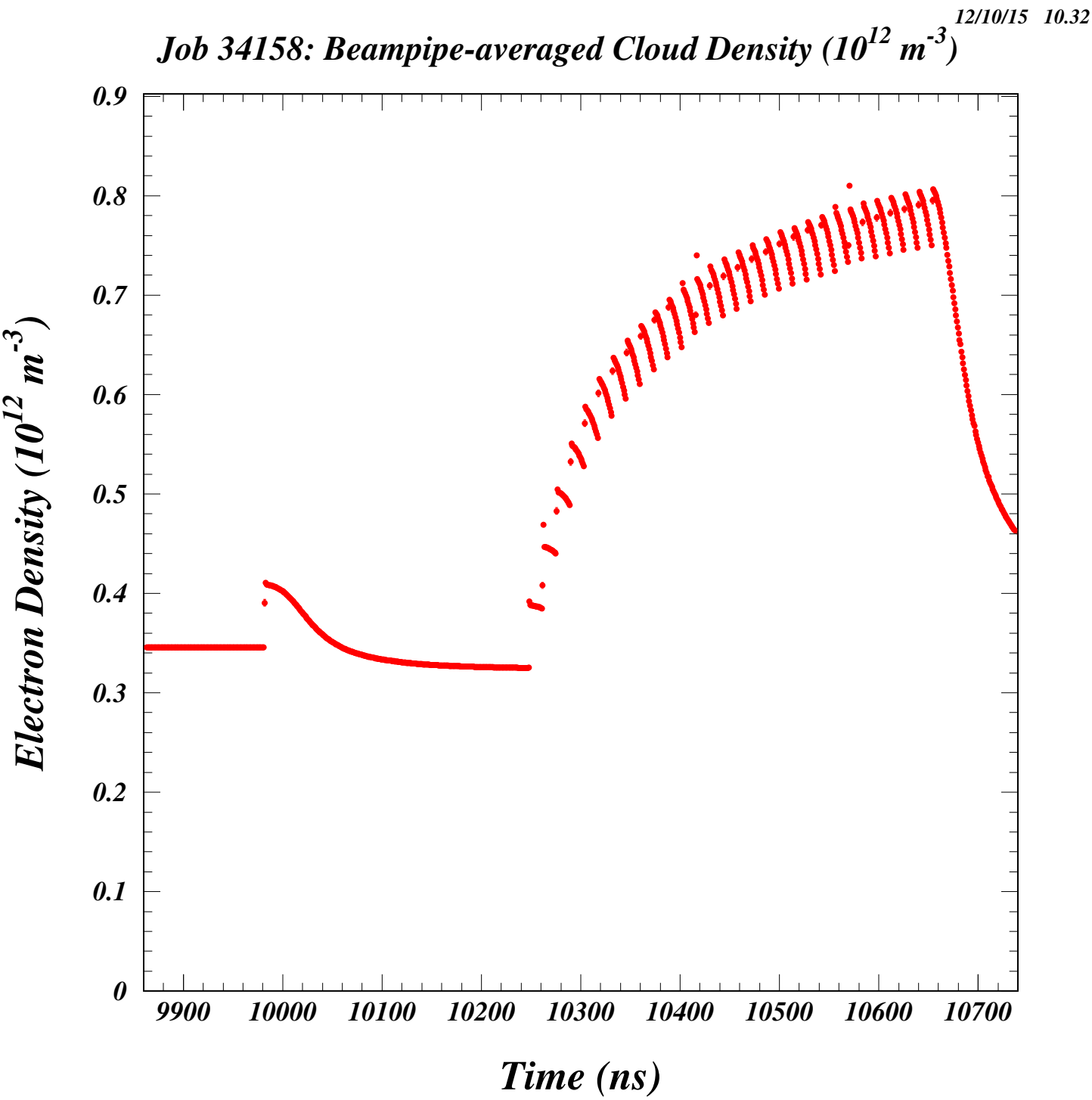
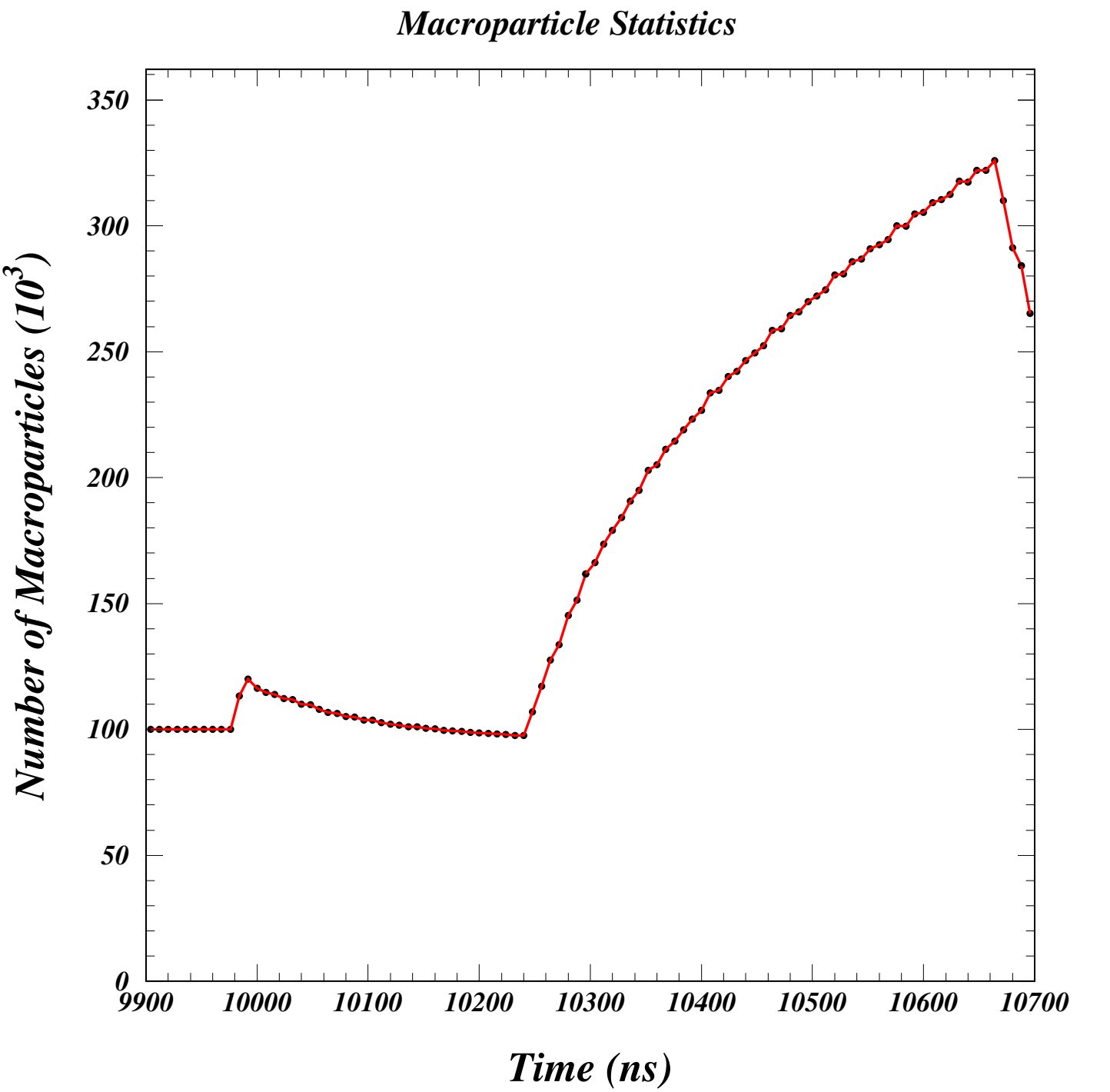
