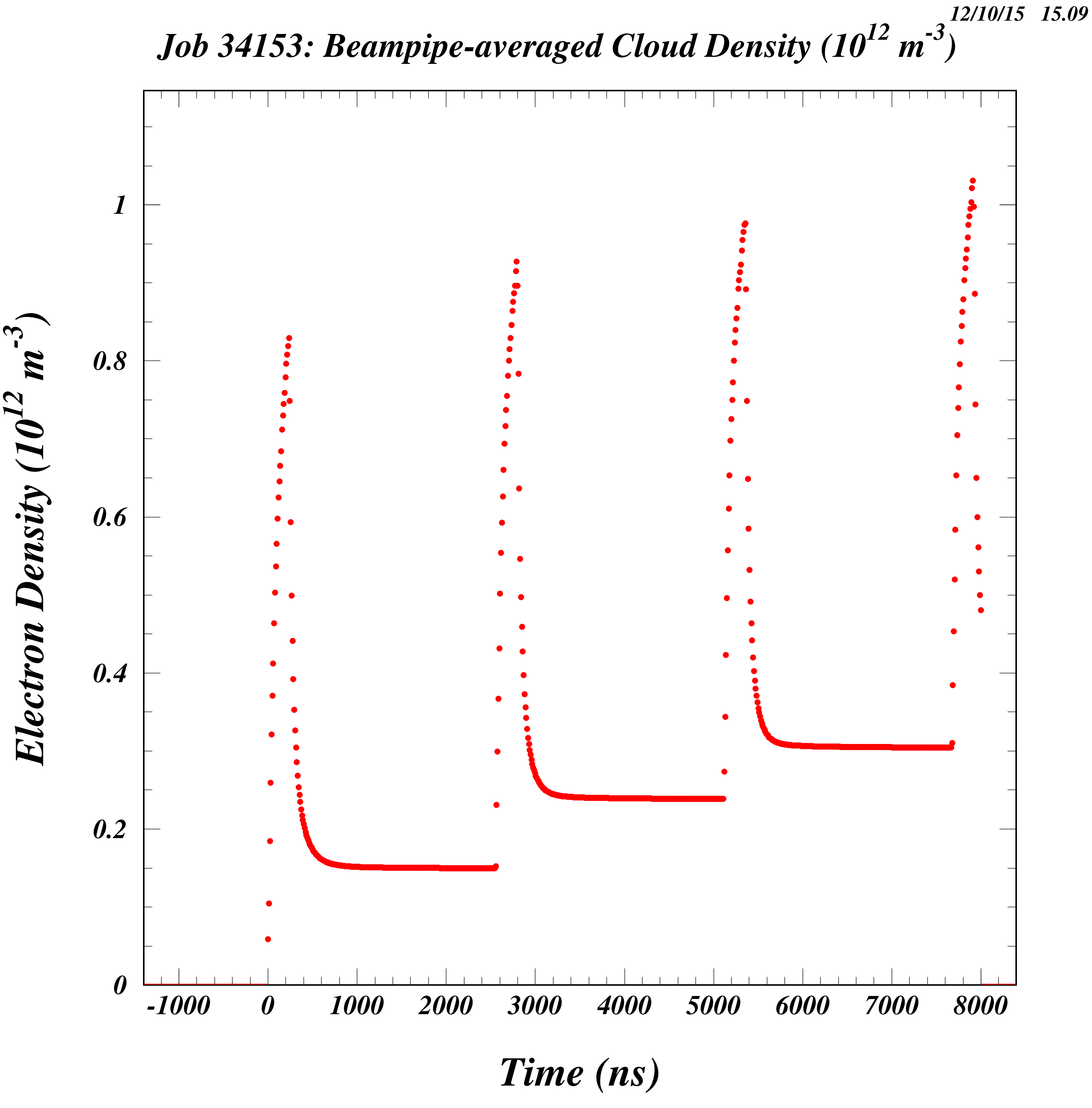
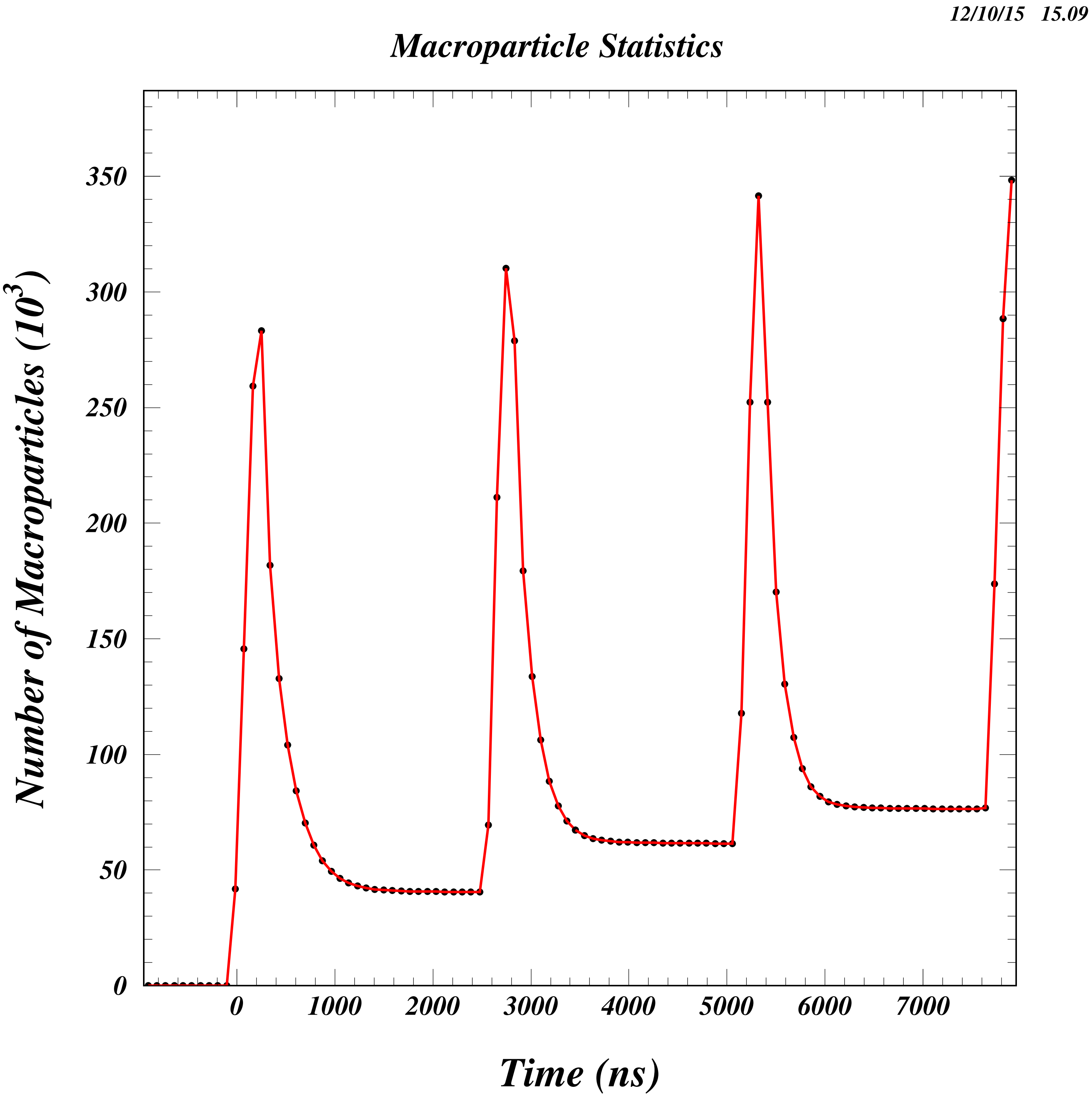
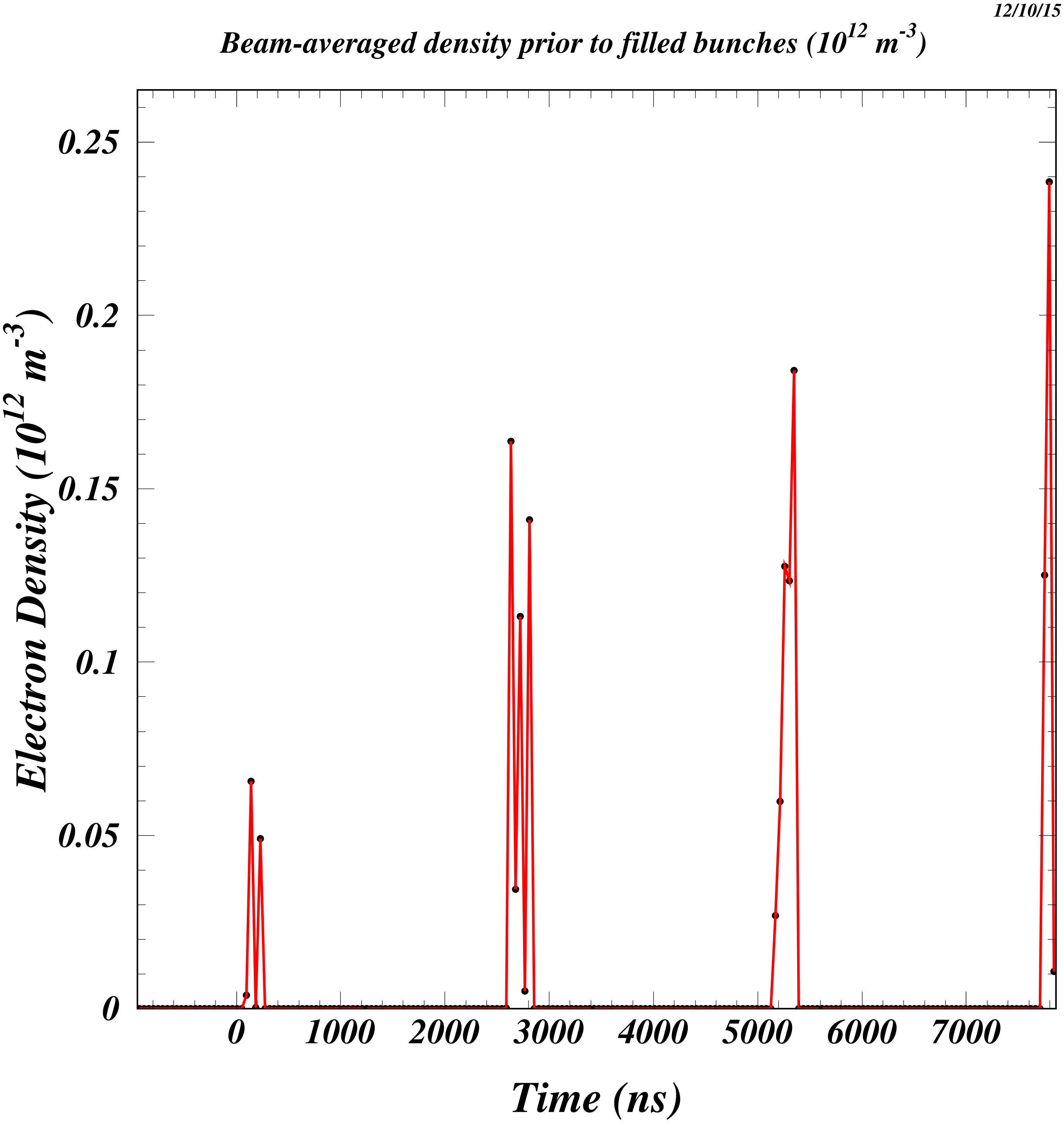

12/10/15 15.09
Job 34153: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
Time (ns)
0
0.2
0.4
0.6
0.8
1
-1000
0
1000
2000
3000
4000
5000
6000
7000
8000

