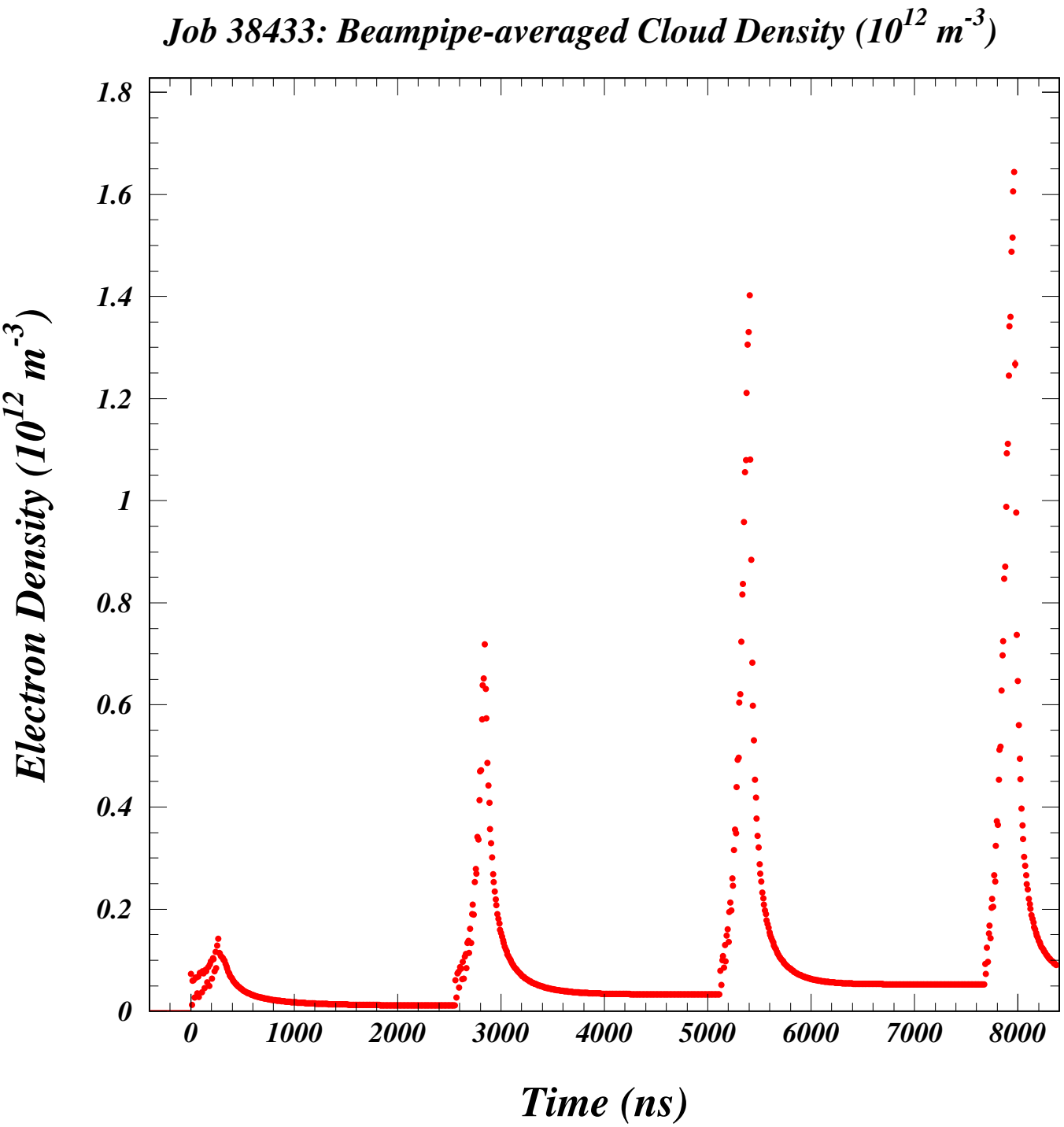
