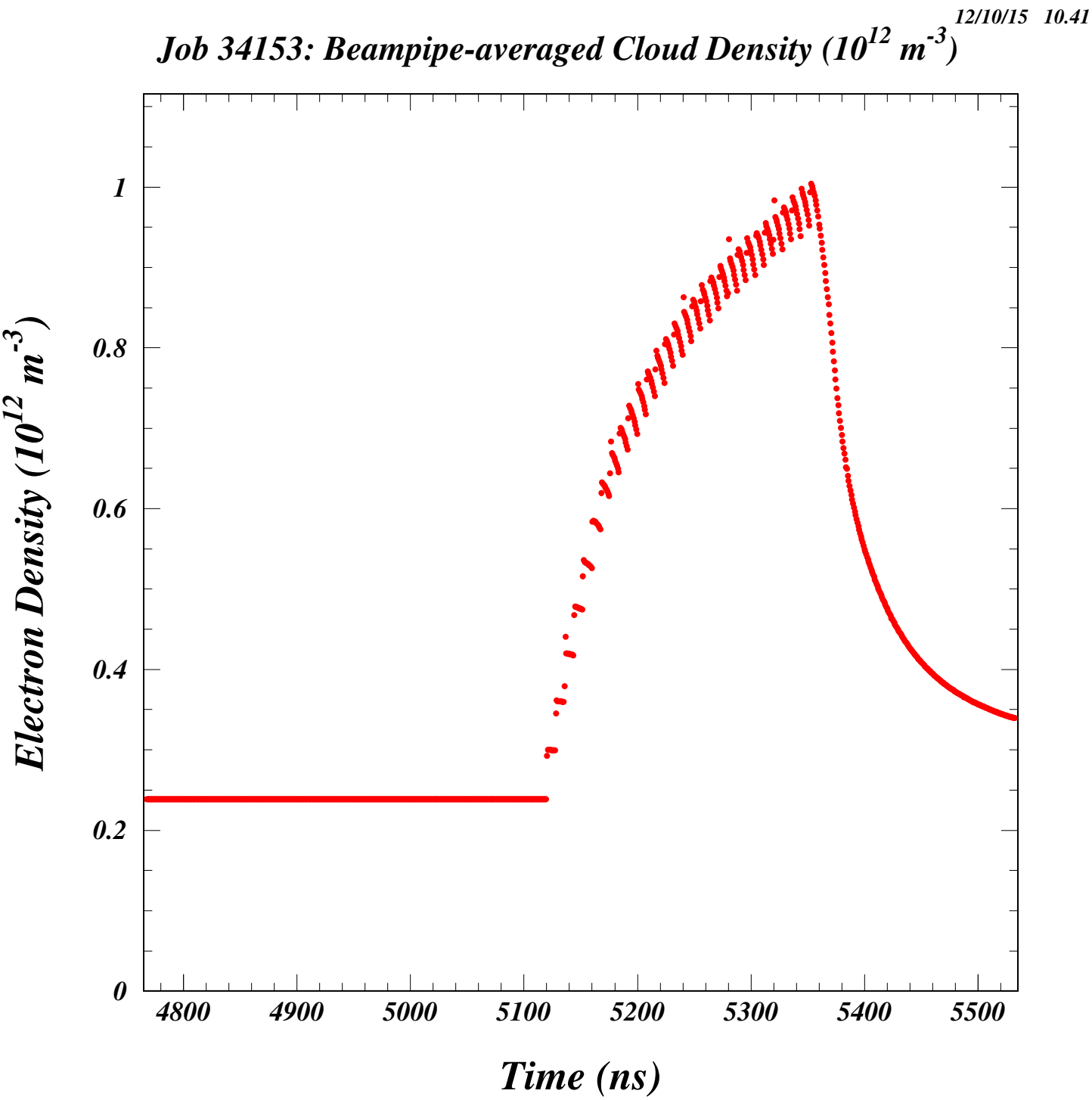
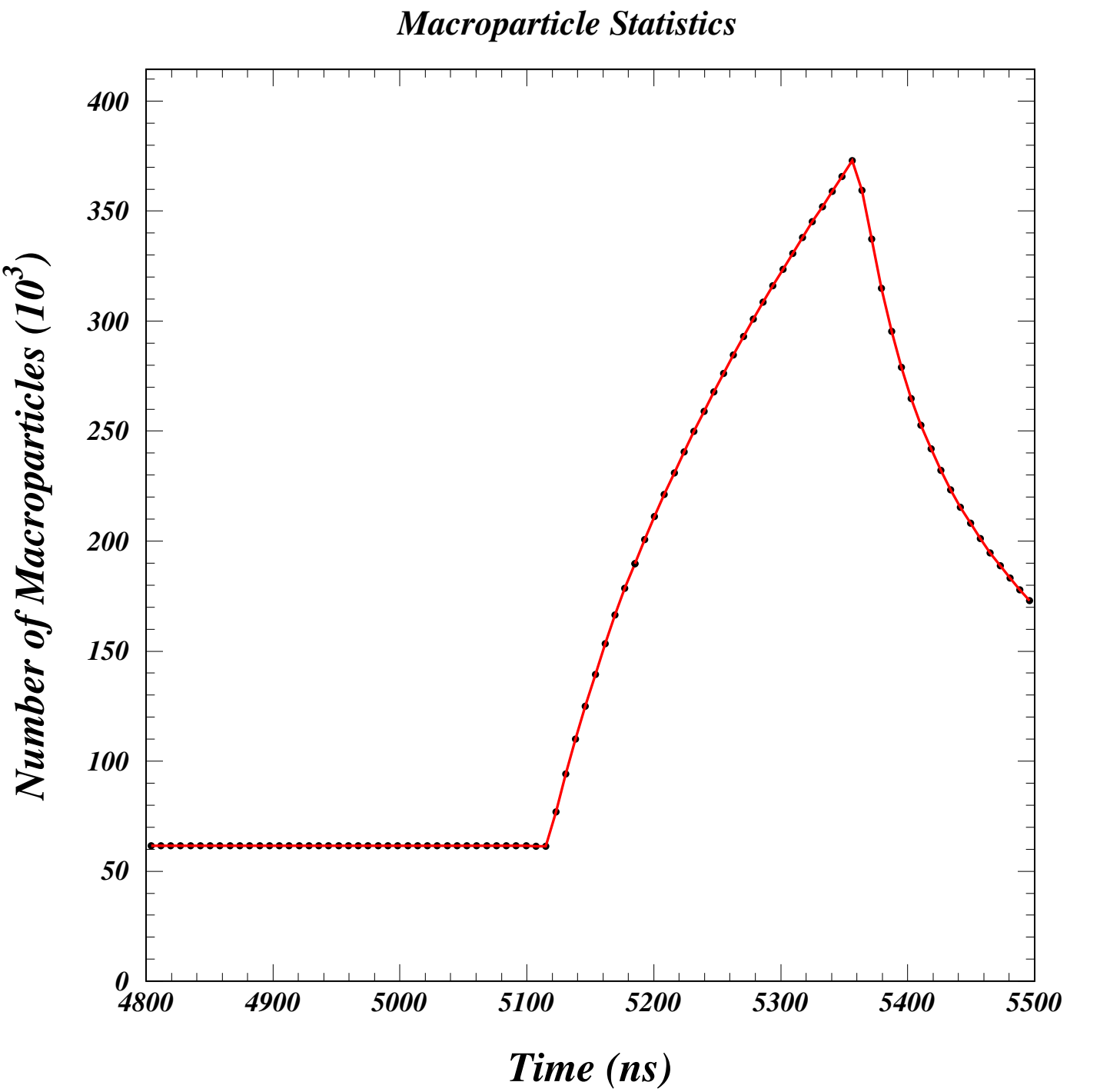
