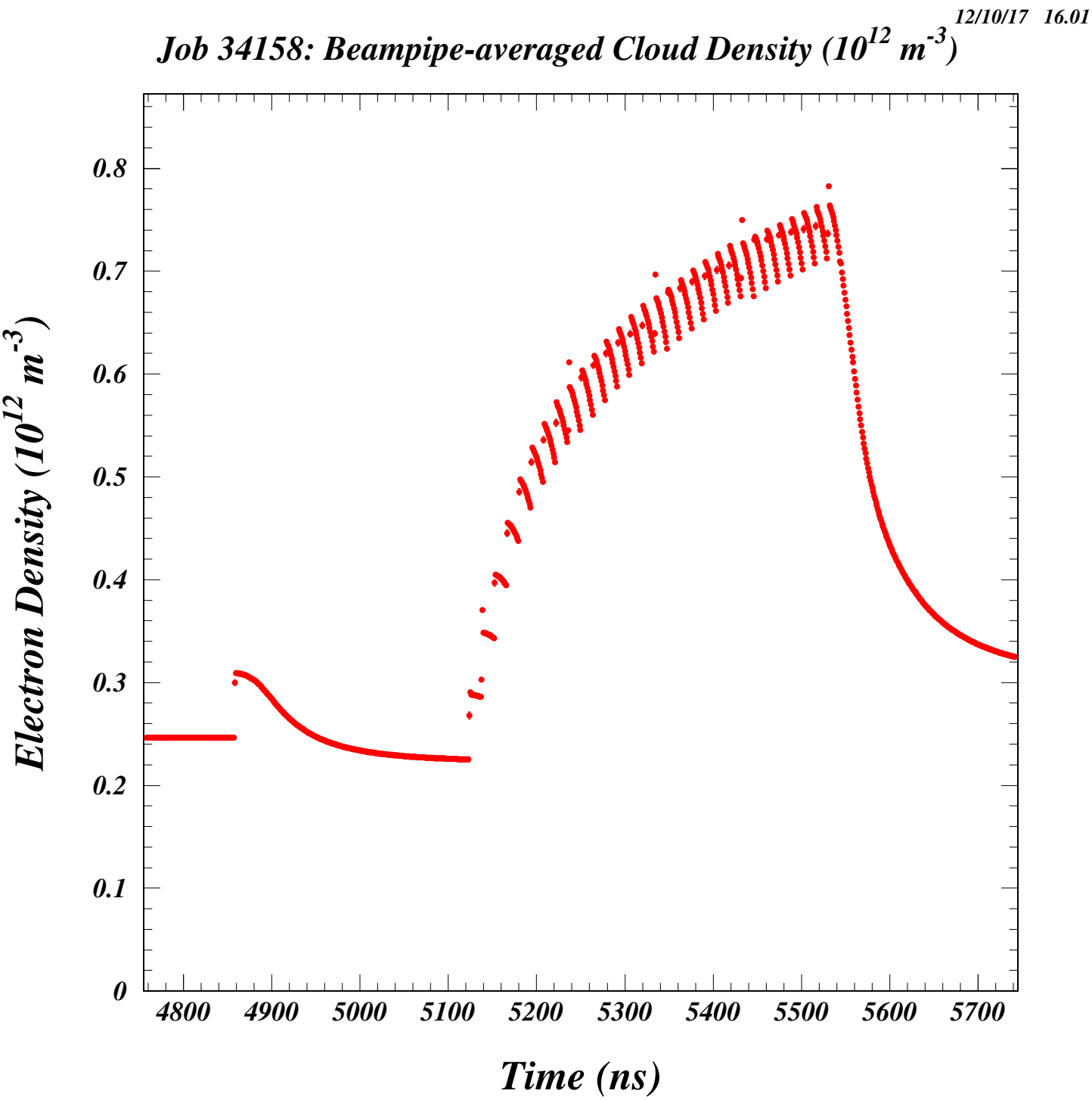
