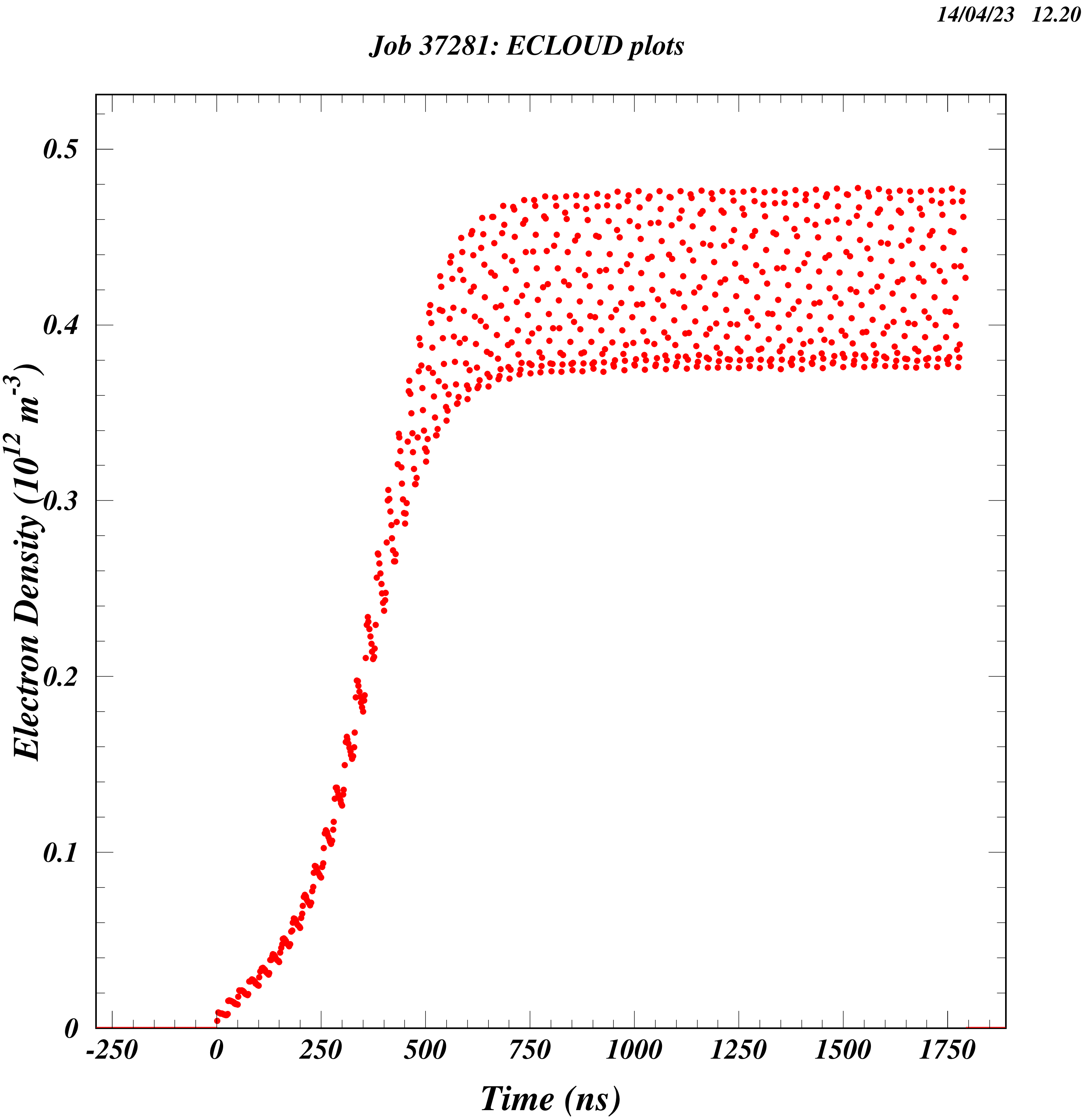
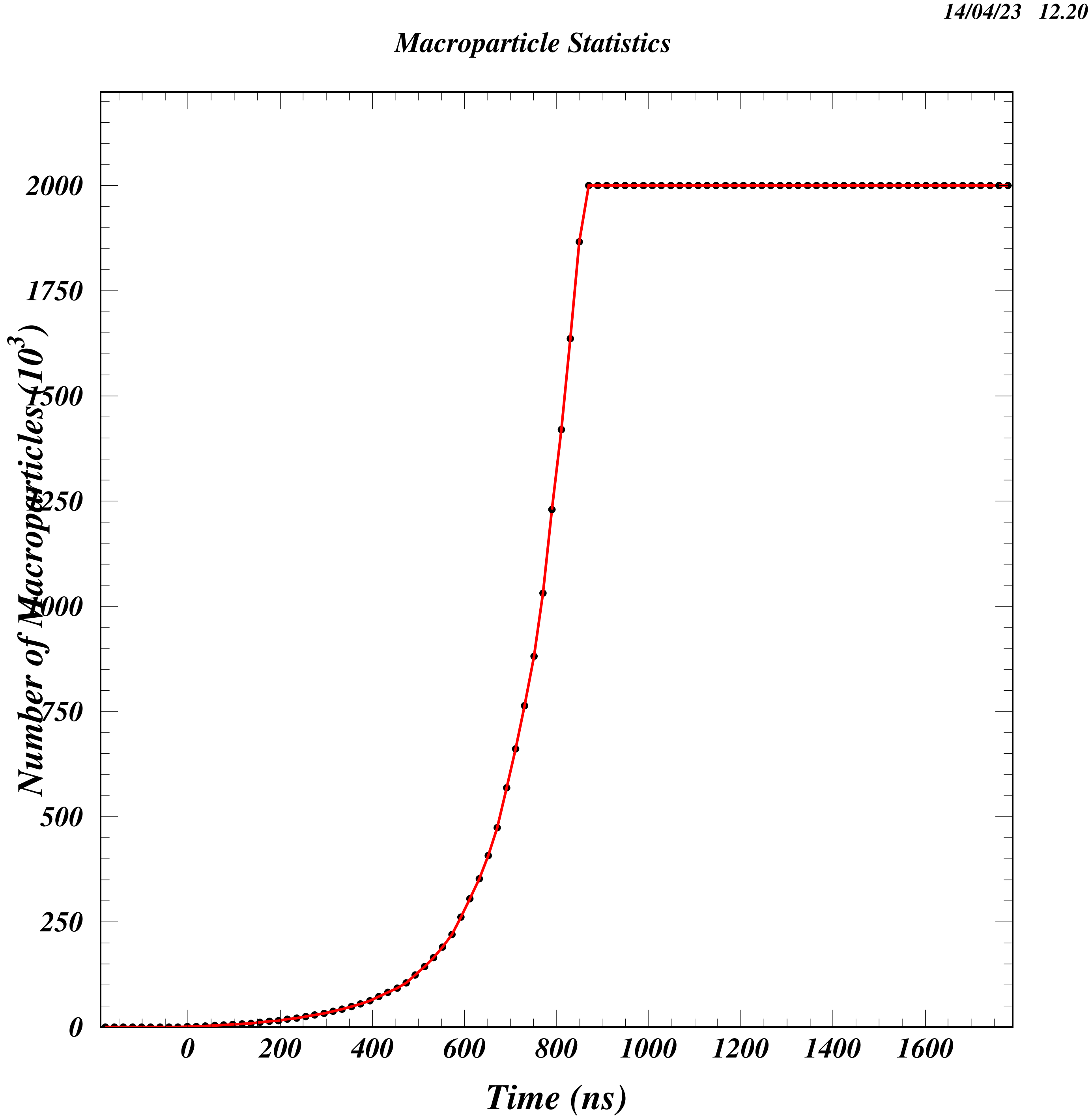
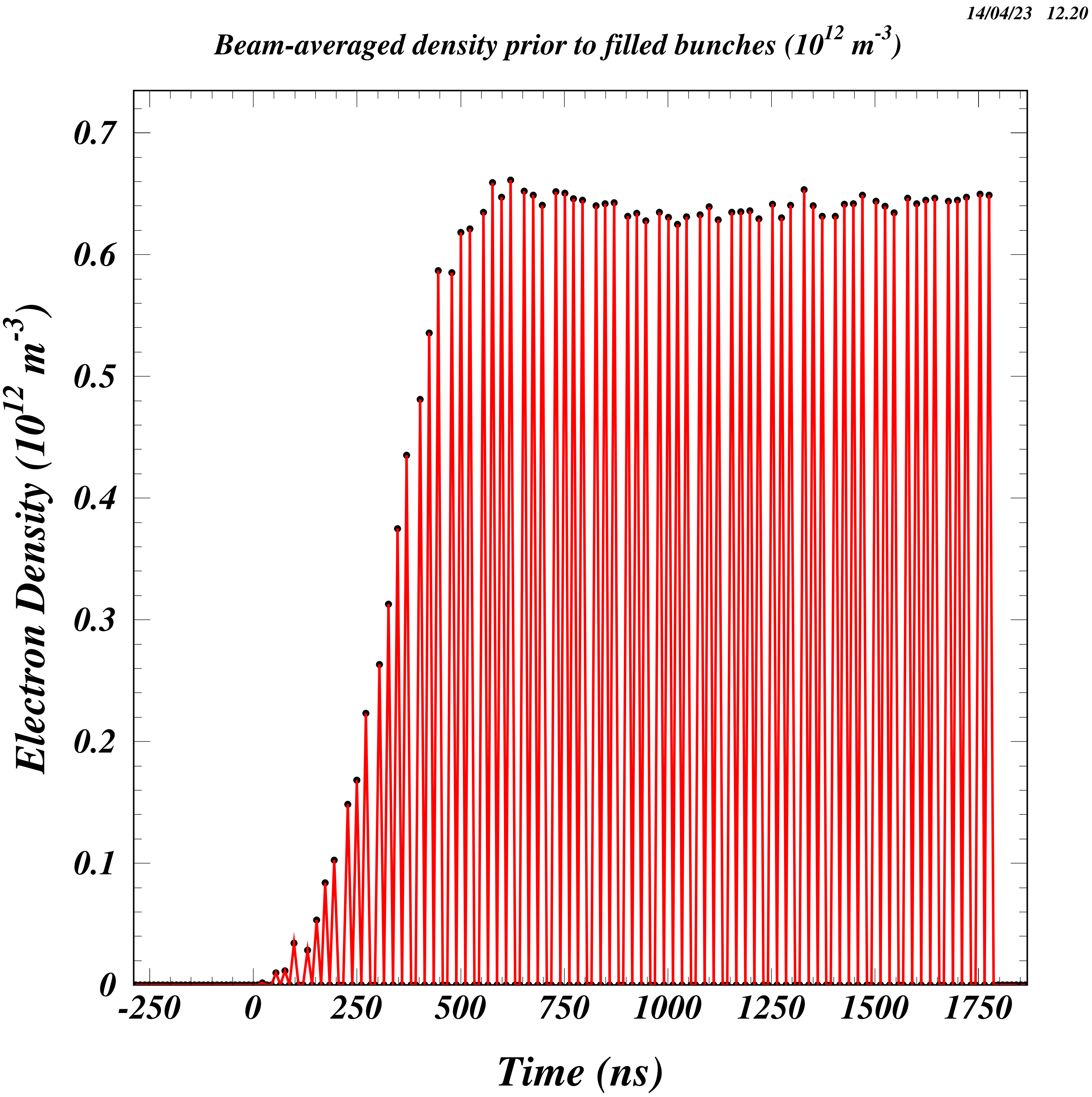