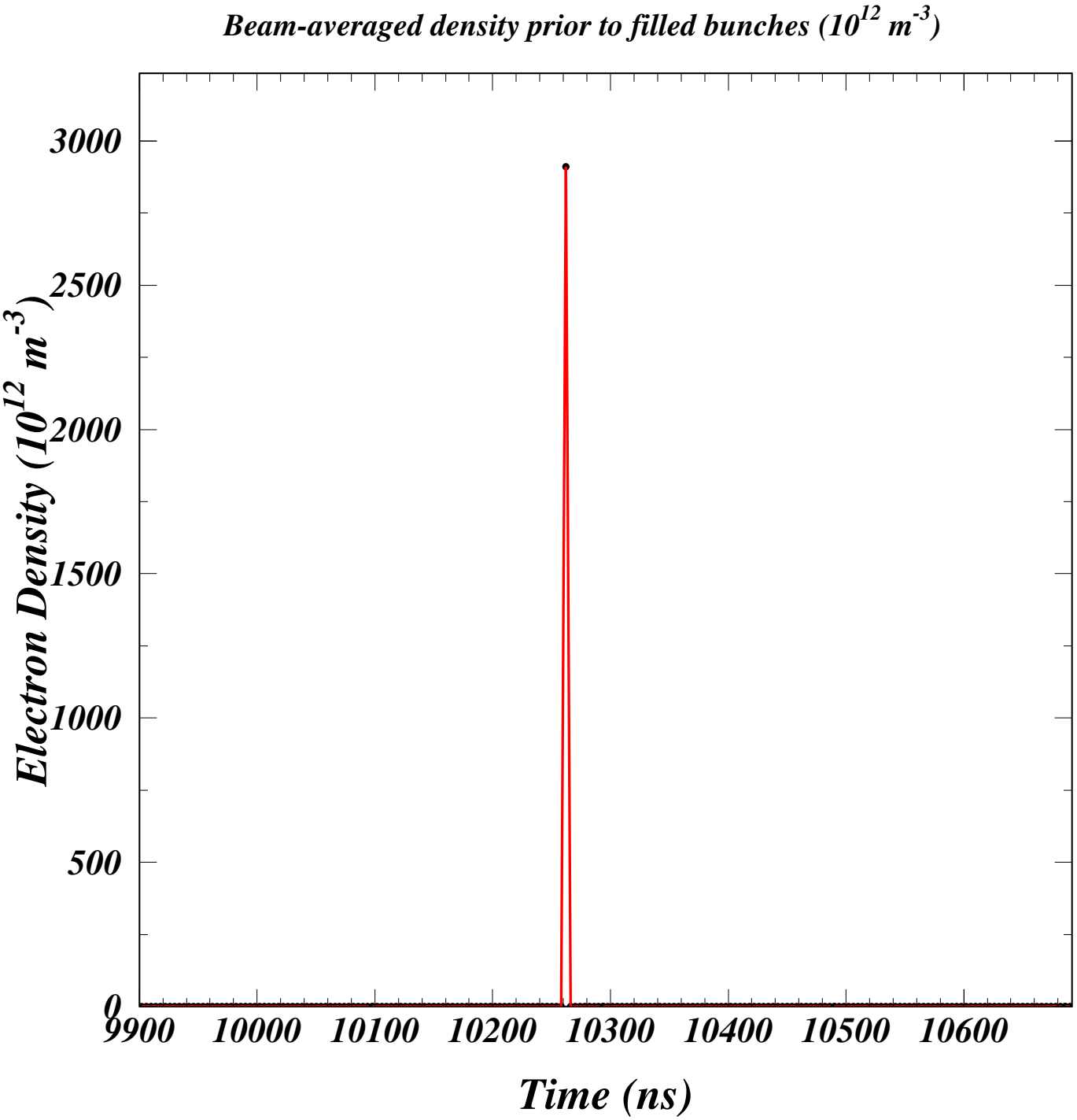