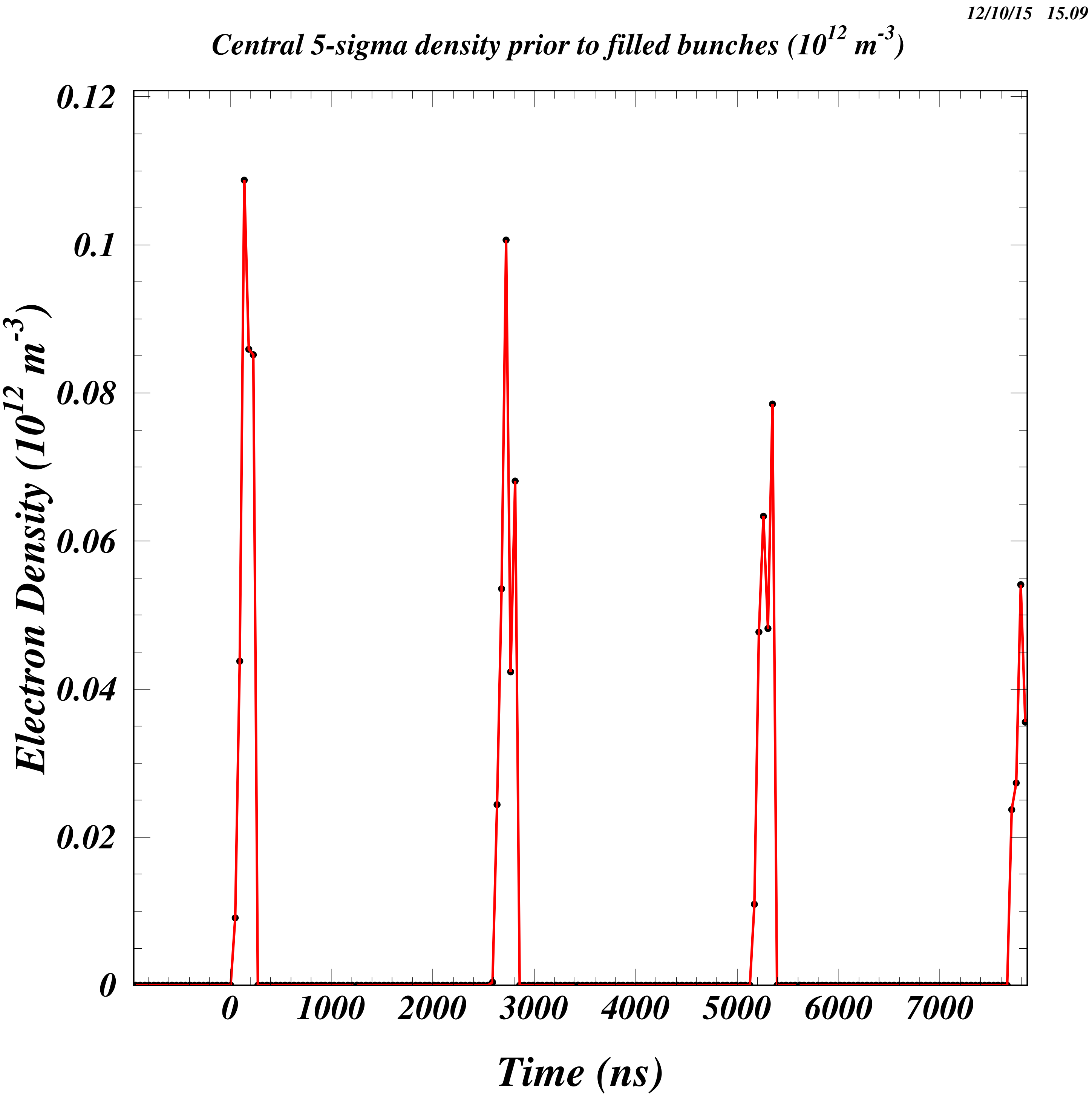


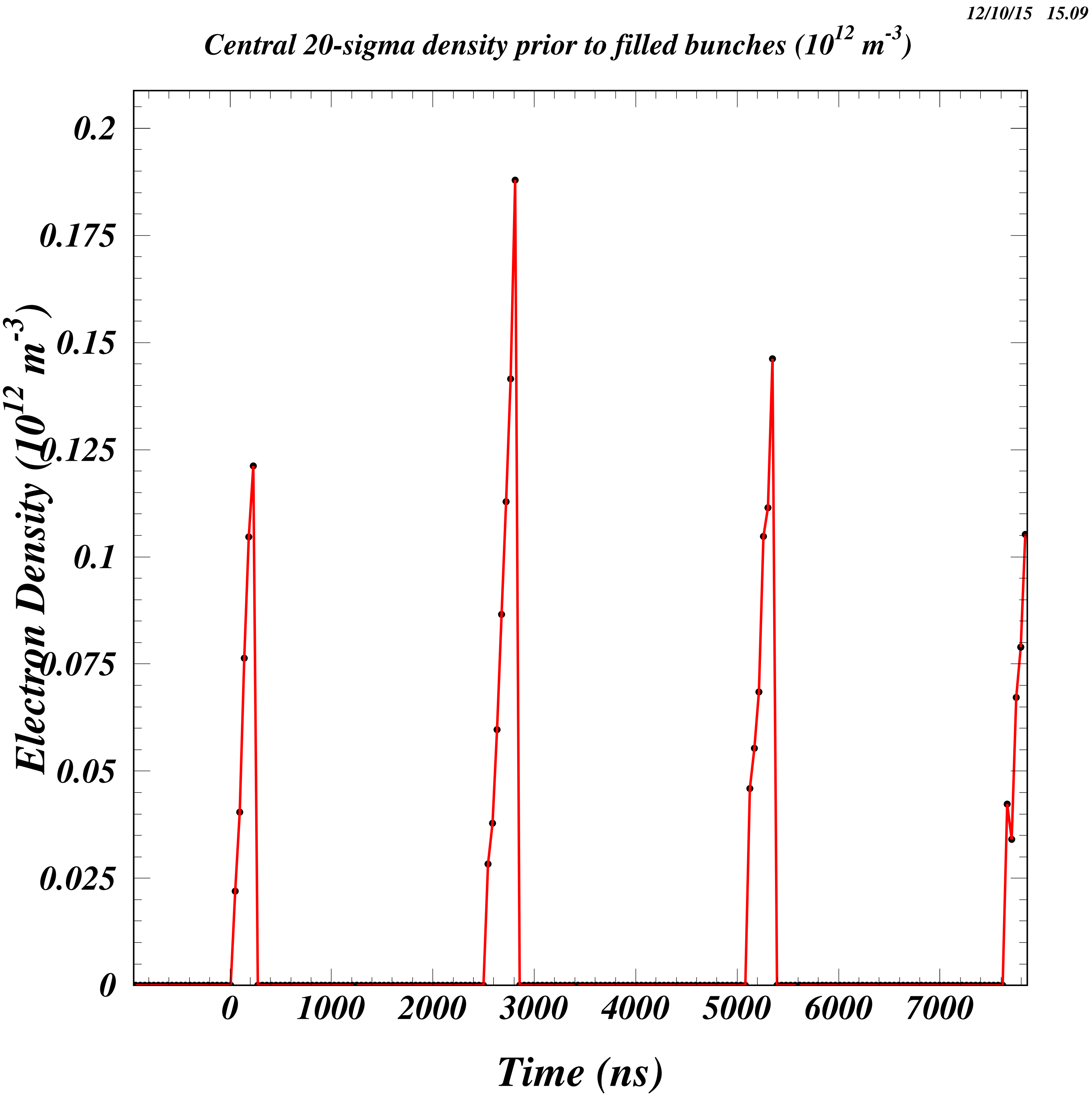
12/10/15 15.09
Macroparticle Statistics
Number of Macroparticles (10^3)
350
300
250
200
150
100
50
0
0
1000
2000
3000
4000
5000
6000
7000
Time (ns)