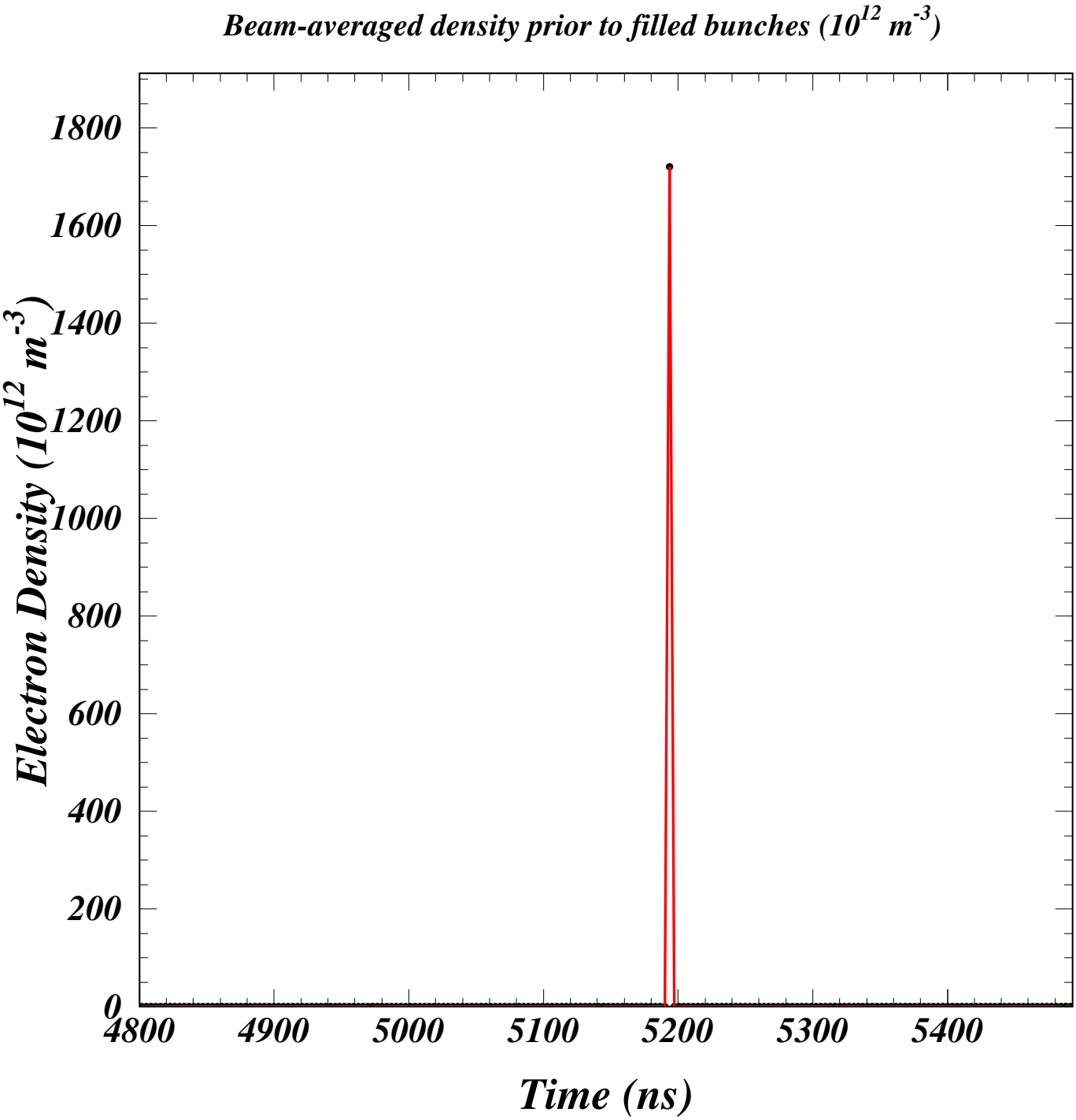

