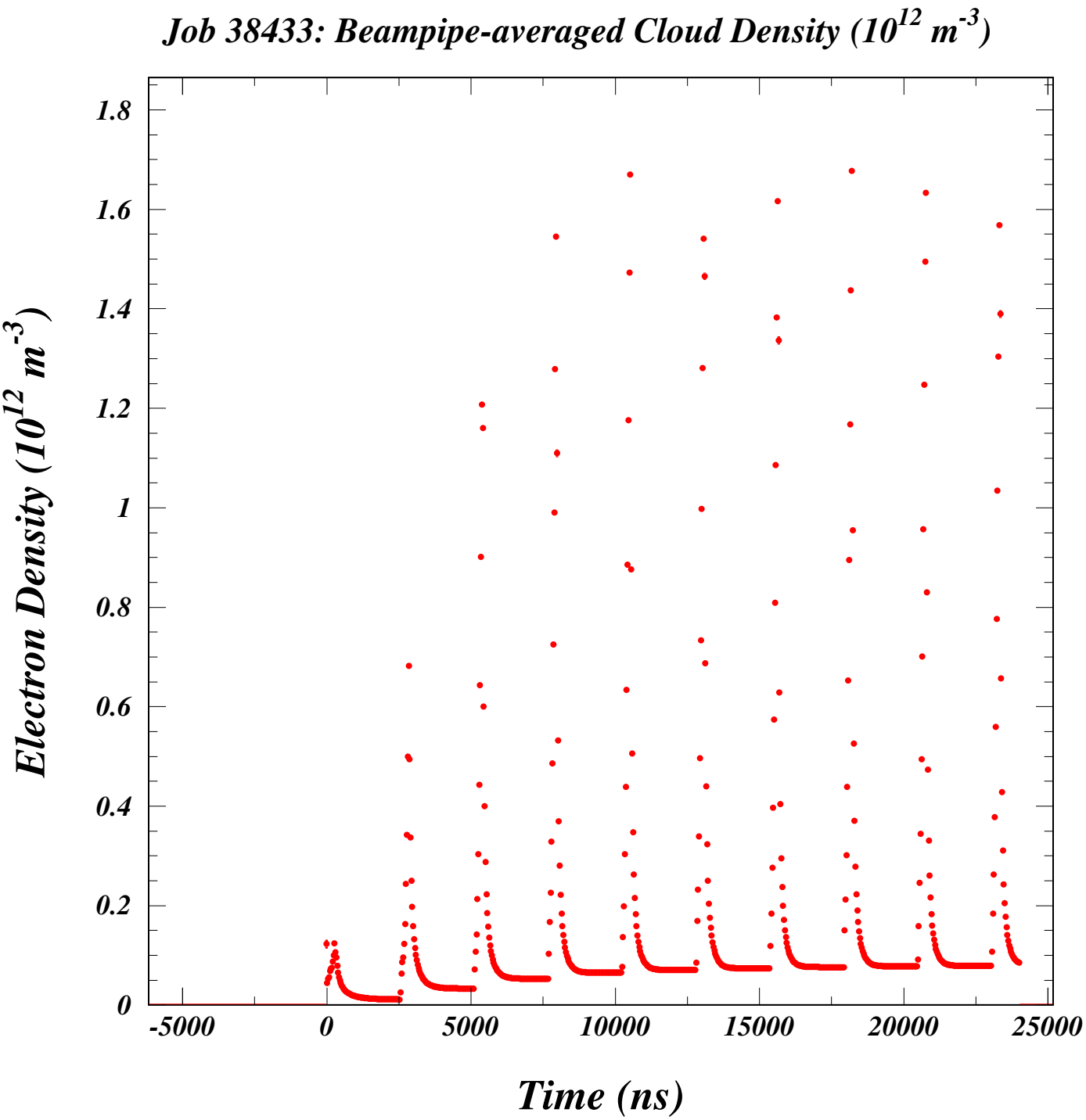
