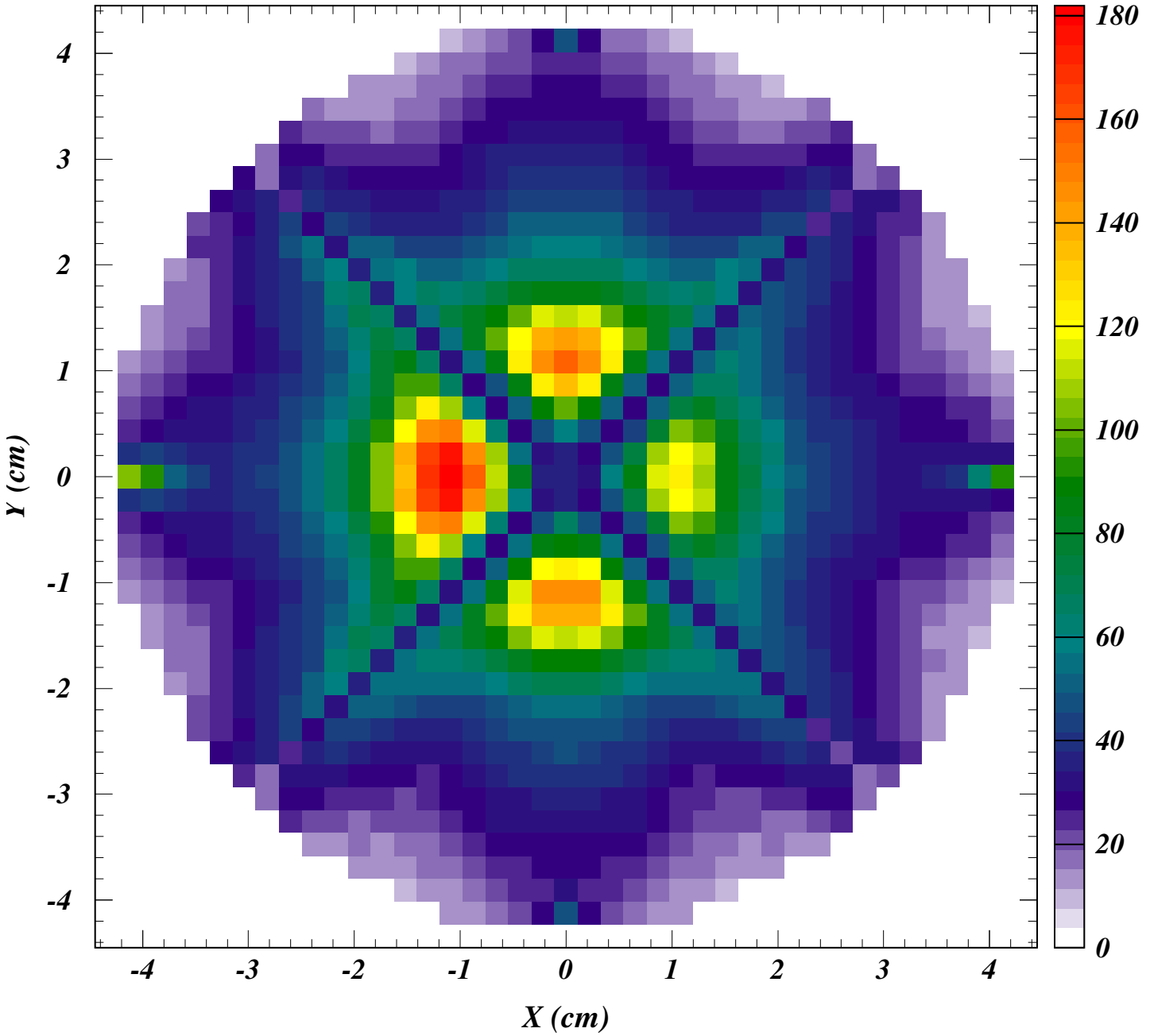






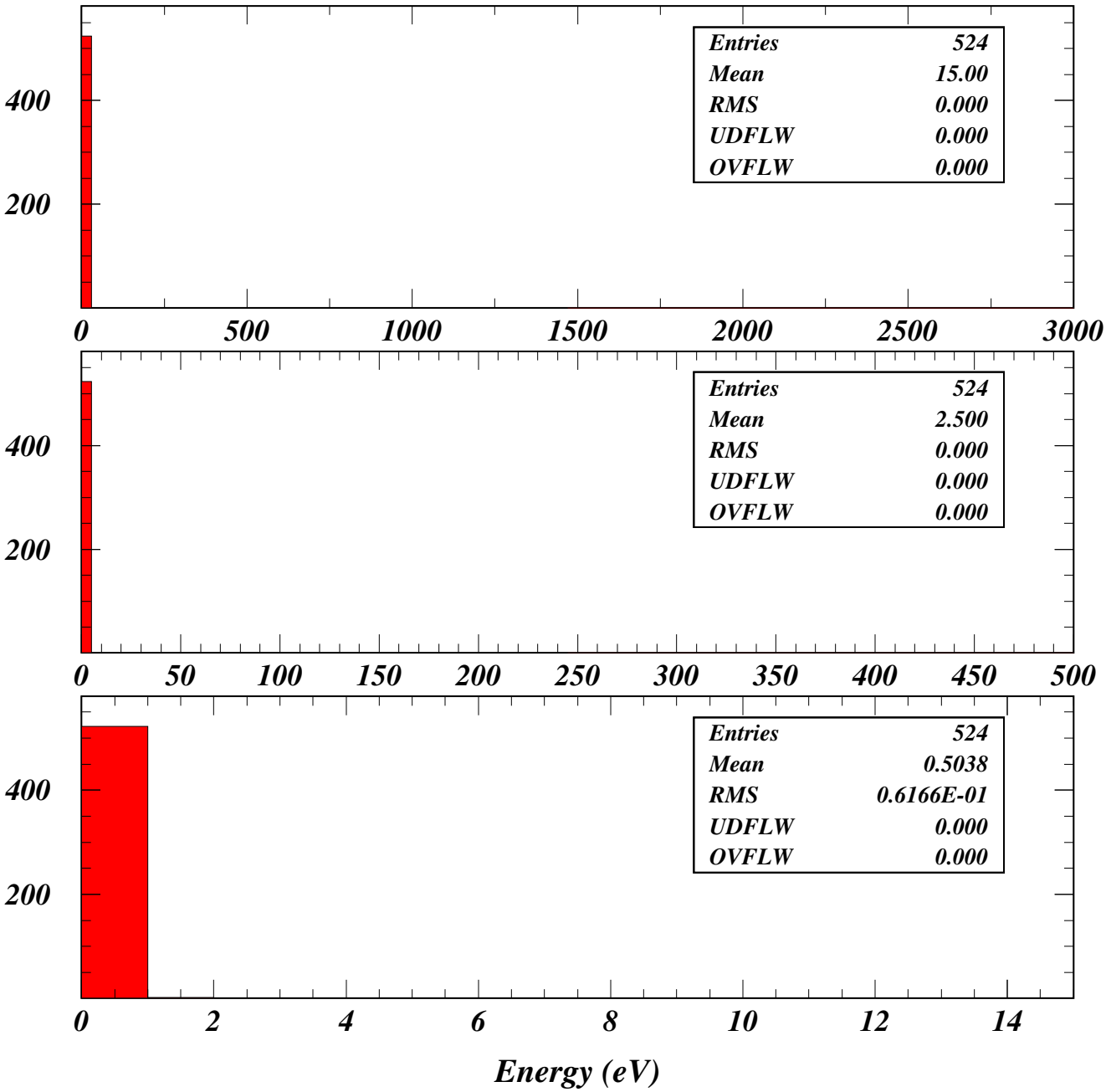
12/10/15 15.29

Job 34158: Electron Energies (eV) Averaged Over 12782 ns



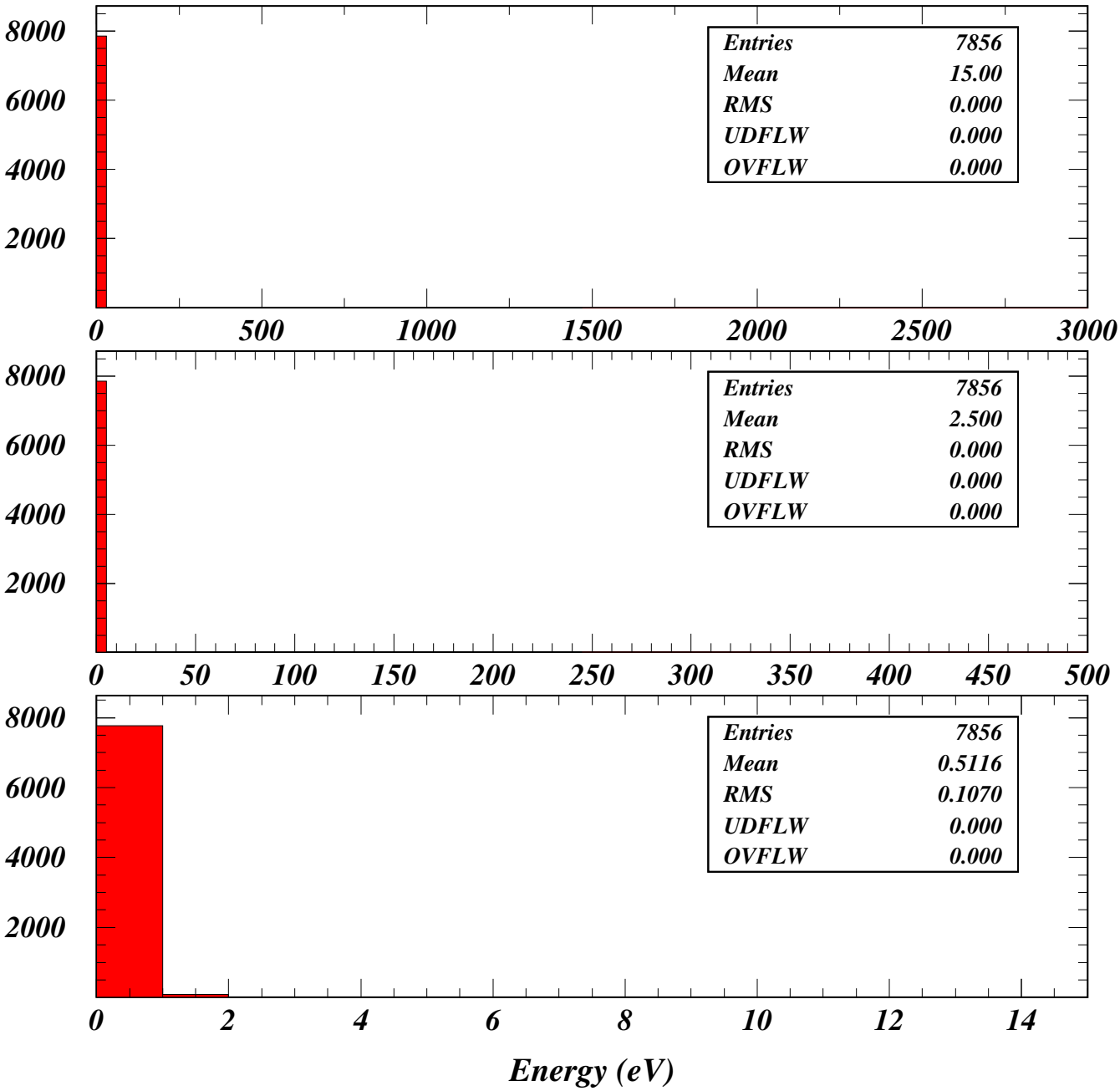
12/10/15 15.29

Job 34158: Photoelectrons from Direct Photons