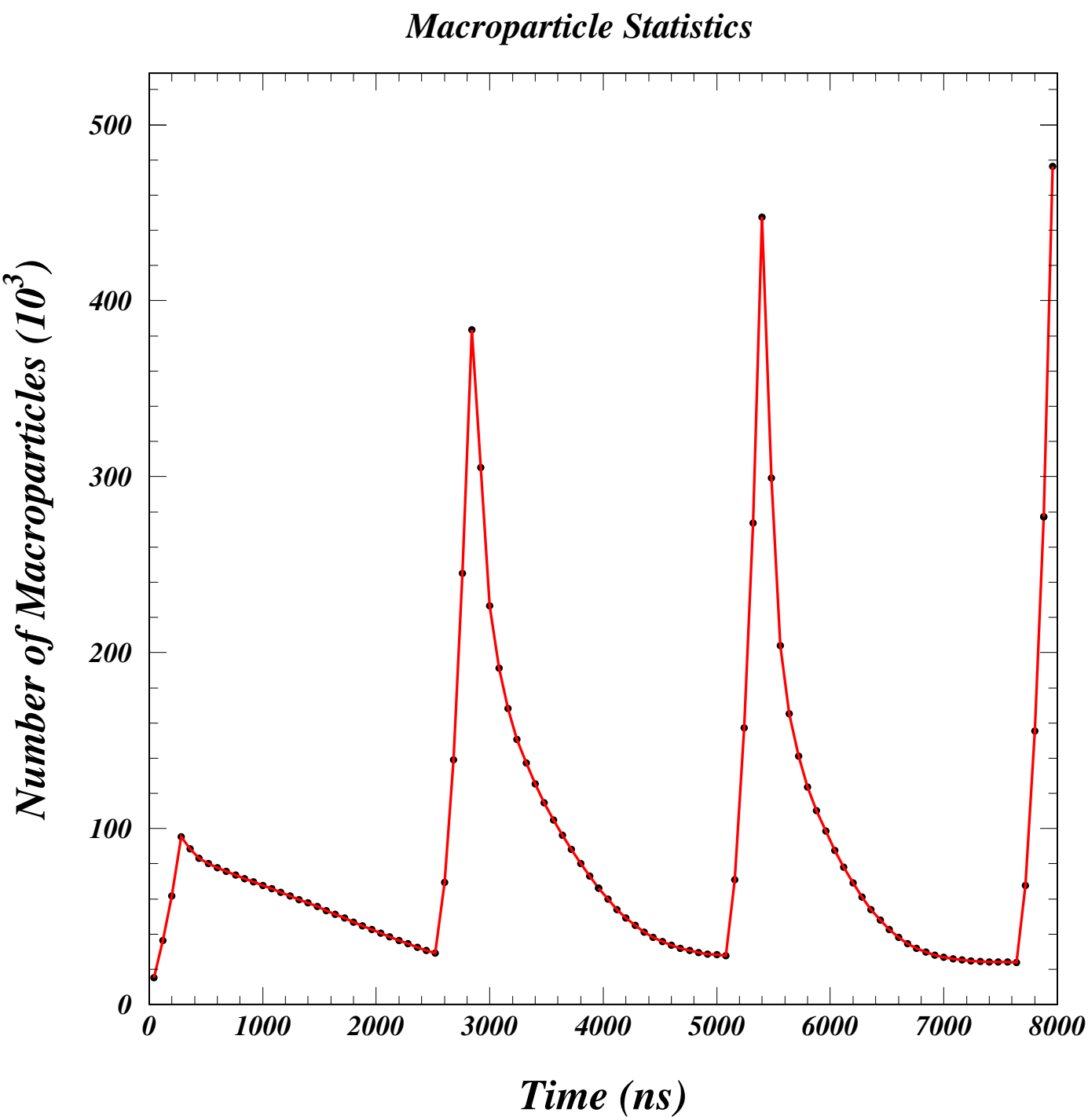
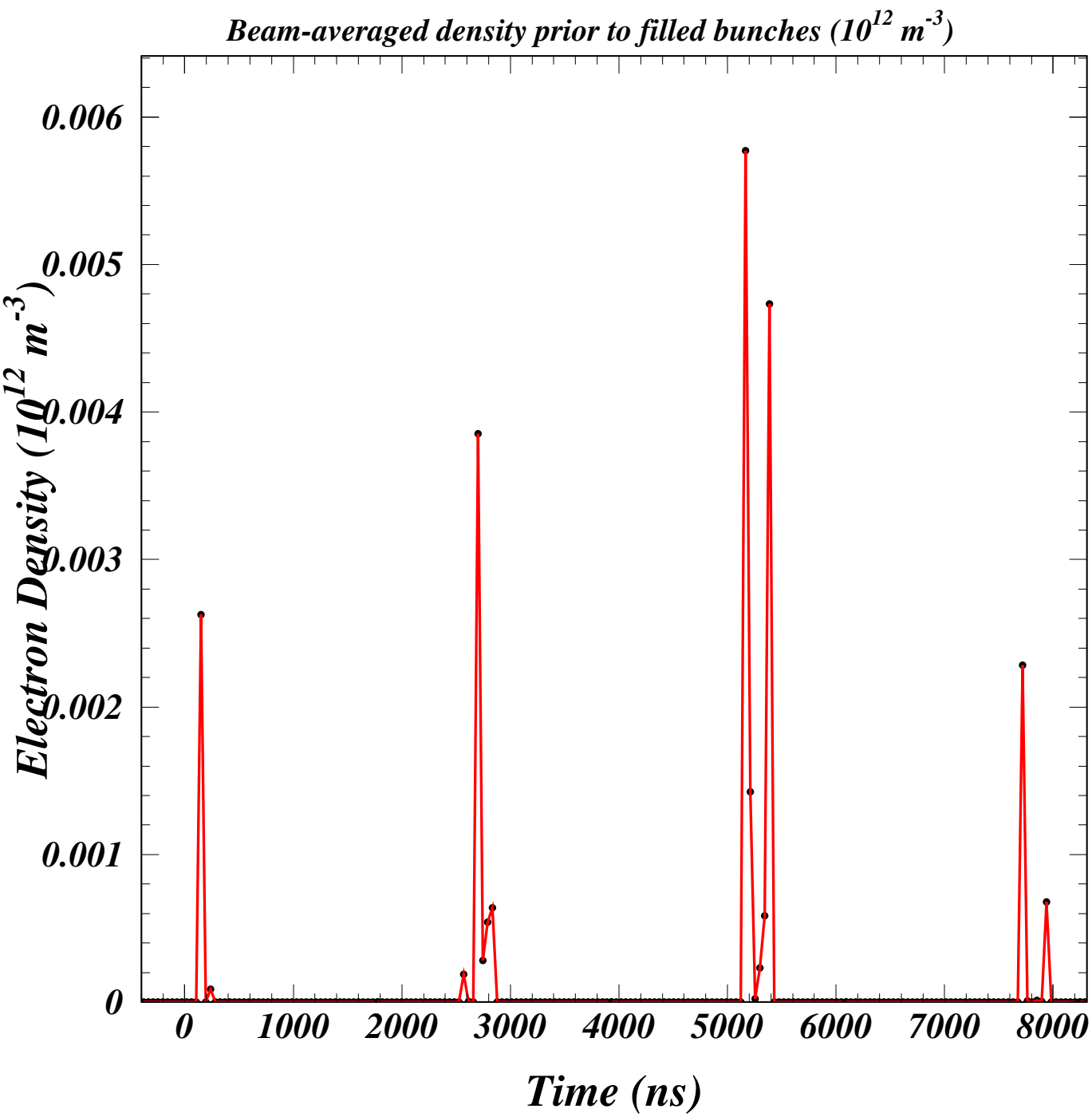