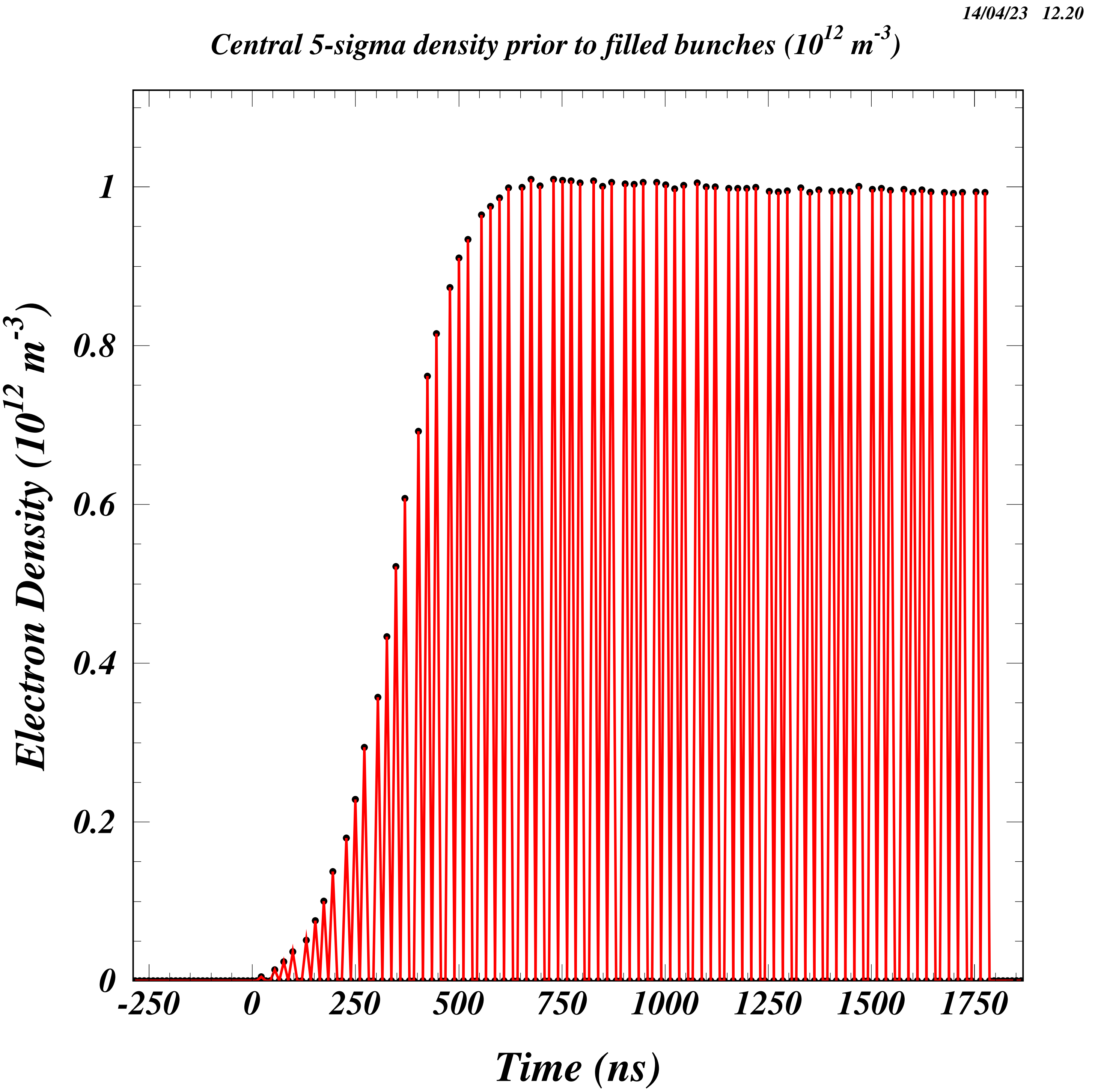
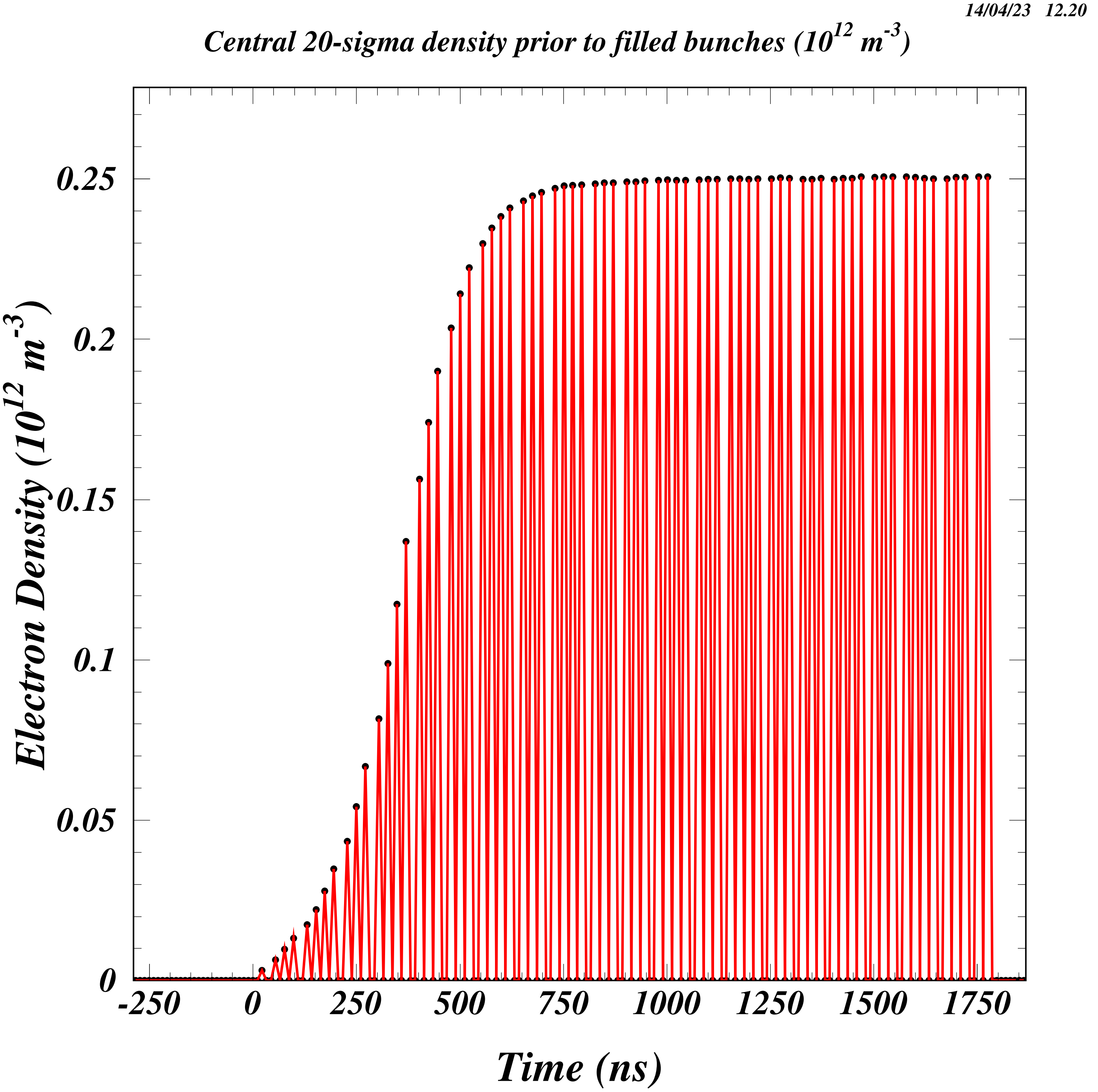
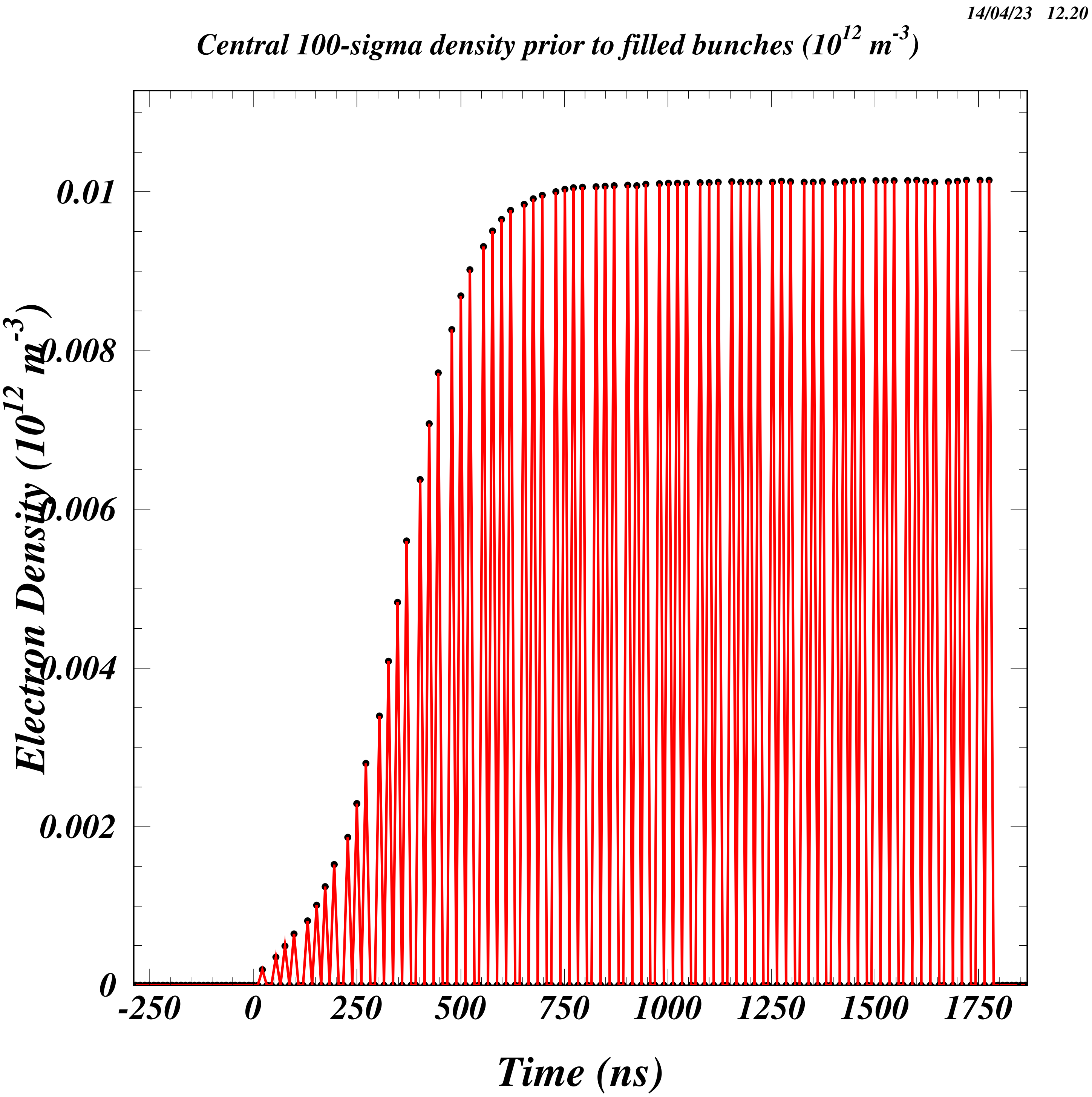