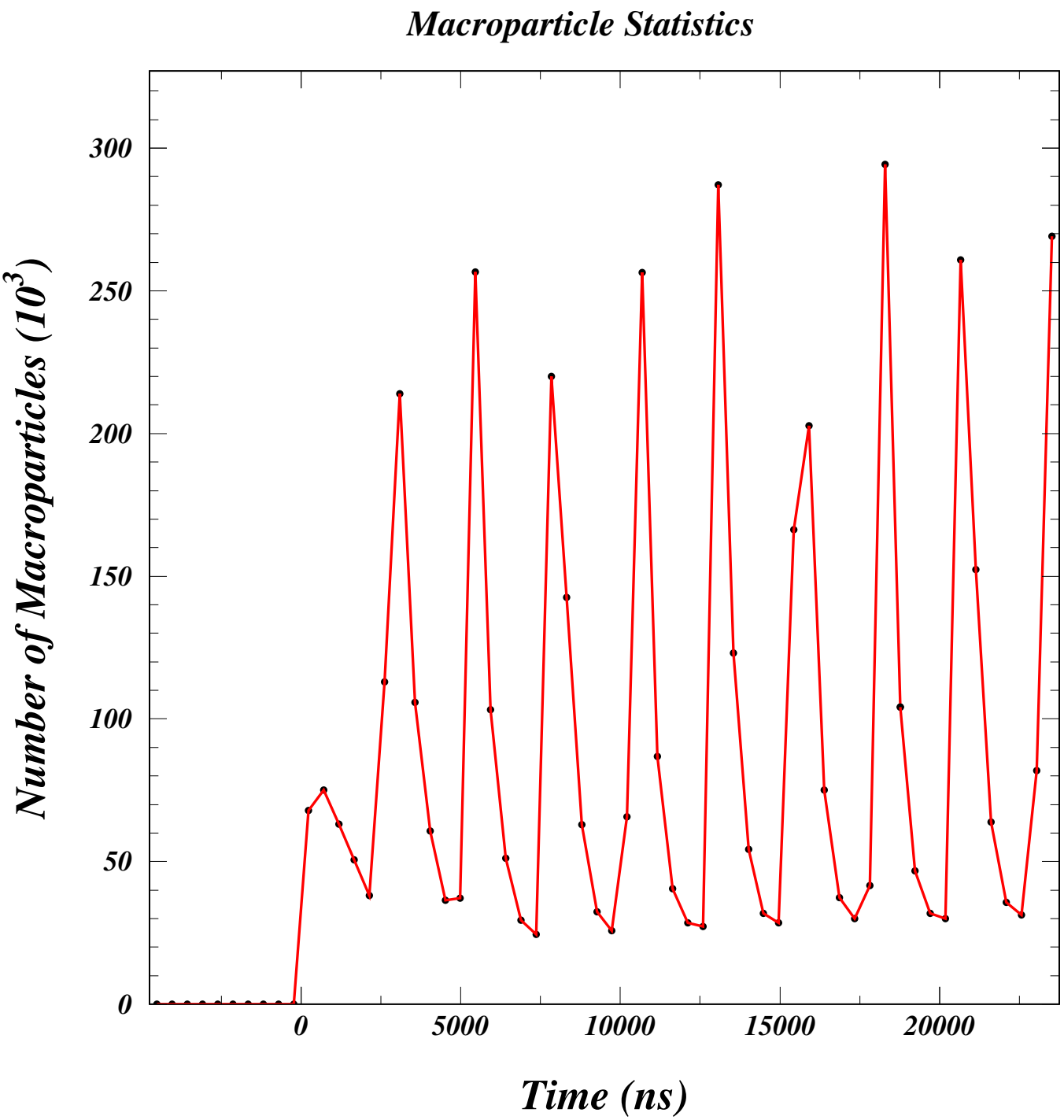
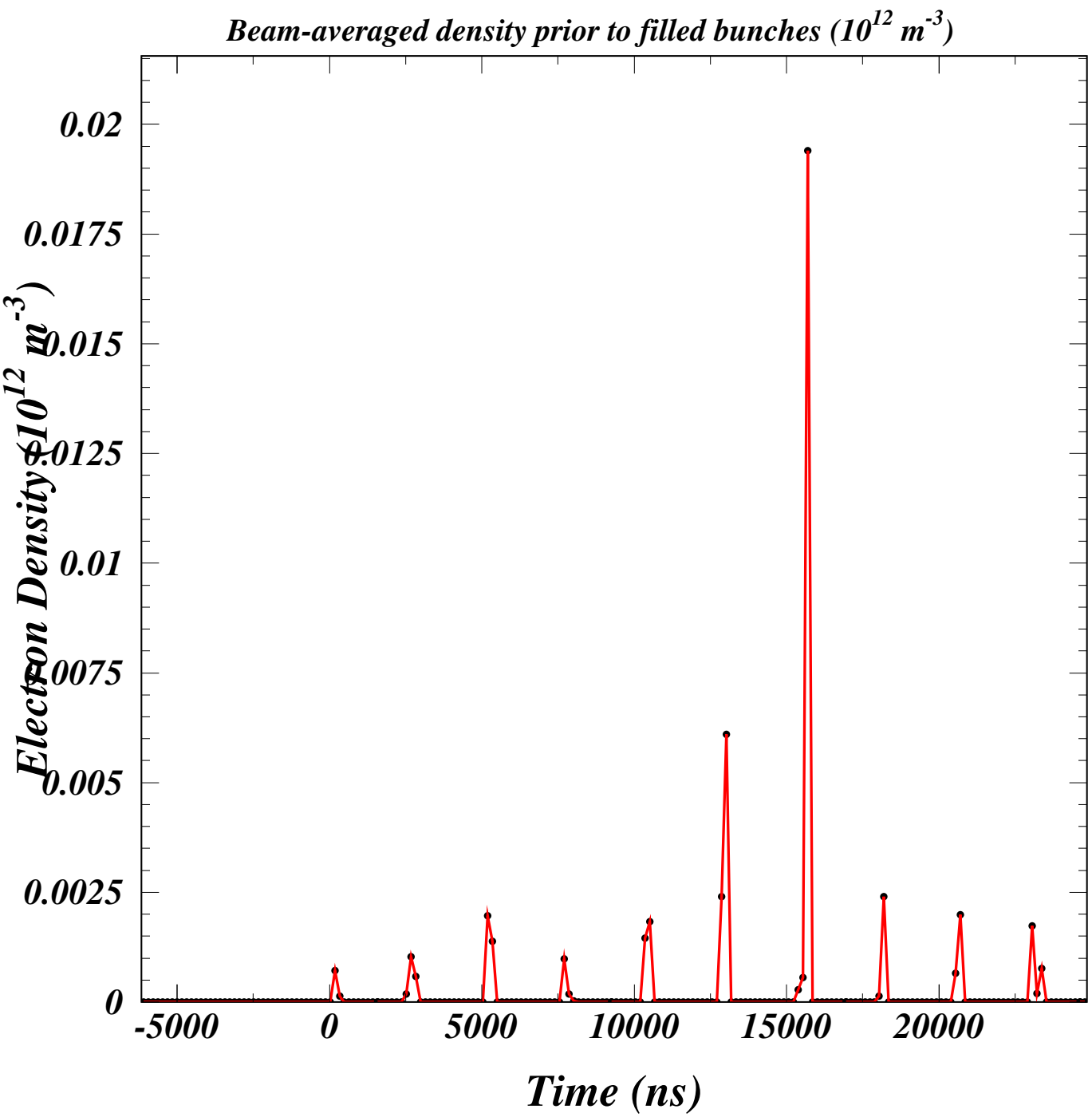