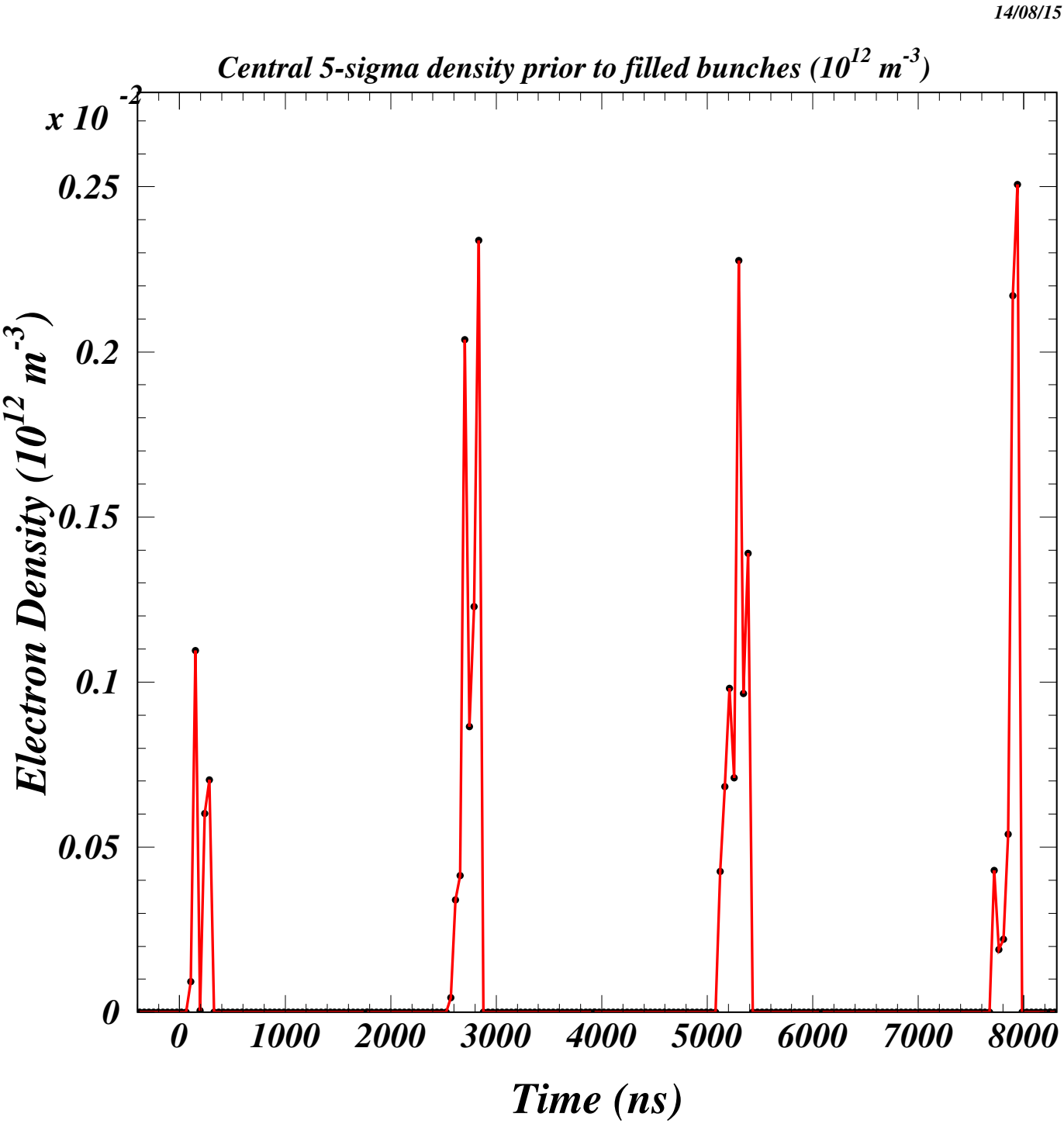