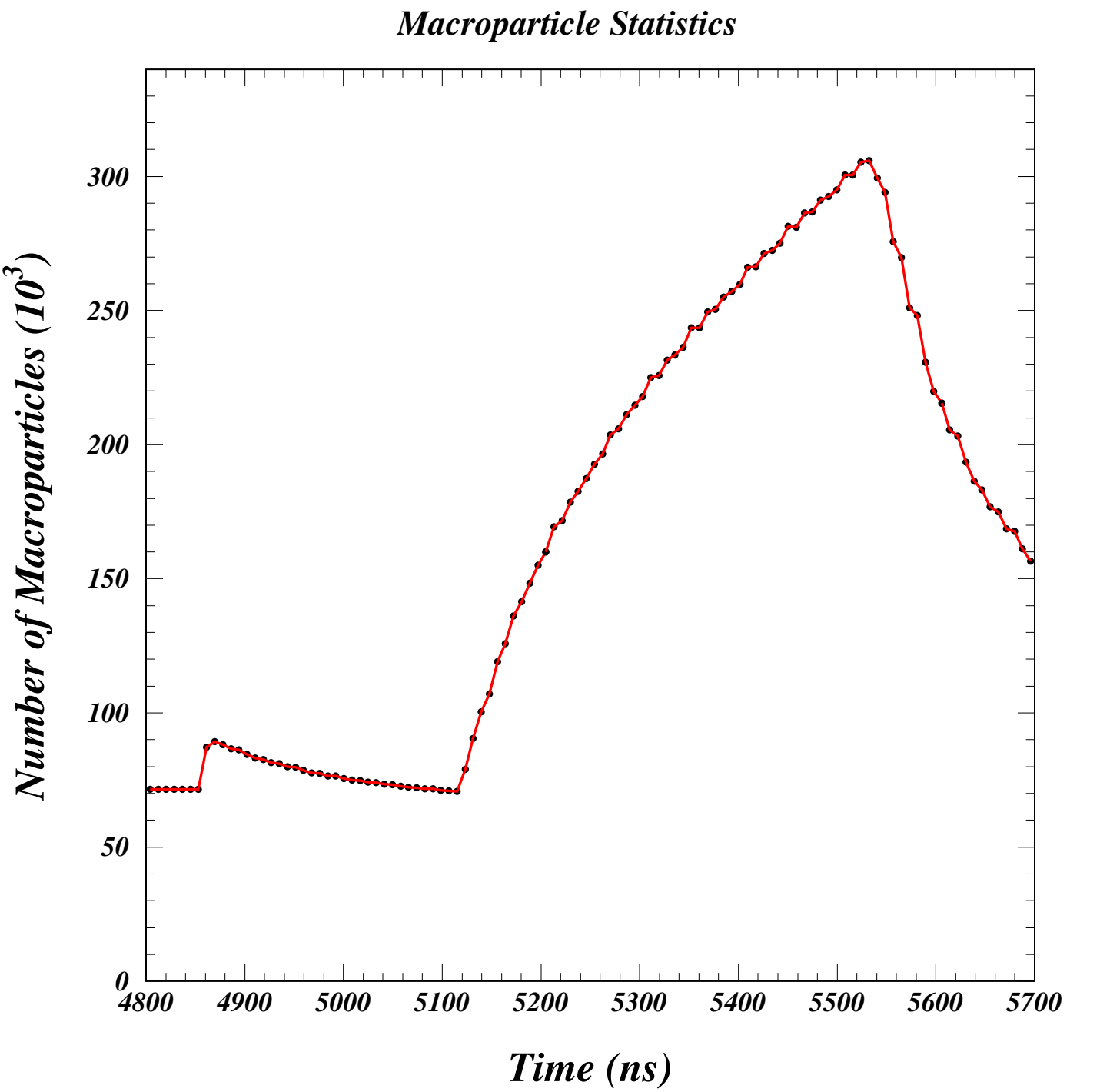
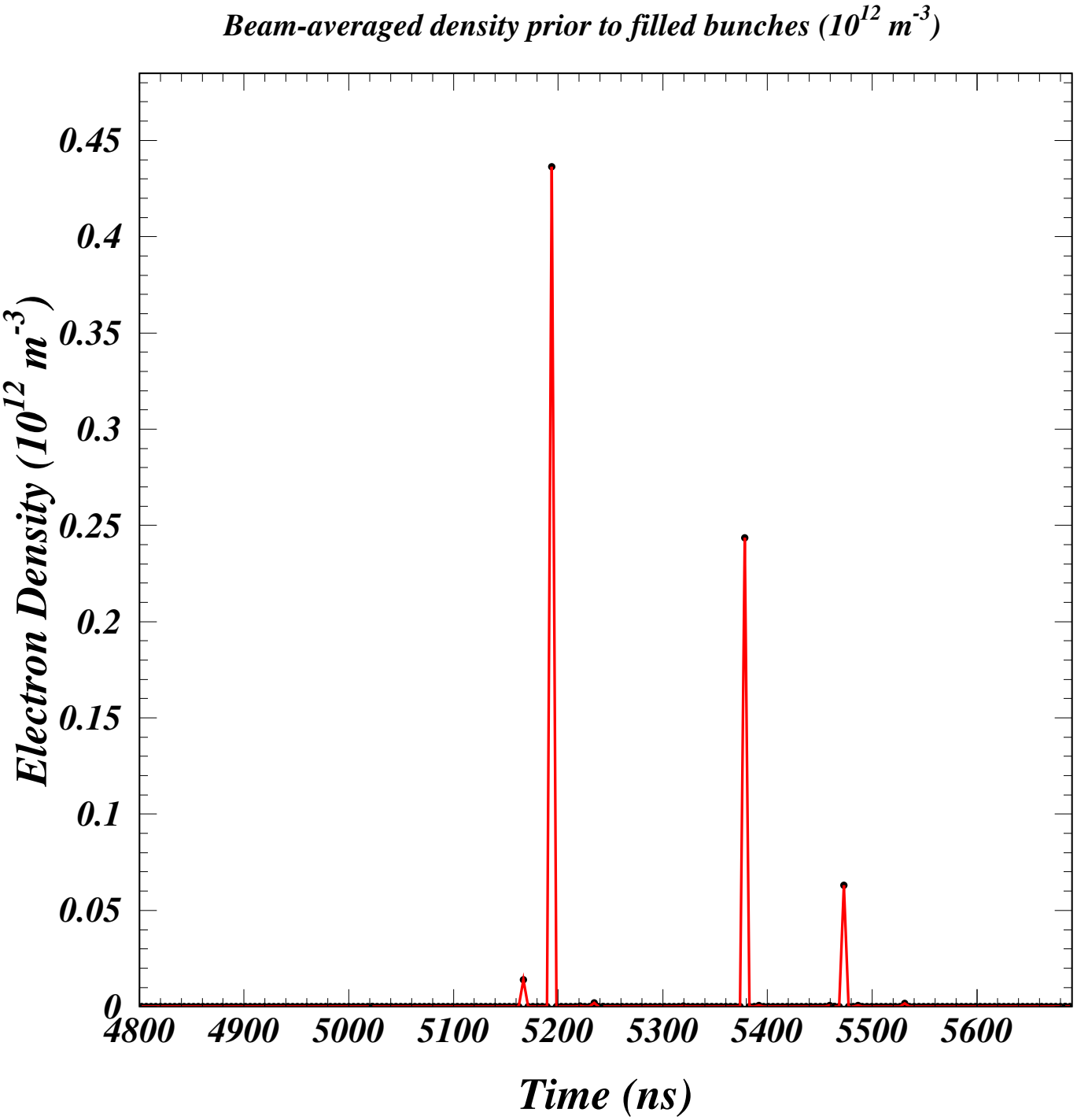