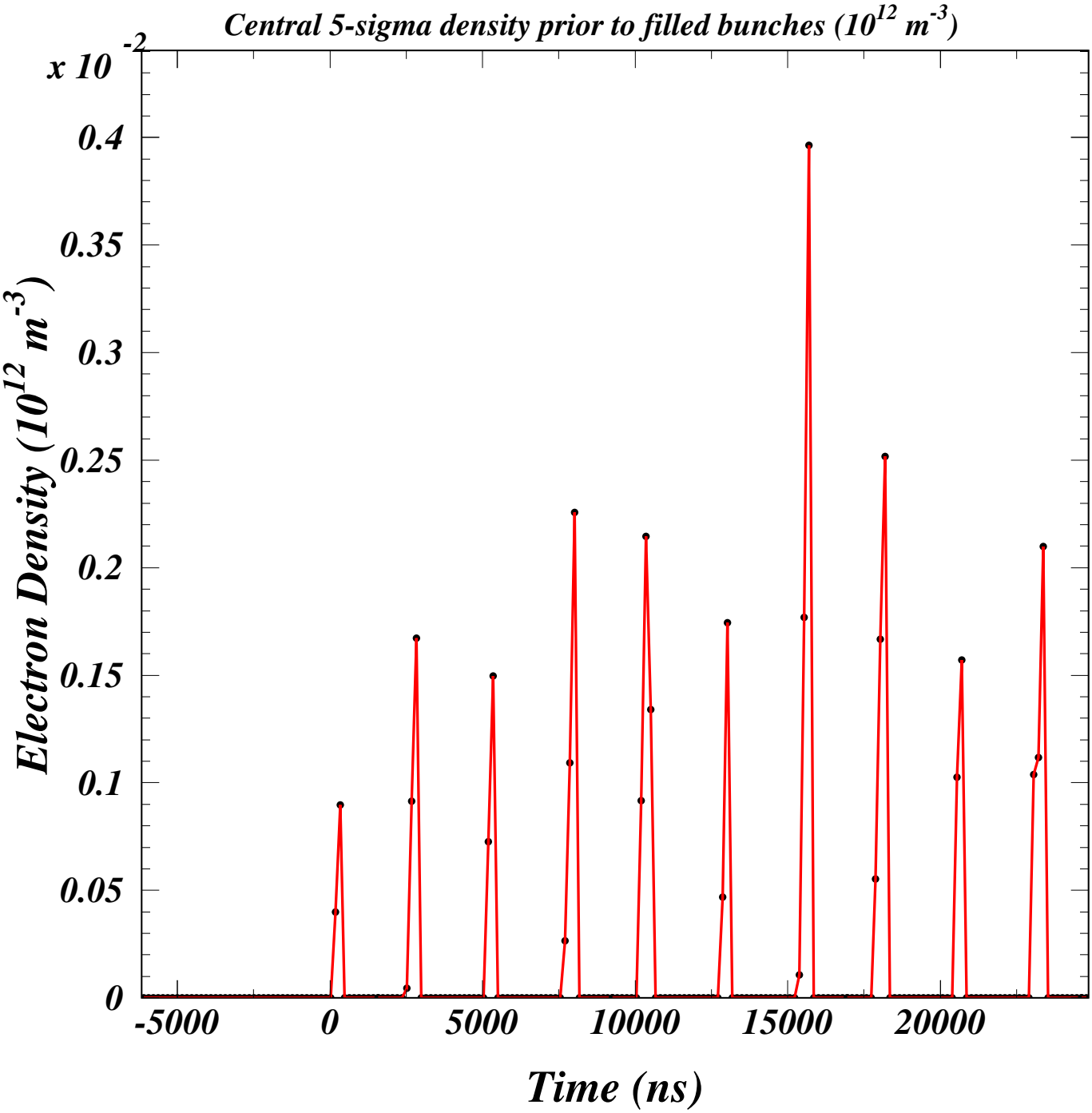