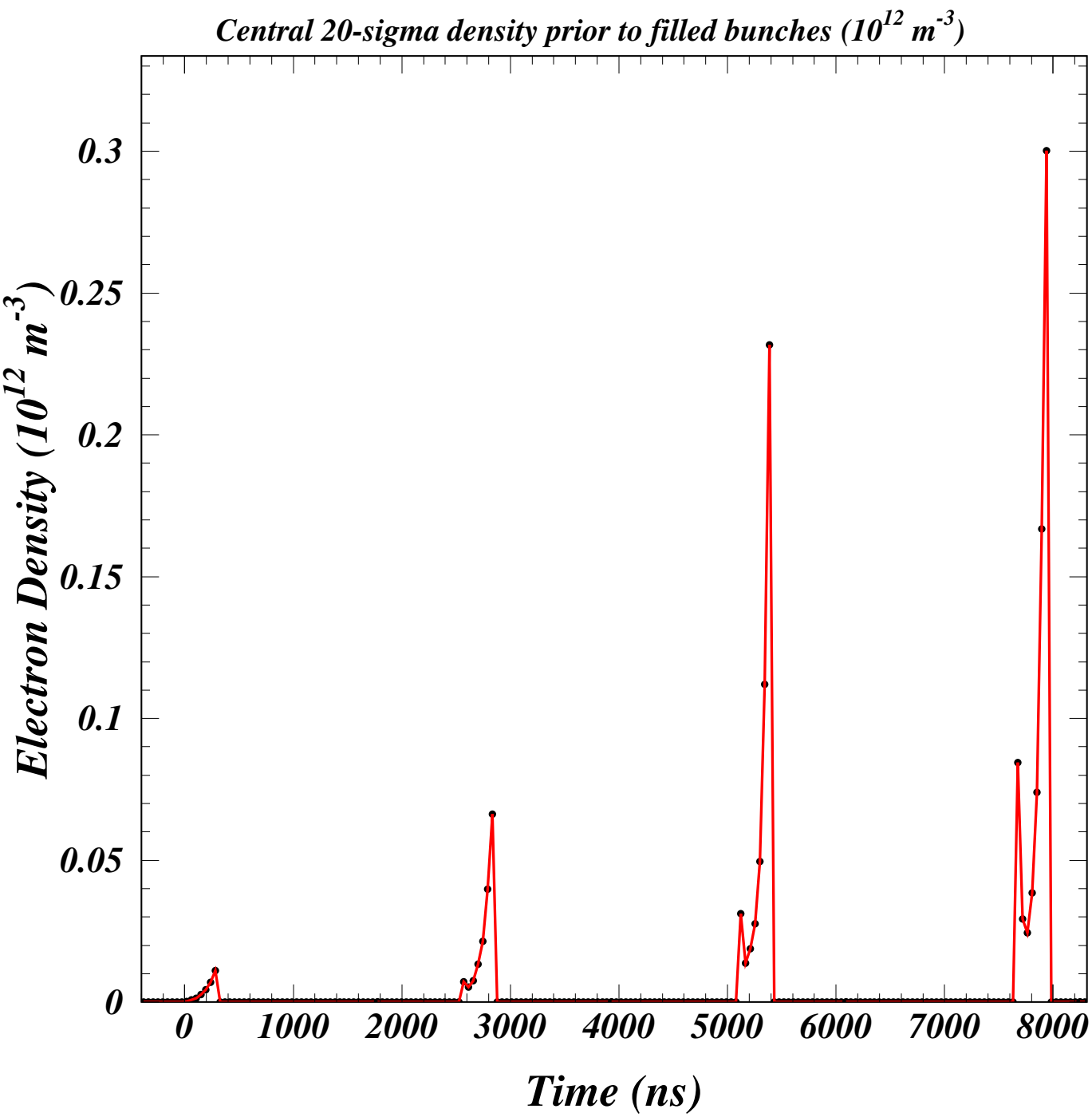