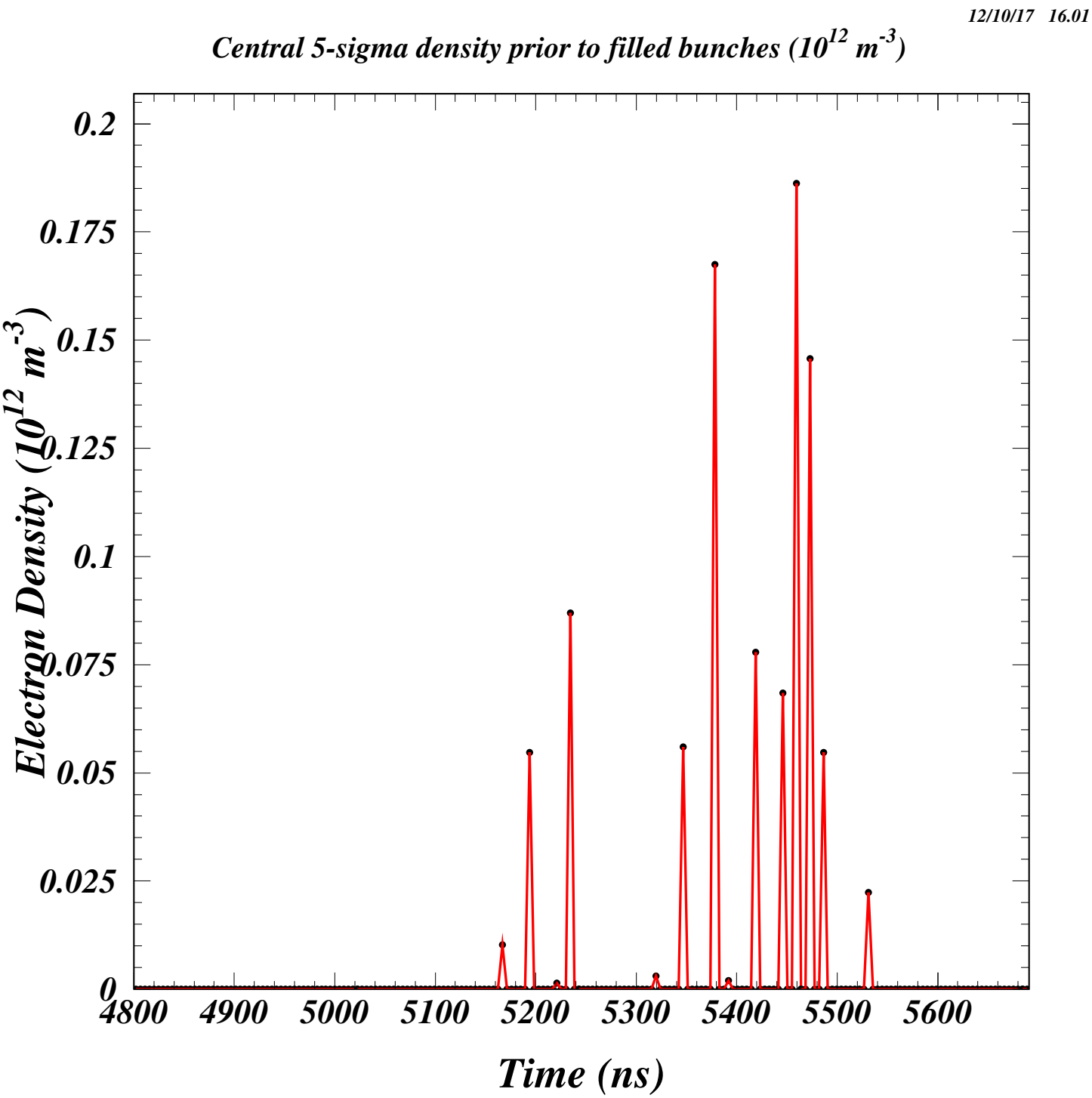