14/04/23 12.20
Job 37281: ECLOUD plots
Electron Density (10^{12} m^{-3})
0.5
0.4
0.3
0.2
0.1
0
-250
0
250
500
750
1000
1250
1500
1750
Time (ns)


14/04/23 12.20
Macroparticle Statistics
Number of Macroparticles (10^3)
0
250
500
750
1000
1250
1500
1750
2000
0
200
400
600
800
1000
1200
1400
1600
Time (ns)

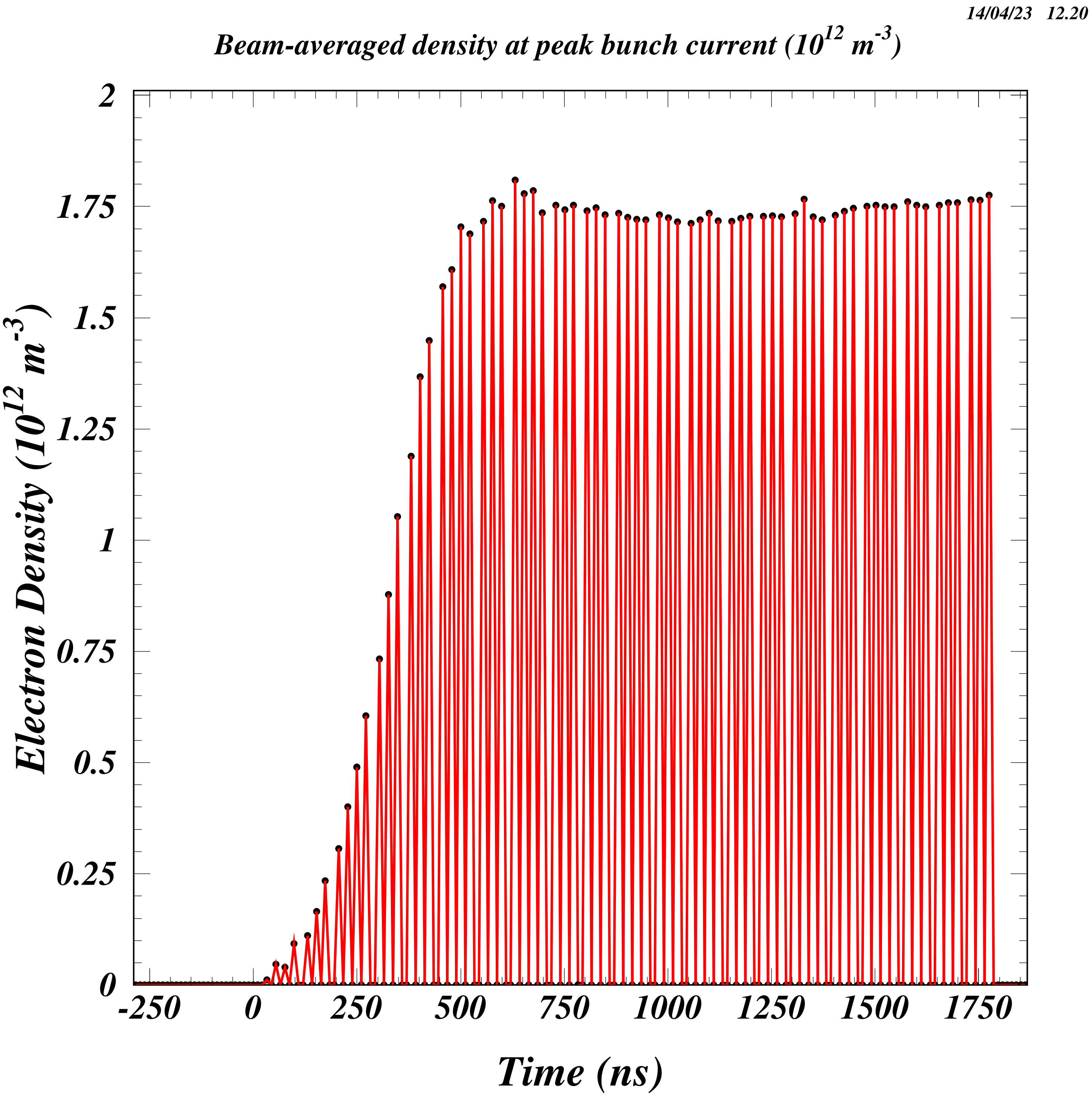

14/04/23 12.20
Beam-averaged density prior to filled bunches (10^{12} m^{-3})
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Electron Density (10^{12} m^{-3})
-250
0
250
500
750
1000
1250
1500
1750
Time (ns)

