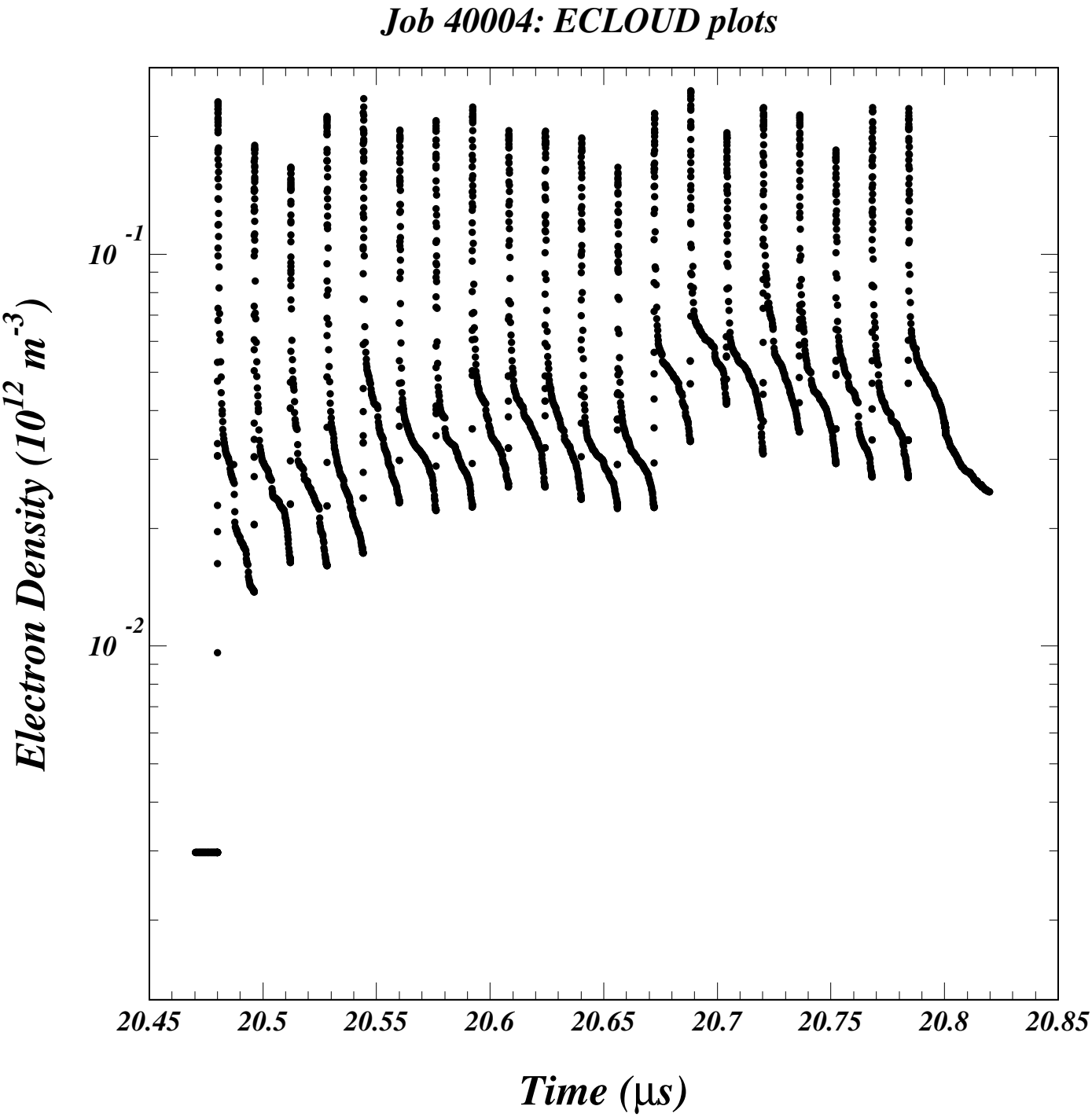
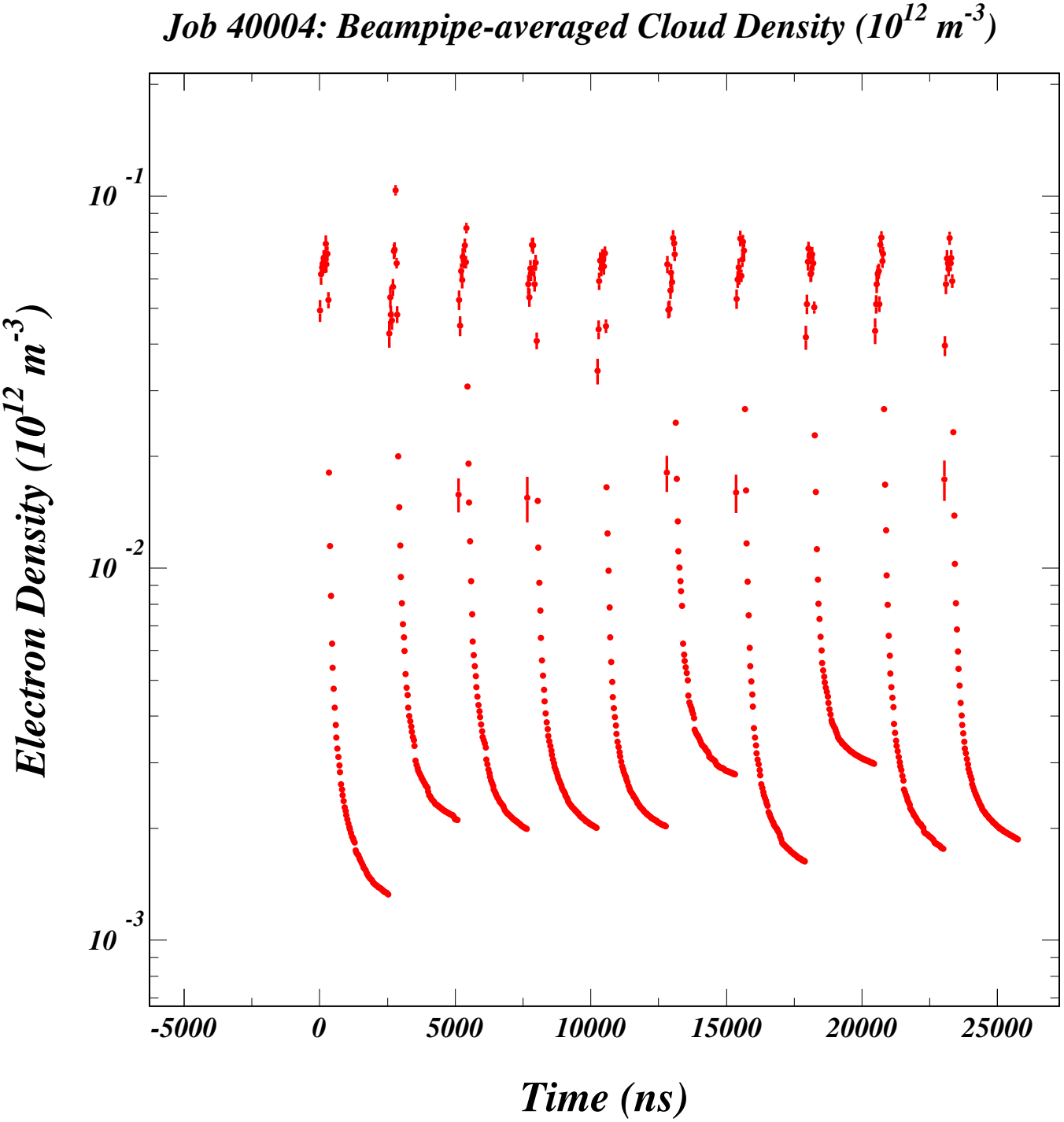