12/10/17 16.01
Job 34158: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
Time (ns)

12/10/17 16.01

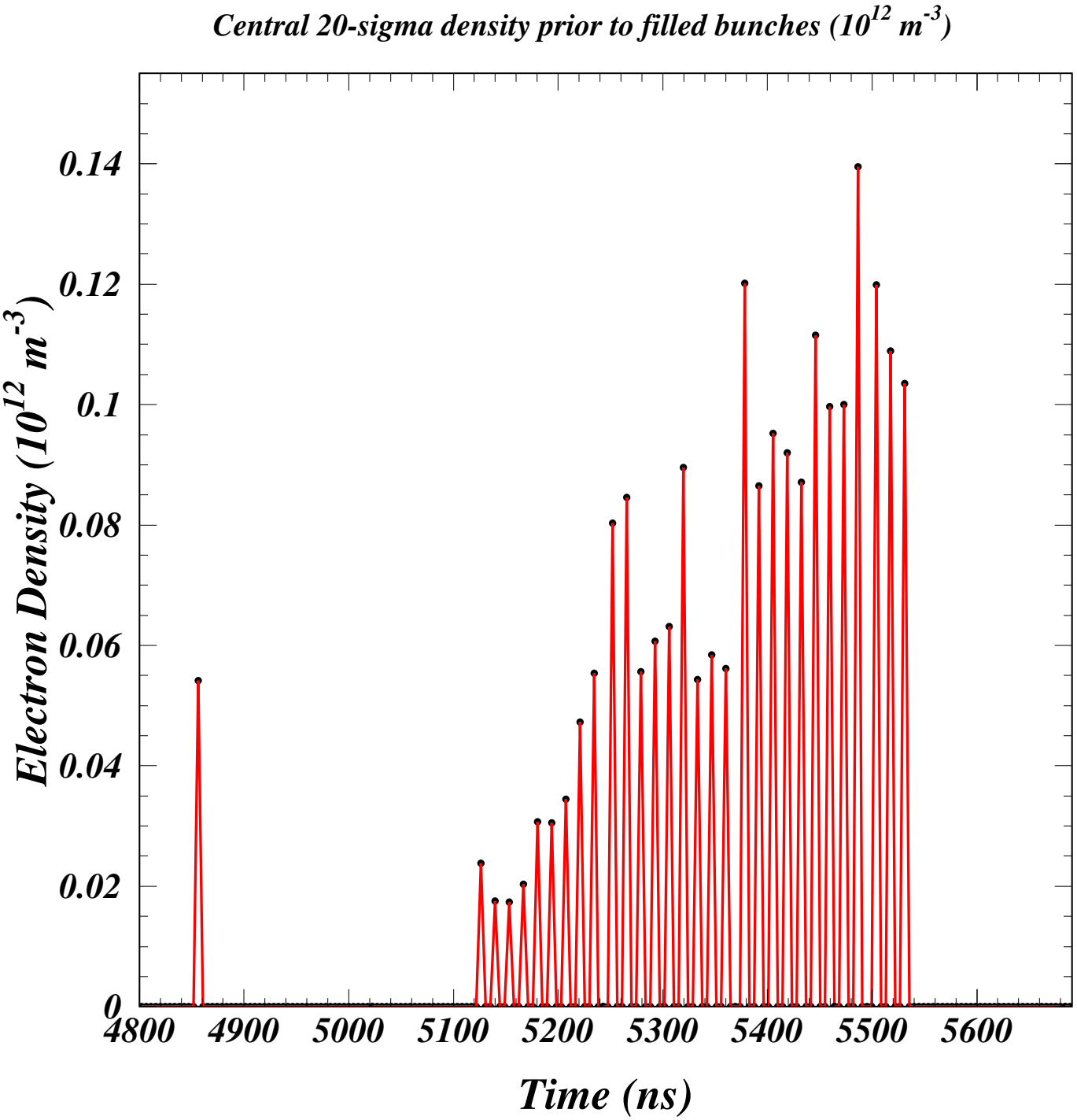

Macroparticle Statistics
Number of Macroparticles (10^3)
0
50
100
150
200
250
300
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
Time (ns)