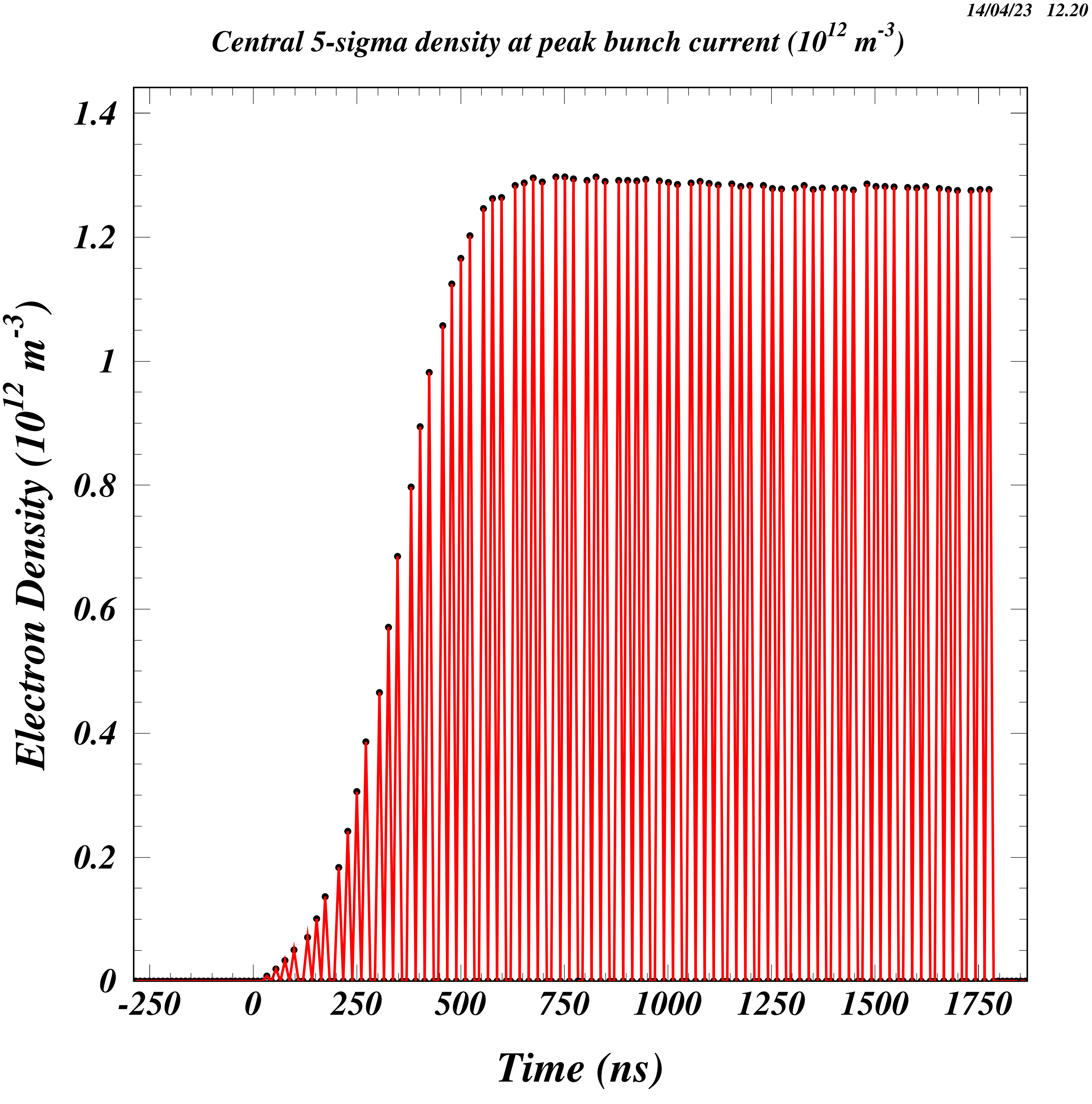

14/04/23 12.20
Central 5-sigma density prior to filled bunches (10^12 m^-3)
Electron Density (10^12 m^-3)
0
0.2
0.4
0.6
0.8
1
-250
0
250
500
750
1000
1250
1500
1750
Time (ns)


14/04/23 12.20
Central 20-sigma 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
-250
0
250
500
750
1000
1250
1500
1750
Time (ns)

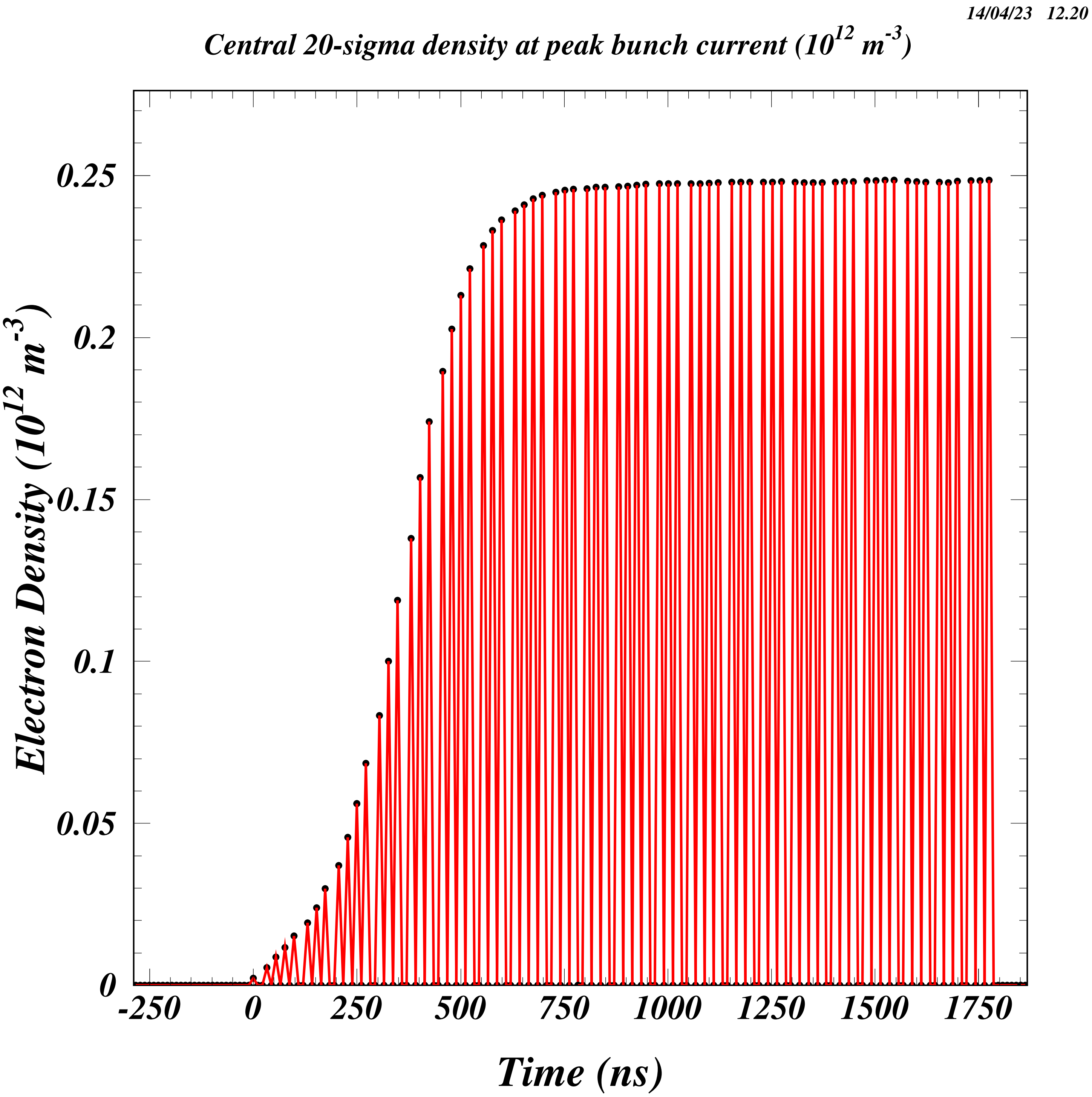


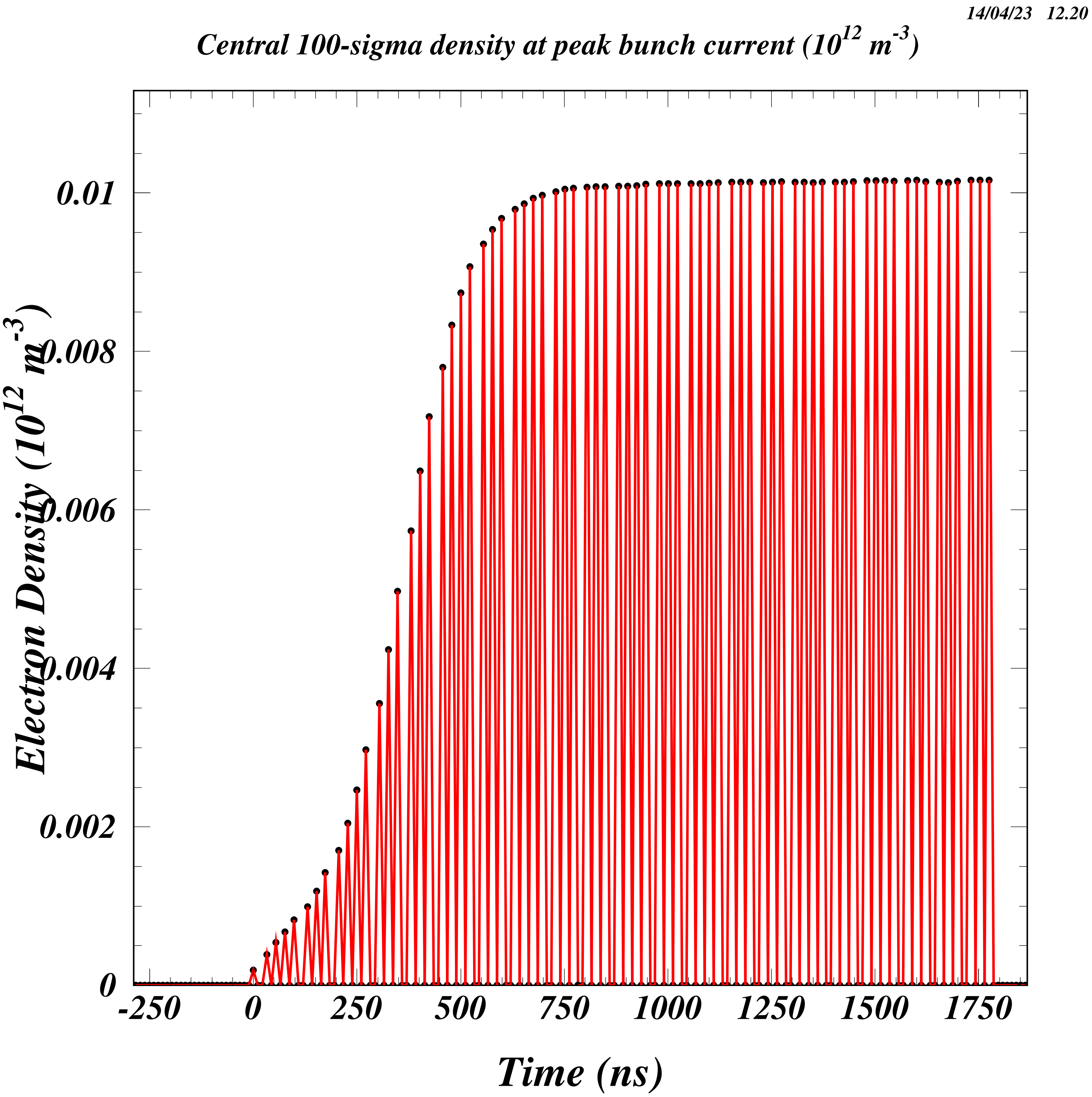
14/04/23 12.20
Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.01
0.008
0.006
0.004
0.002
0
-250
0
250
500
750
1000
1250
1500
1750
Time (ns)


14/04/23 12.20
Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
Time (ns)
2
1.75
1.5
1.25
1
0.75
0.5
0.25
0
-250
0
250
500
750
1000
1250
1500
1750