12/10/15 10.41
Job 34153: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
1
0.8
0.6
0.4
0.2
0
4800
4900
5000
5100
5200
5300
5400
5500
Time (ns)

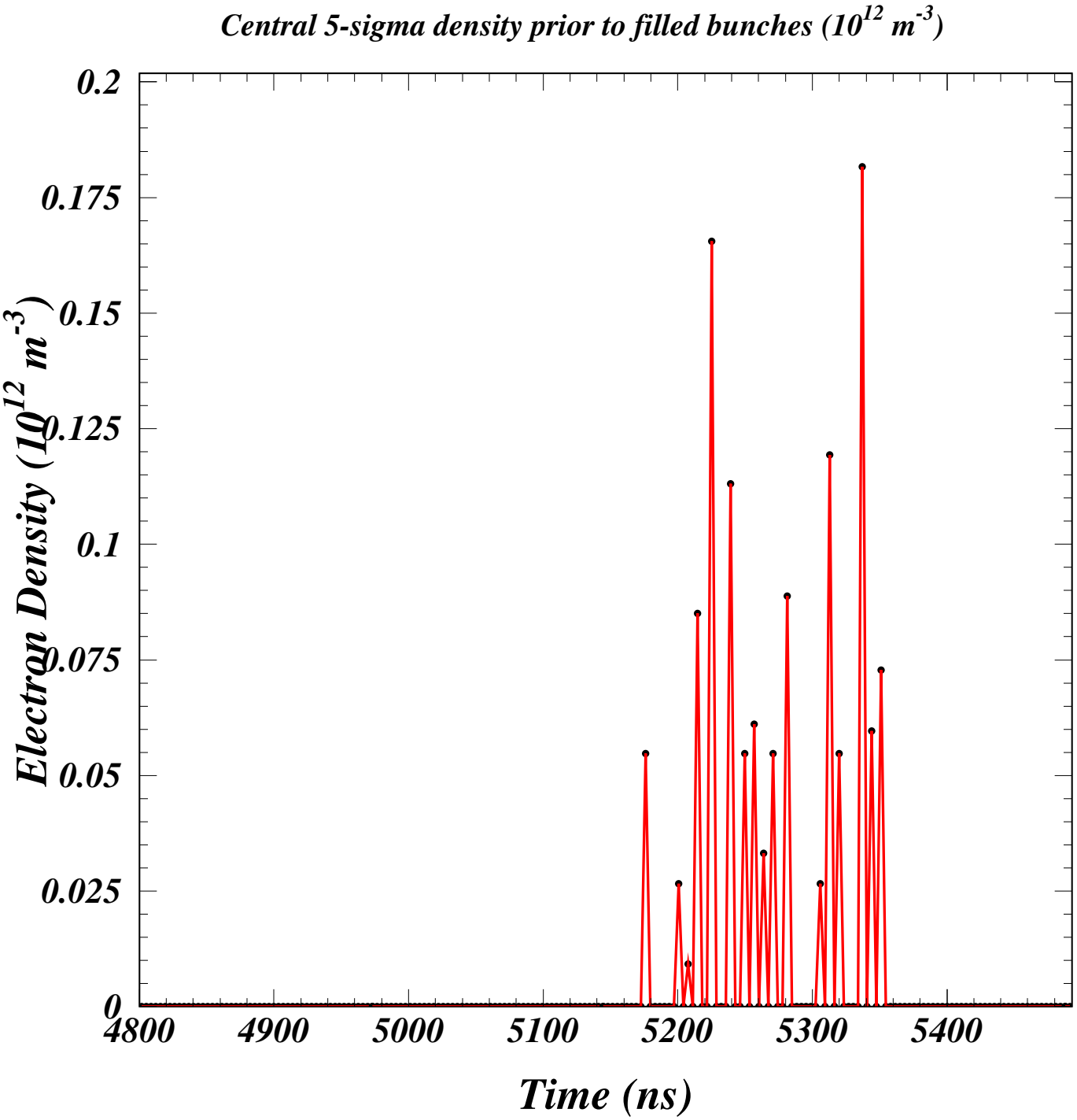
12/10/15 10.41


Macroparticle Statistics
Number of Macroparticles (10^3)
400
350
300
250
200
150
100
50
0
4800
4900
5000
5100
5200
5300
5400
5500
Time (ns)