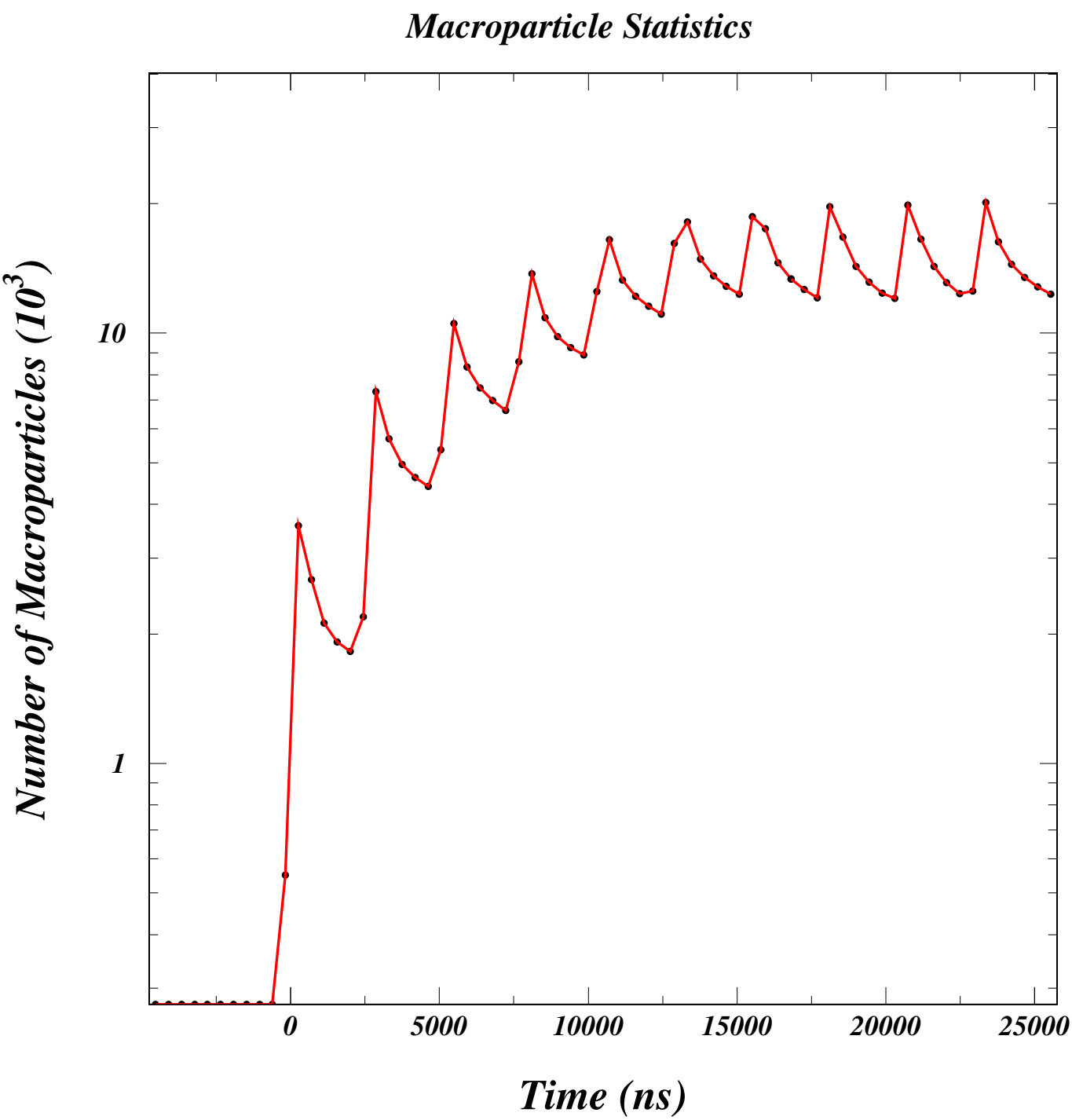
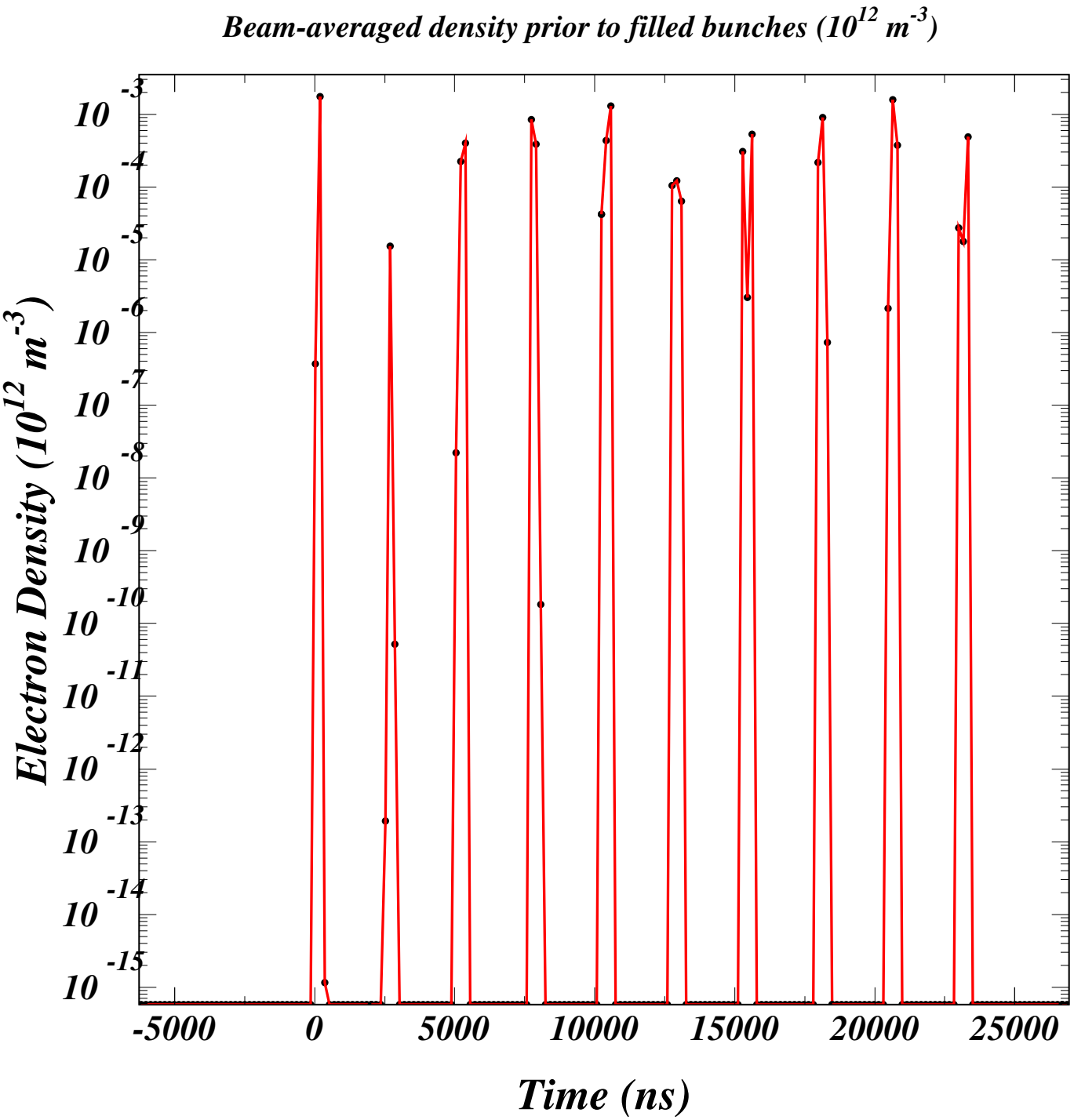