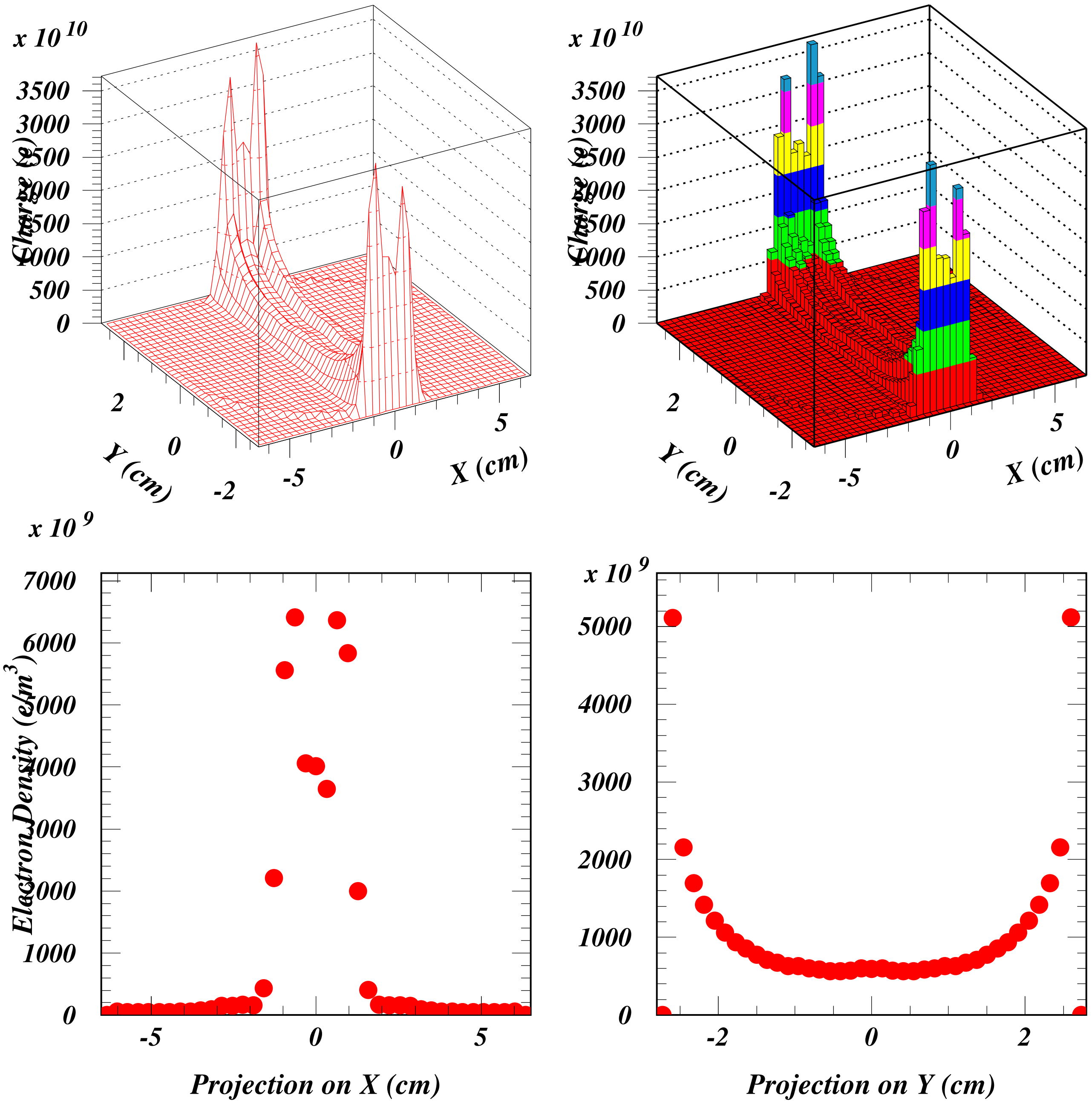
14/04/23 12.20
Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-250
0
250
500
750
1000
1250
1500
1750
Time (ns)


14/04/23 12.20
Central 20-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
-250
0
250
500
750
1000
1250
1500
1750
Time (ns)

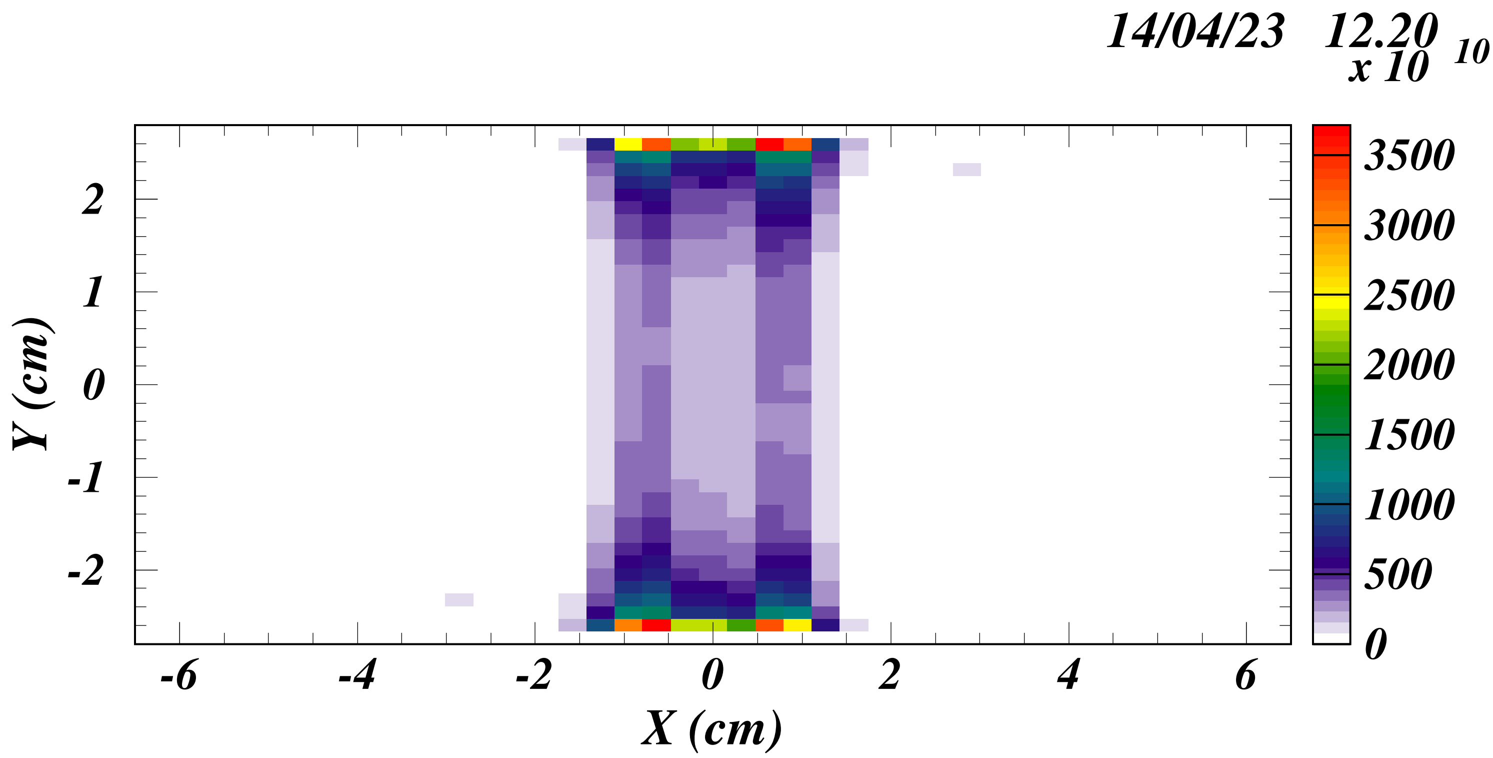


14/04/23 12.20
Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.01
0.008
0.006
0.004
0.002
0
-250
0
250
500
750
1000
1250
1500
1750
Time (ns)

14/04/23   12.20



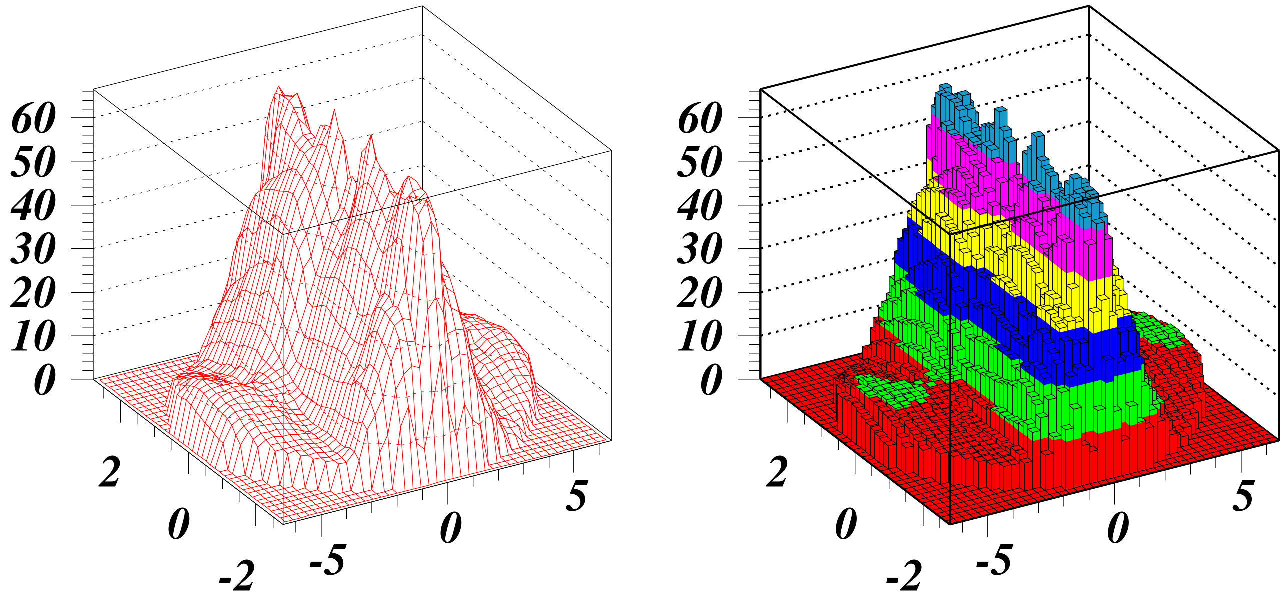
x 10^10
3500
3000
2500
2000
1500
1000
500
0
Charge (e)
Y (cm)
X (cm)
x 10^9
Electron Density (e/m^3)
Projection on X (cm)
Projection on Y (cm)