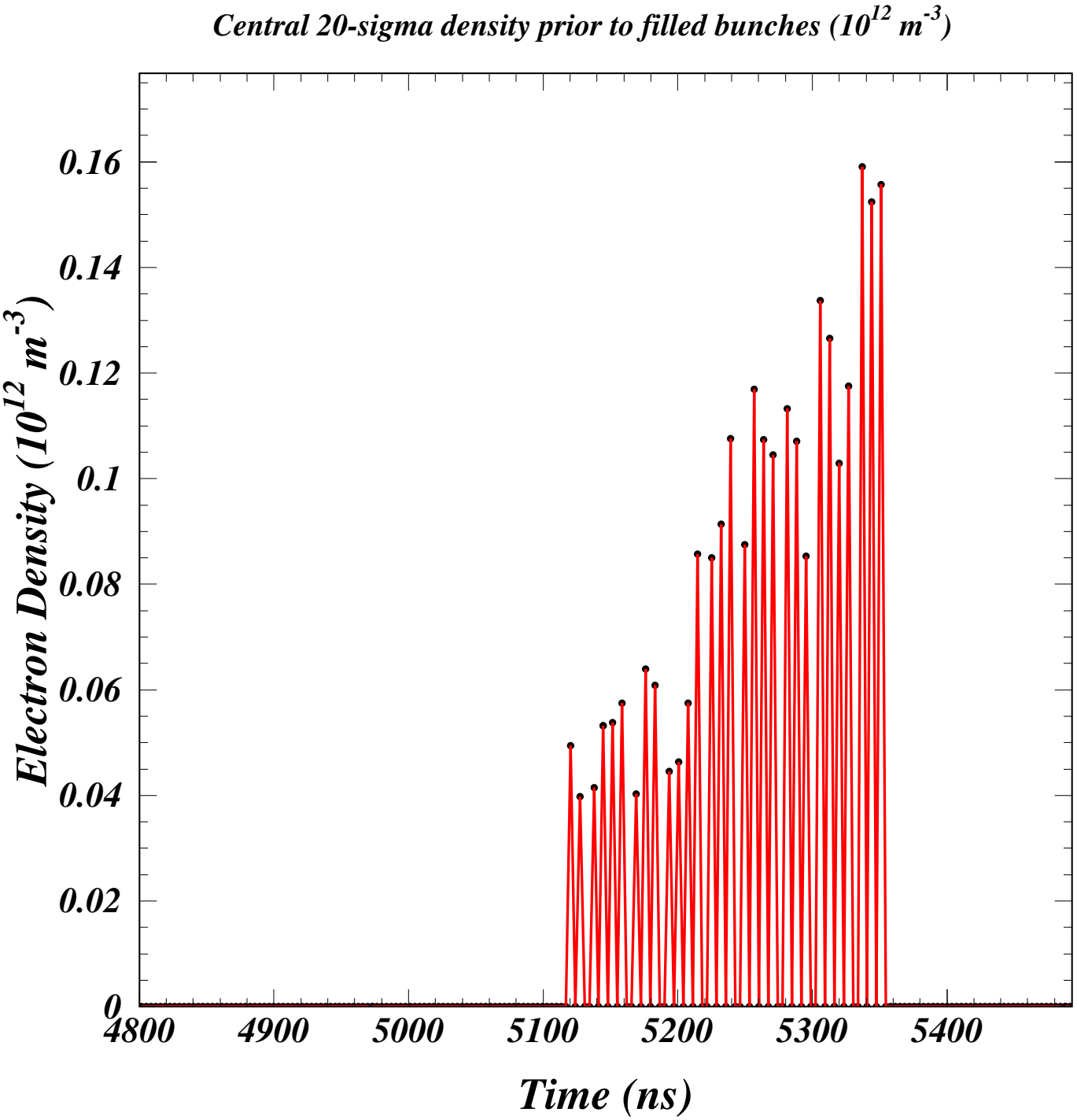
12/10/15 10.41

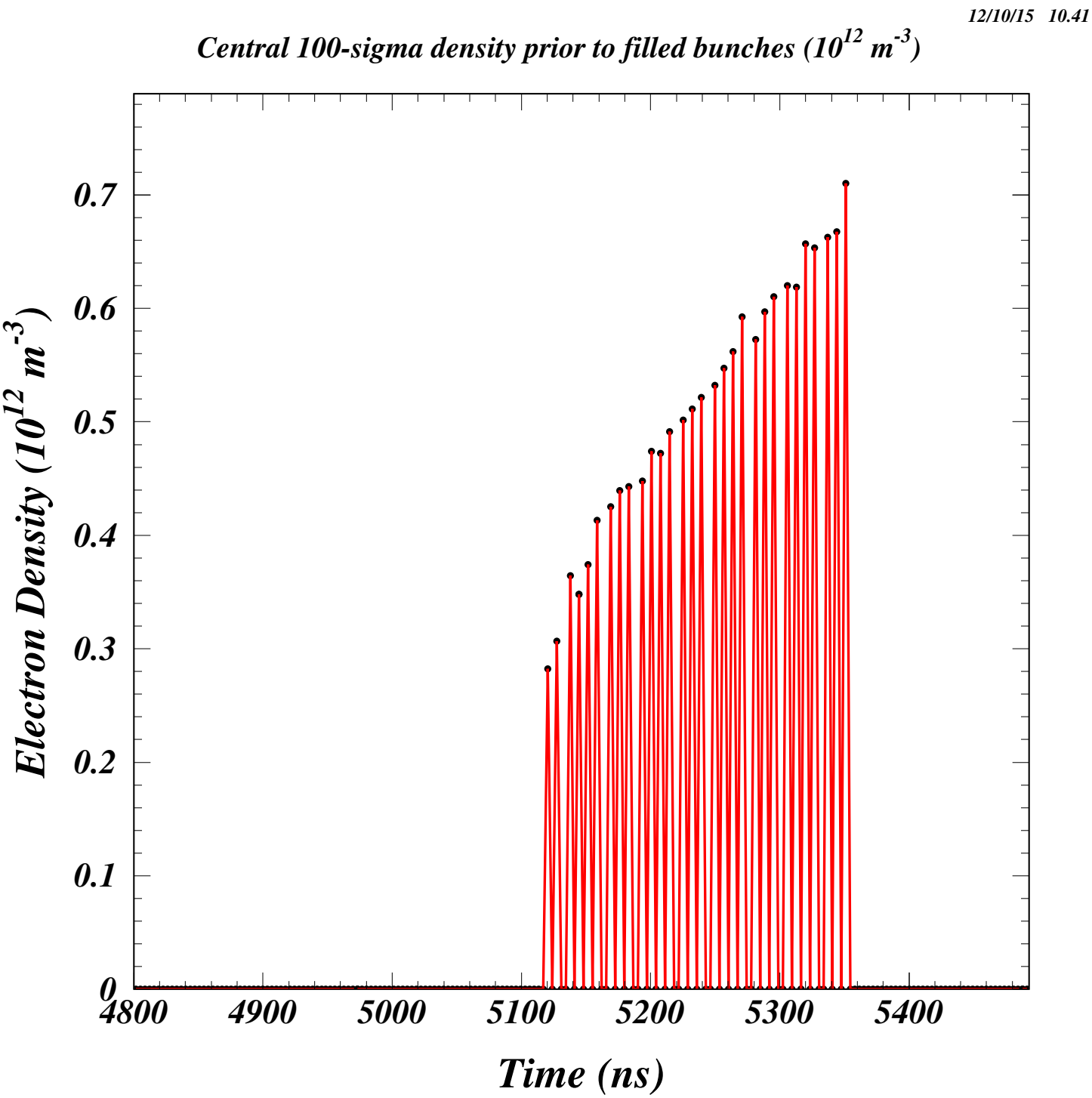

Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
200
400
600
800
1000
1200
1400
1600
1800
4800
4900
5000
5100
5200
5300
5400
Time (ns)