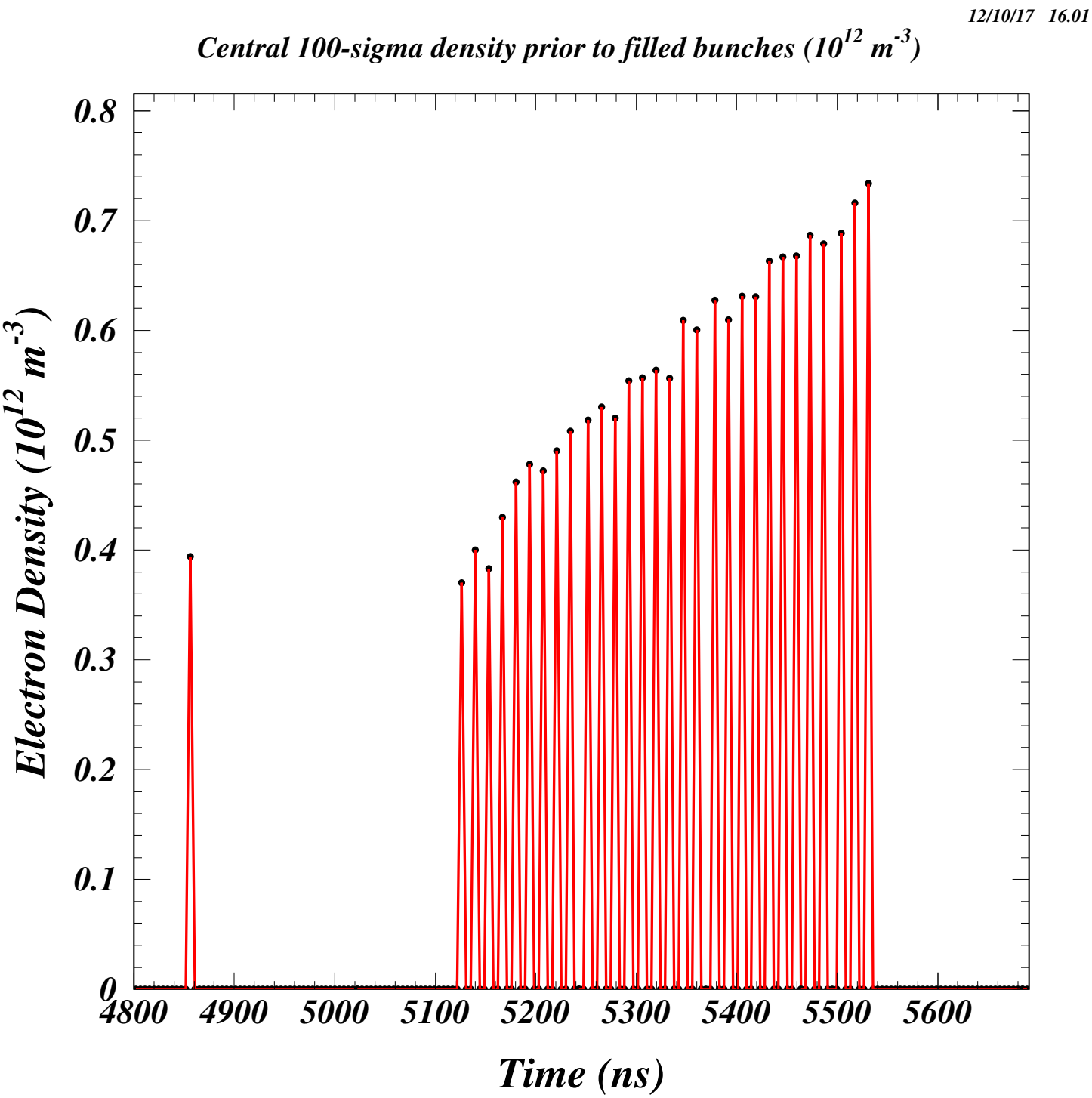
12/10/17 16.01


Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4800
4900
5000
5100
5200
5300
5400
5500
5600
Time (ns)