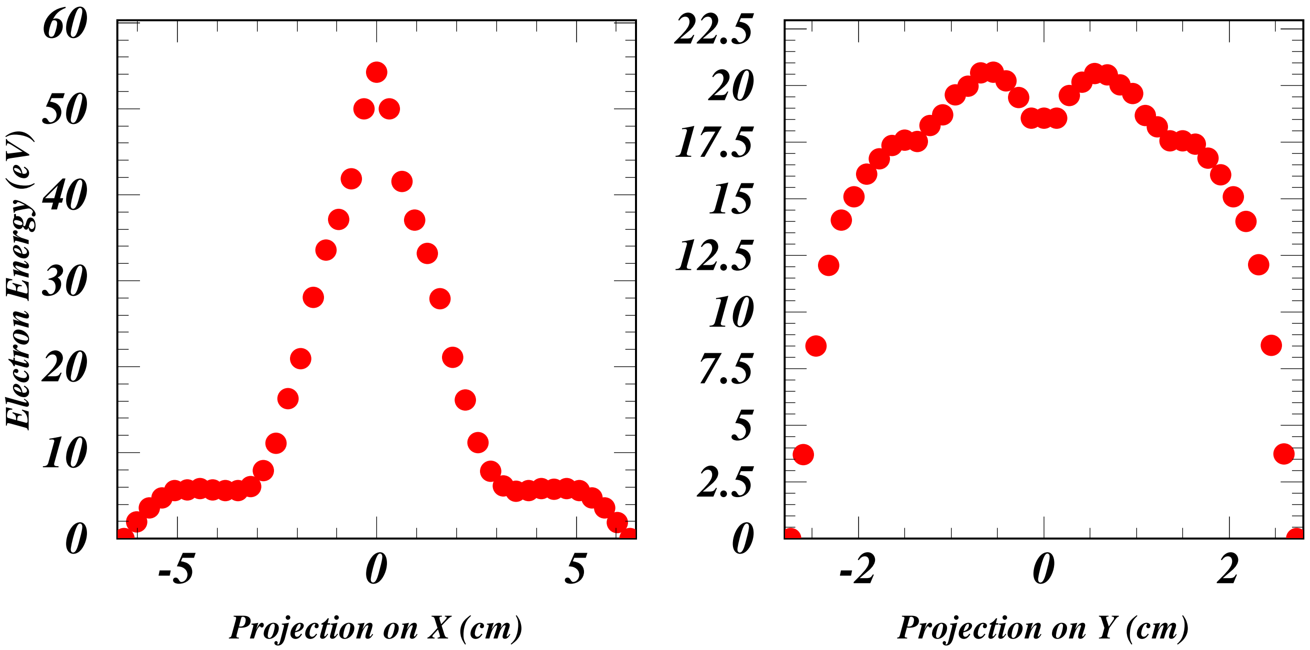


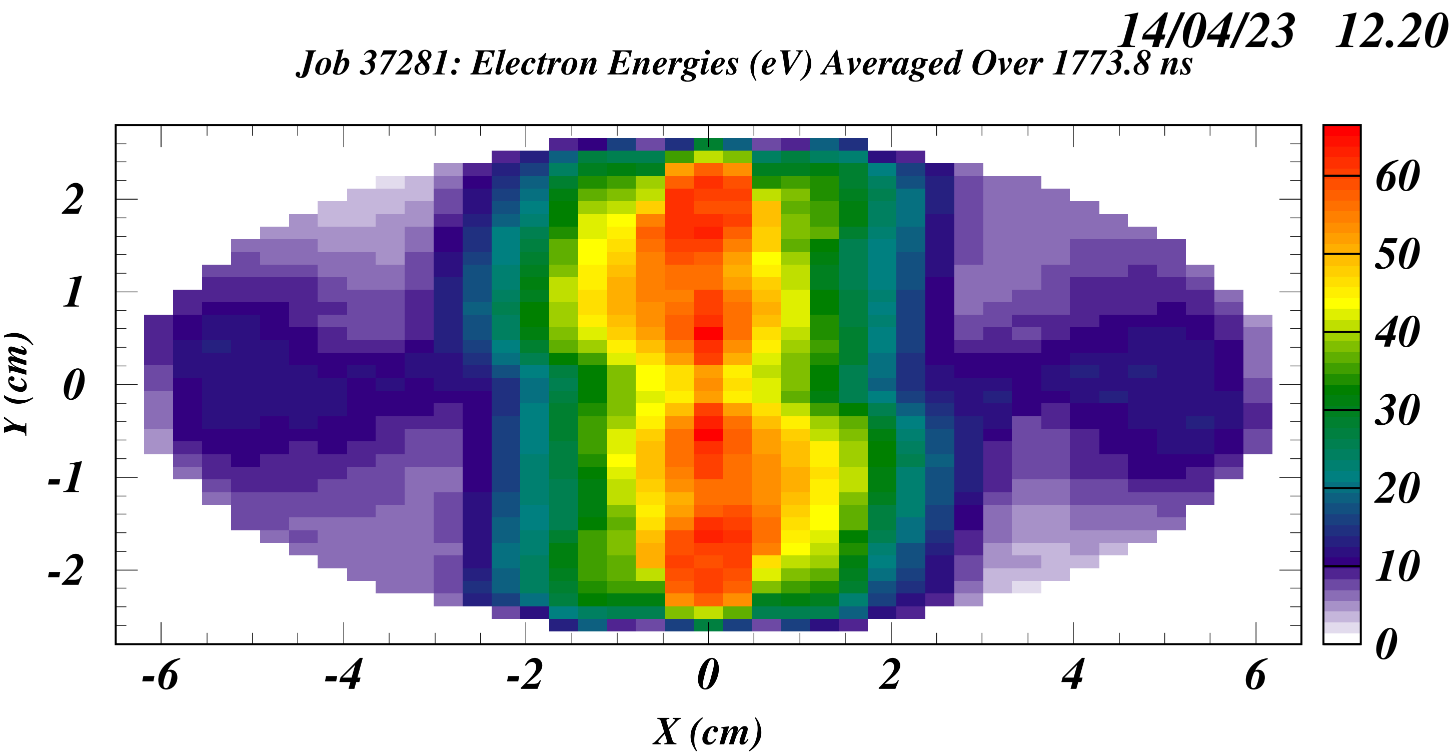
14/04/23 12.20
x 10
10
3500
3000
2500
2000
1500
1000
500
0
2
1
0
-1
-2
Y (cm)
-6
-4
-2
0
2
4
6
X (cm)