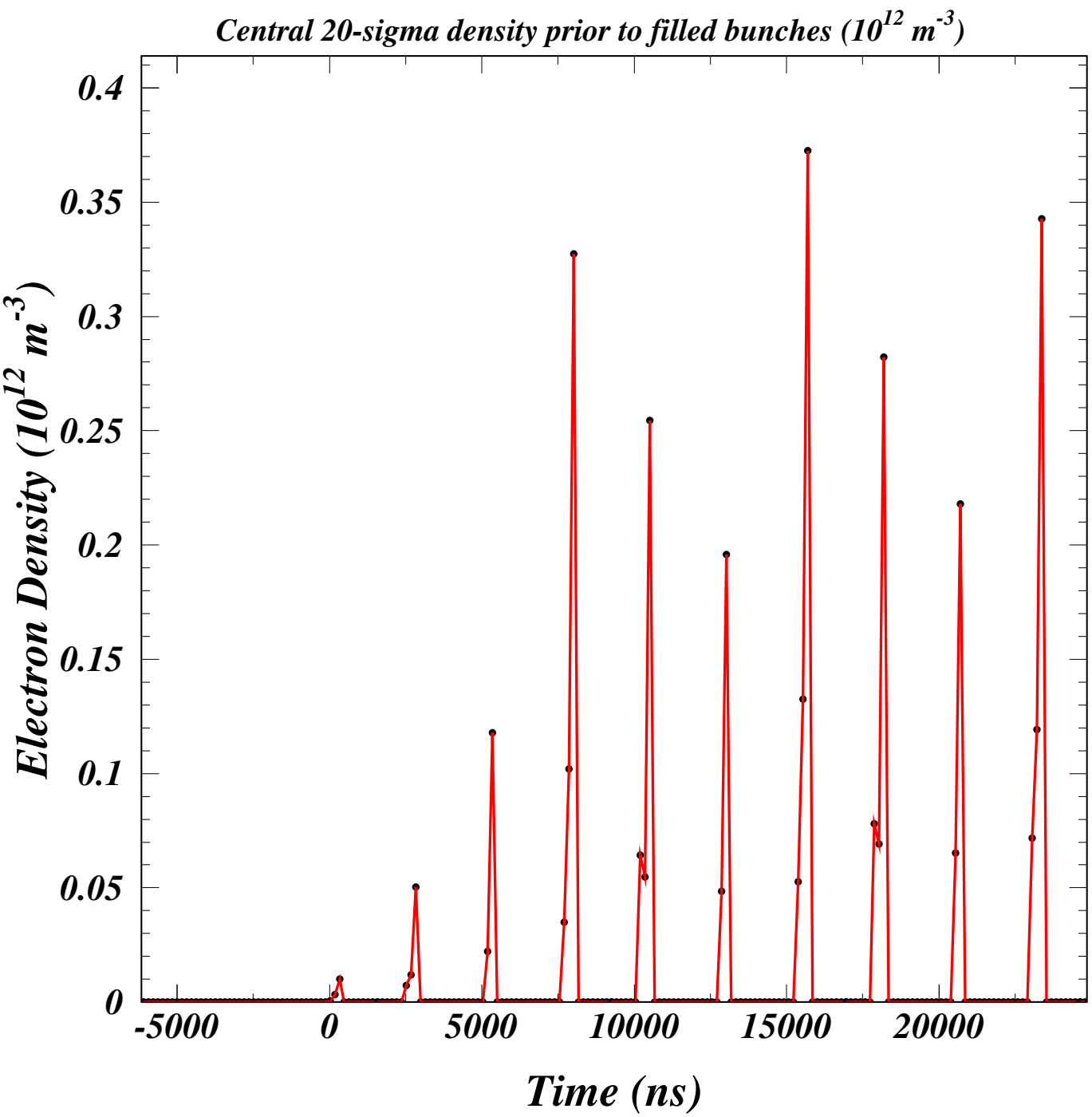