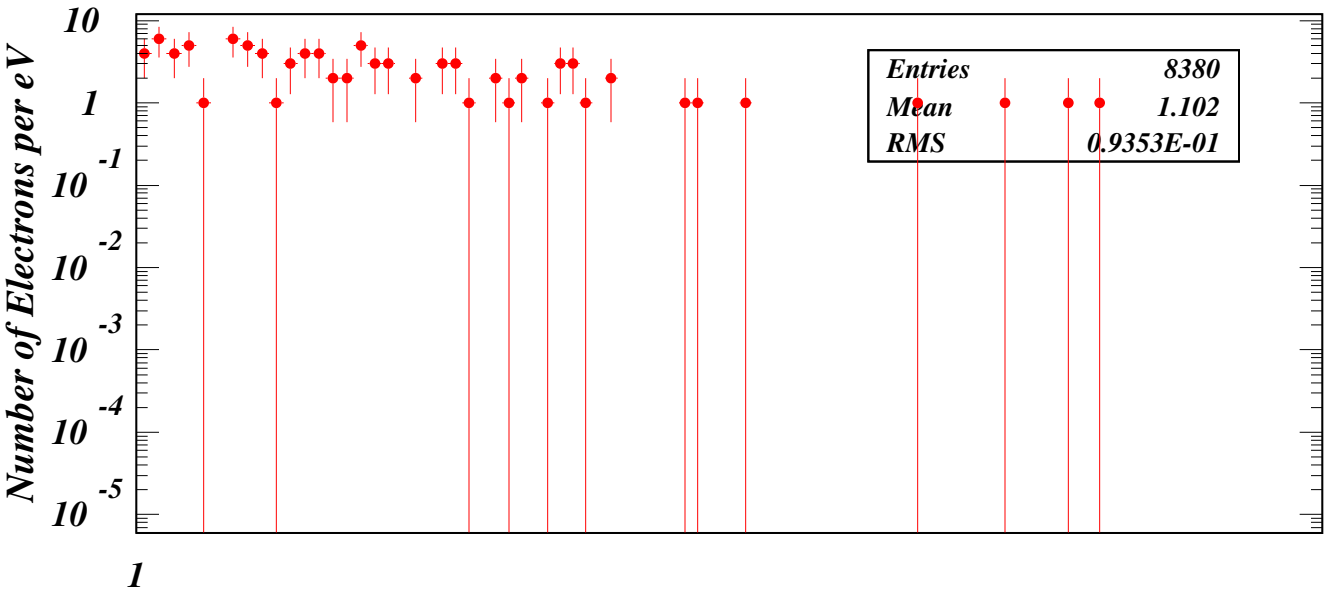
12/10/15 15.29

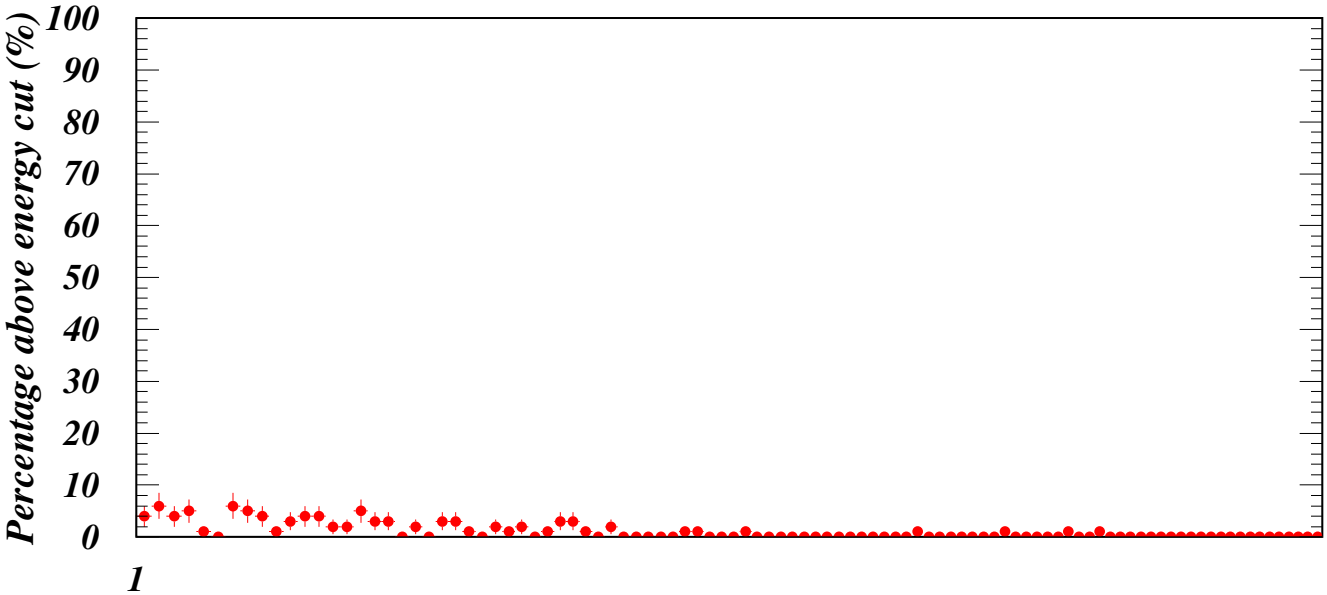
Job 34158: Photoelectrons from Reflected Photons