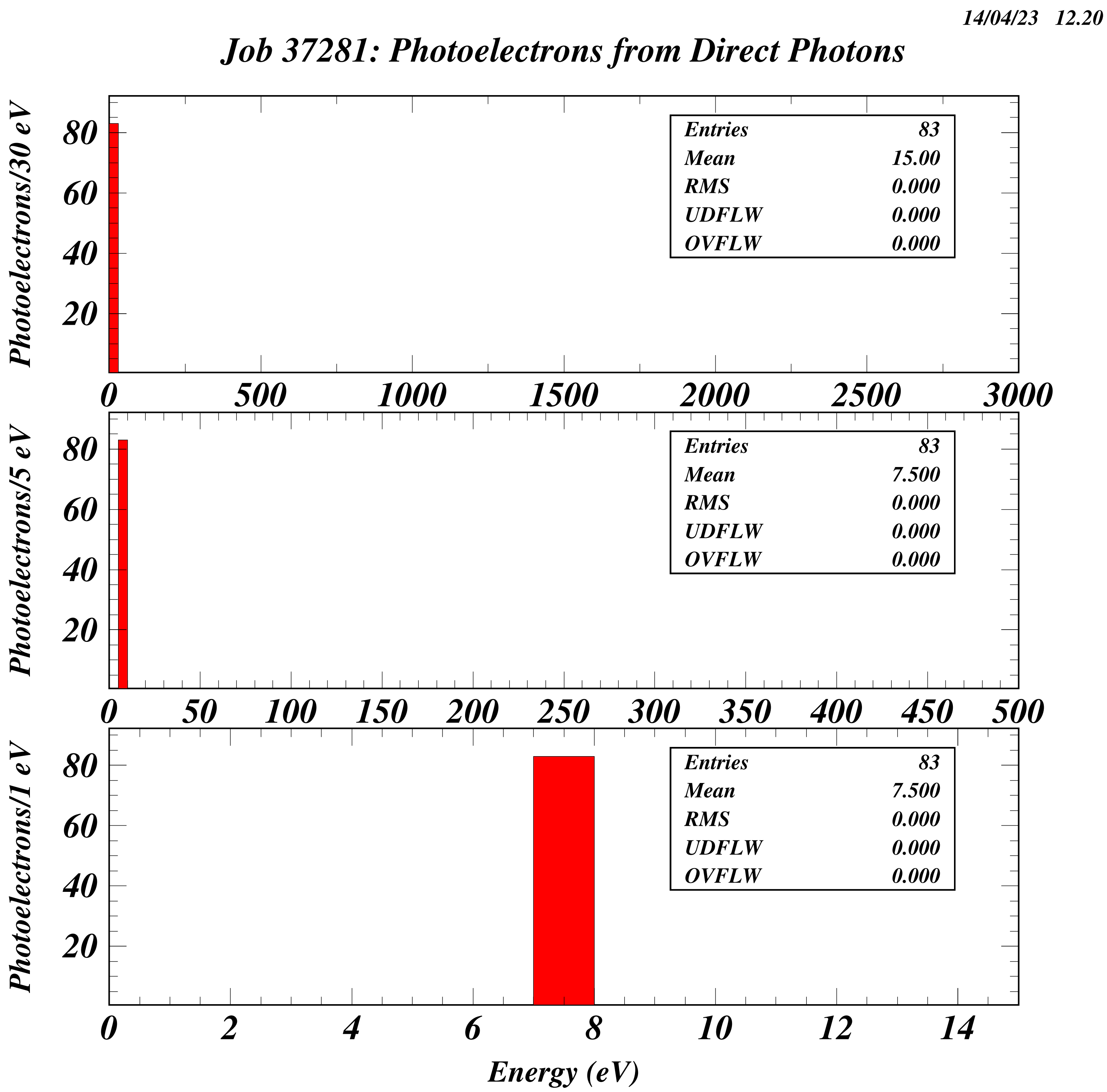
14/04/23 12.20

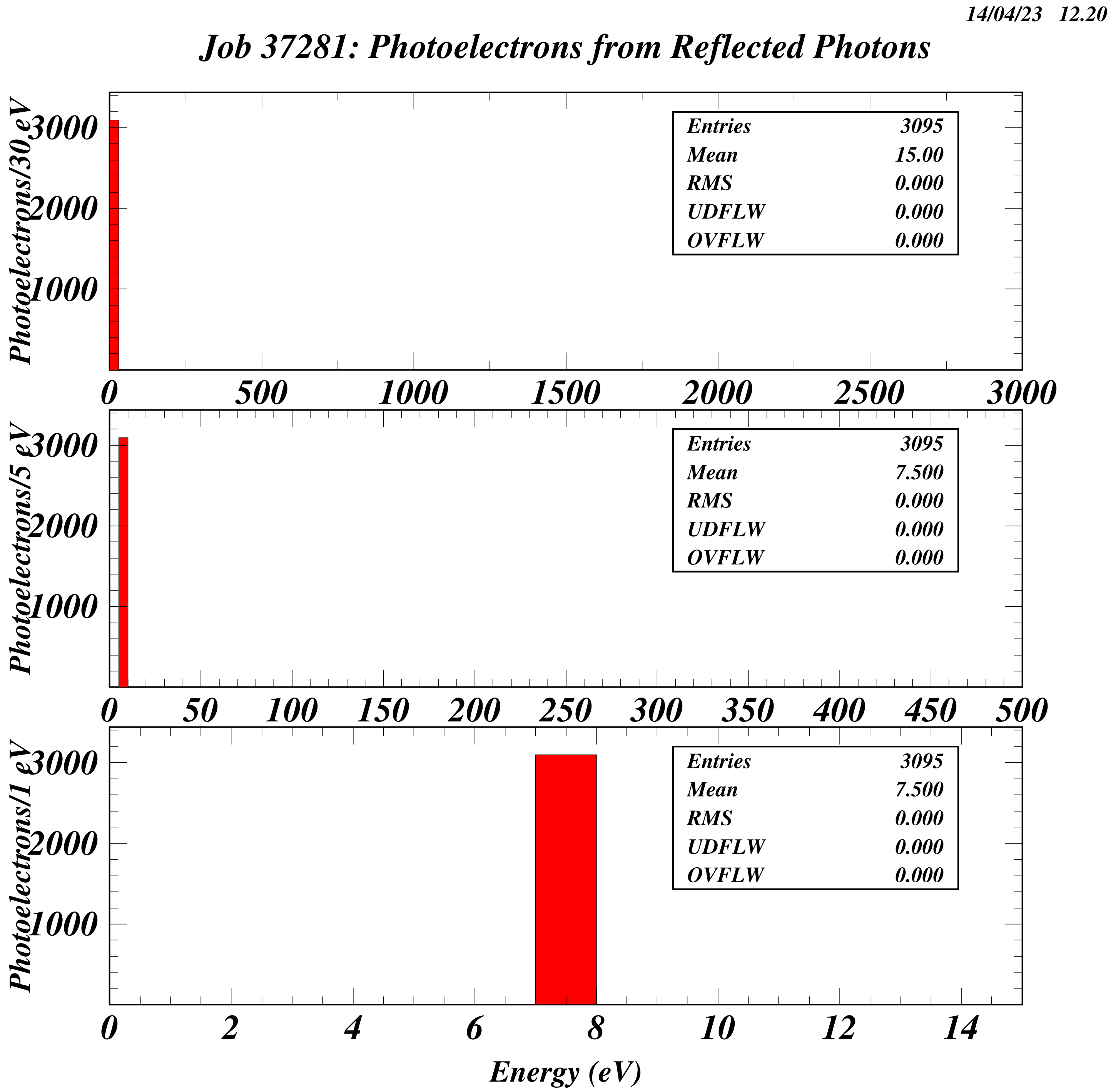
Job 37281: Electron Energies (eV) Averaged Over 1773.8 ns





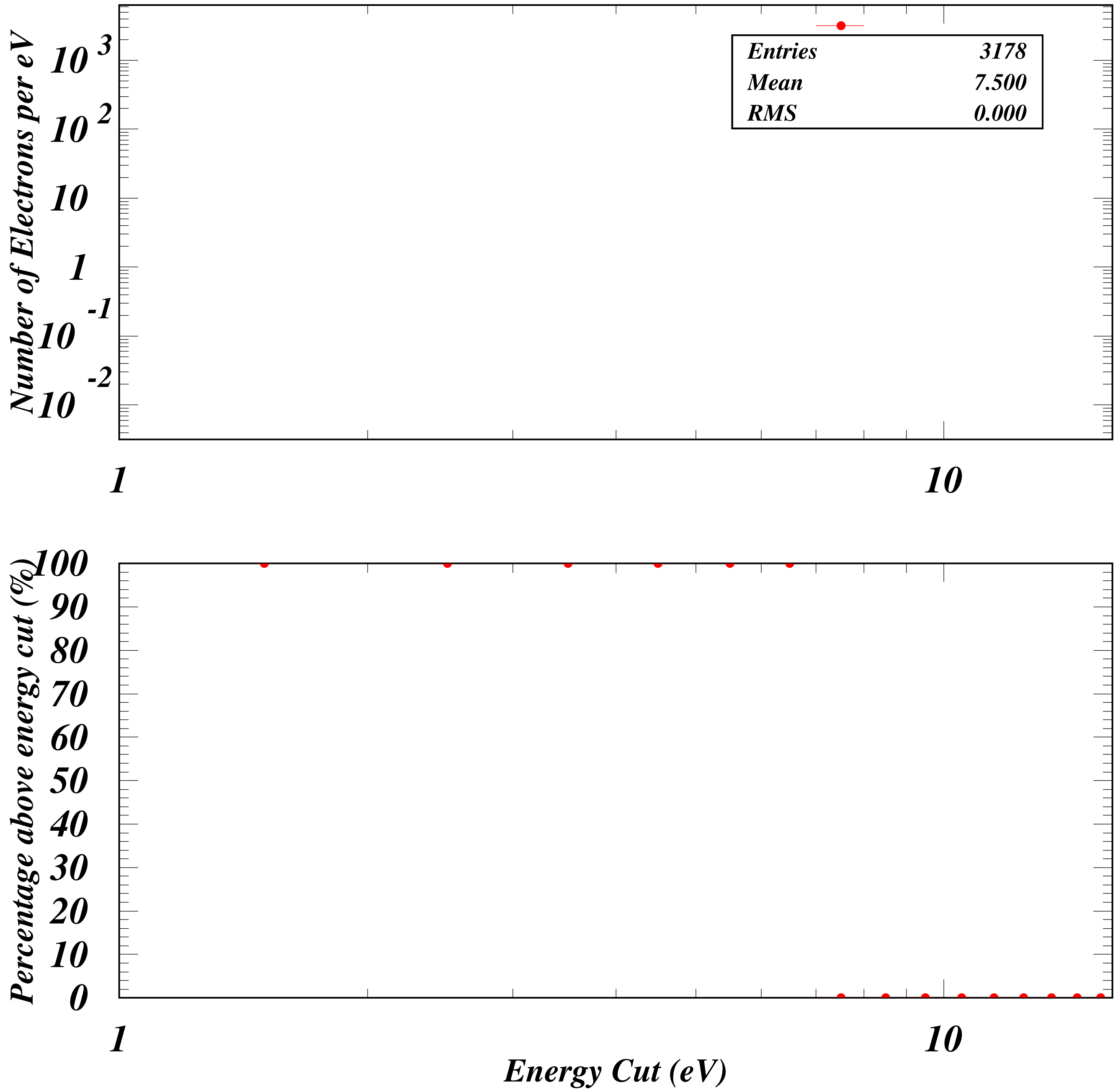

14/04/23 12.20
Job 37281: Electron Energies (eV) Averaged Over 1773.8 ns
Y (cm)
2
1
0
-1
-2
-6
-4
-2
0
2
4
6
X (cm)
60
50
40
30
20
10
0


14/04/23 12.20
Job 37281: Photoelectrons from Direct Photons
Photoelectrons/30 eV
Entries 83
Mean 15.00
RMS 0.000
UDFLW 0.000
OVFLW 0.000
0 500 1000 1500 2000 2500 3000
Photoelectrons/5 eV
Entries 83
Mean 7.500
RMS 0.000
UDFLW 0.000
OVFLW 0.000
0 50 100 150 200 250 300 350 400 450 500
Photoelectrons/1 eV
Entries 83
Mean 7.500
RMS 0.000
UDFLW 0.000
OVFLW 0.000
0 2 4 6 8 10 12 14
Energy (eV)