12/10/15 10.32
Job 34158: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
9900
10000
10100
10200
10300
10400
10500
10600
10700
Time (ns)

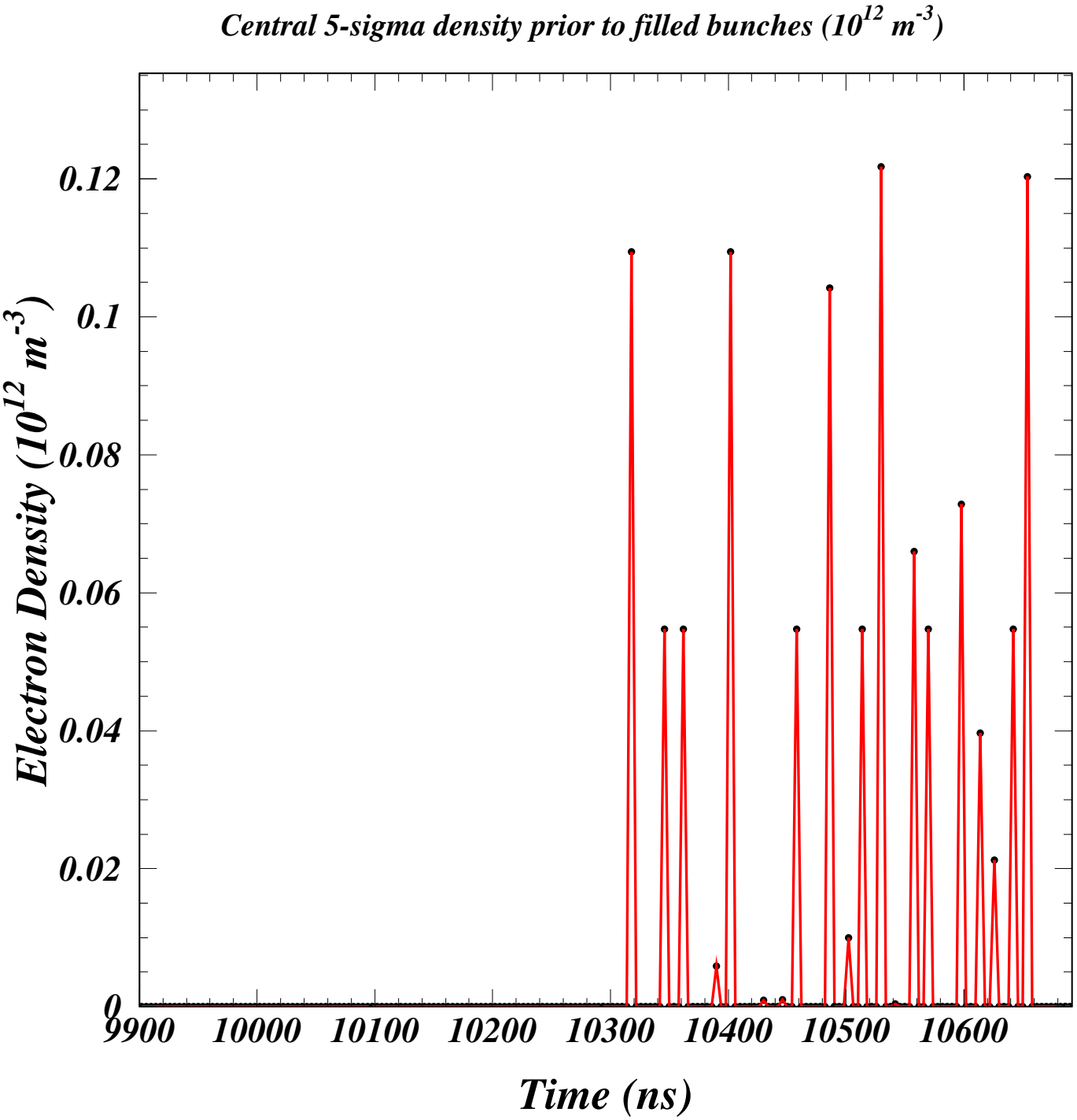
12/10/15 10.33

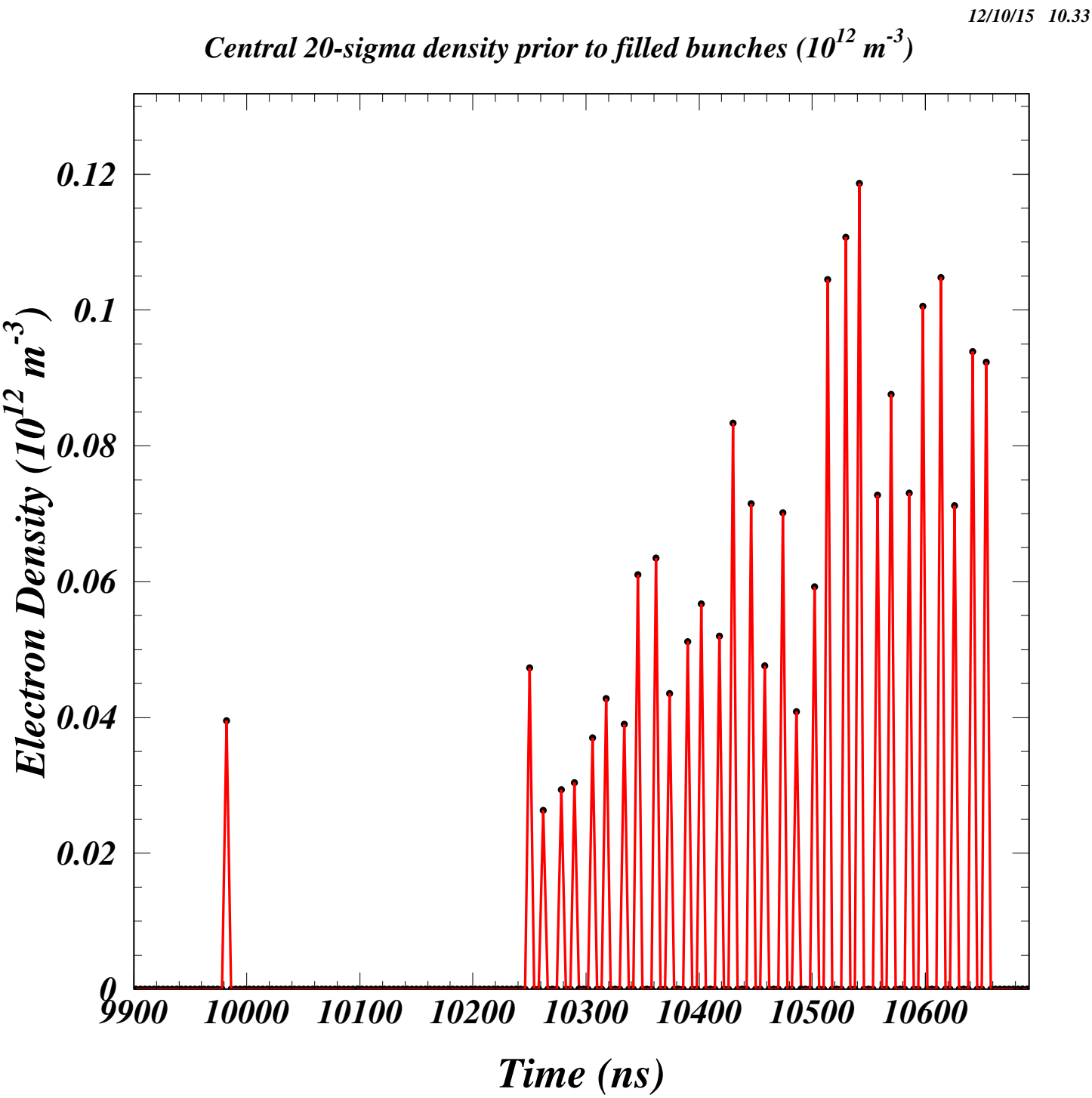

Macroparticle Statistics
Number of Macroparticles (10^3)
350
300
250
200
150
100
50
0
9900
10000
10100
10200
10300
10400
10500
10600
10700
Time (ns)