Job 38433: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-5000
0
5000
10000
15000
20000
25000
Time (ns)


Macroparticle Statistics
Number of Macroparticles (10^3)
300
250
200
150
100
50
0
0
5000
10000
15000
20000
Time (ns)

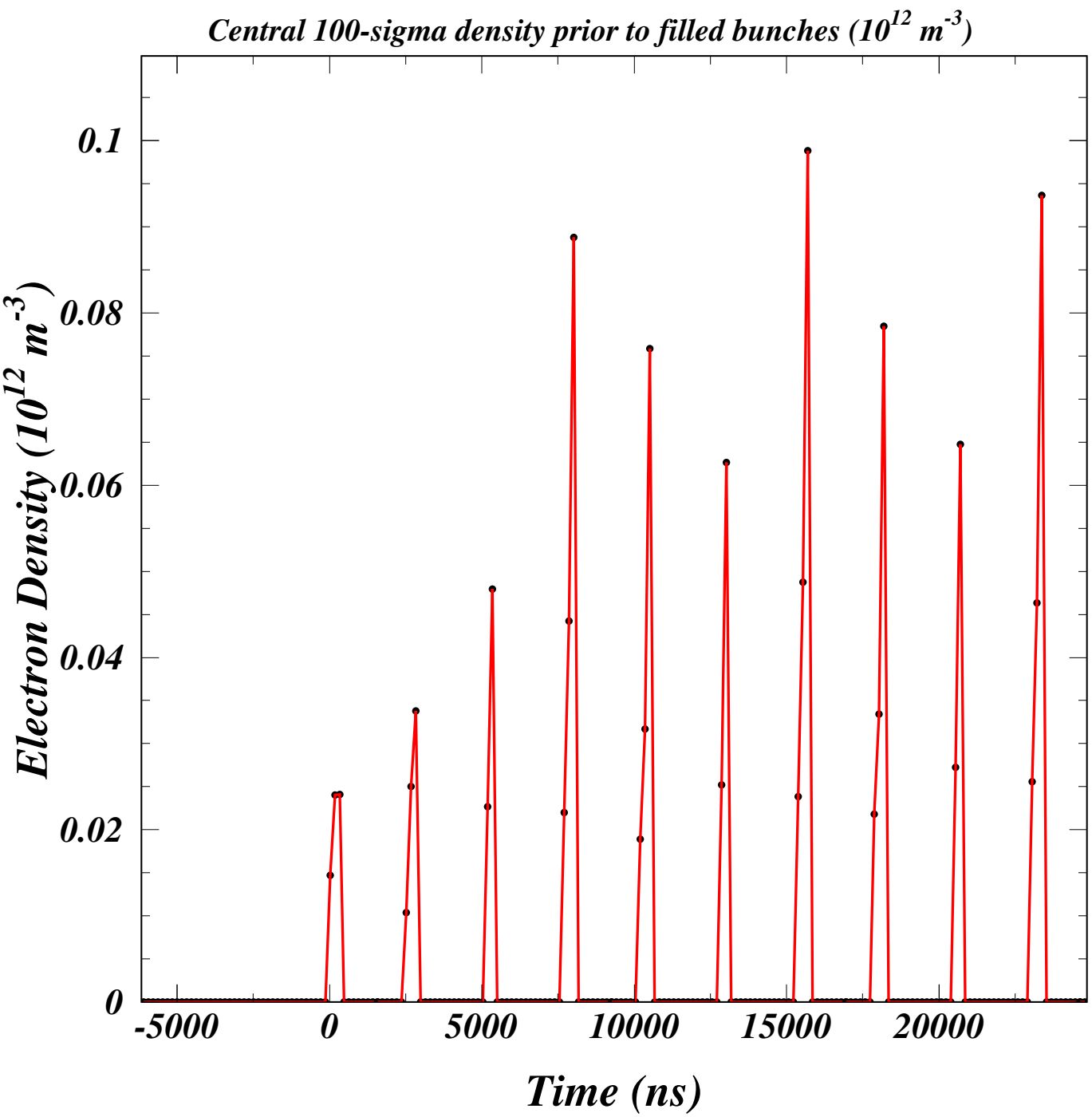

Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-5000
0
5000
10000
15000
20000
Time (ns)


Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
x 10^{-2}
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Electron Density (10^{12} m^{-3})
-5000
0
5000
10000
15000
20000
Time (ns)