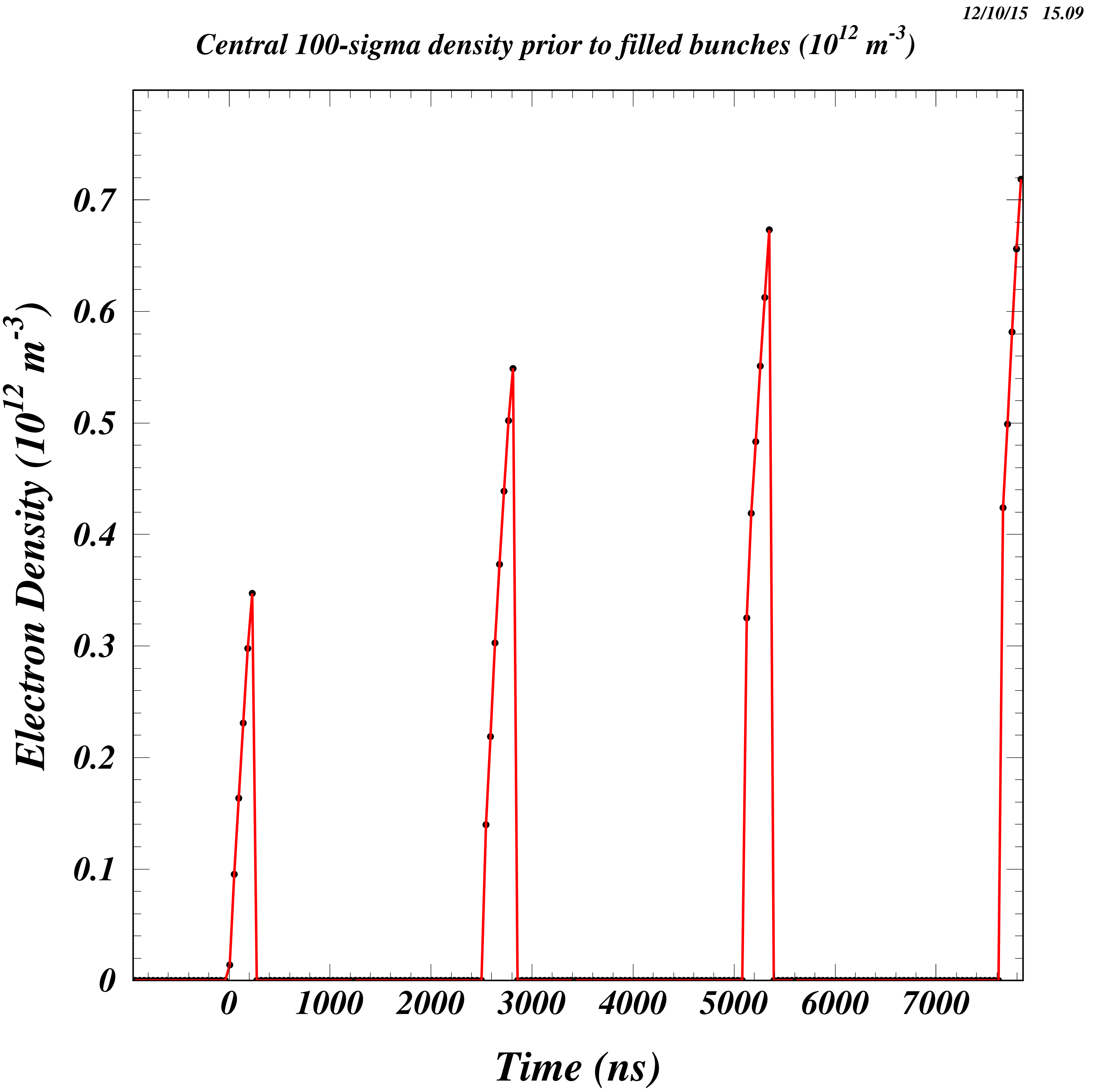
12/10/15 15.09



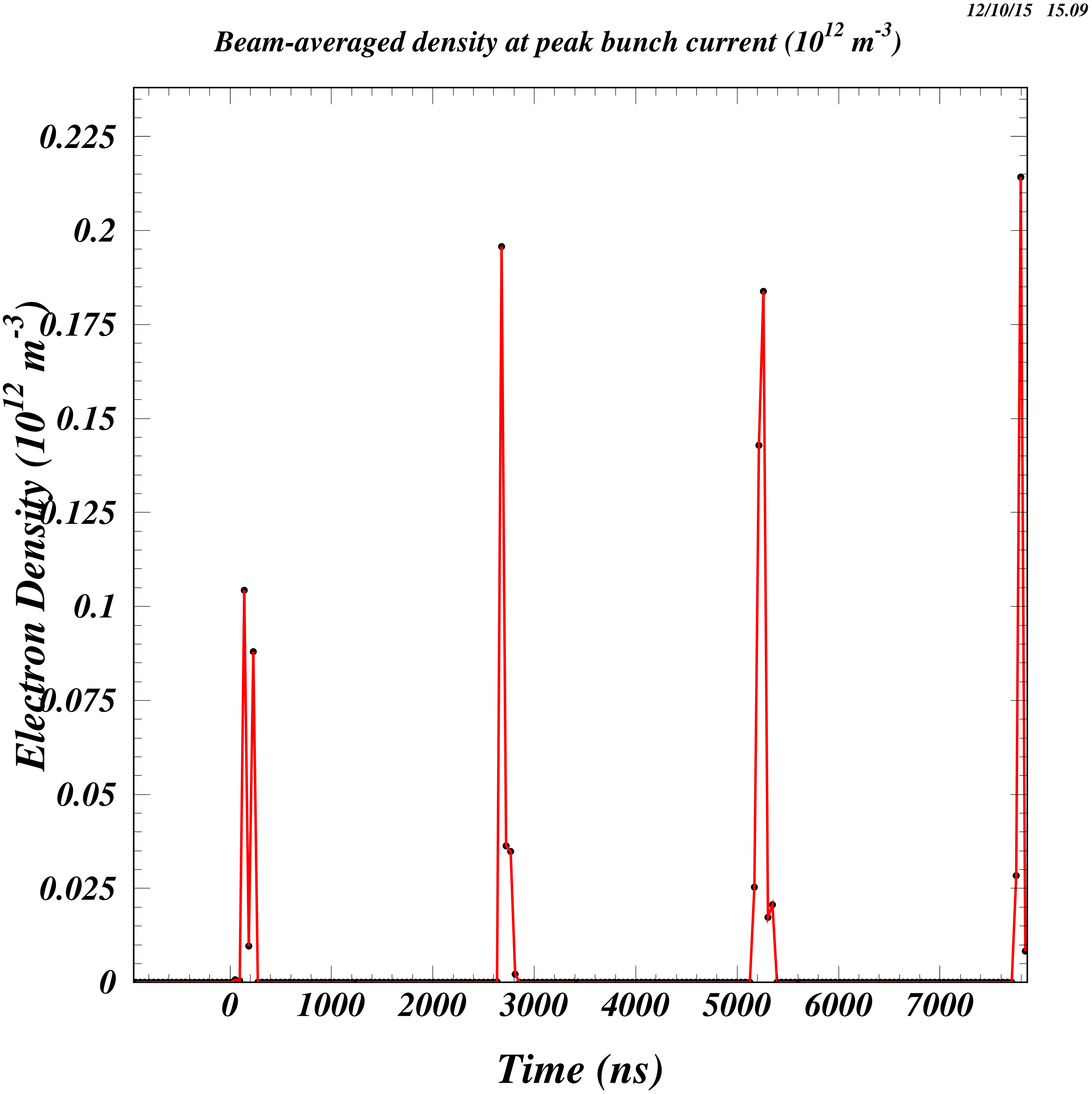
Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.25
0.2
0.15
0.1
0.05
0
0
1000
2000
3000
4000
5000
6000
7000
Time (ns)

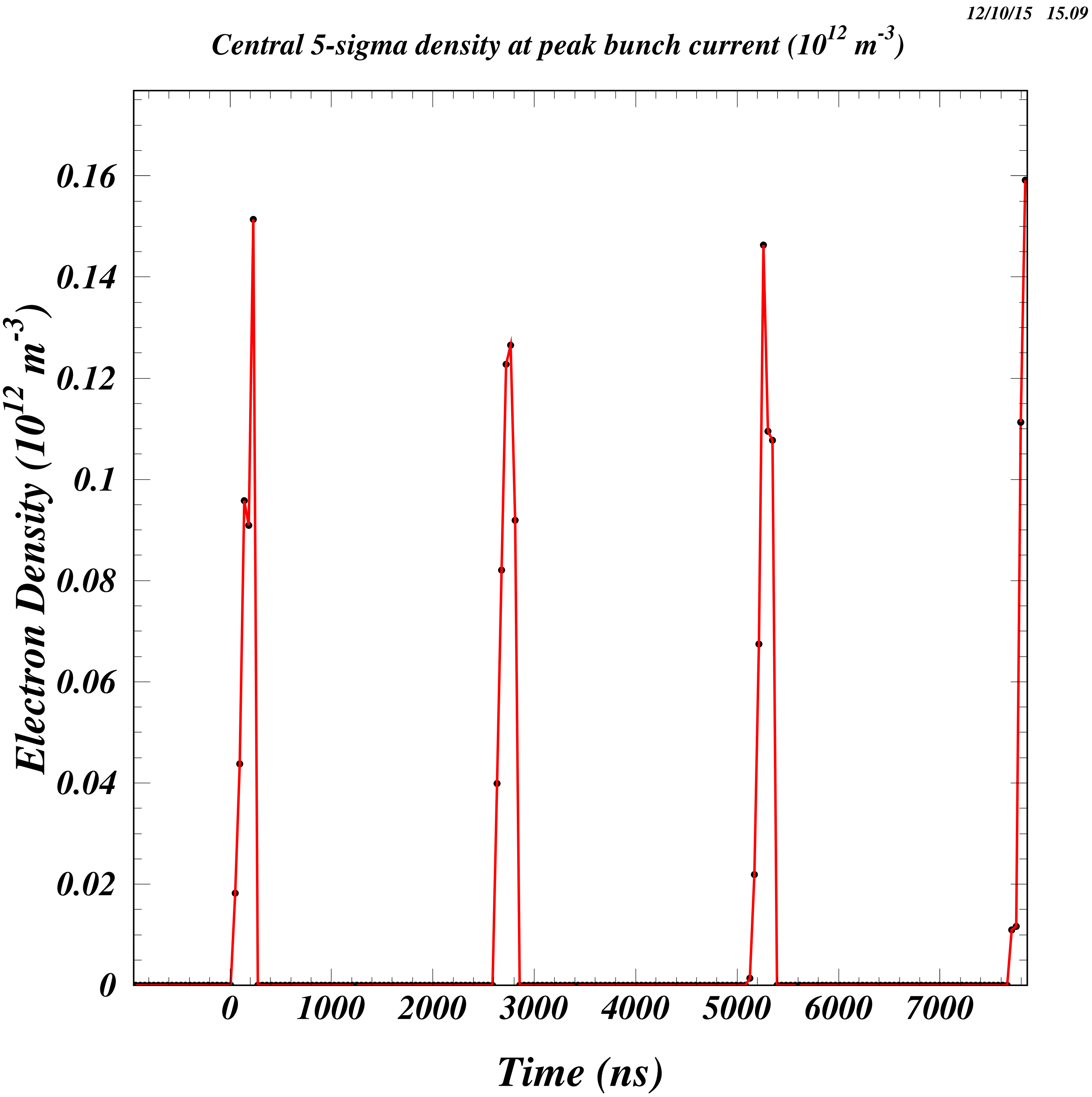

12/10/15 15.09
Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.12
0.1
0.08
0.06
0.04
0.02
0
0
1000
2000
3000
4000
5000
6000
7000
Time (ns)

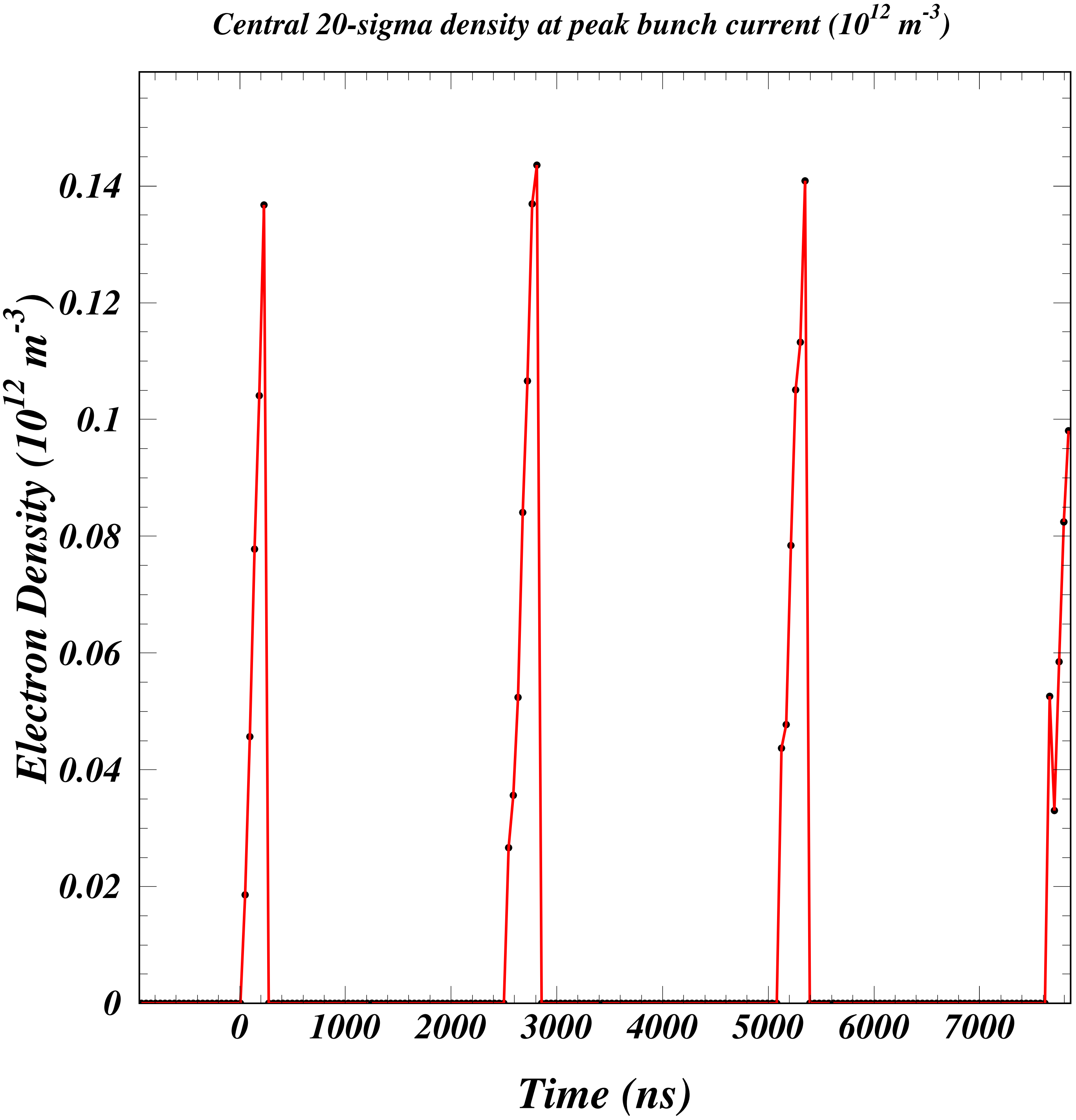

12/10/15 15.09
Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
0
1000
2000
3000
4000
5000
6000
7000
Time (ns)