Job 38433: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)

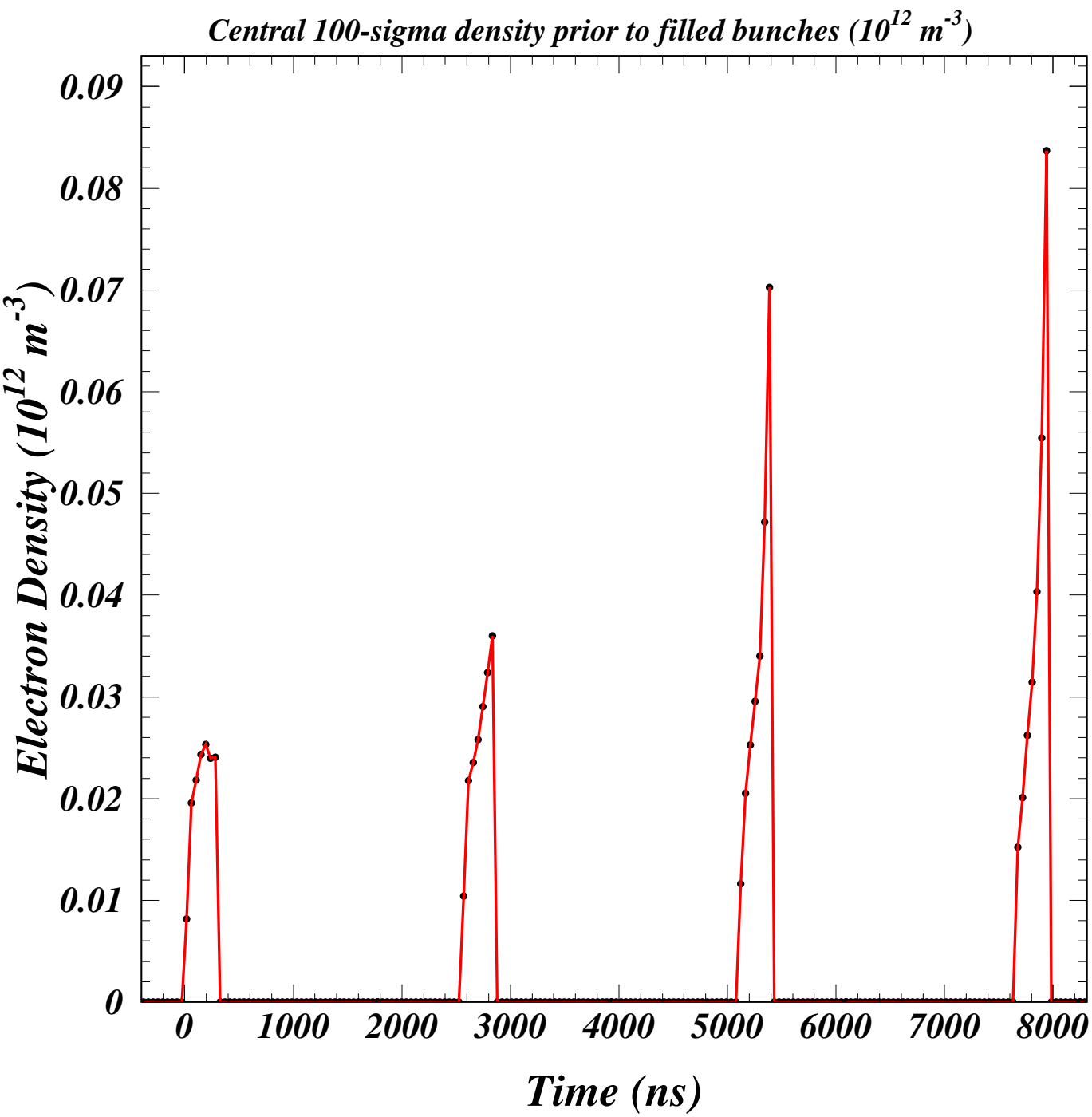

Macroparticle Statistics
Number of Macroparticles (10^3)
0
100
200
300
400
500
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)