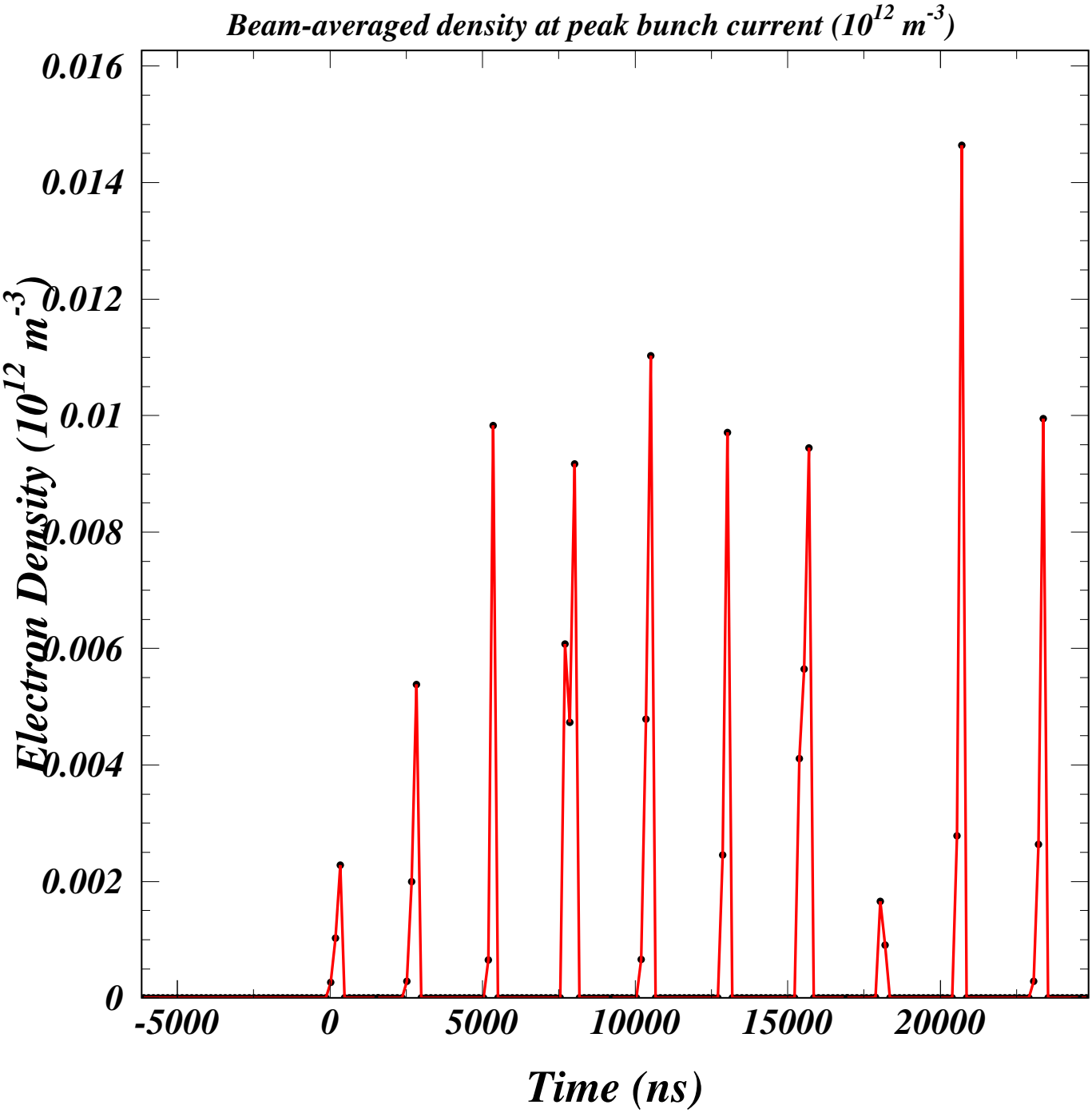
14/08/19 15.47


Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-5000
0
5000
10000
15000
20000
Time (ns)