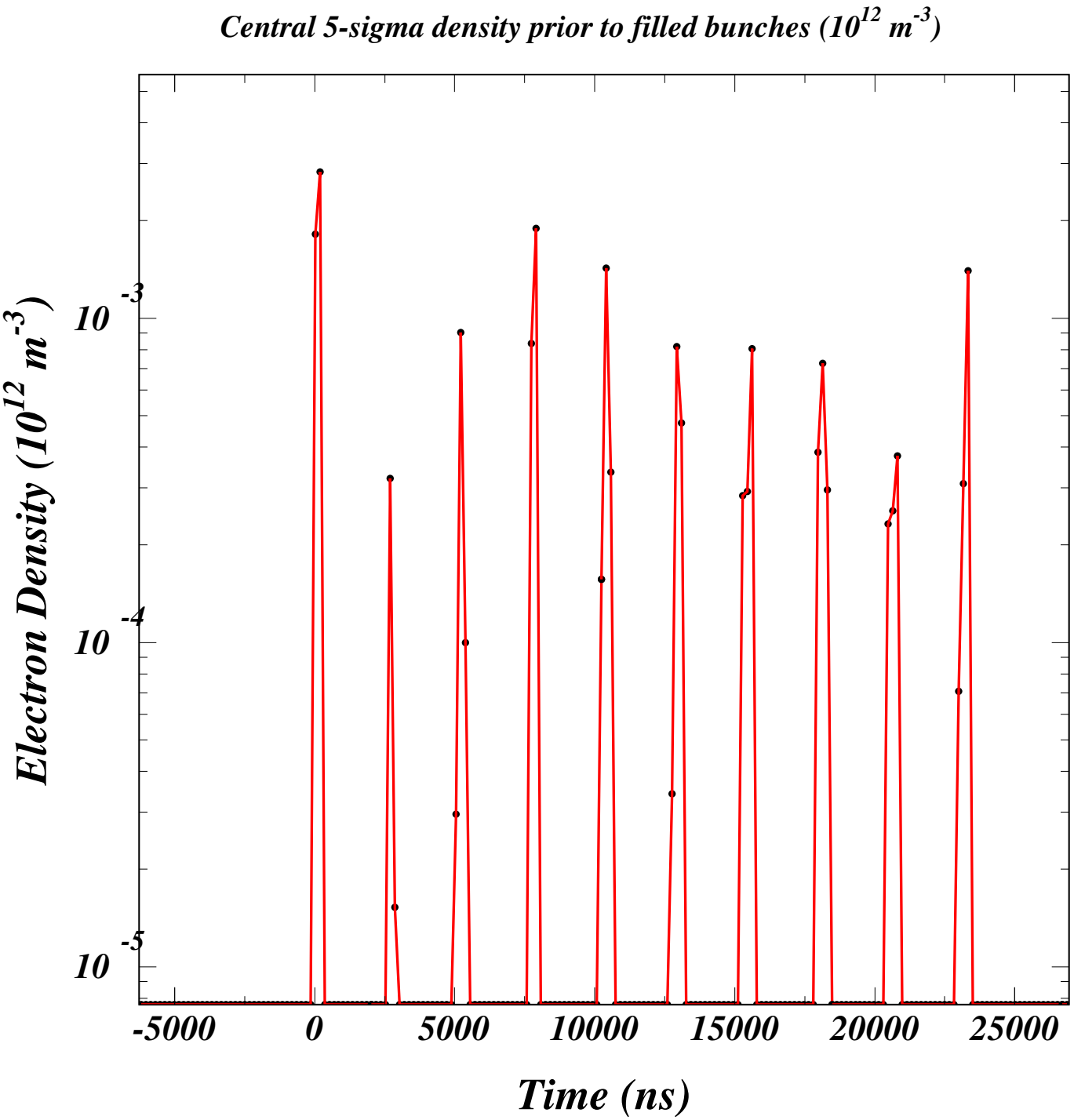
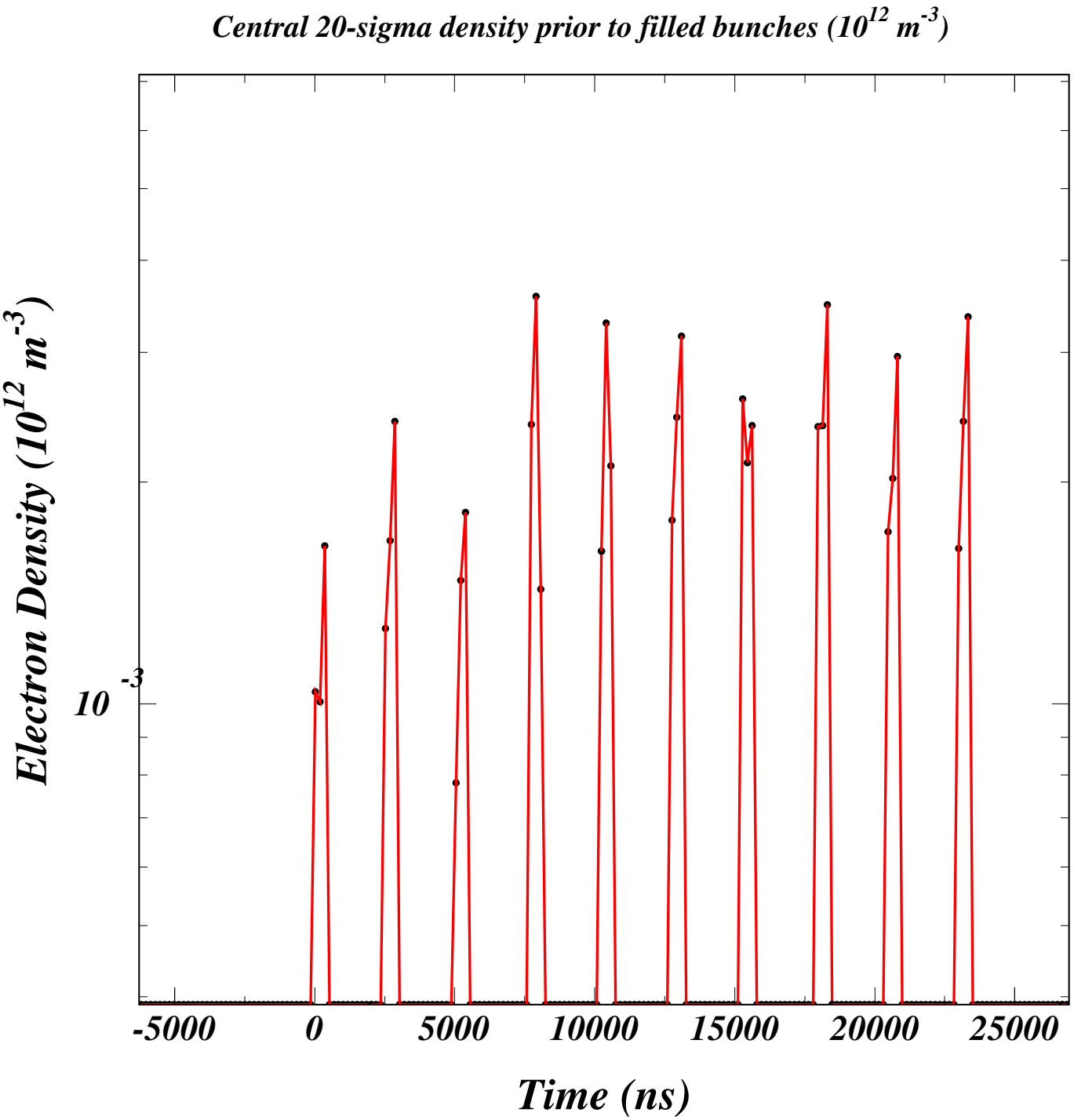