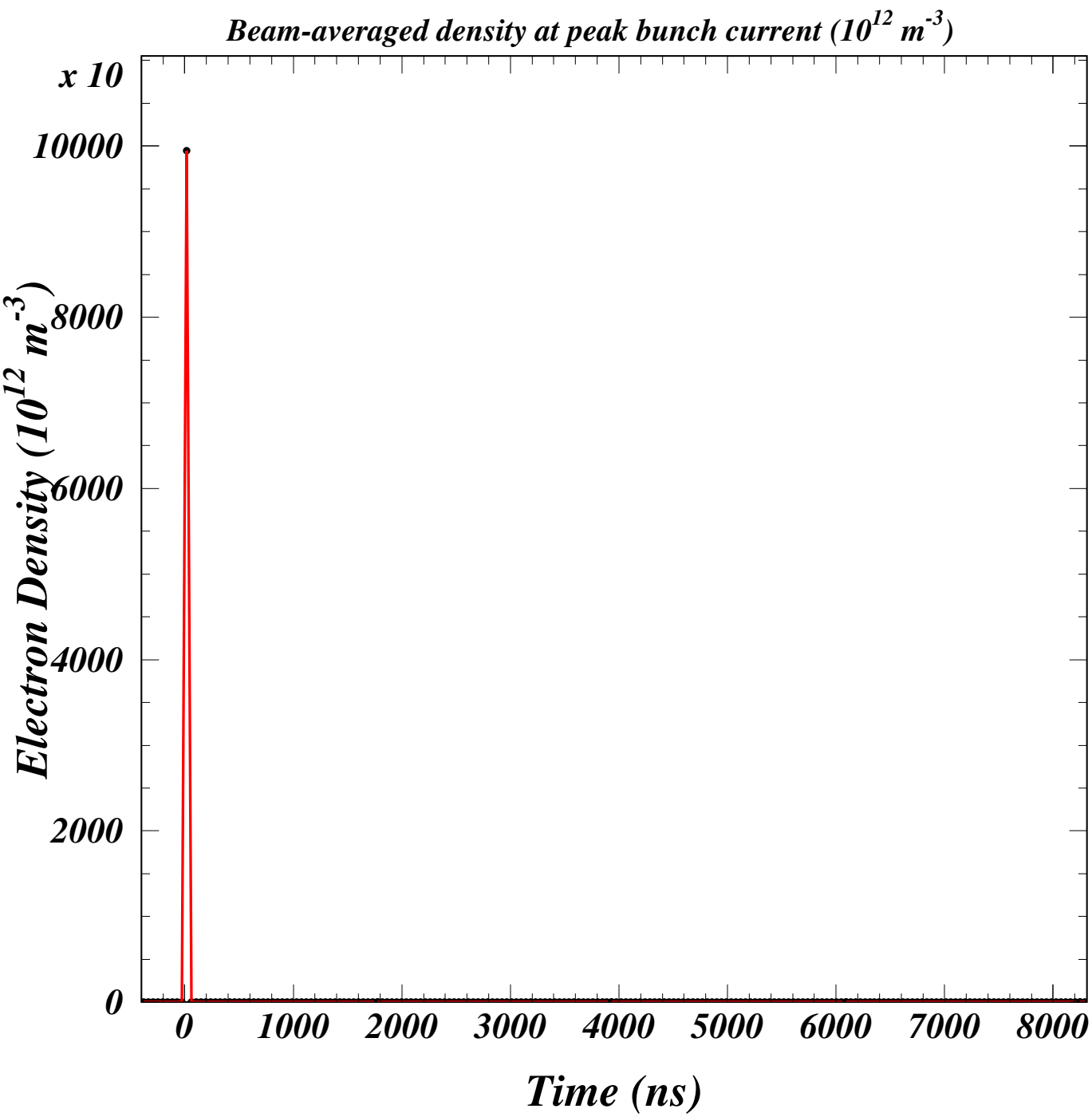

Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.006
0.005
0.004
0.003
0.002
0.001
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)


14/08/15 11.44
Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
x 10^{-2}
0.25
0.2
0.15
0.1
0.05
0
Electron Density (10^{12} m^{-3})
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)