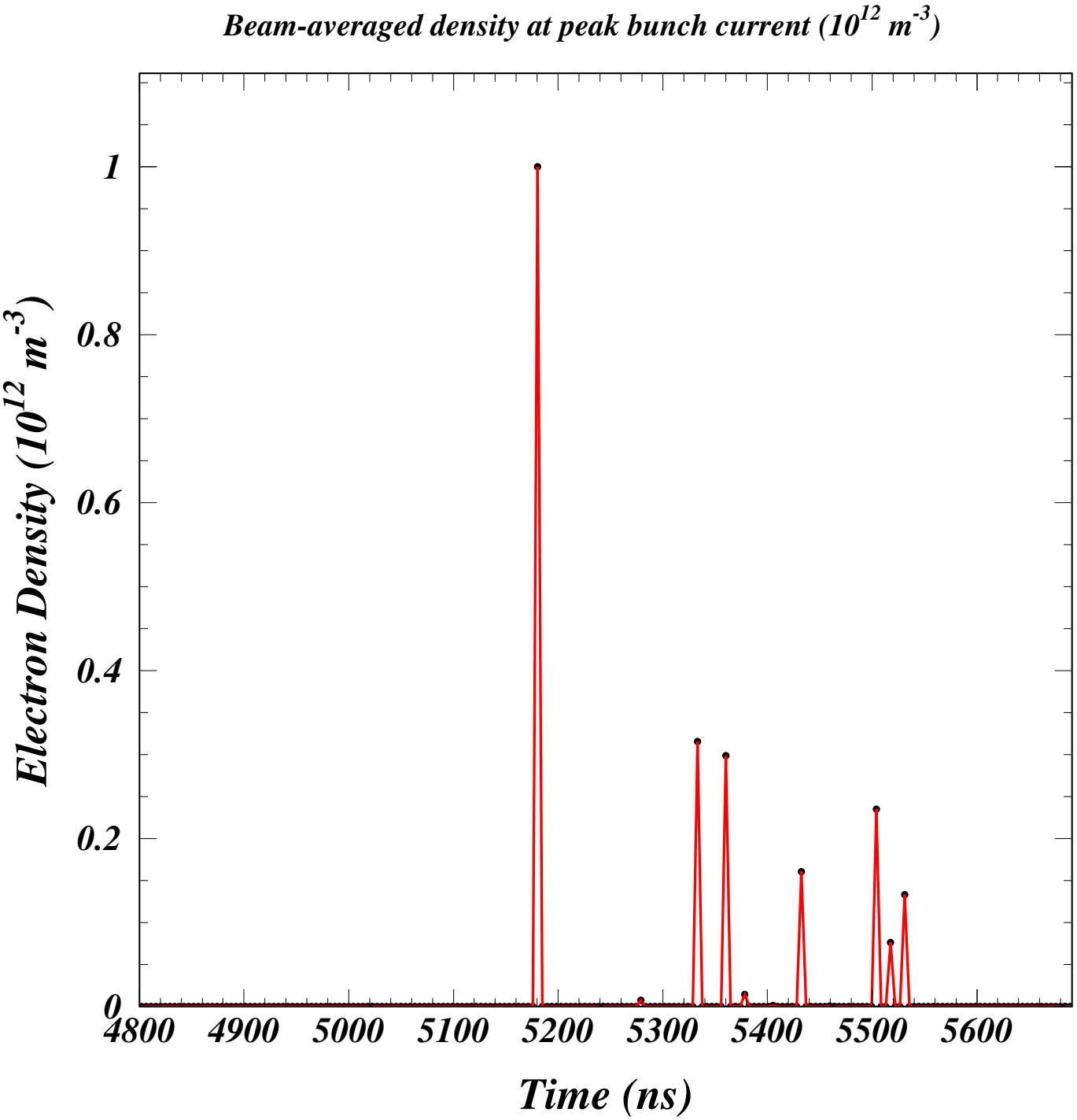

12/10/17 16.01
Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
4800
4900
5000
5100
5200
5300
5400
5500
5600
Time (ns)