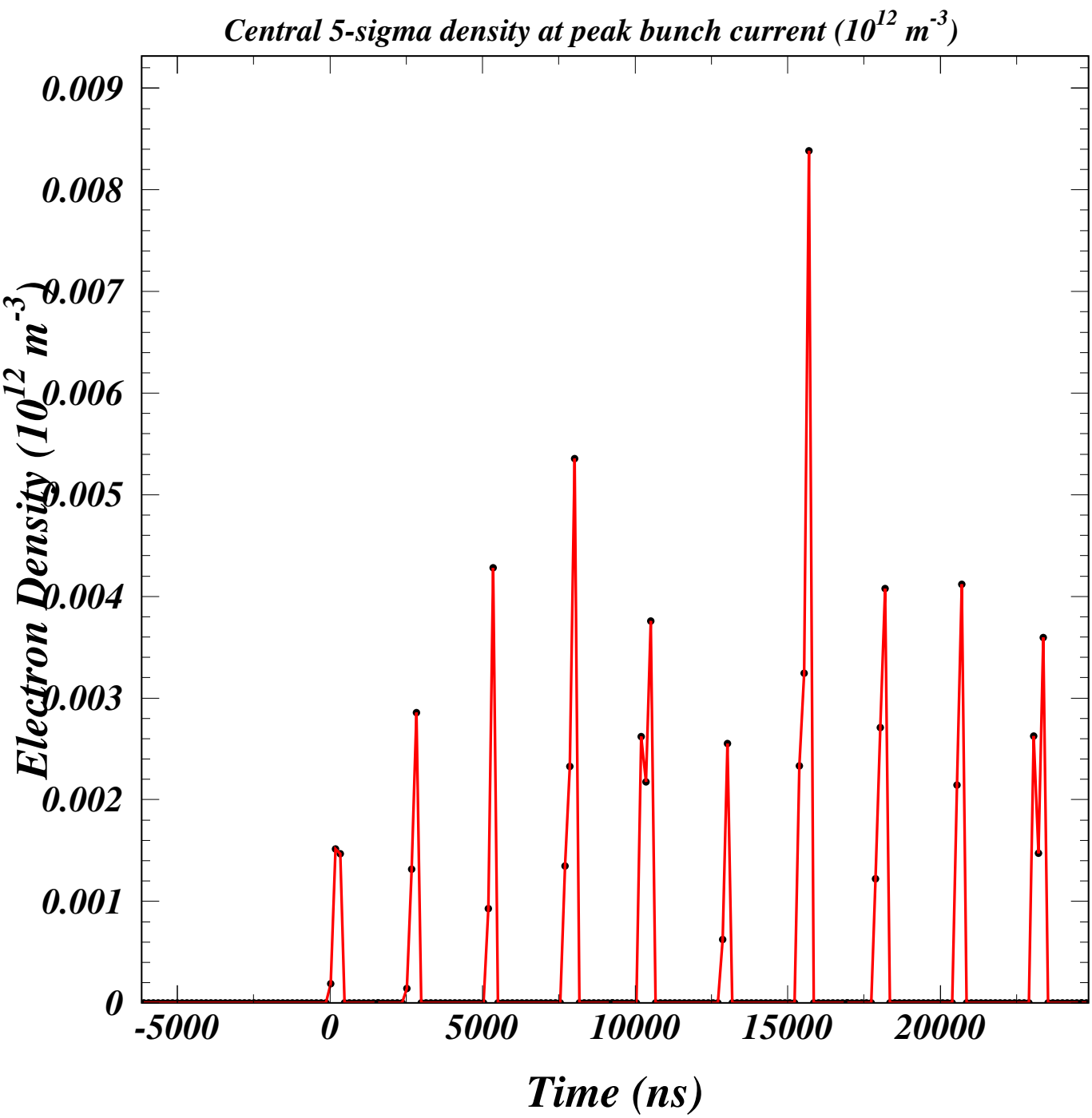
14/08/19 15.47


Central 100-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
-5000
0
5000
10000
15000
20000
Time (ns)