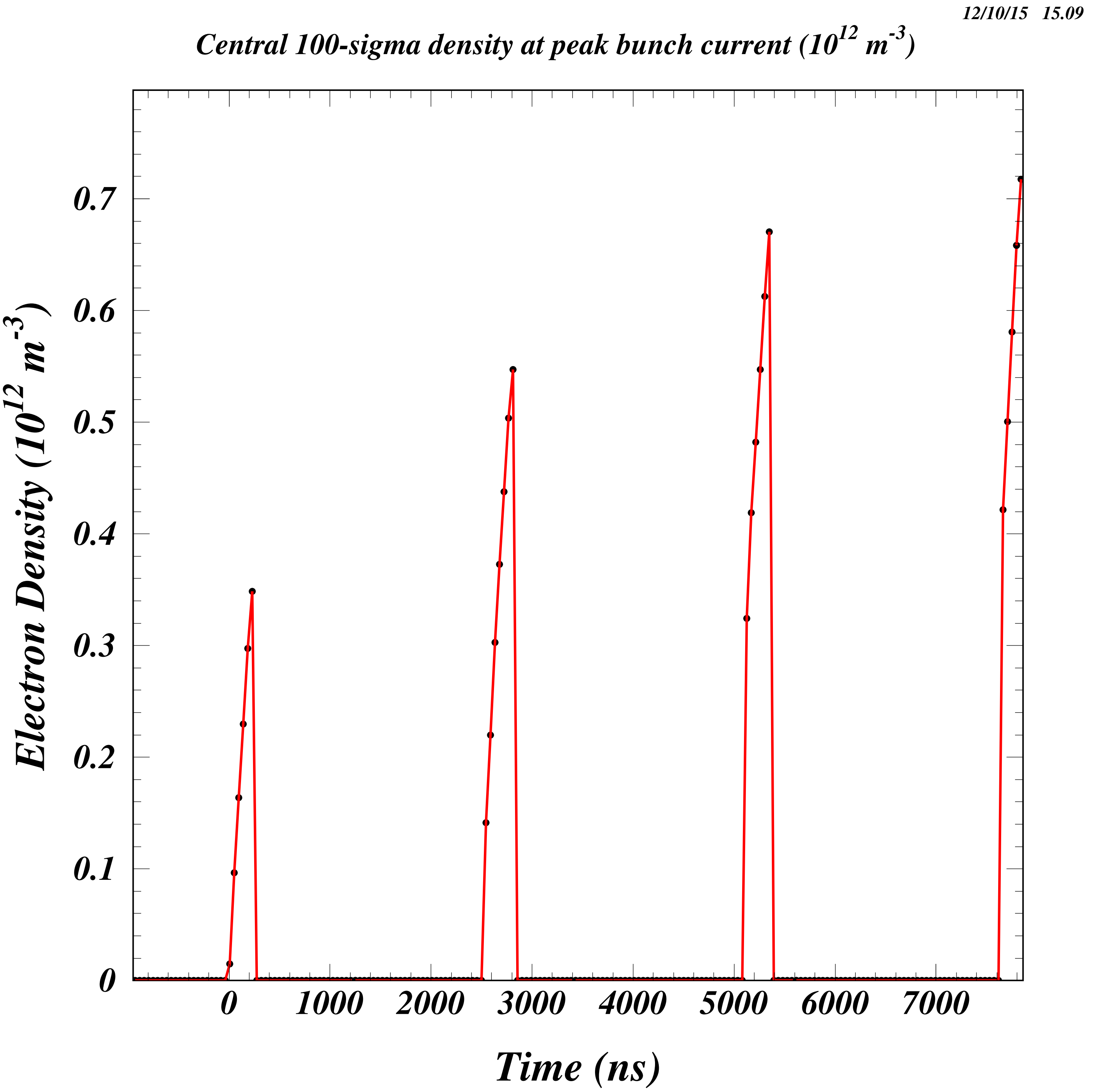


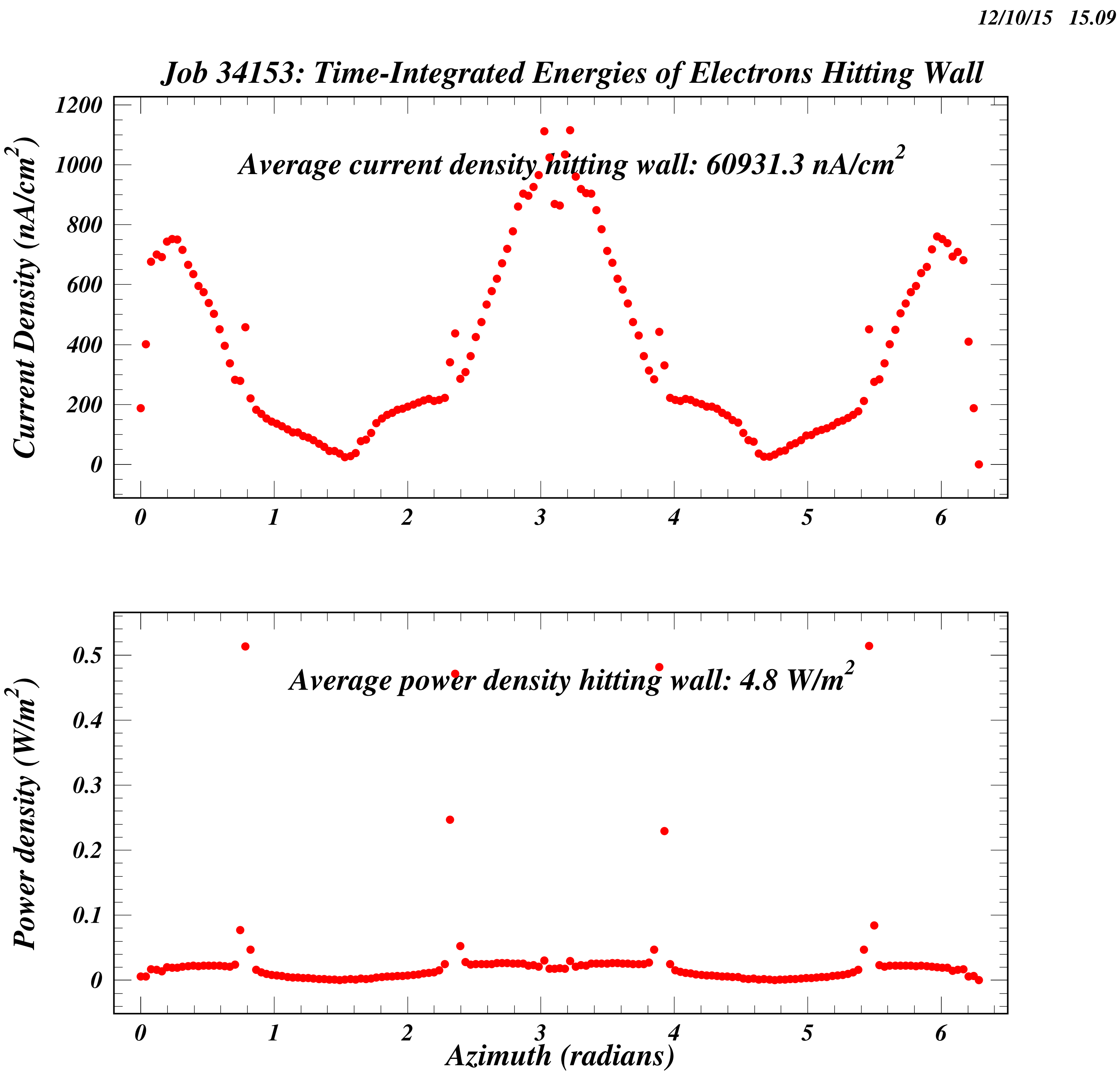
12/10/15 15.09
Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
1000
2000
3000
4000
5000
6000
7000
Time (ns)


12/10/15 15.09
Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
0
1000
2000
3000
4000
5000
6000
7000
Time (ns)


12/10/15 15.09
Central 5-sigma density at peak bunch current (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
1000
2000
3000
4000
5000
6000
7000
Time (ns)

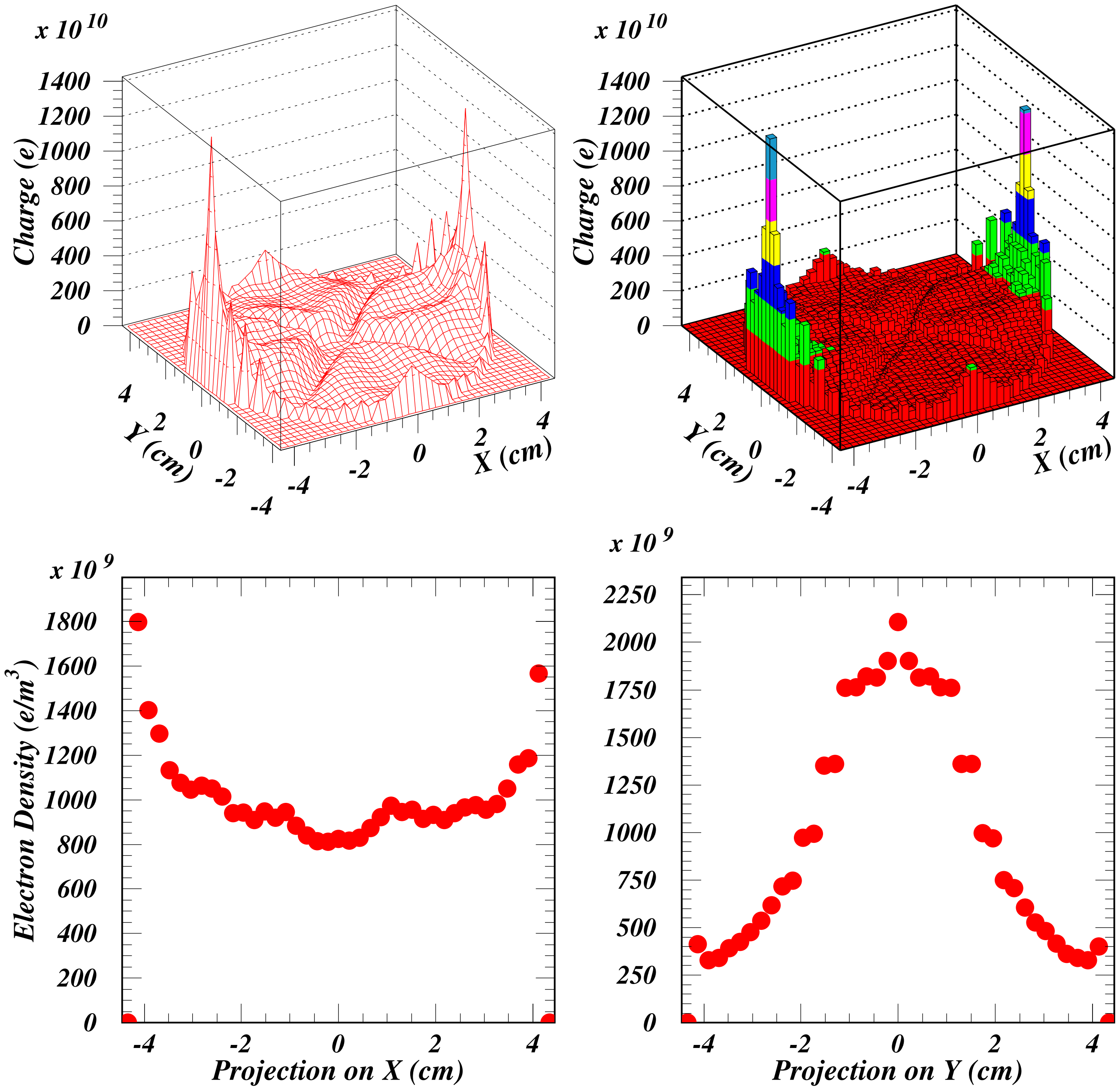

Central 20-sigma density at peak bunch current (10^12 m^-3)
Electron Density (10^12 m^-3)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0
1000
2000
3000
4000
5000
6000
7000
Time (ns)