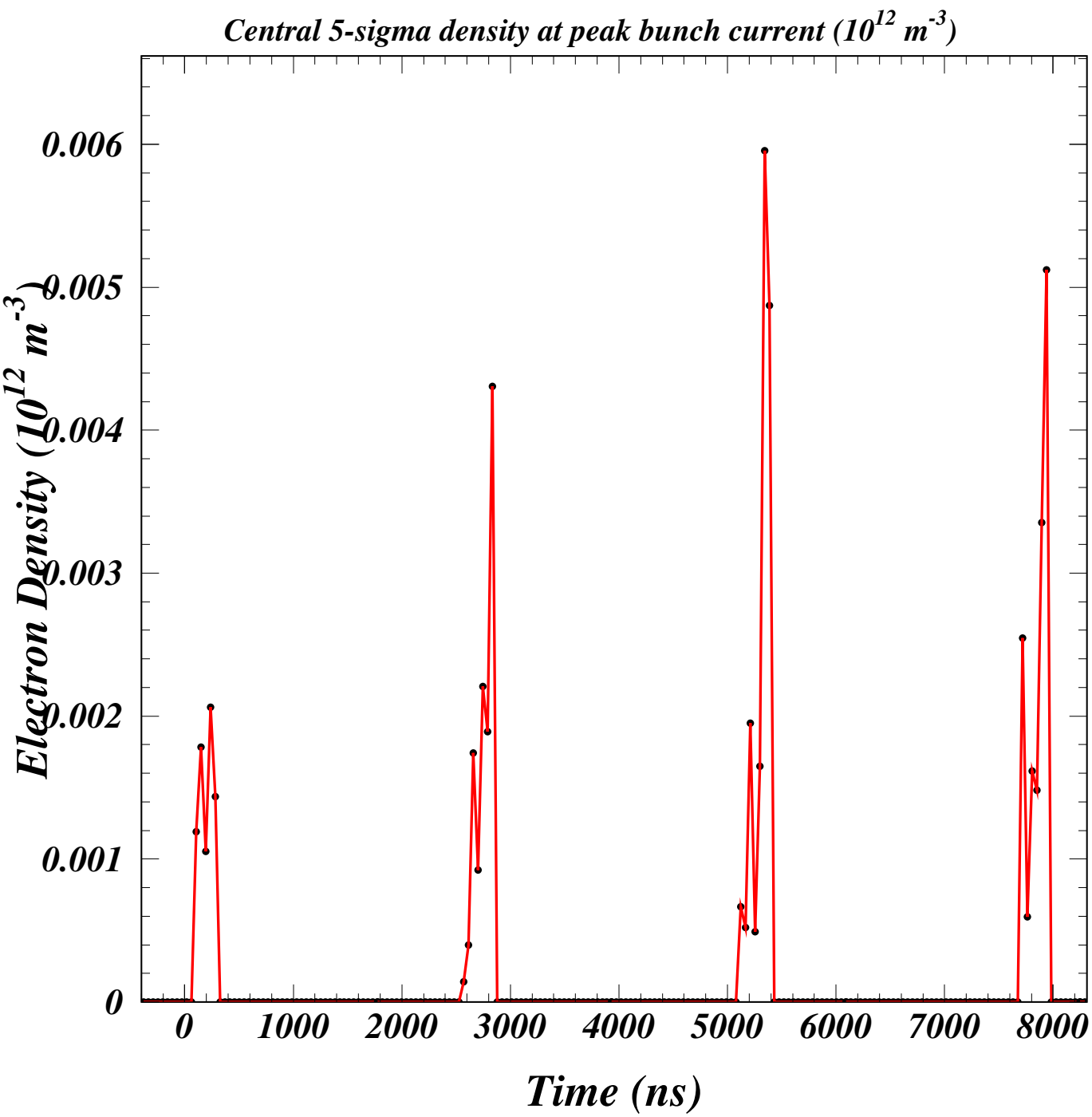
14/08/15 11.44


Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.3
0.25
0.2
0.15
0.1
0.05
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)

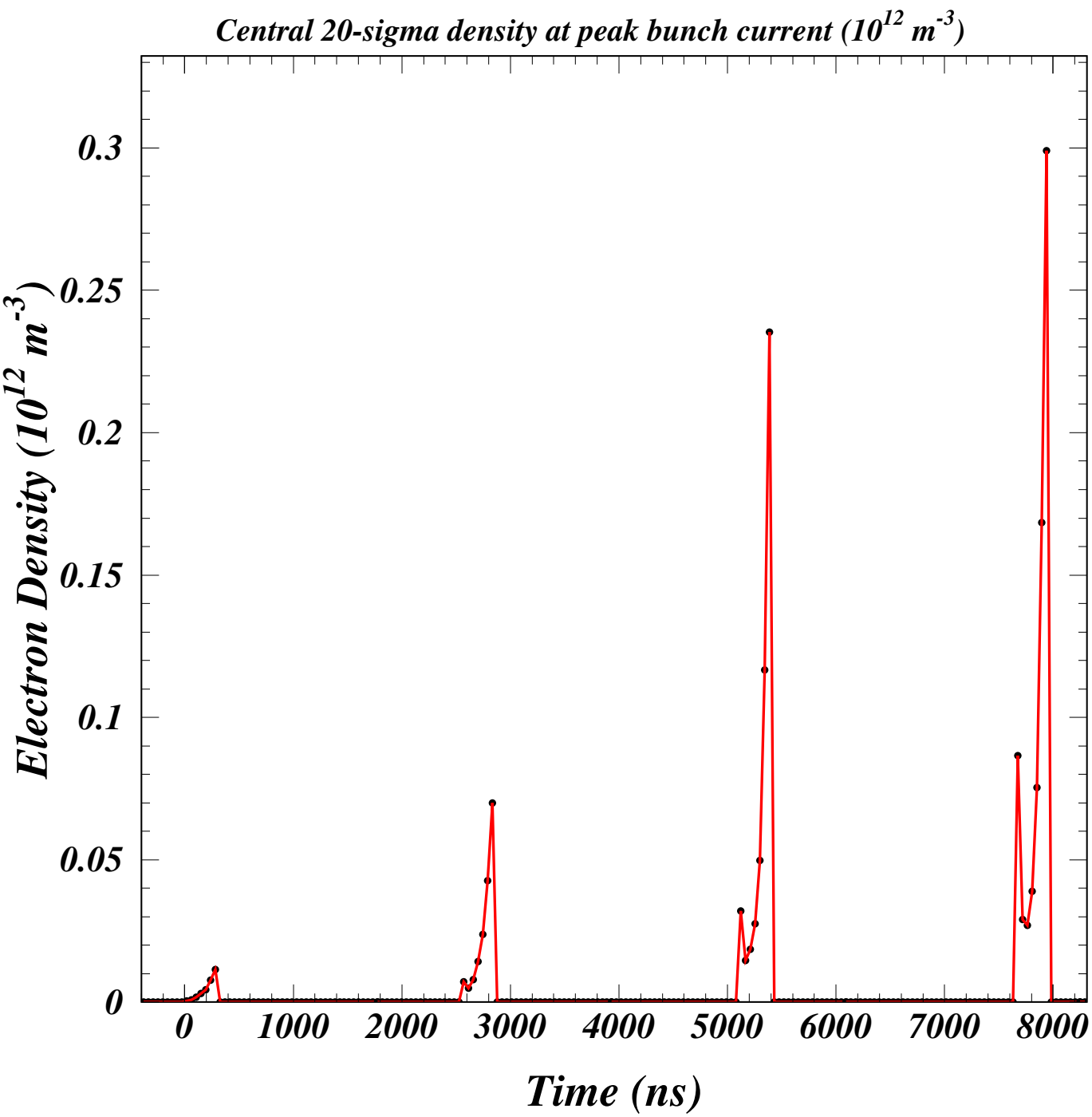

Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)