12/10/15 10.41

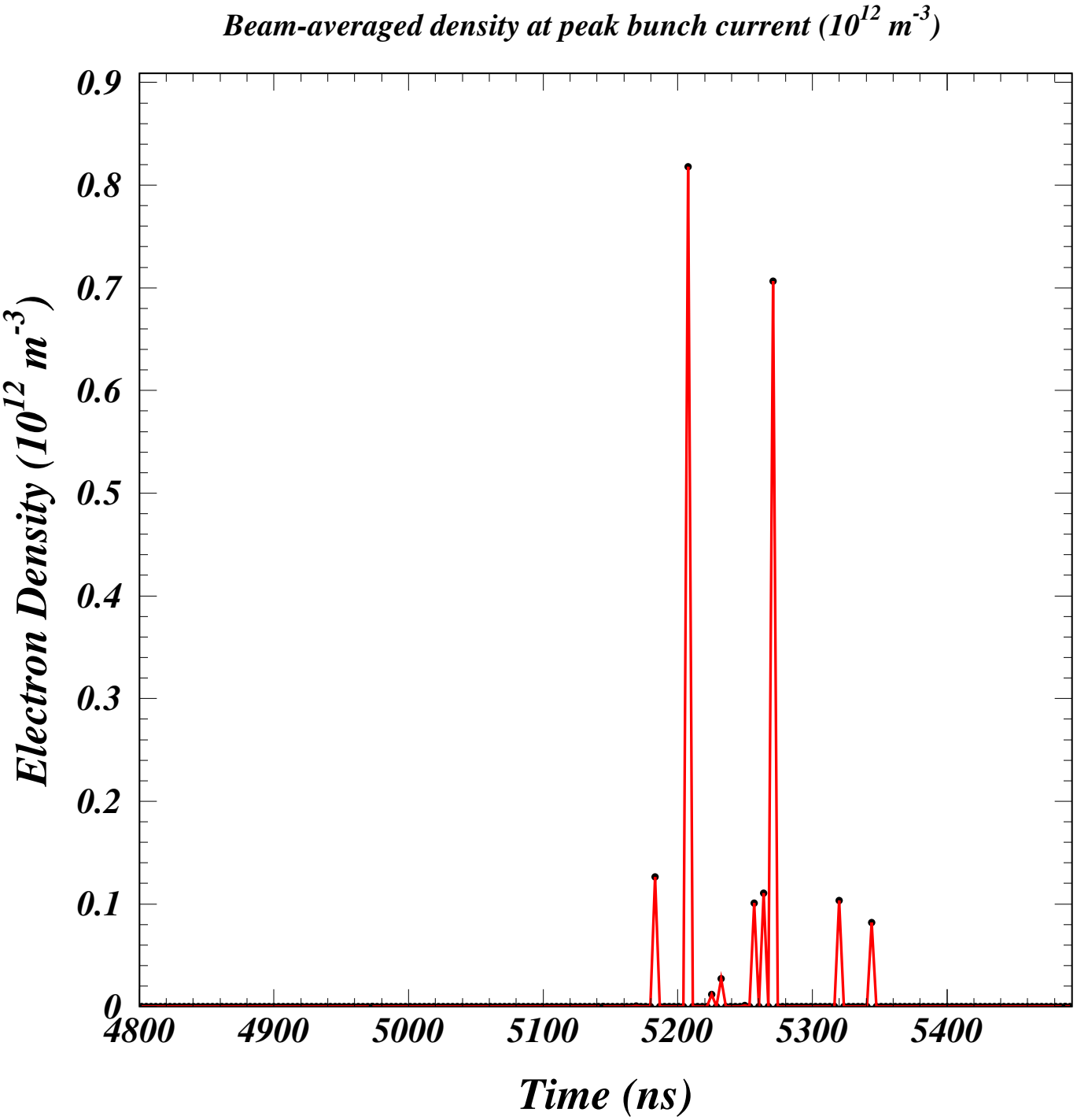

Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
4800
4900
5000
5100
5200
5300
5400
Time (ns)