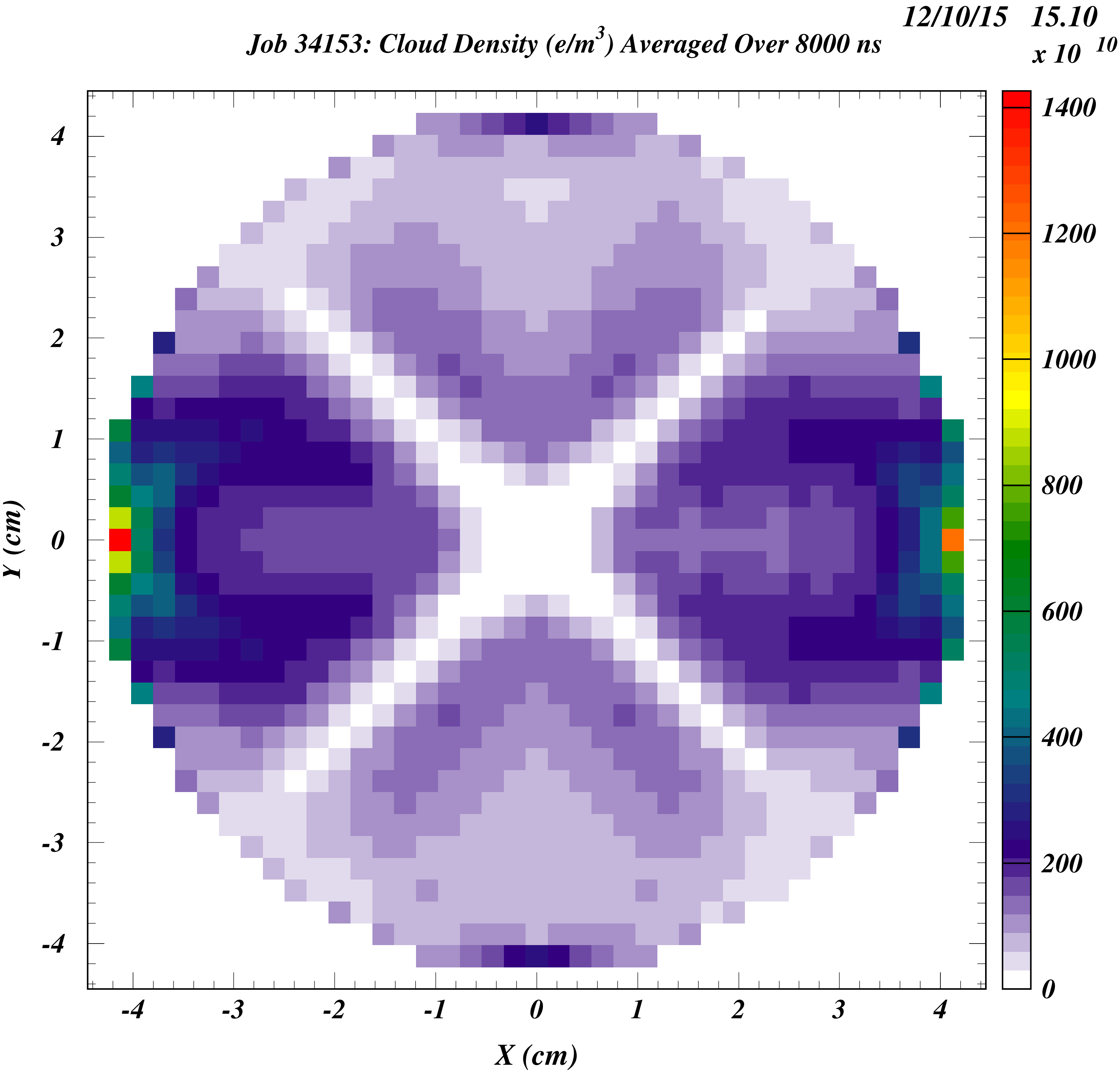

12/10/15 15.09
Central 100-sigma density at peak bunch current (10^12 m^-3)
Electron Density (10^12 m^-3)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
1000
2000
3000
4000
5000
6000
7000
Time (ns)


12/10/15 15.09
Job 34153: Time-Integrated Energies of Electrons Hitting Wall
Current Density (nA/cm^2)
Average current density hitting wall: 60931.3 nA/cm^2
1200
1000
800
600
400
200
0
0 1 2 3 4 5 6
Power density (W/m^2)
Average power density hitting wall: 4.8 W/m^2
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6
Azimuth (radians)

12/10/15 15.10

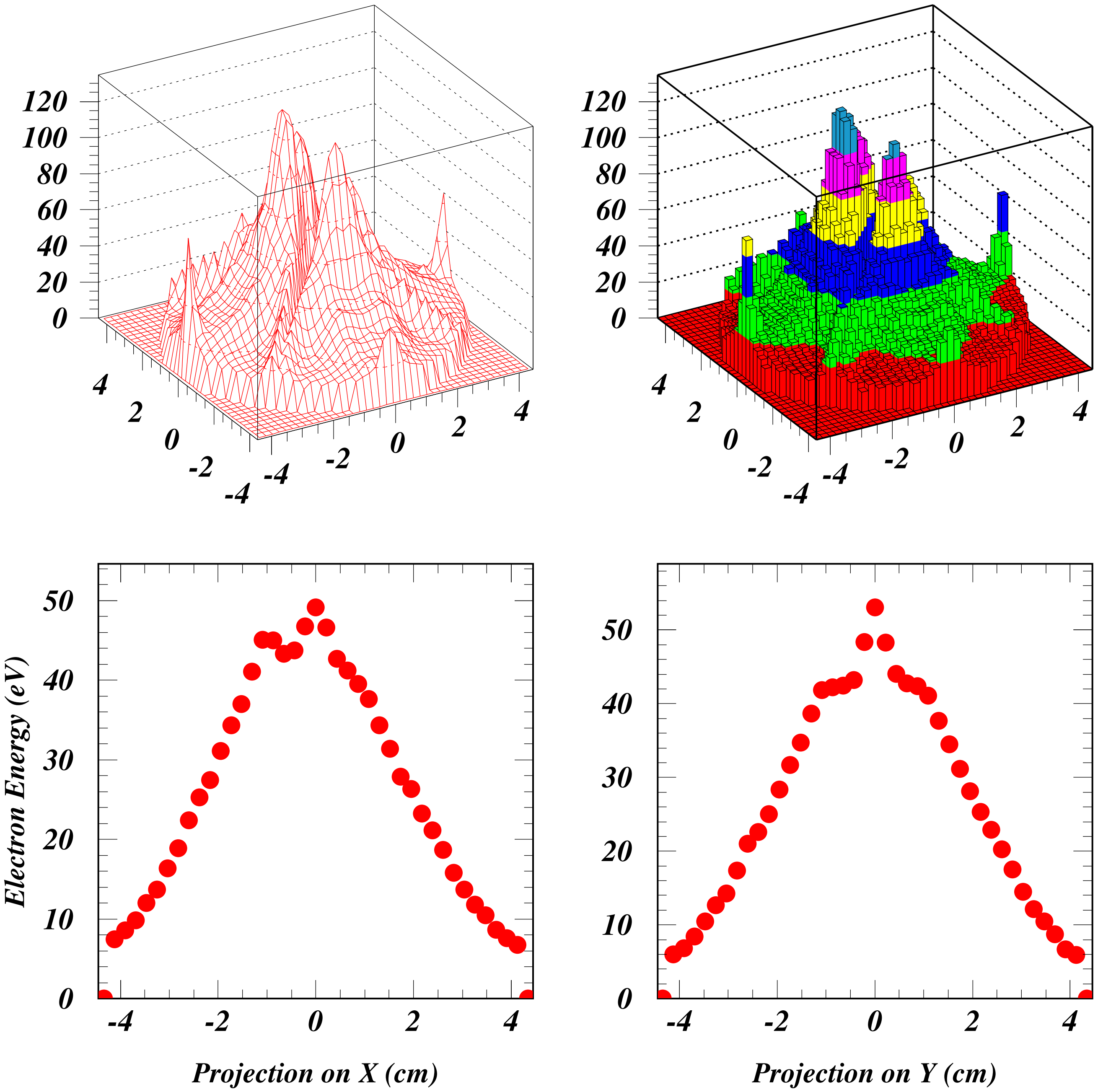
Job 34153: Cloud Density (e/m^3) Averaged Over 8000 ns

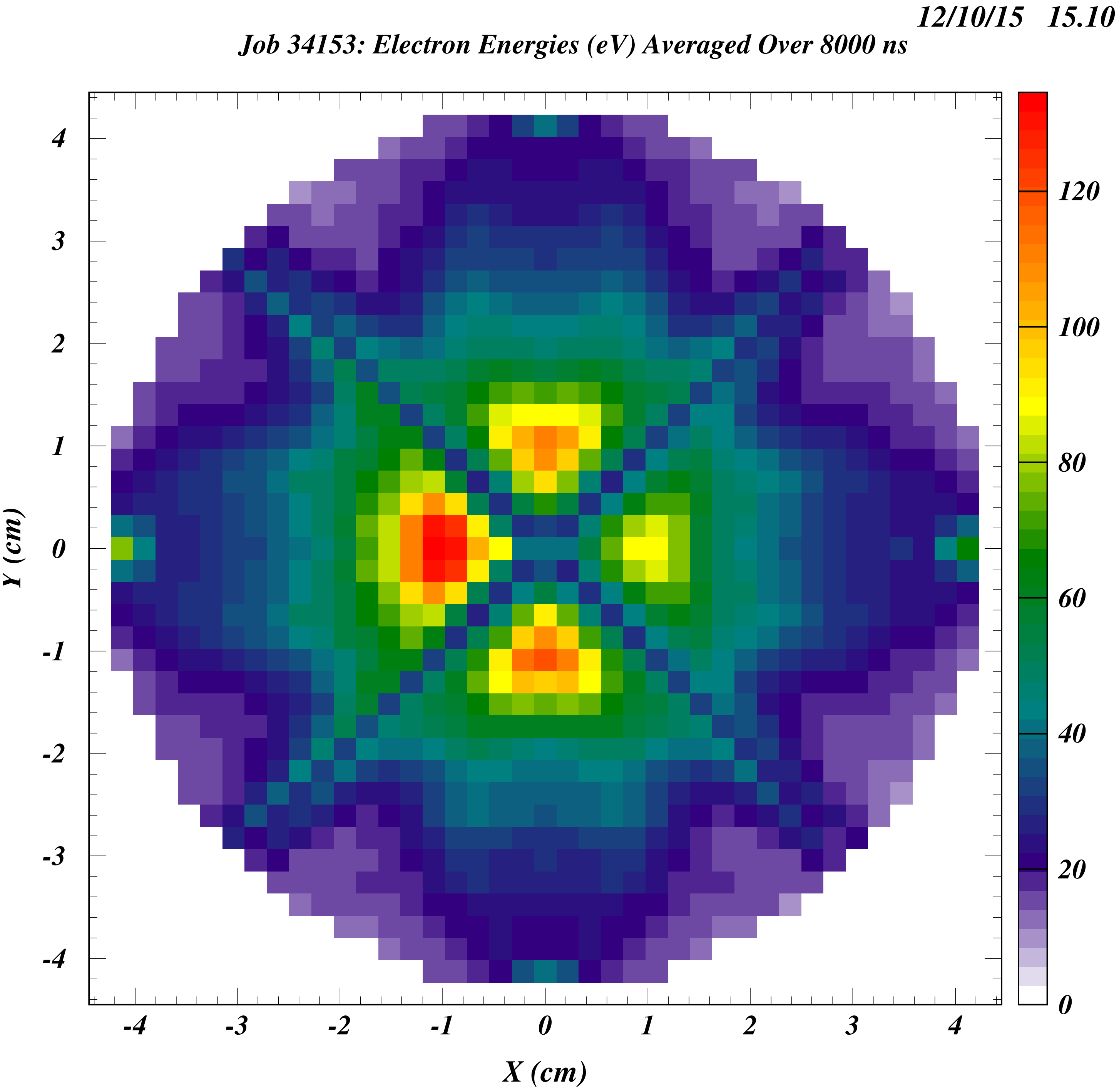



12/10/15 15.10
Job 34153: Cloud Density (e/m^3) Averaged Over 8000 ns
x 10^10
1400
1200
1000
800
600
400
200
0
4
3
2
1
0
-1
-2
-3
-4
Y (cm)
X (cm)