12/10/15 10.33

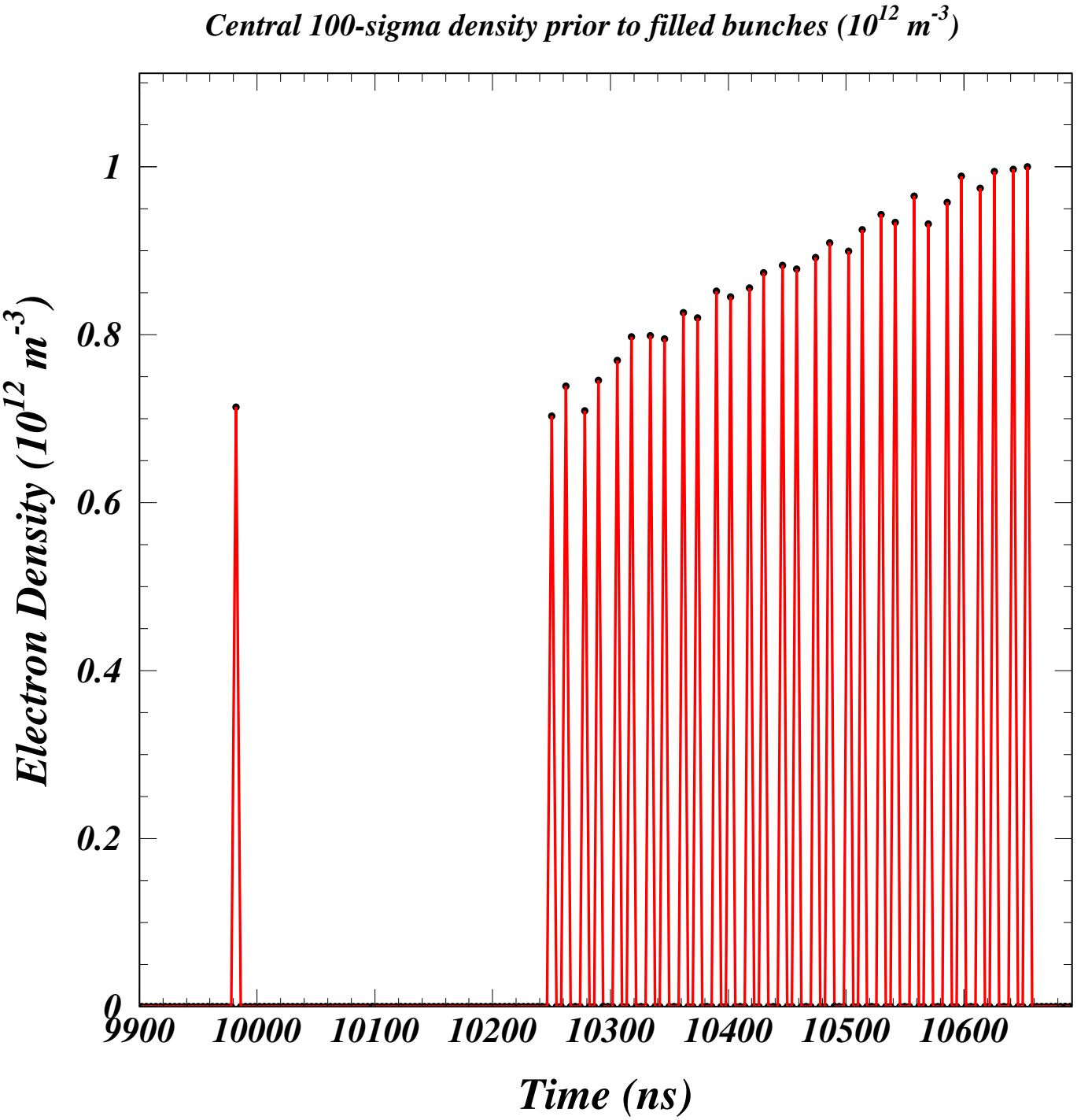

Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
3000
2500
2000
1500
1000
500
0
9900
10000
10100
10200
10300
10400
10500
10600
Time (ns)