12/10/15 15.29

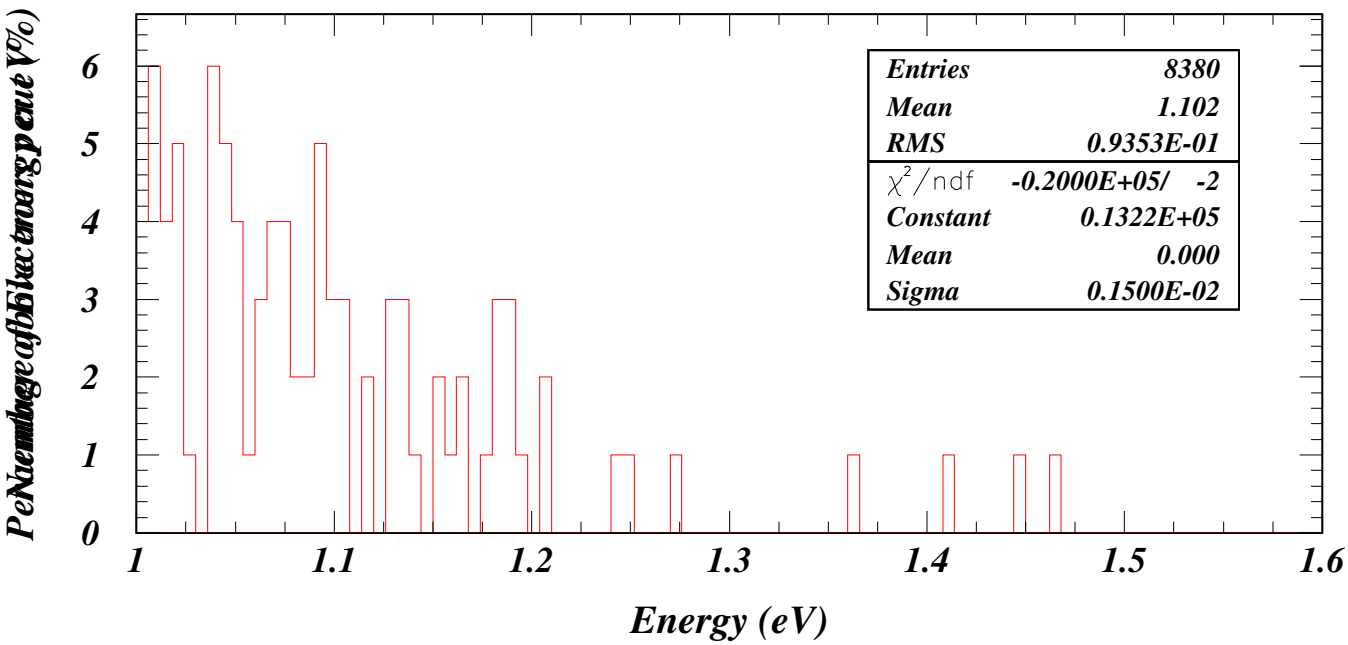
Job 34158: Photoelectron Energies





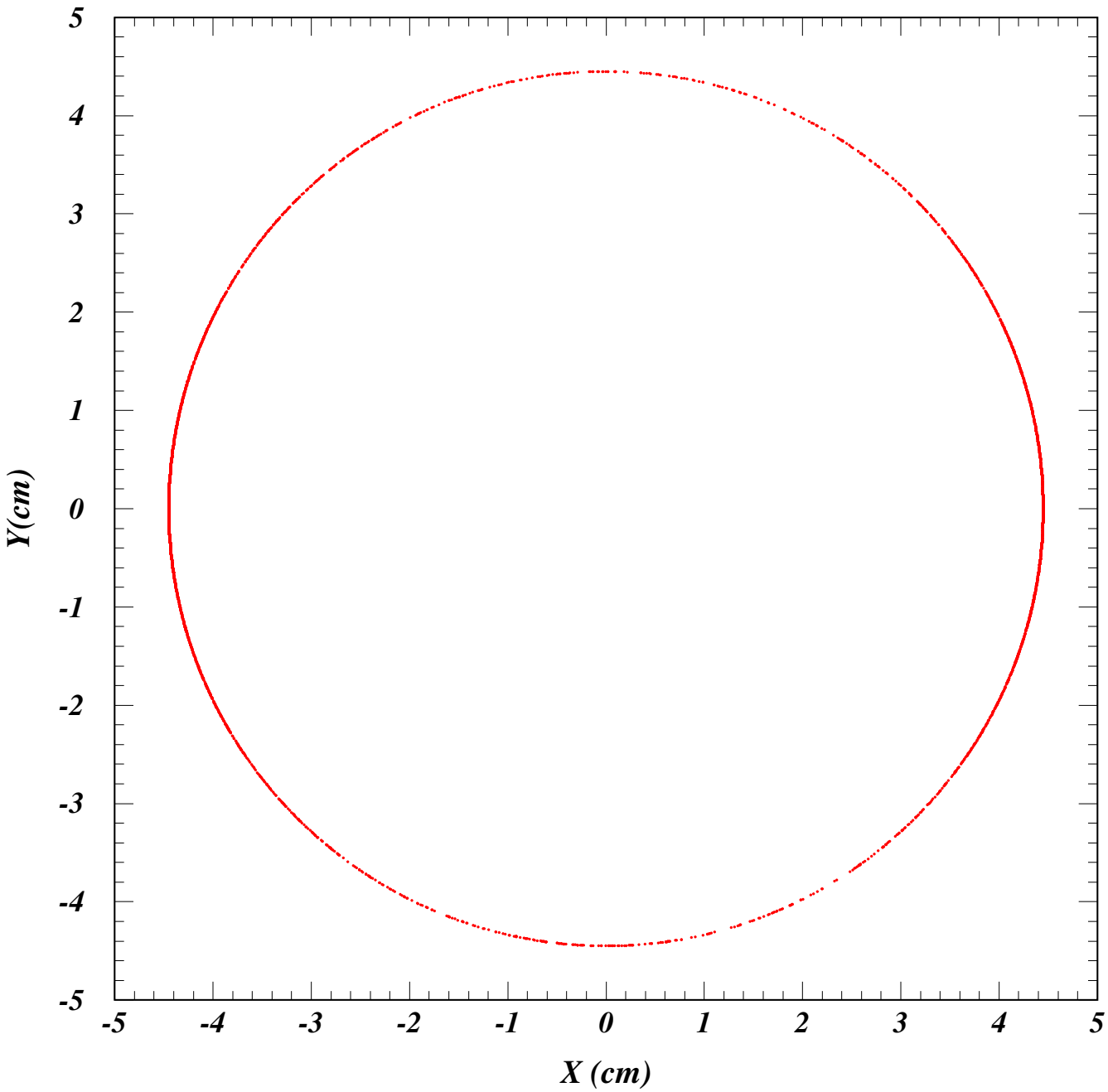
12/10/15 15.29