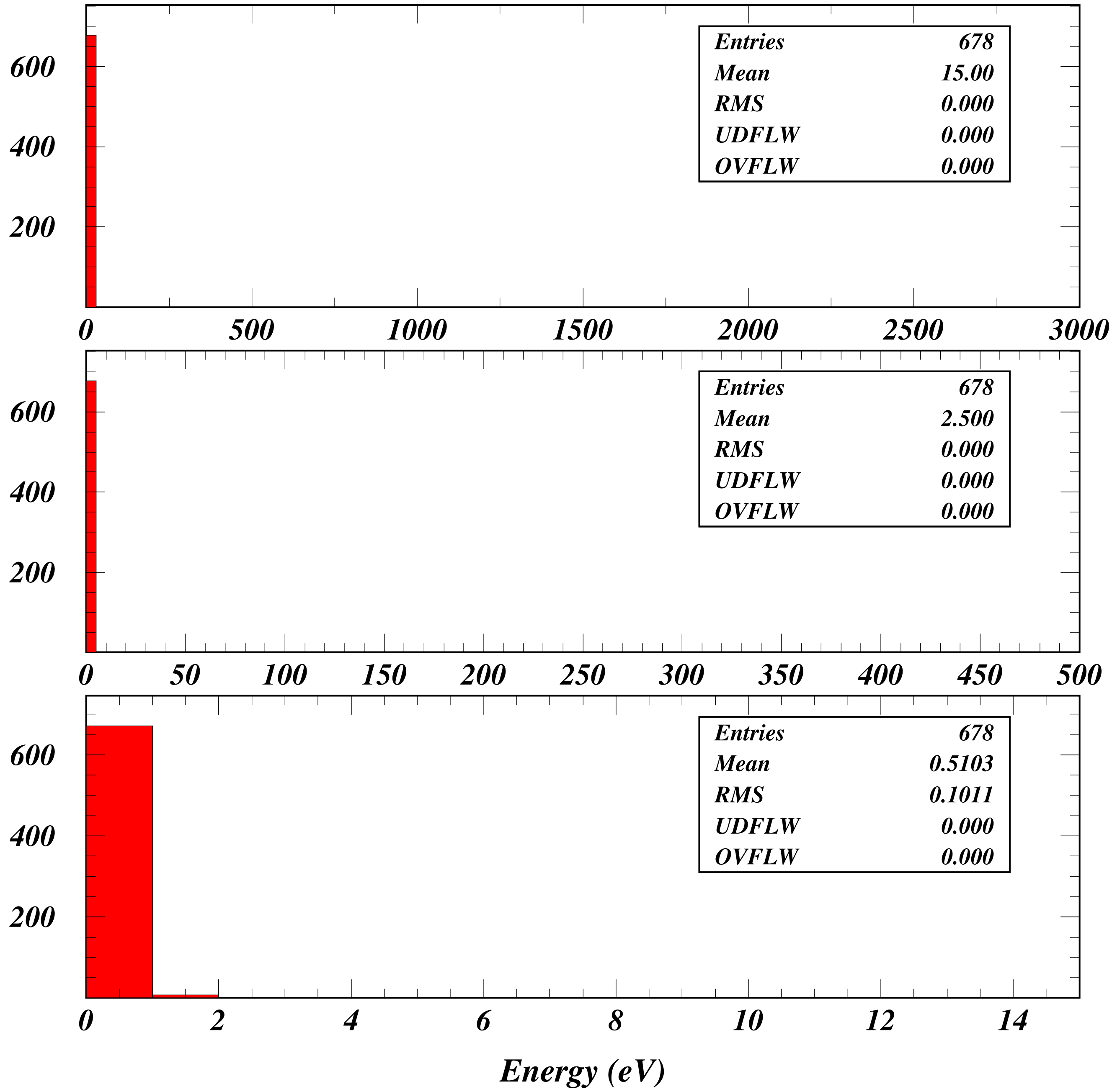
12/10/15 15.10

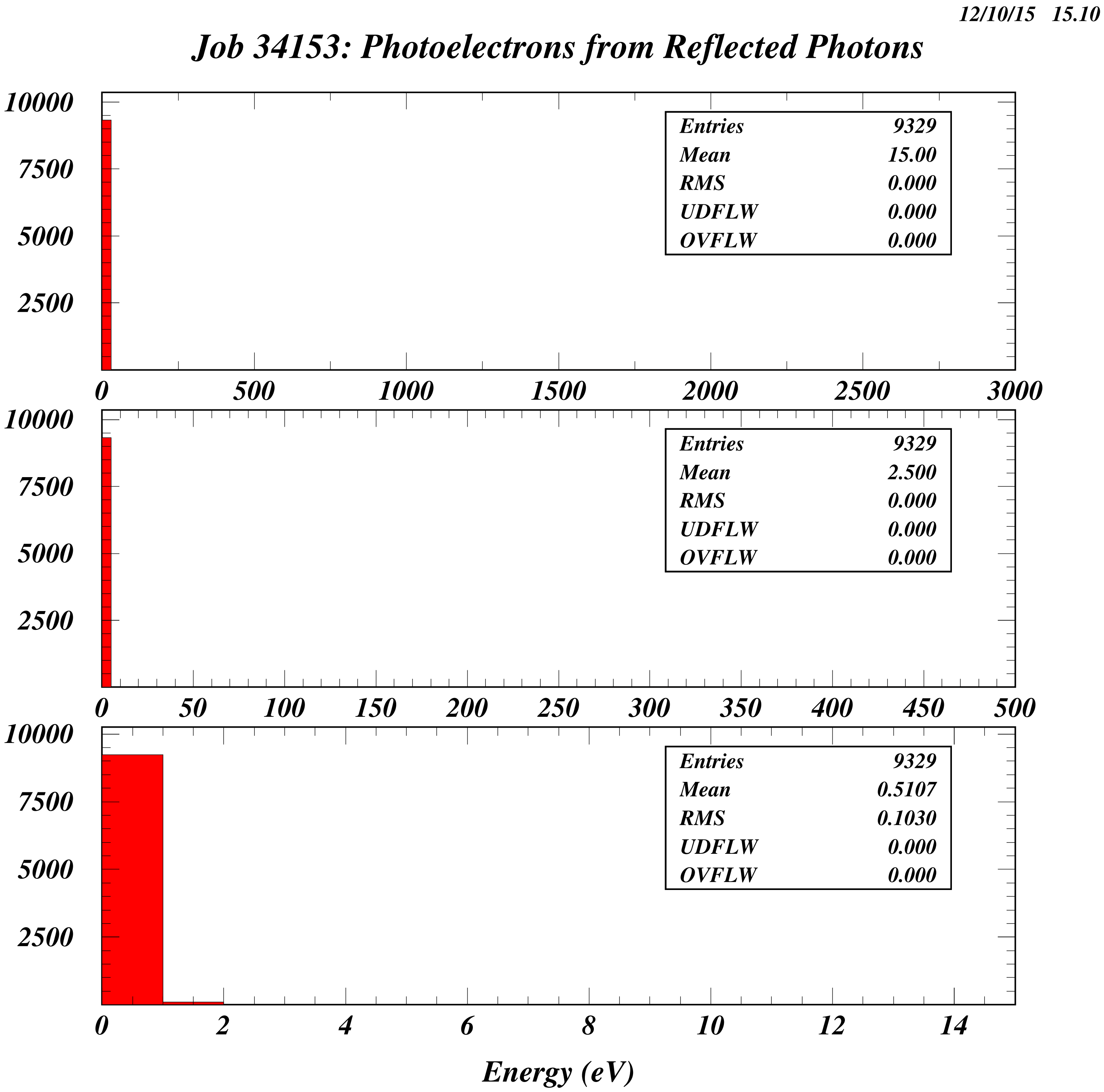
Job 34153: Electron Energies (eV) Averaged Over 8000 ns



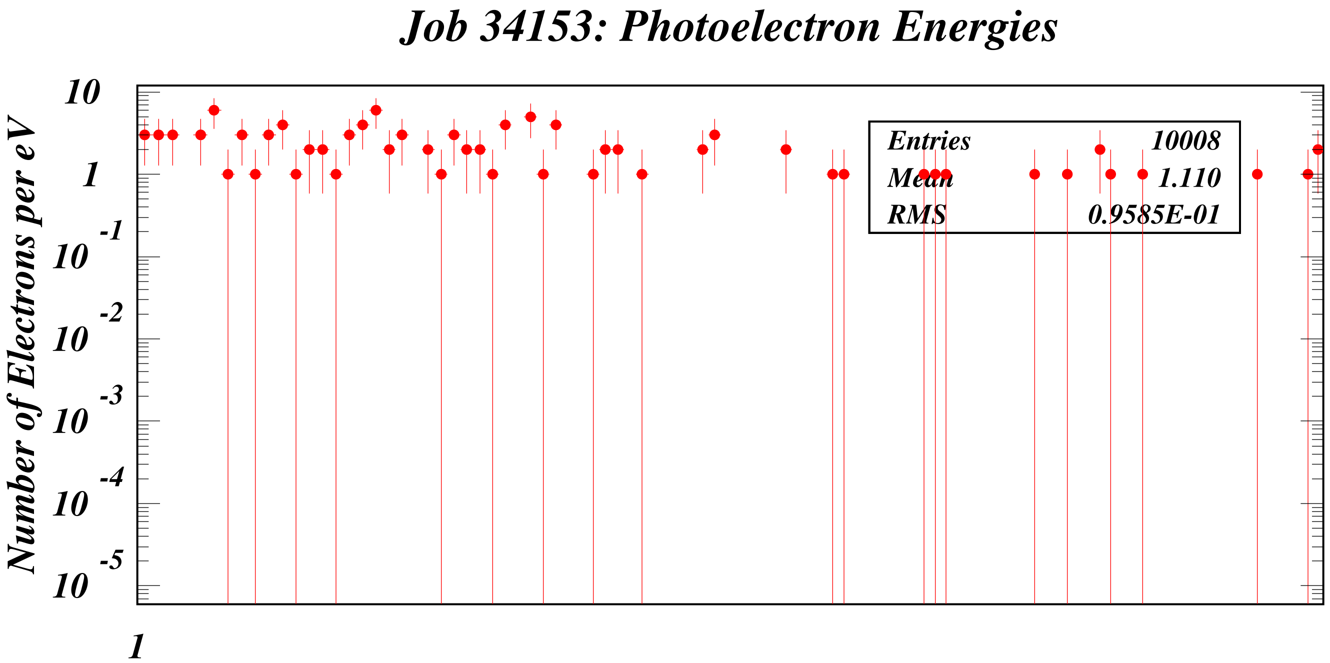

12/10/15 15.10
Job 34153: Electron Energies (eV) Averaged Over 8000 ns
Y (cm)
X (cm)
4
3
2
1
0
-1
-2
-3
-4
120
100
80
60
40
20
0