Beam-averaged density at peak bunch current (10^{12} m^{-3})
x 10
10000
8000
6000
4000
2000
0
Electron Density (10^{12} m^{-3})
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)

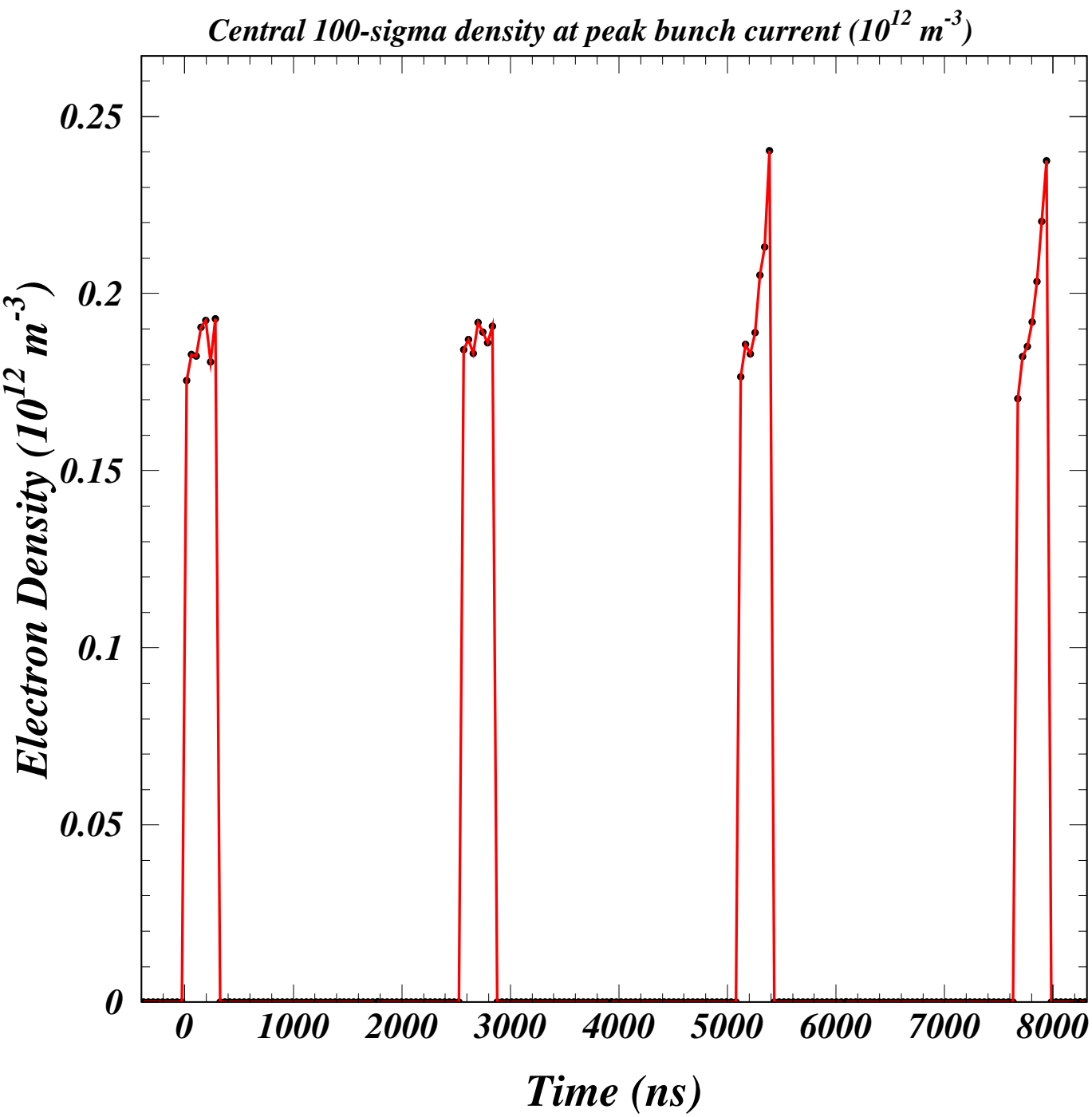
14/08/15 11.44


Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.006
0.005
0.004
0.003
0.002
0.001
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)

14/08/15 11.44


Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.3
0.25
0.2
0.15
0.1
0.05
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)

14/08/15 11.44


Central 100-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
1000
2000
3000
4000
5000
6000
7000
8000
Time (ns)