Job 34158: Photoelectron Energies



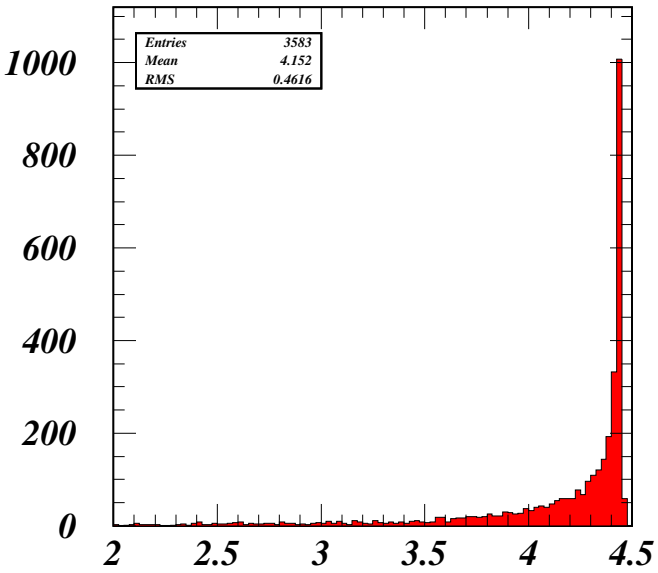
12/10/15 15.29

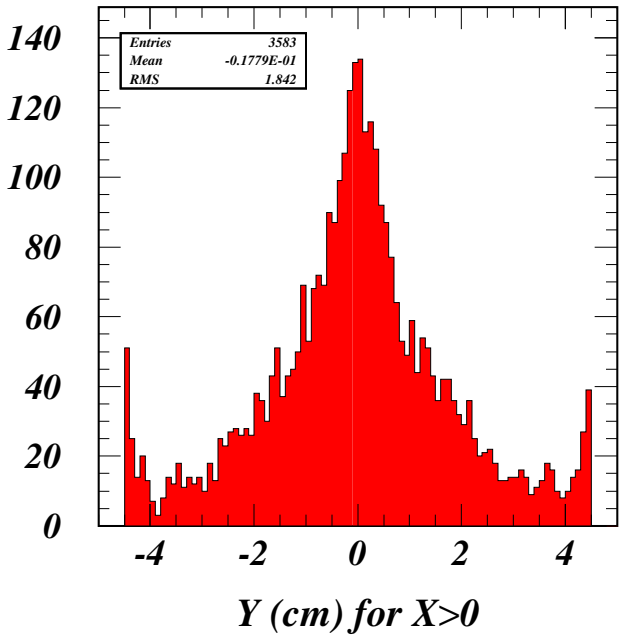
Job 34158: Photoelectron Production Distributions