12/10/17 16.01

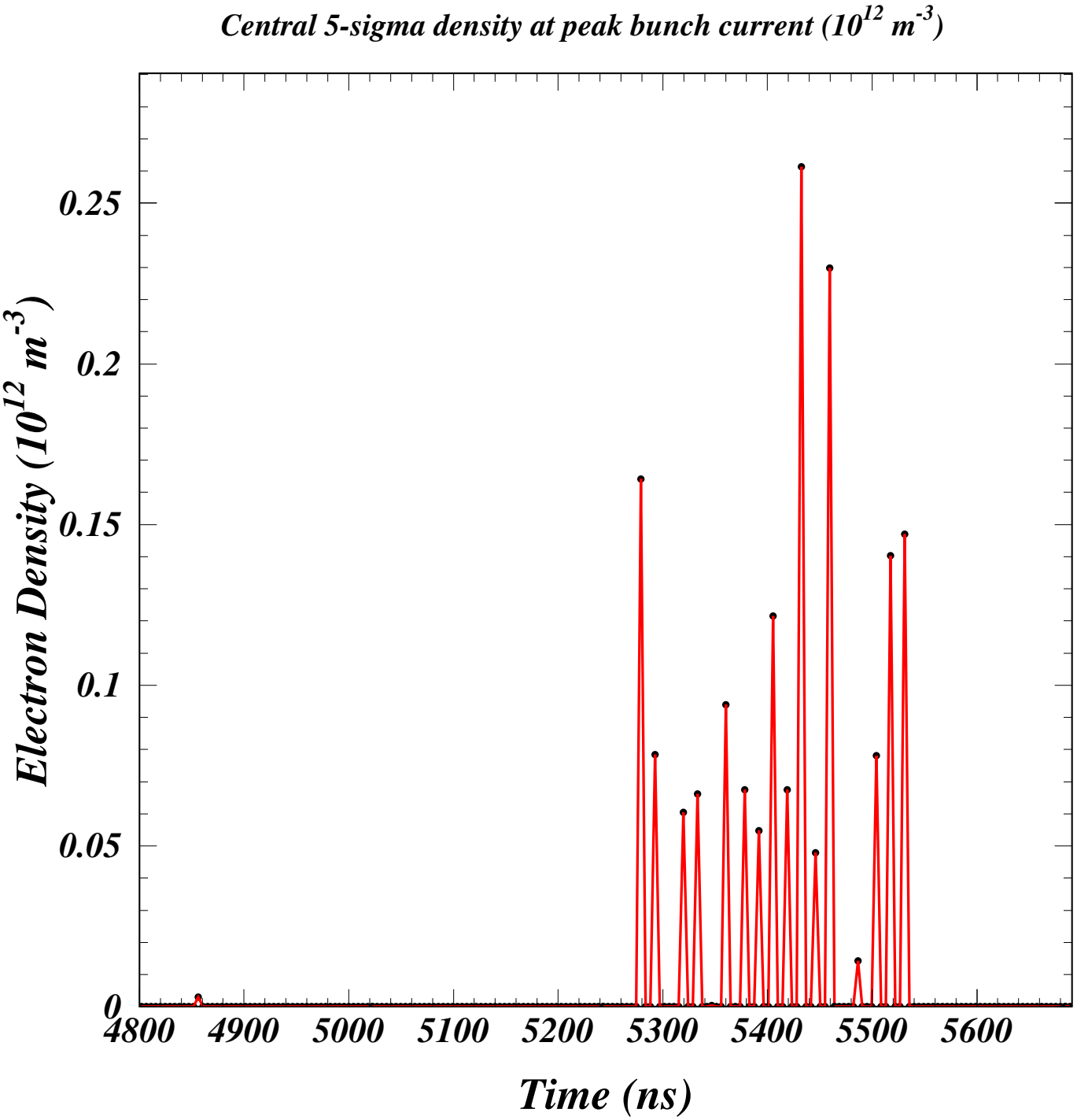

Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
4800
4900
5000
5100
5200
5300
5400
5500
5600
Time (ns)

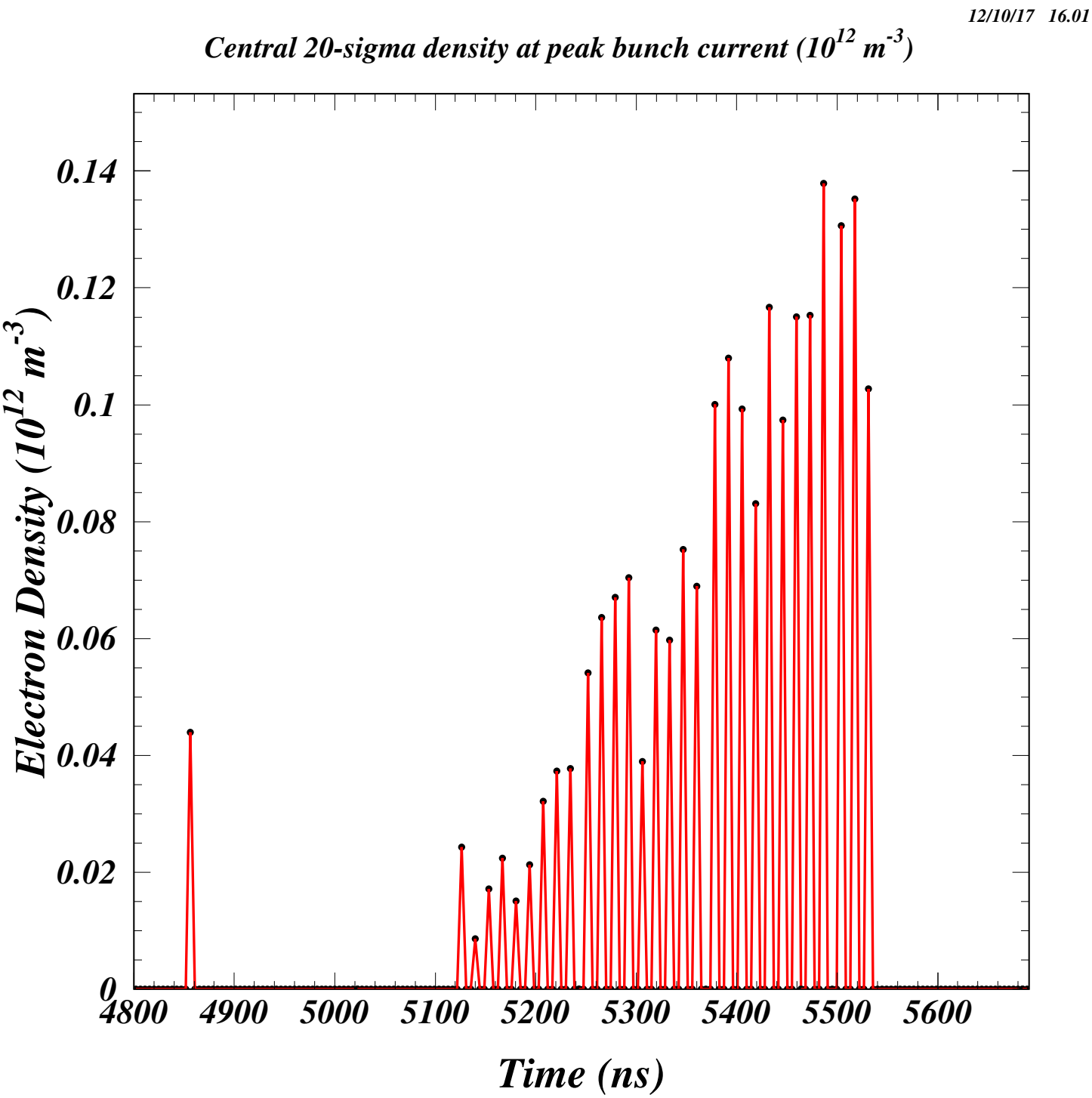

12/10/17 16.01
Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4800
4900
5000
5100
5200
5300
5400
5500
5600
Time (ns)