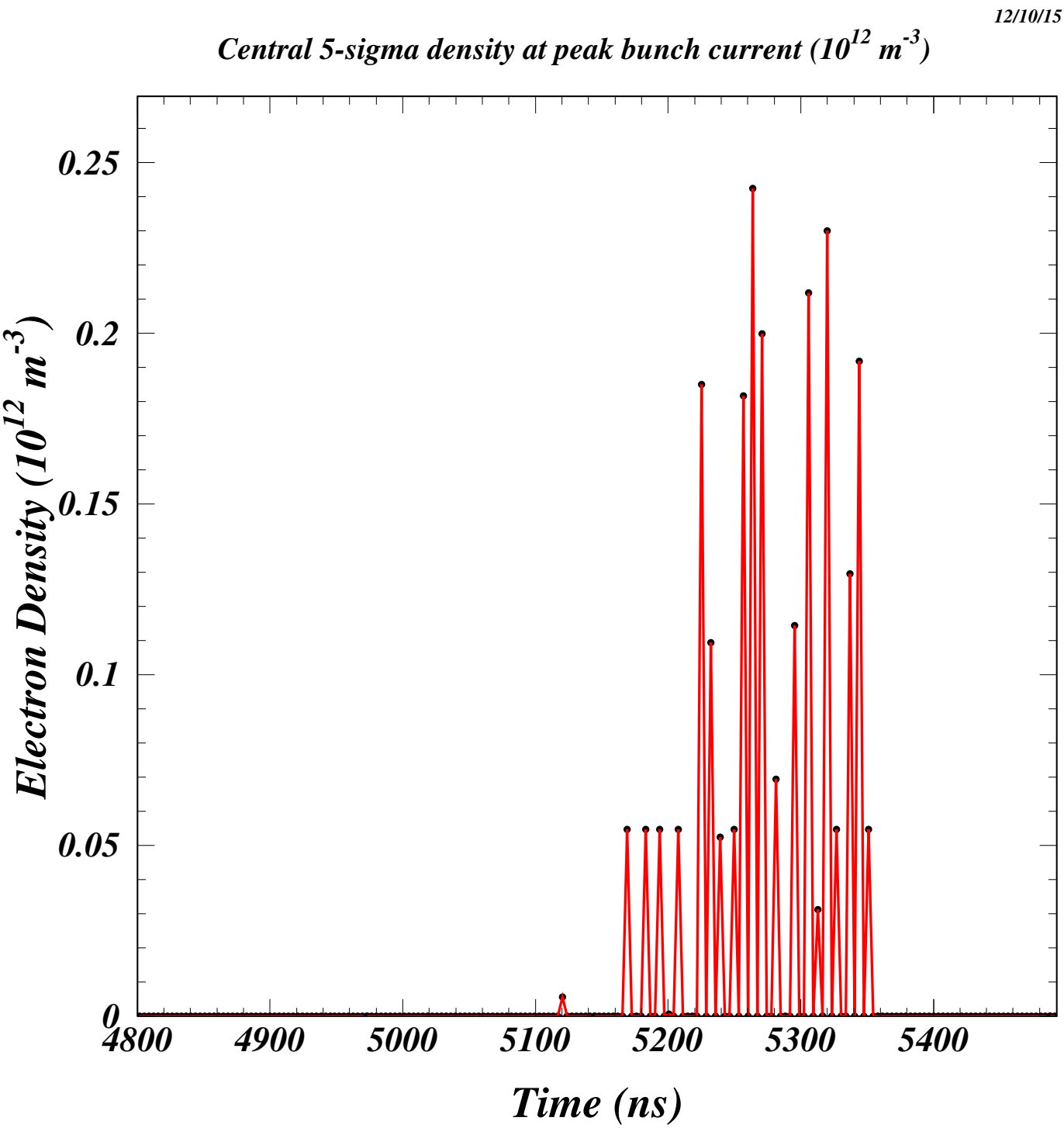
12/10/15 10.41


Central 20-sigma density prior to filled bunches (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
4800
4900
5000
5100