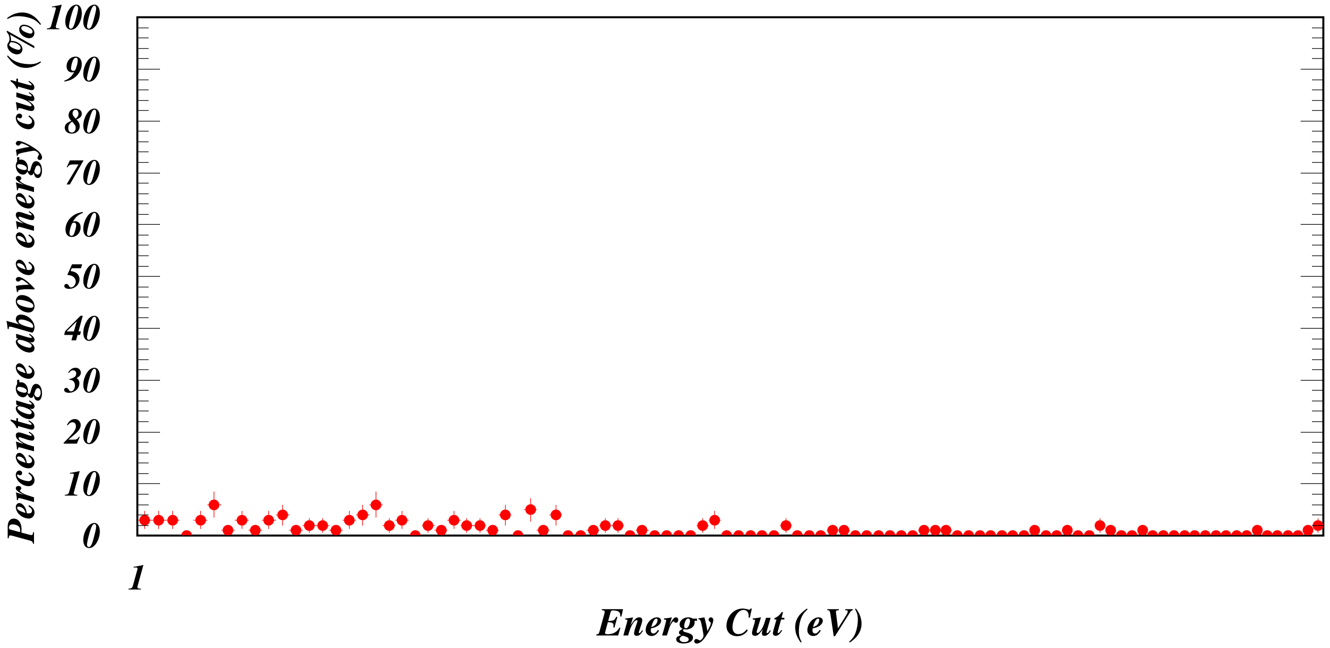
Job 34153: Photoelectrons from Direct Photons




12/10/15 15.10
Job 34153: Photoelectrons from Reflected Photons
Entries 9329
Mean 15.00
RMS 0.000
UDFLW 0.000
OVFLW 0.000
Entries 9329
Mean 2.500
RMS 0.000
UDFLW 0.000
OVFLW 0.000
Entries 9329
Mean 0.5107
RMS 0.1030
UDFLW 0.000
OVFLW 0.000
Energy (eV)

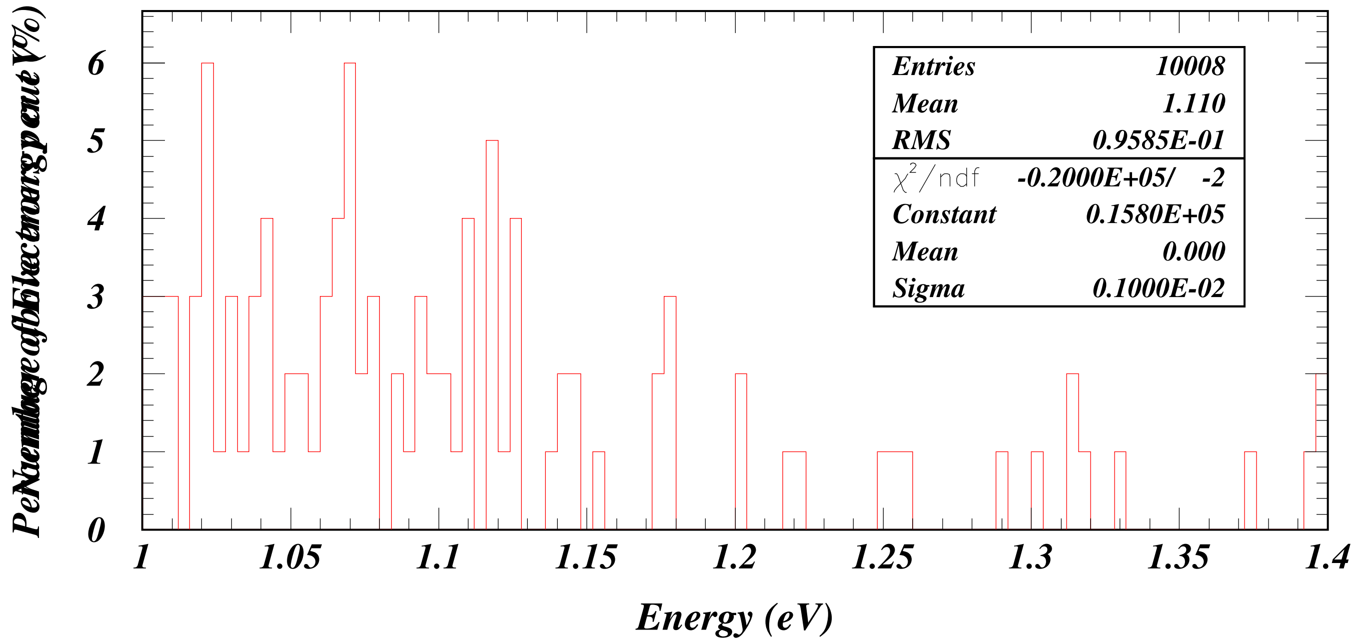
12/10/15 15.10


Job 34153: Photoelectron Energies
Number of Electrons per eV
Entries 10008
Mean 1.110
RMS 0.9585E-01
10
1
10^-1
10^-2
10^-3
10^-4
10^-5
1


Percentage above energy cut (%)
100
90
80
70
60
50
40
30
20
10
0
1
Energy Cut (eV)