12/10/15 10.33

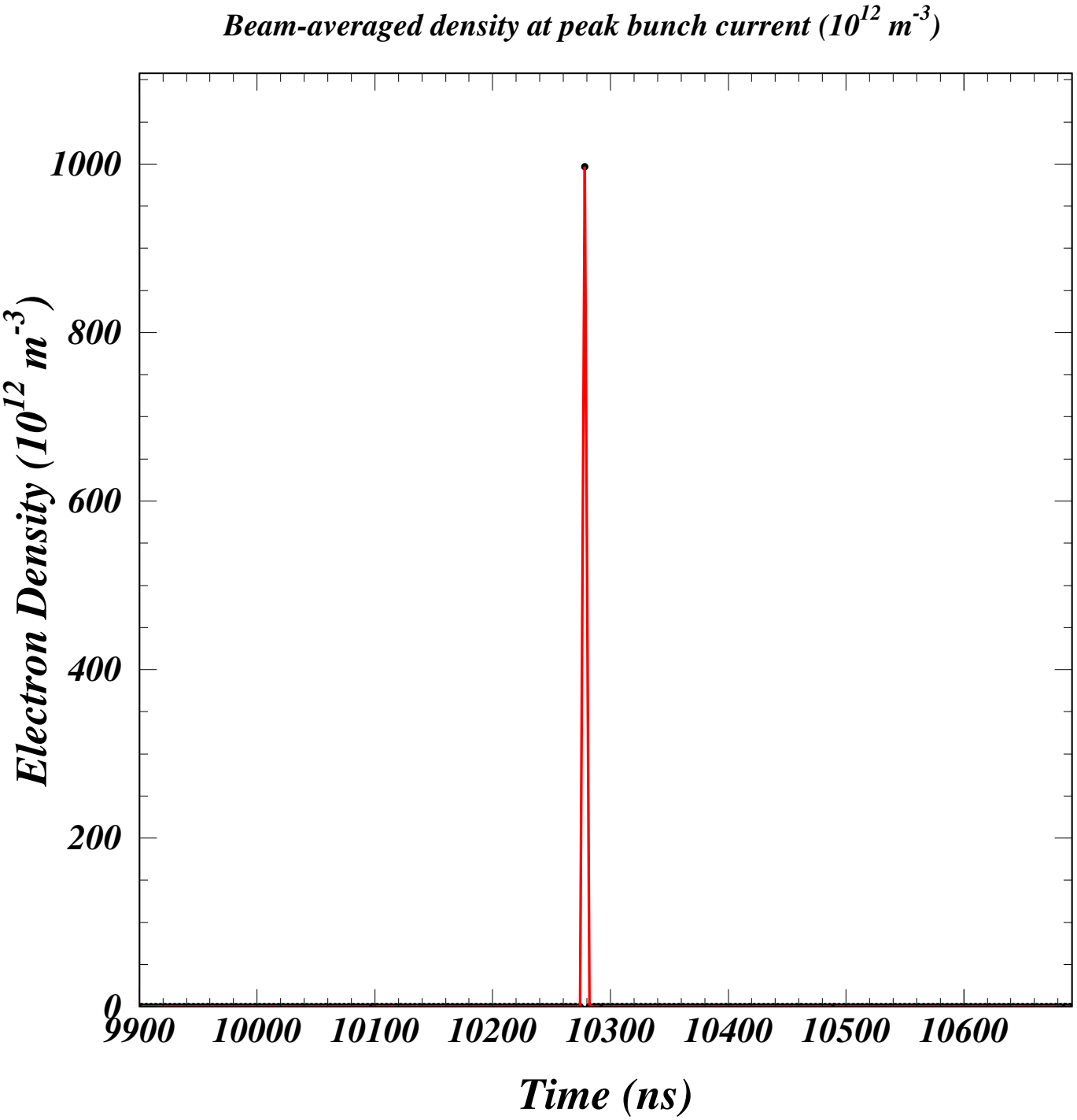

Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.12
0.1
0.08
0.06
0.04
0.02
0
9900
10000
10100
10200
10300
10400
10500
10600
Time (ns)


12/10/15 10.33
Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.02
0.04
0.06
0.08
0.1
0.12
9900
10000
10100
10200
10300
10400
10500
10600
Time (ns)