5200
5300
5400
Time (ns)

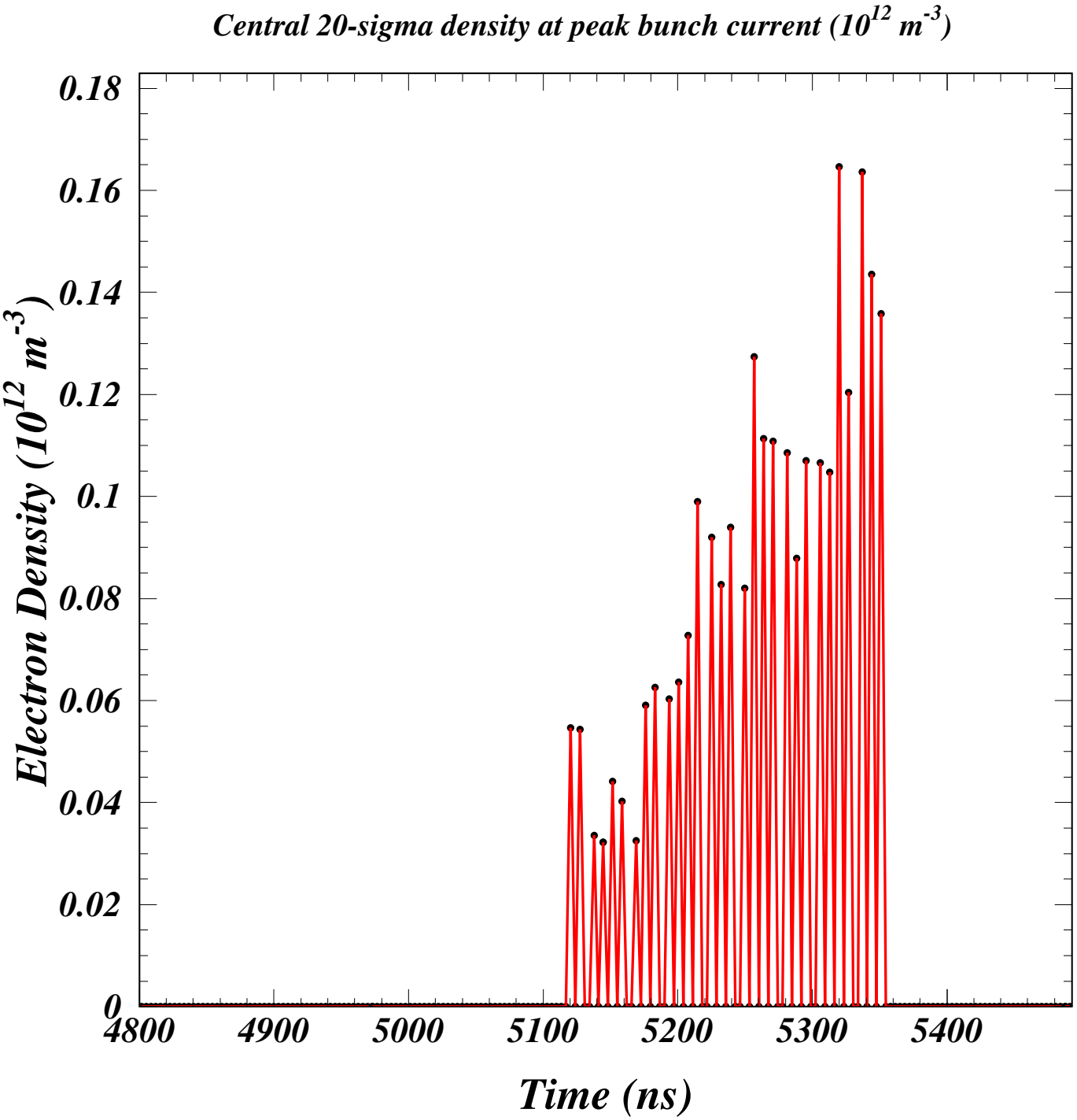

12/10/15 10.41
Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
4800
4900
5000
5100
5200
5300
5400
Time (ns)