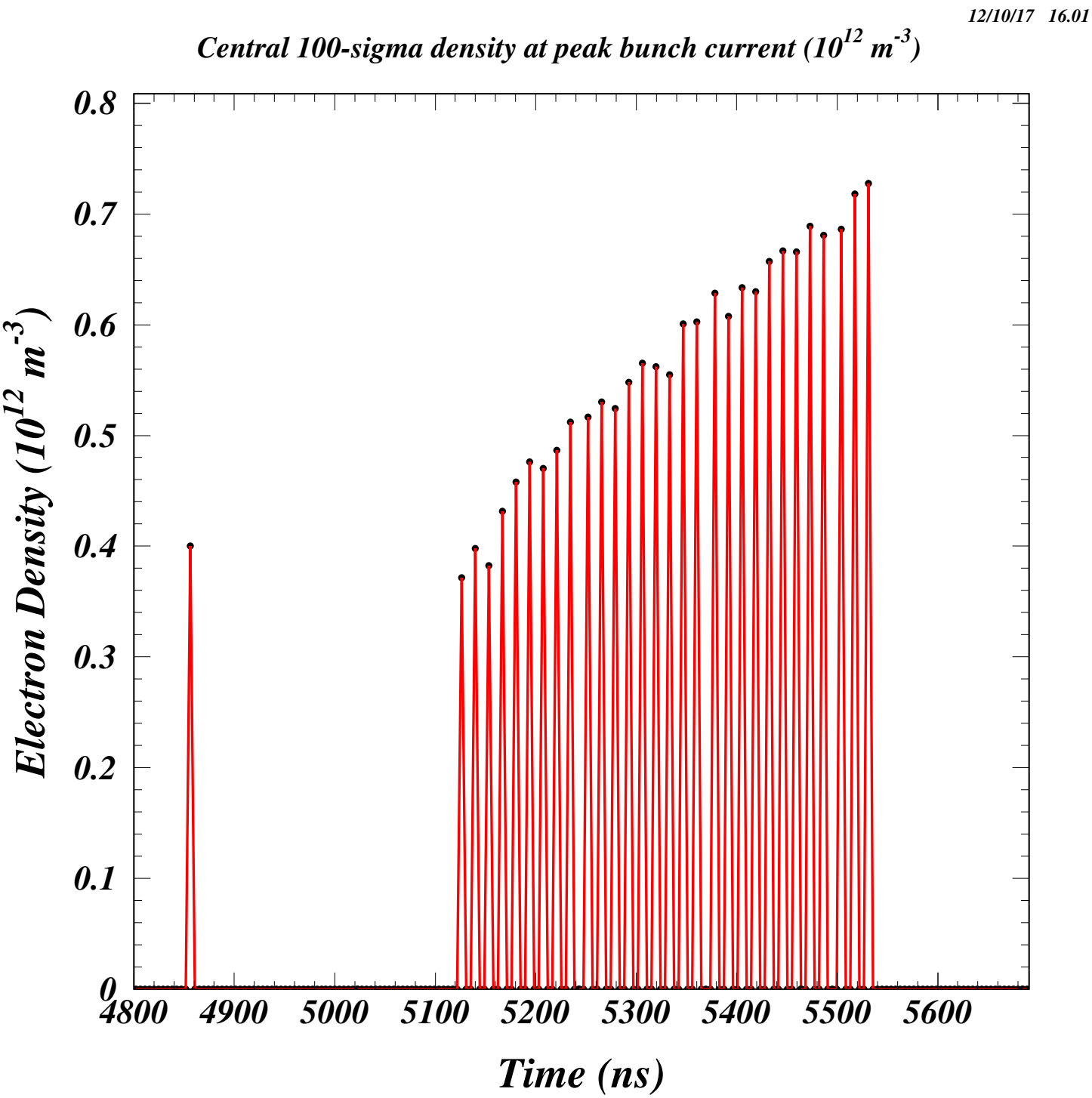
12/10/17 16.01


Beam-averaged 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
4800
4900
5000
5100
5200
5300
5400
5500
5600
Time (ns)

12/10/17 16.01


Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.05
0.1
0.15
0.2
0.25
4800
4900
5000
5100
5200
5300
5400
5500
5600
Time (ns)


12/10/17 16.01
Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4800
4900
5000
5100
5200
5300
5400
5500
5600
Time (ns)


12/10/17 16.01
Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4800
4900
5000
5100
5200
5300
5400
5500
5600
Time (ns)