14/04/23 12.20
Job 37281: Photoelectrons from Reflected Photons
Photoelectrons/30 eV
Entries 3095
Mean 15.00
RMS 0.000
UDFLW 0.000
OVFLW 0.000
Photoelectrons/5 eV
Entries 3095
Mean 7.500
RMS 0.000
UDFLW 0.000
OVFLW 0.000
Photoelectrons/1 eV
Entries 3095
Mean 7.500
RMS 0.000
UDFLW 0.000
OVFLW 0.000
Energy (eV)

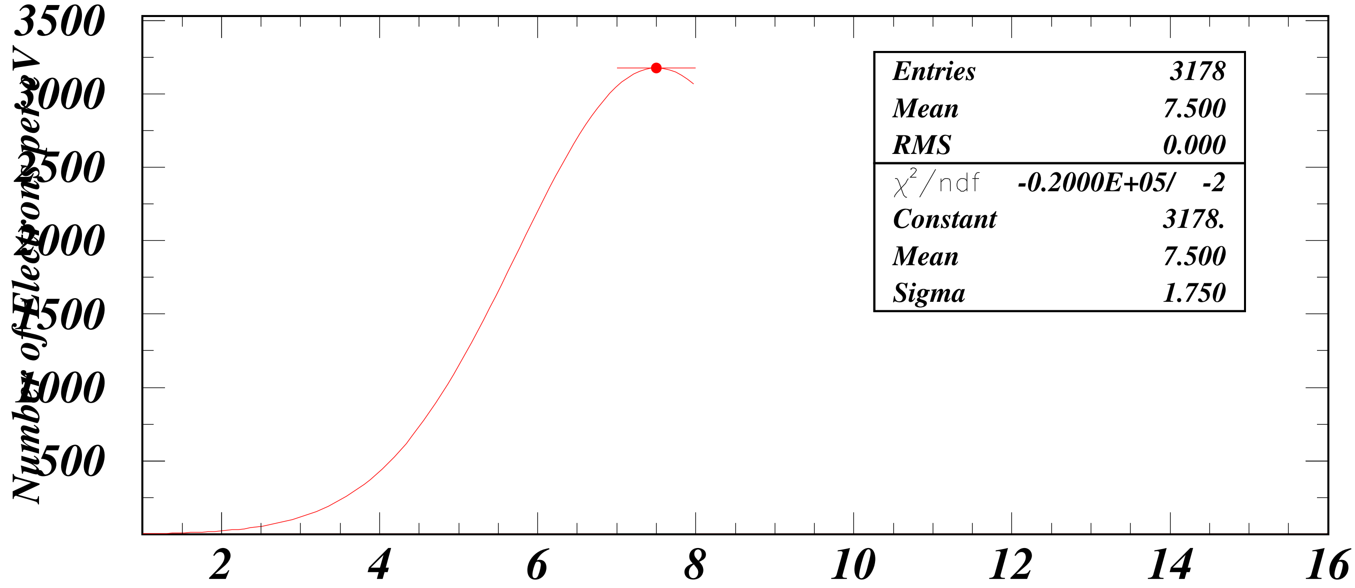
14/04/23 12.20

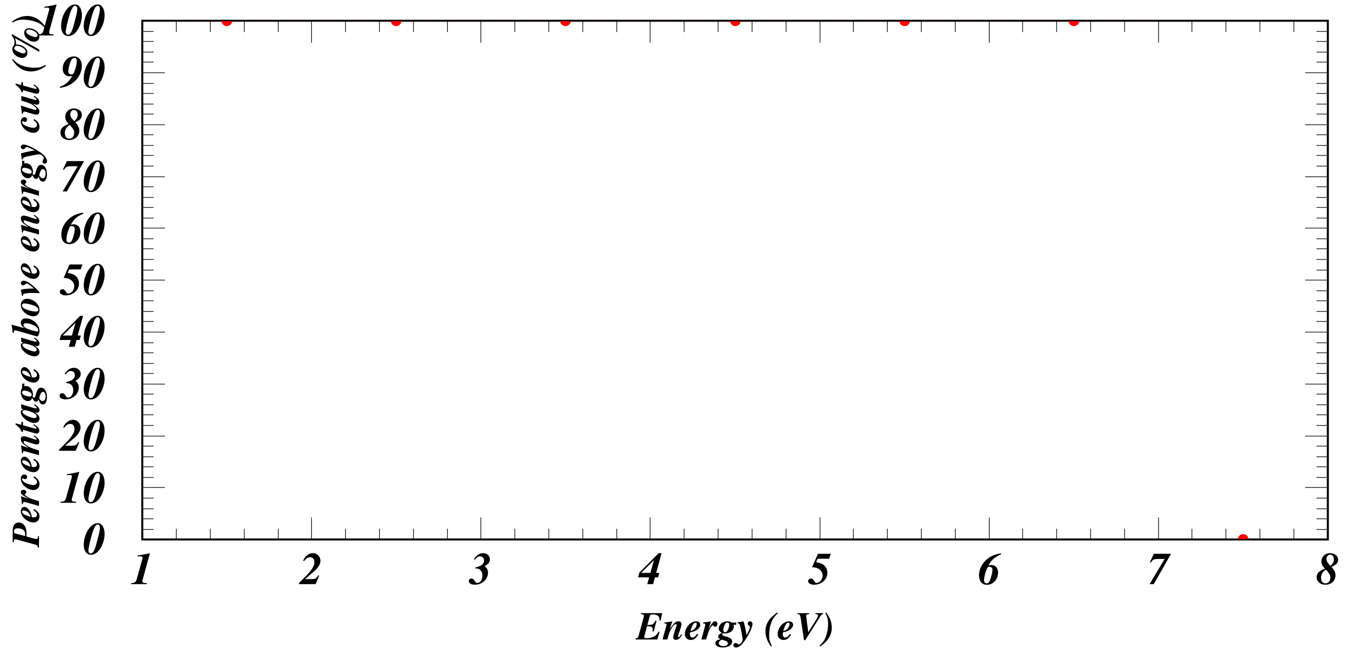
Job 37281: Photoelectron Energies



14/04/23 12.20

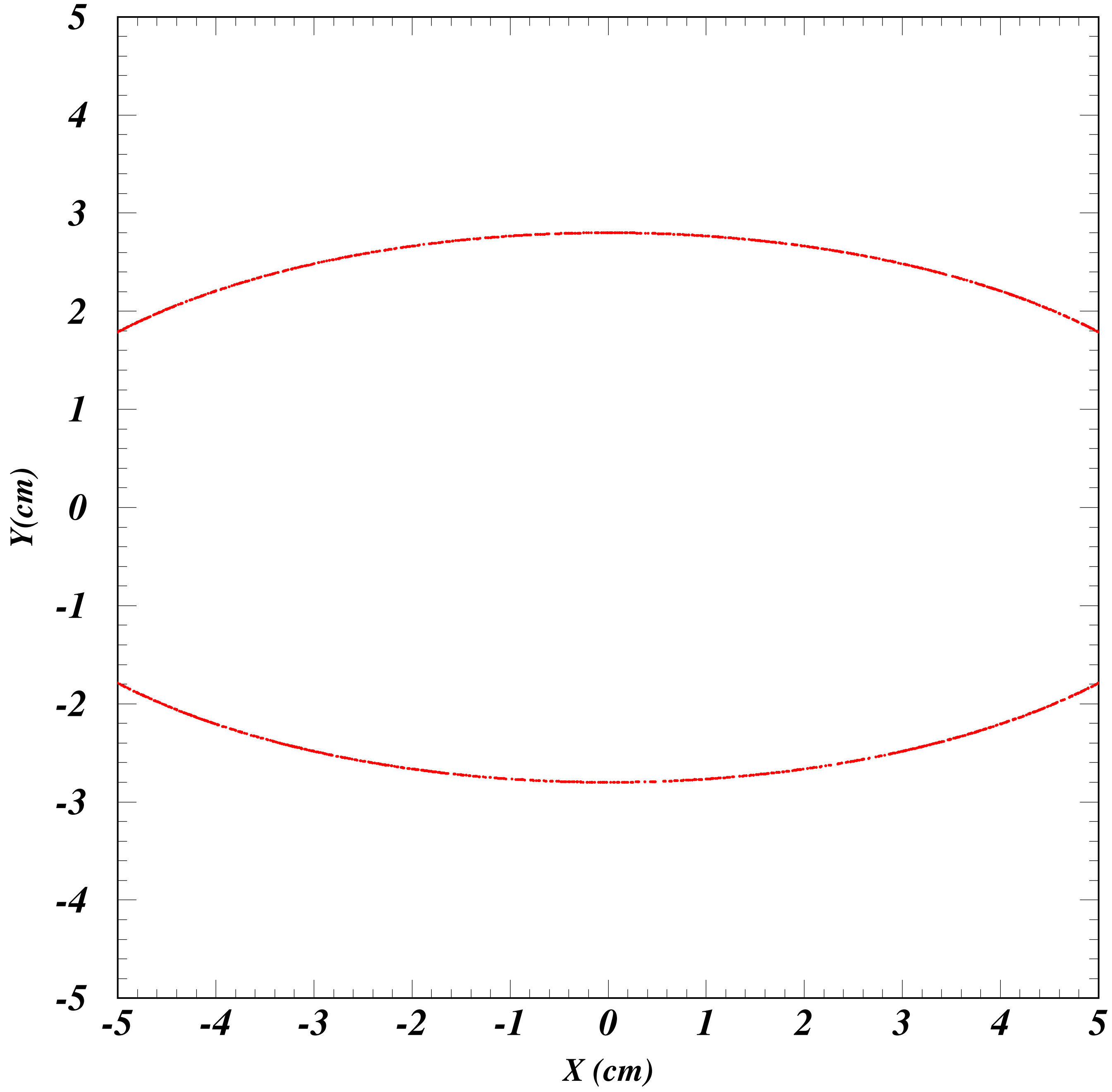
Job 37281: Photoelectron Energies





14/04/23 12.20

Job 37281: Photoelectron Production Distributions



14/04/23 12.20

Job 37281: Photoelectron Production Distributions