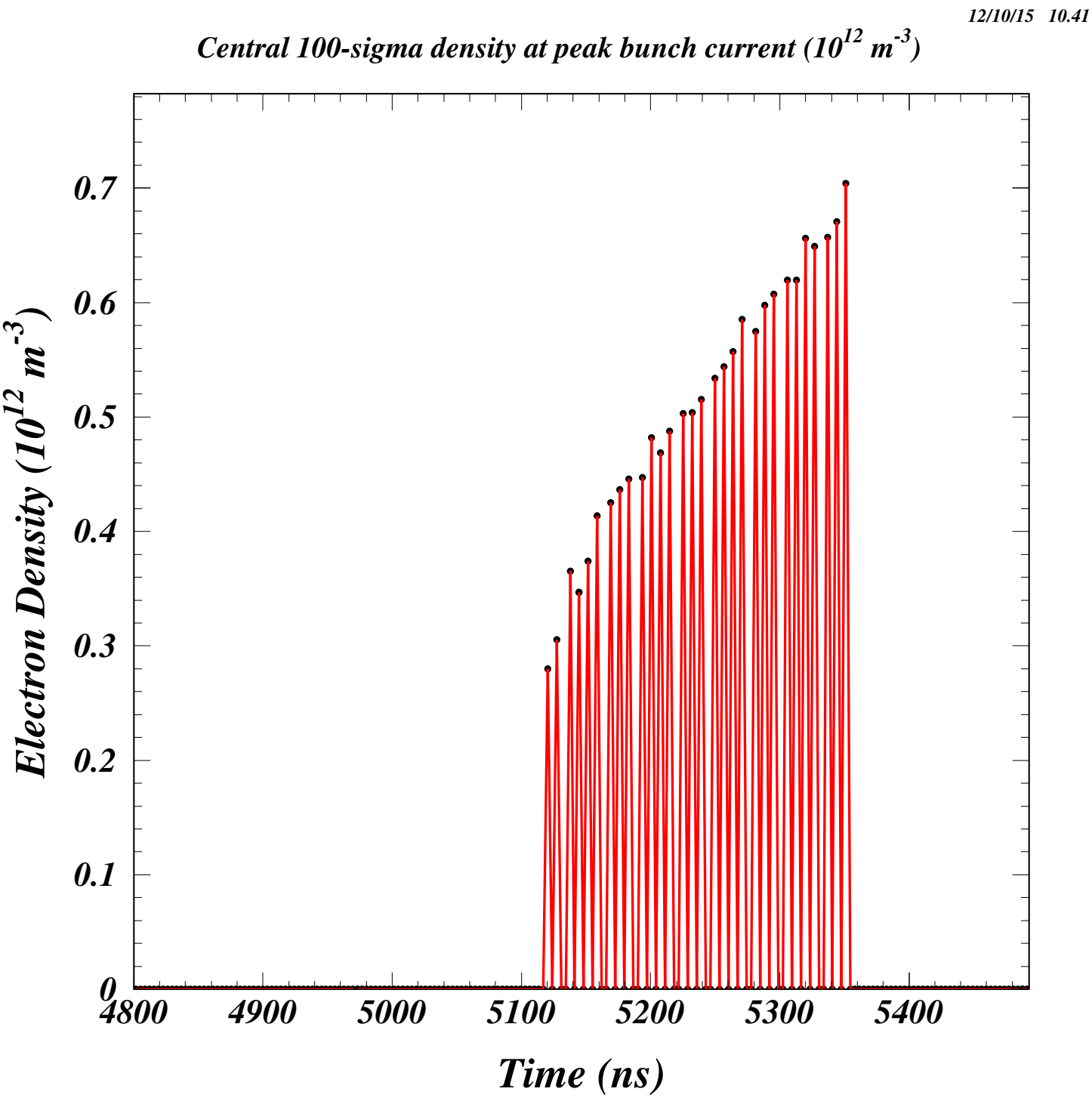
12/10/15 10.41


Beam-averaged density at peak bunch current (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
4800
4900
5000
5100
5200
5300
5400
Time (ns)


12/10/15 10.41
Central 5-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
4800
4900
5000
5100
5200
5300
5400
Time (ns)

12/10/15 10.41


Central 20-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
4800
4900
5000
5100
5200
5300
5400
Time (ns)


12/10/15 10.41
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
4800
4900
5000
5100
5200
5300
5400
Time (ns)