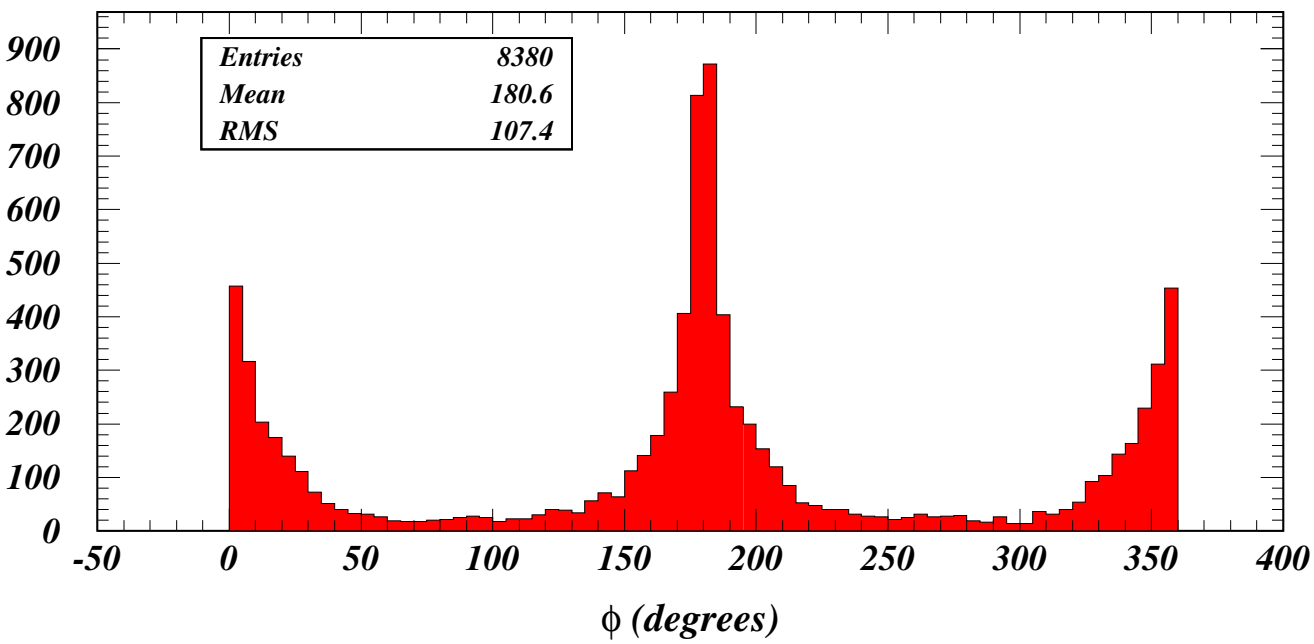


12/10/15 15.29

Job 34158: Photoelectron Production Distributions

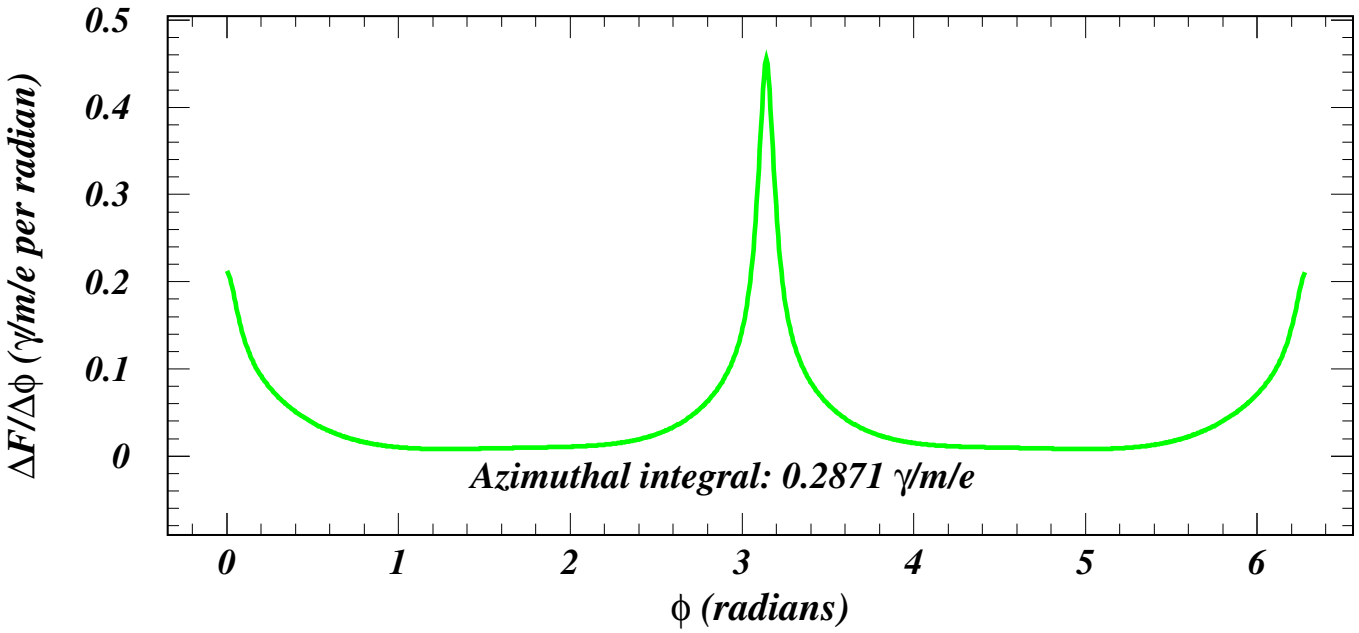