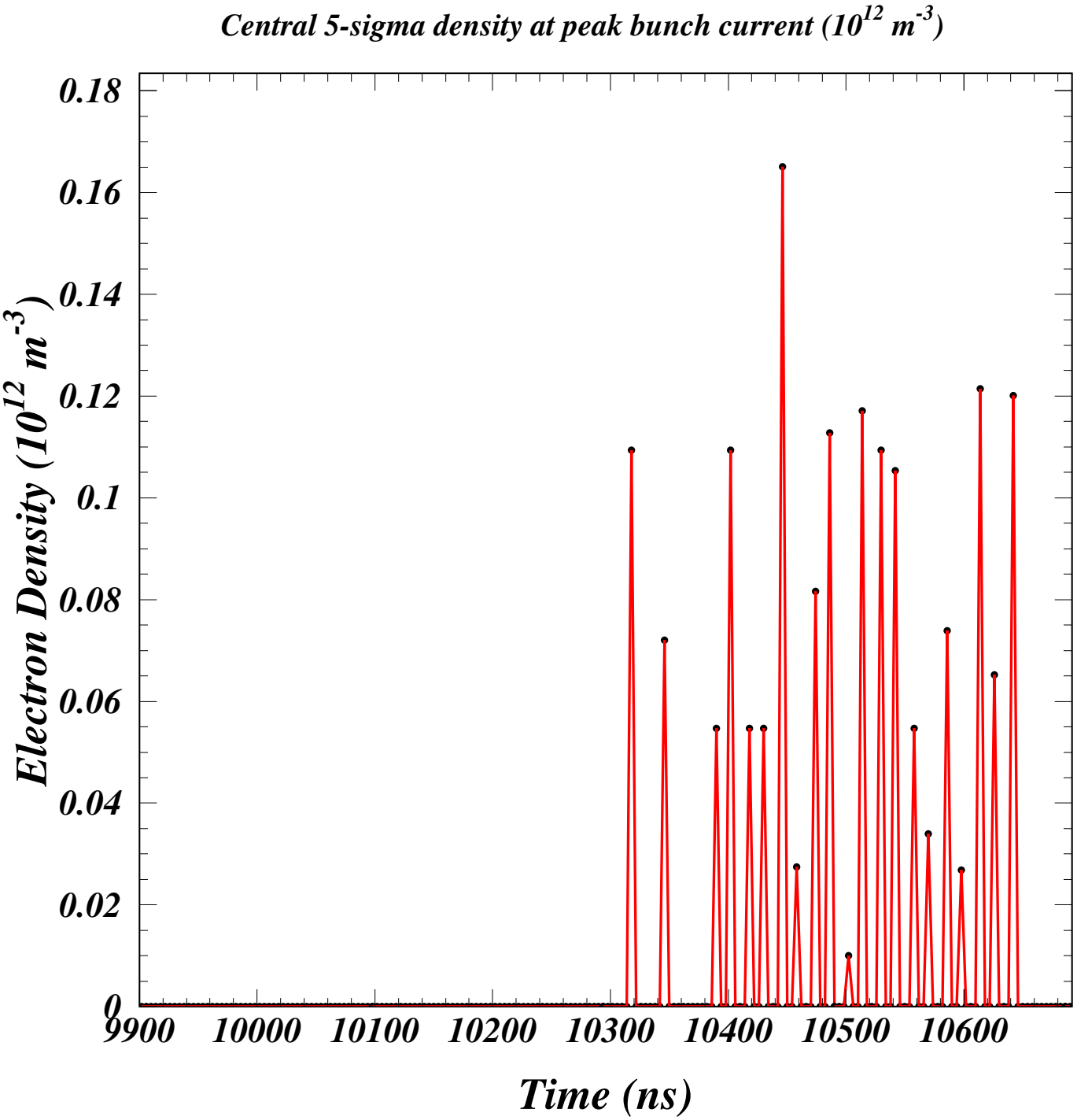
12/10/15 10.33


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
9900
10000
10100
10200
10300
10400
10500
10600
Time (ns)