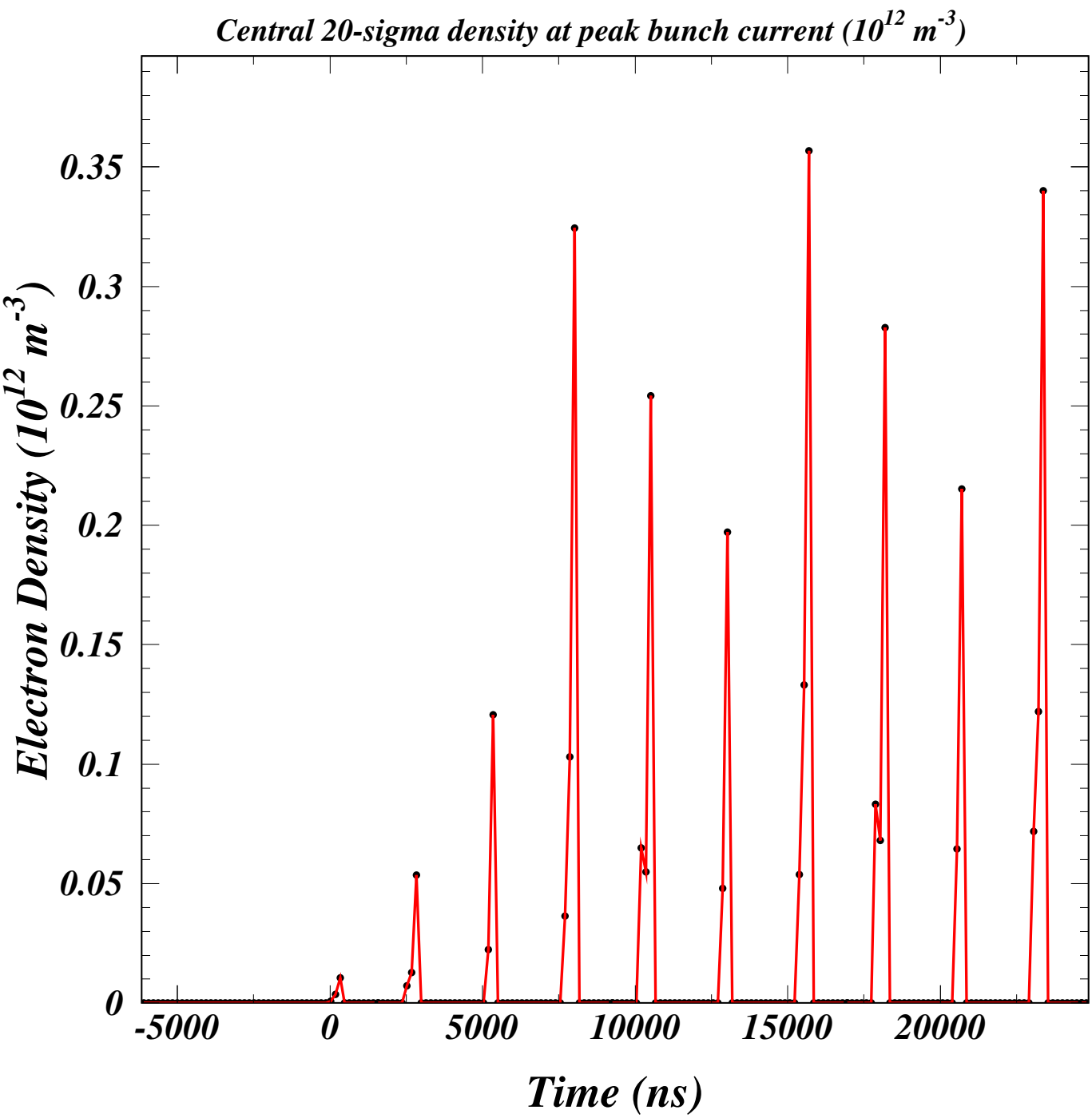
14/08/19 15.47


Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
-5000
0
5000
10000
15000
20000
Time (ns)

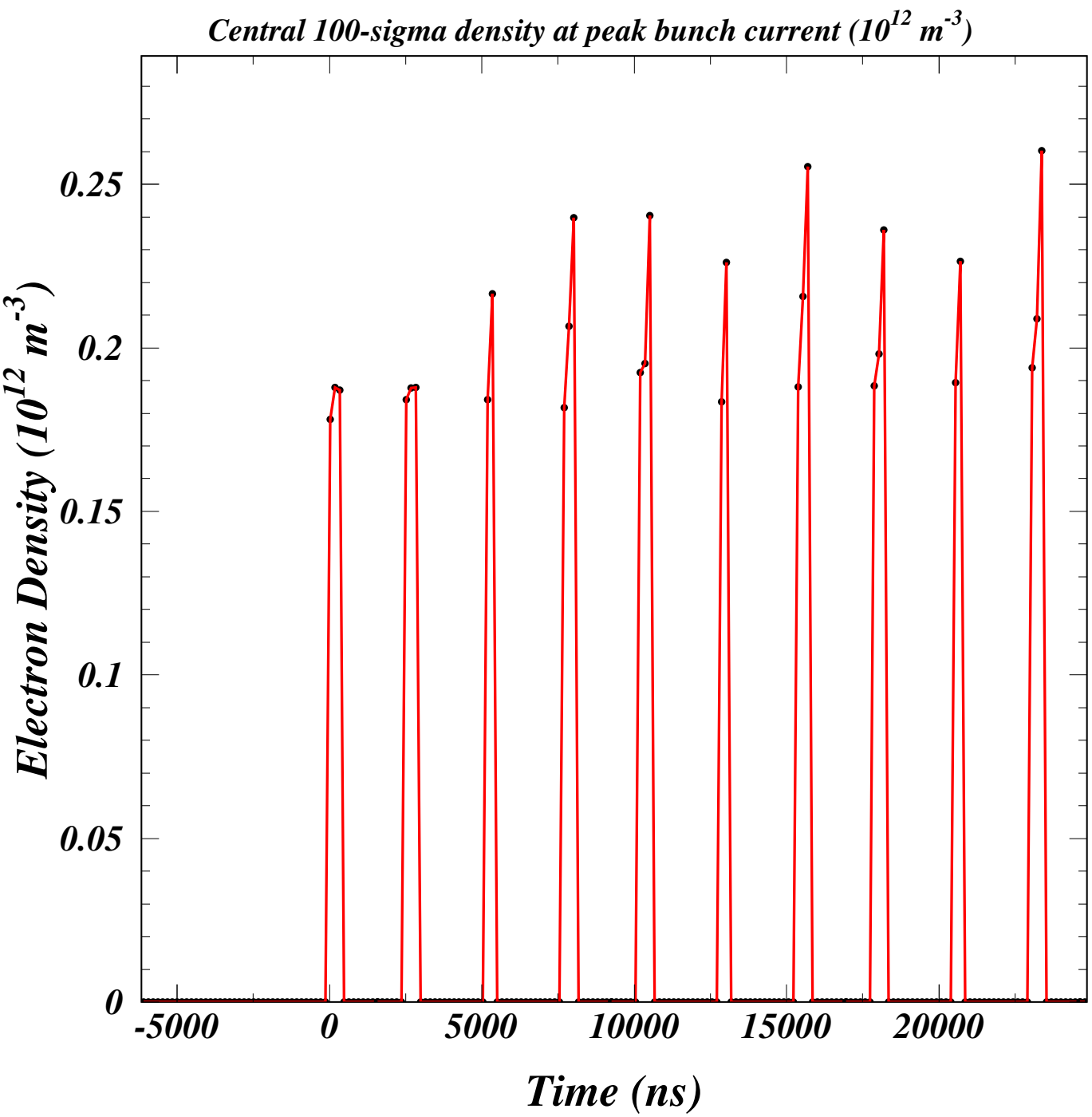
14/08/19 15.47


Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
-5000
0
5000
10000
15000
20000
Time (ns)

14/08/19 15.47


Central 20-sigma 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
-5000
0
5000
10000
15000
20000
Time (ns)

14/08/19 15.47


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
-5000
0
5000
10000
15000
20000
Time (ns)