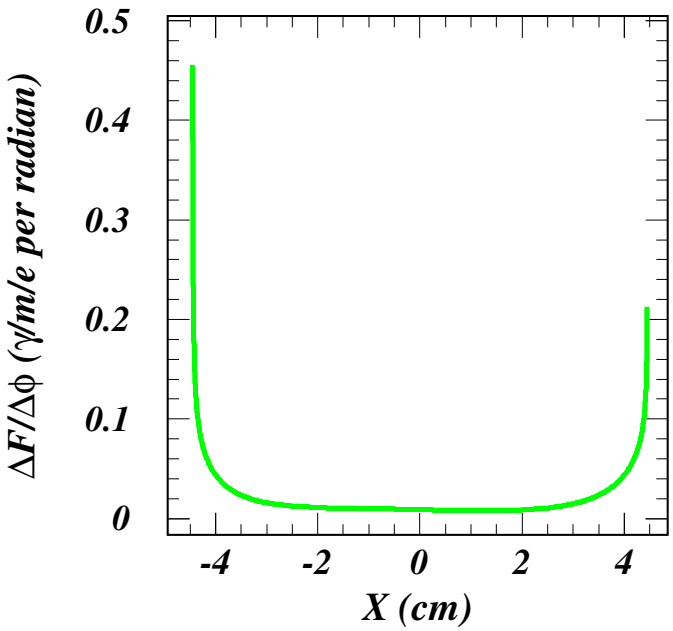


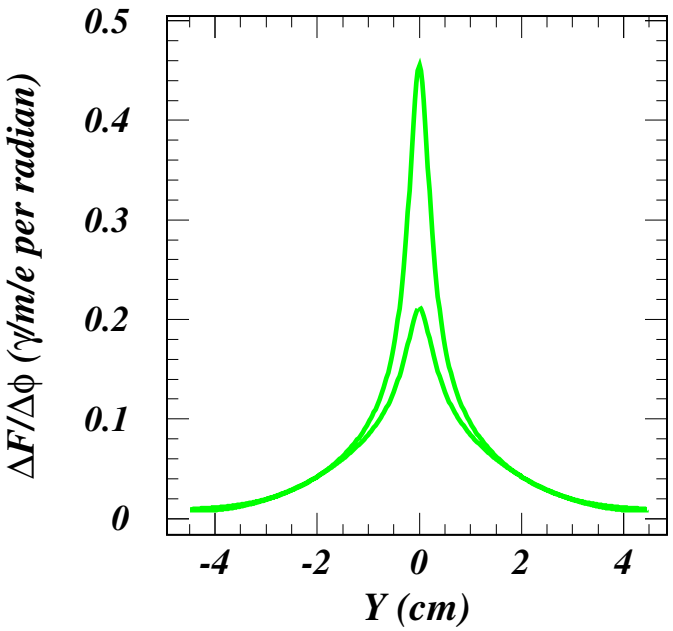


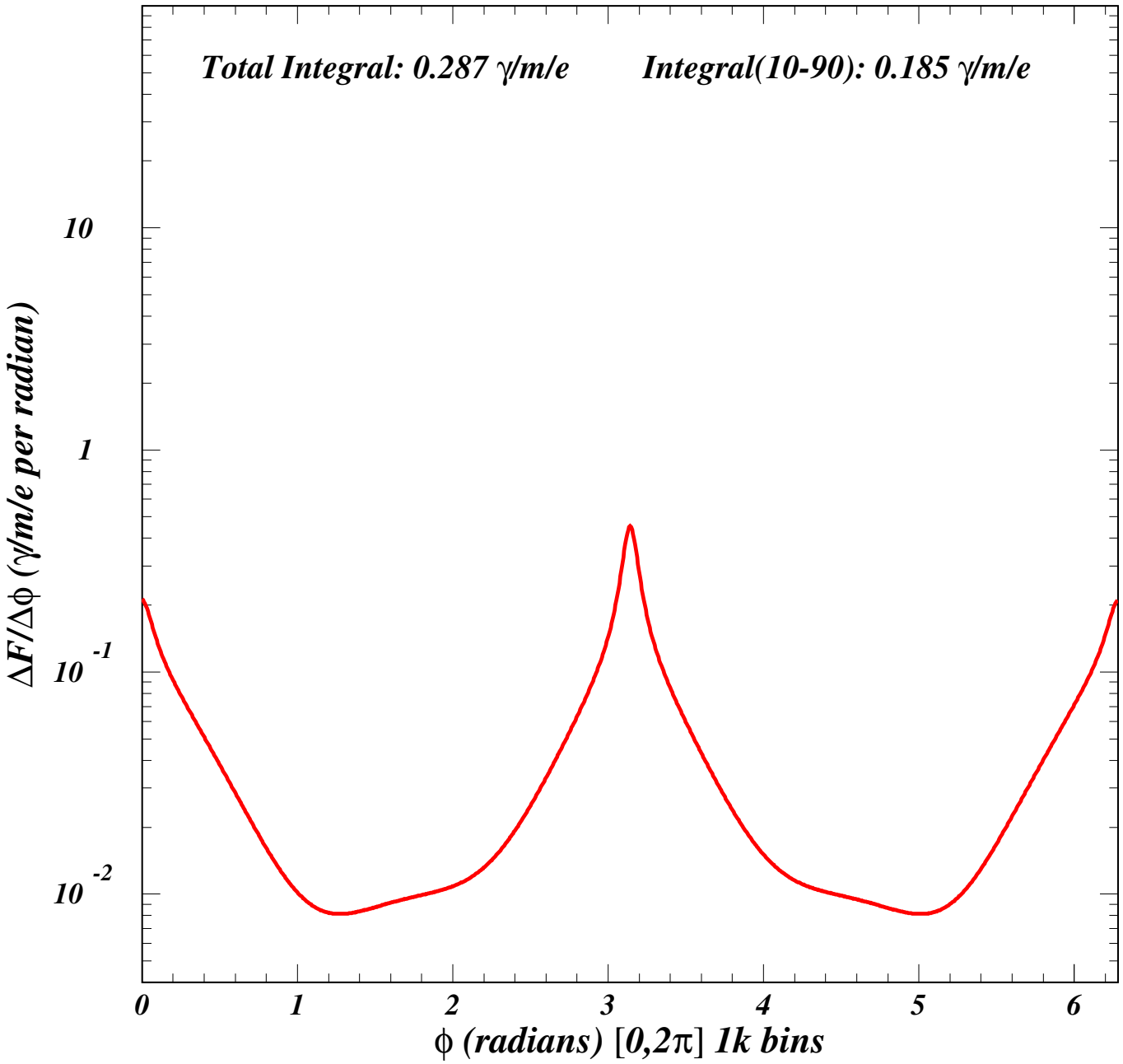
12/10/15 15.29

Job 34158: Photoelectron Production Distributions







12/10/15 15.29

Job 34158: Photoelectron Production Distributions