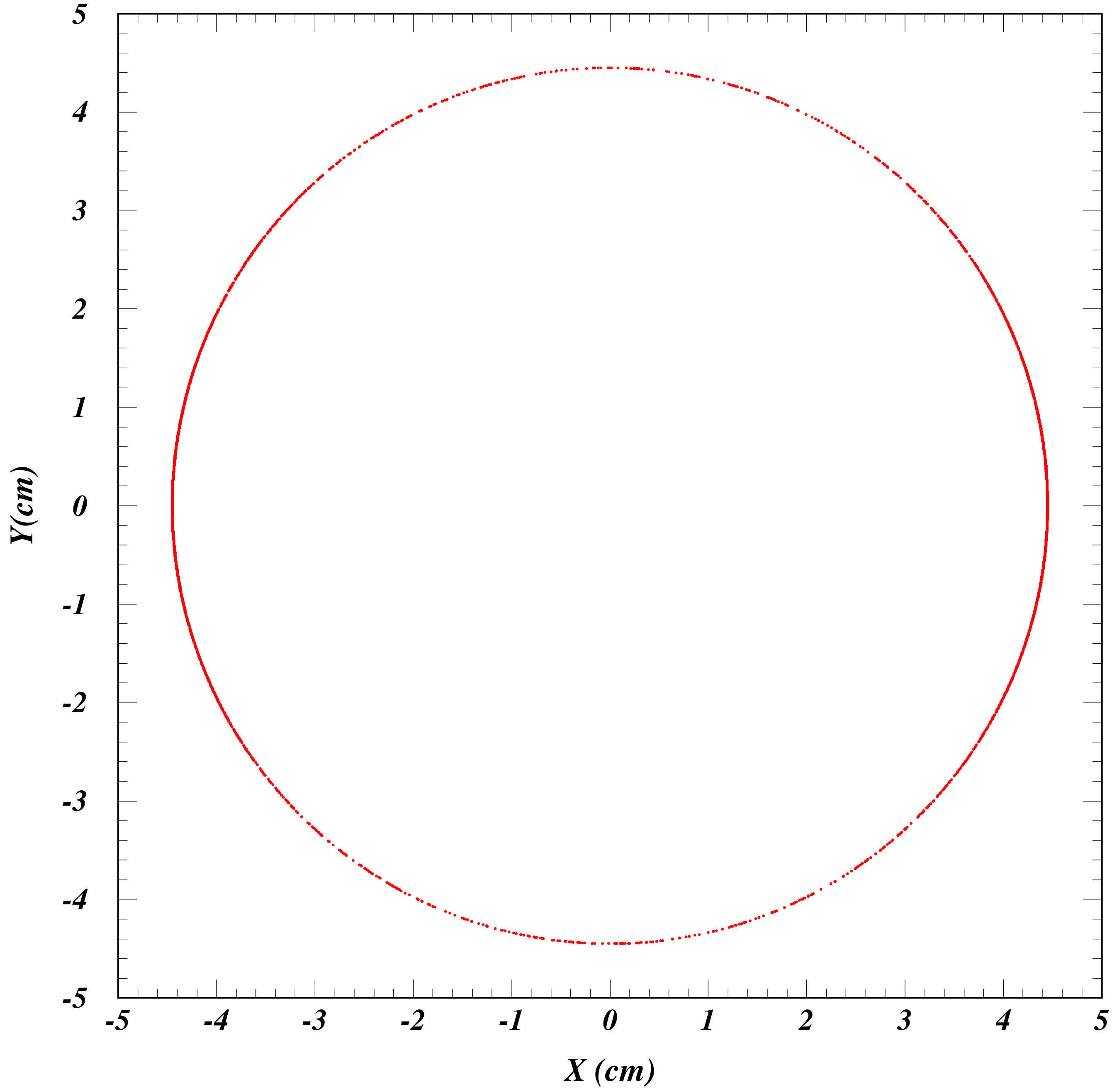
12/10/15 15.10

Job 34153: Photoelectron Energies



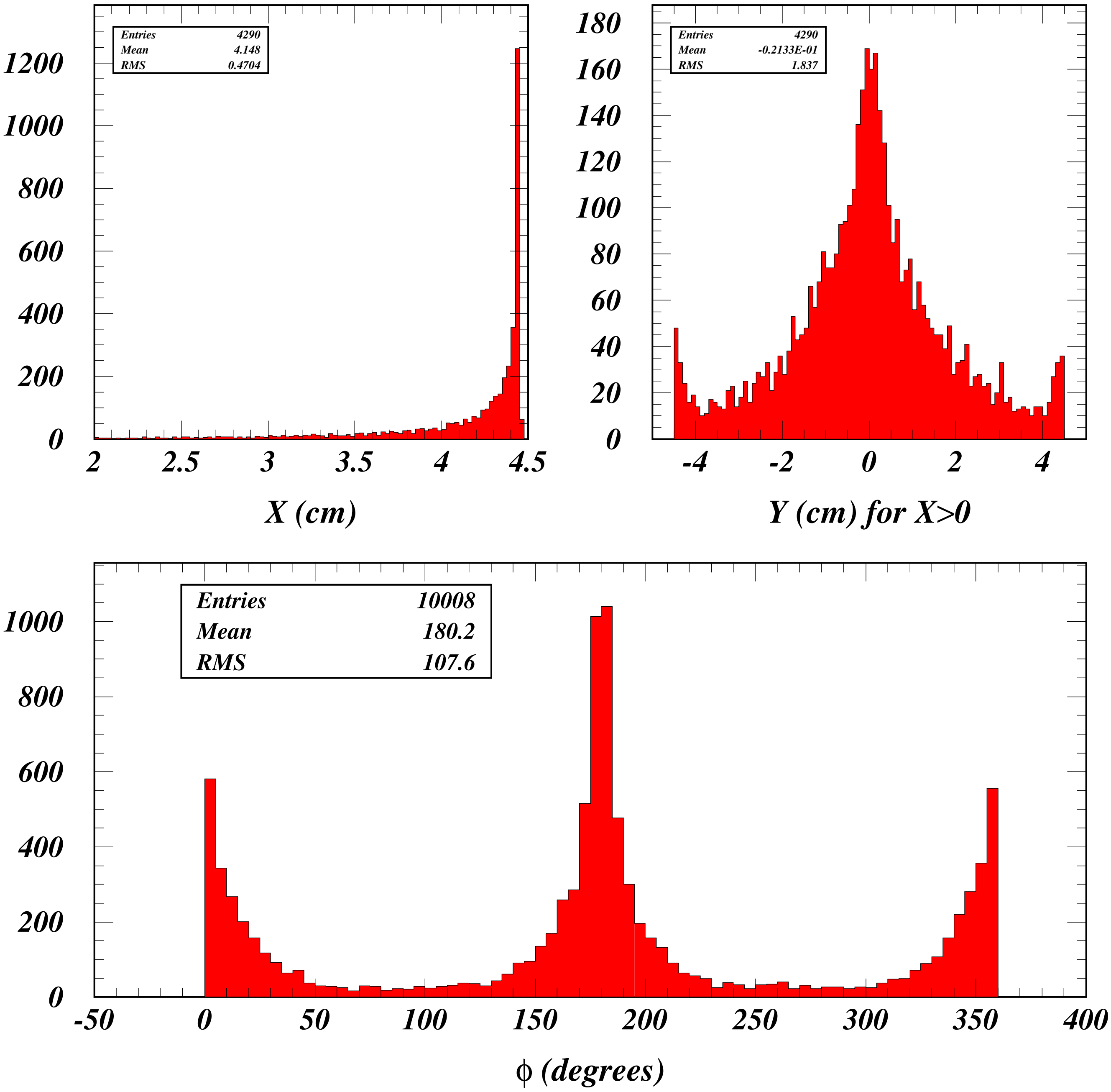
12/10/15 15.10

Job 34153: Photoelectron Production Distributions



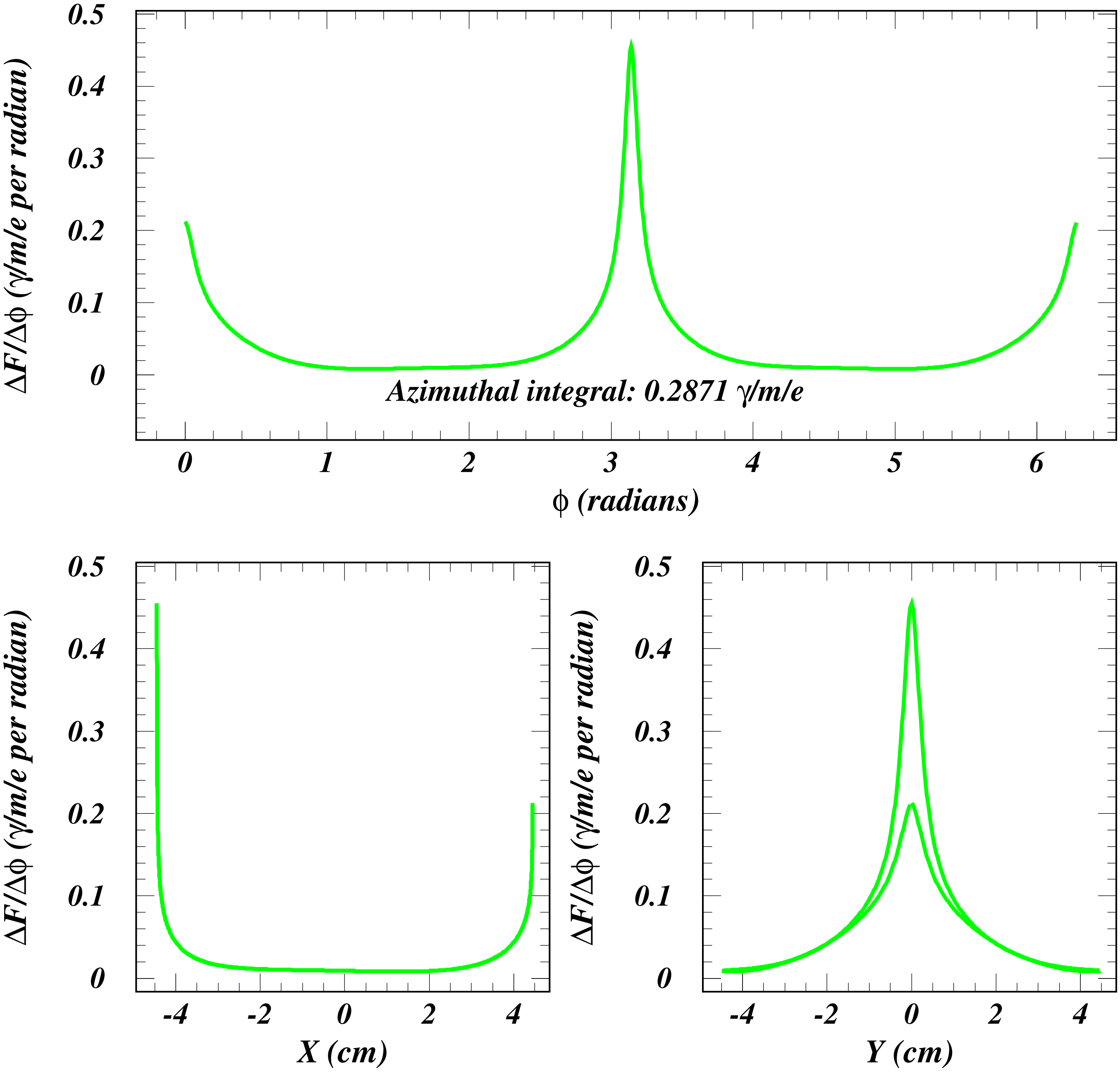
12/10/15 15.10

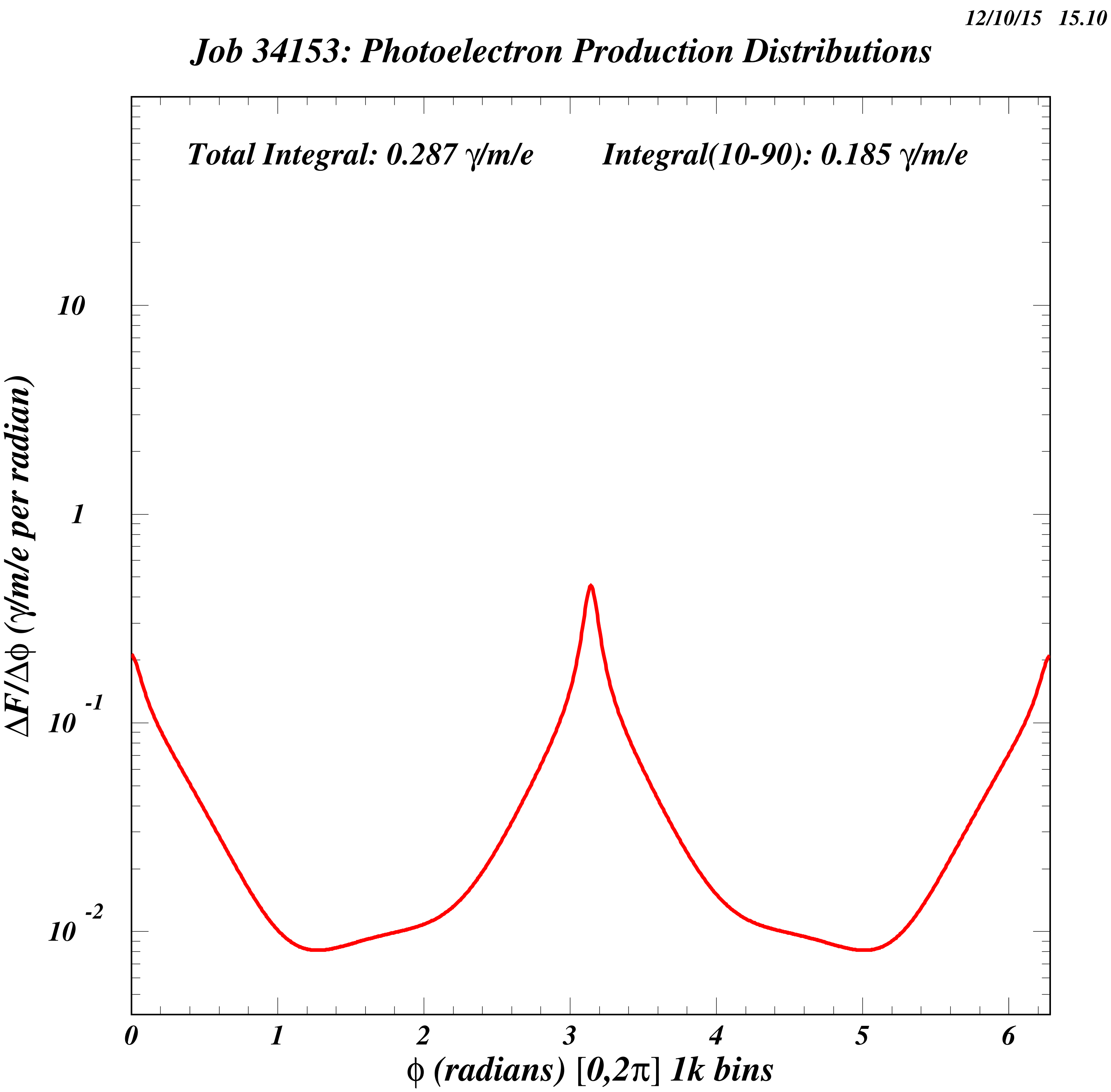
Job 34153: Photoelectron Production Distributions



12/10/15 15.10

Job 34153: Photoelectron Production Distributions




12/10/15 15.10
Job 34153: Photoelectron Production Distributions
Total Integral: 0.287 γ/m/e
Integral(10-90): 0.185 γ/m/e
10
1
10^{-1}
10^{-2}
ΔF/Δφ (γ/m/e per radian)
0
1
2
3
4
5
6
φ (radians) [0,2π] 1k bins