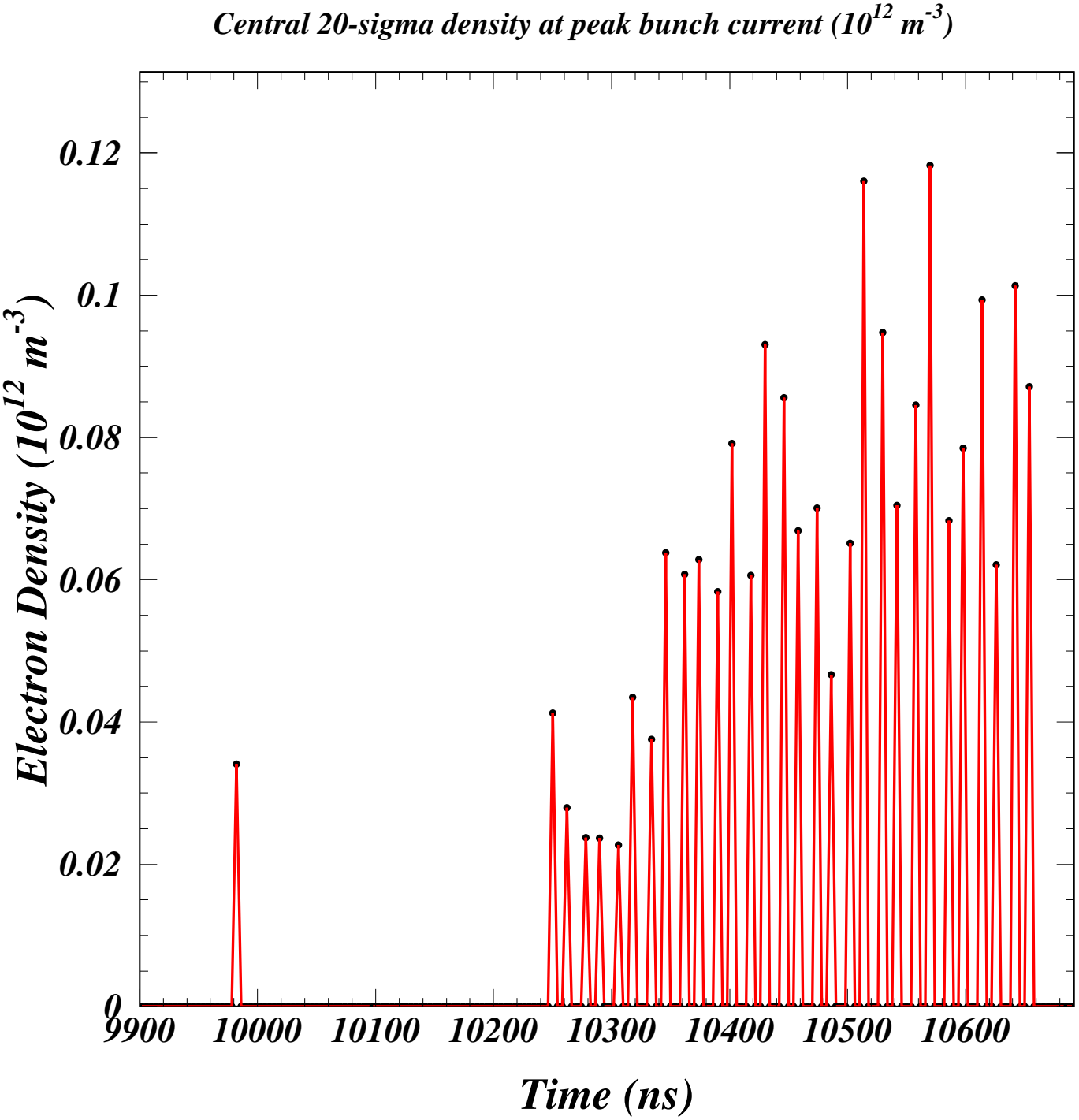
12/10/15 10.33


Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
1000
800
600
400
200
0
9900
10000
10100
10200
10300
10400
10500
10600
Time (ns)

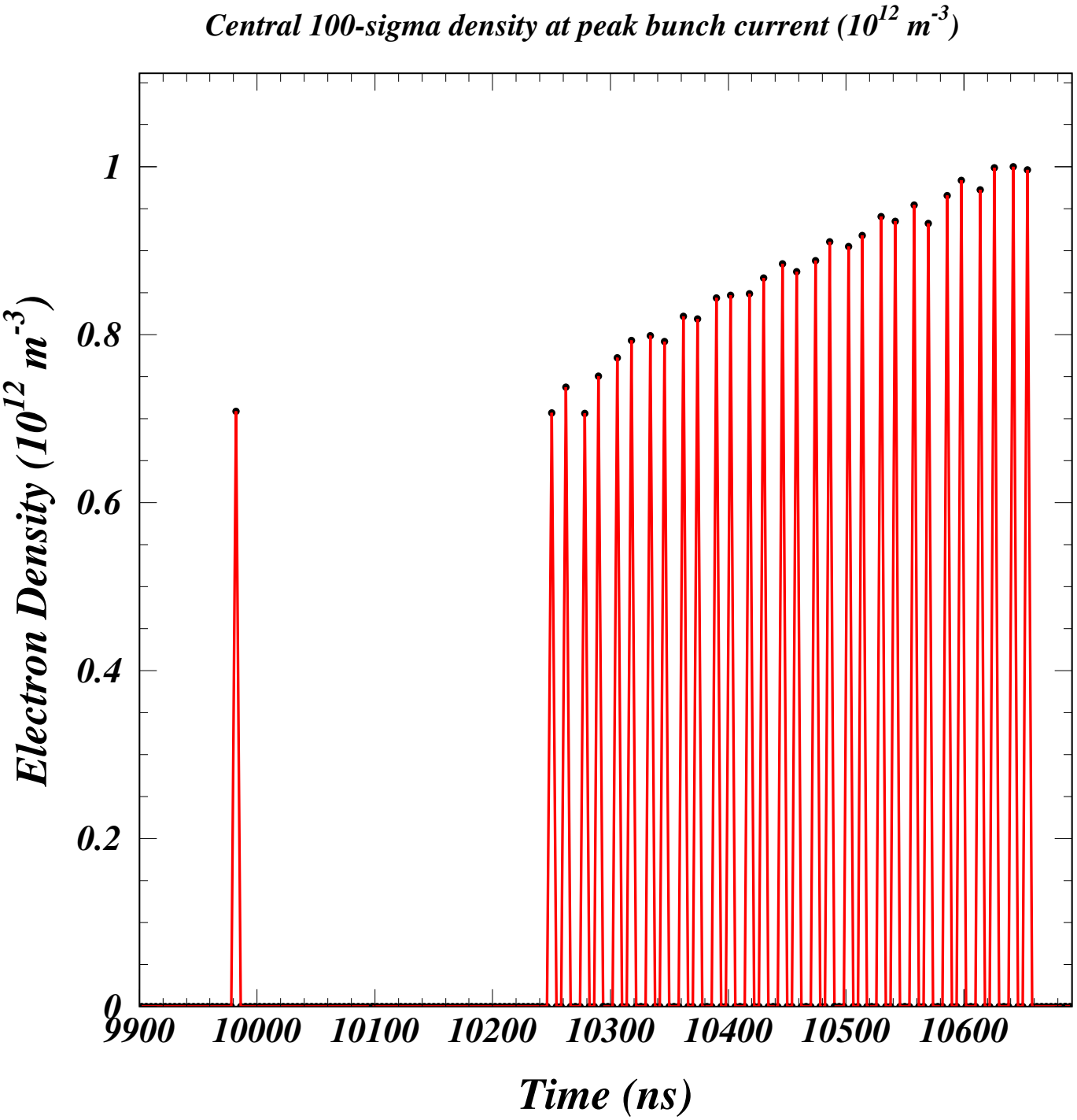
12/10/15 10.33


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
9900
10000
10100
10200
10300
10400
10500
10600
Time (ns)

12/10/15 10.33


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
9900
10000
10100
10200
10300
10400
10500
10600
Time (ns)

12/10/15 10.33


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
9900
10000
10100
10200
10300
10400
10500
10600
Time (ns)