Job 40004: ECLOUD plots
Electron Density (10^{12} m^{-3})
10^{-1}
10^{-2}
20.45
20.5
20.55
20.6
20.65
20.7
20.75
20.8
20.85
Time (μs)

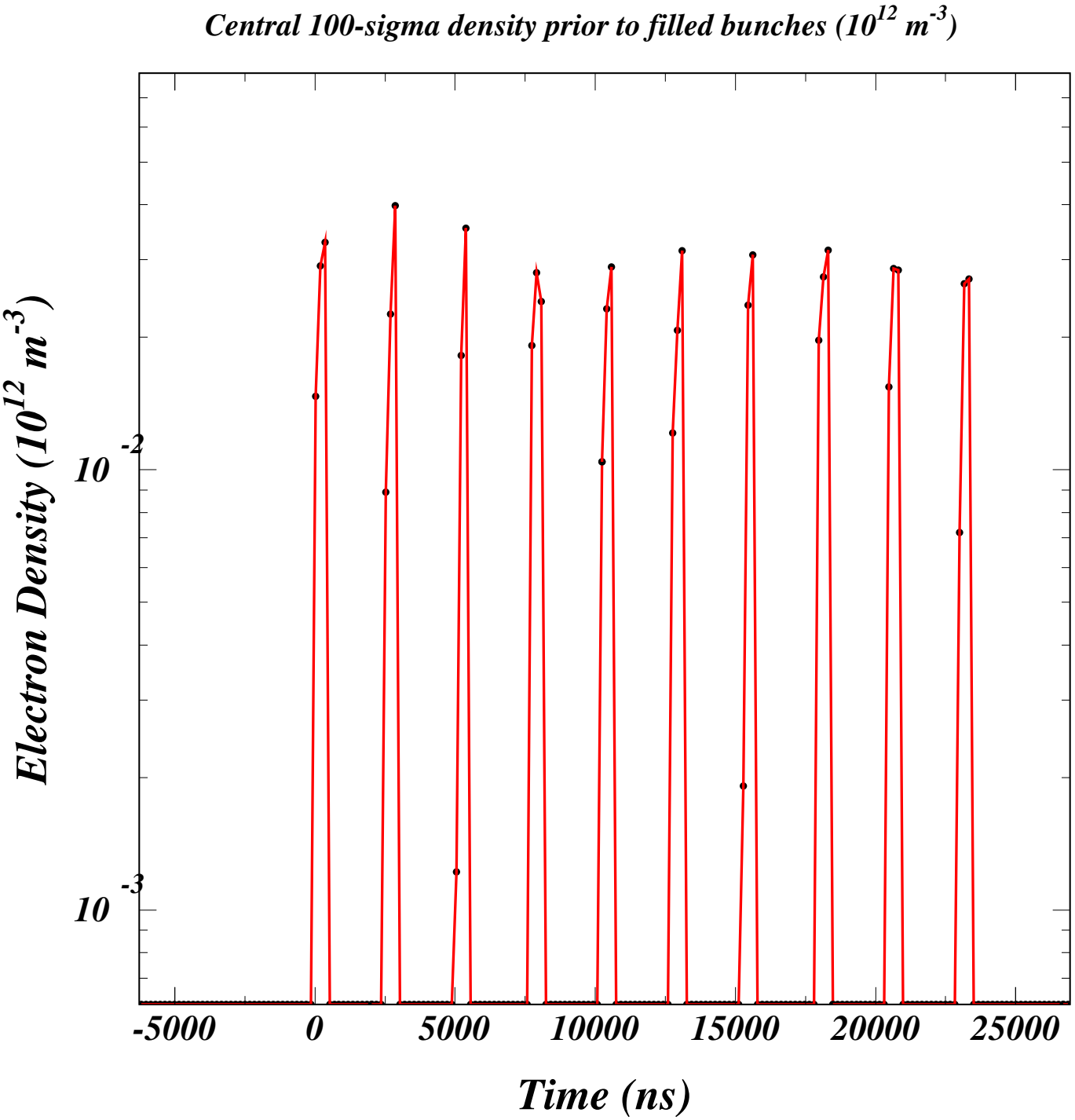

Job 40004: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
10^{-1}
10^{-2}
10^{-3}
-5000
0
5000
10000
15000
20000
25000
Time (ns)

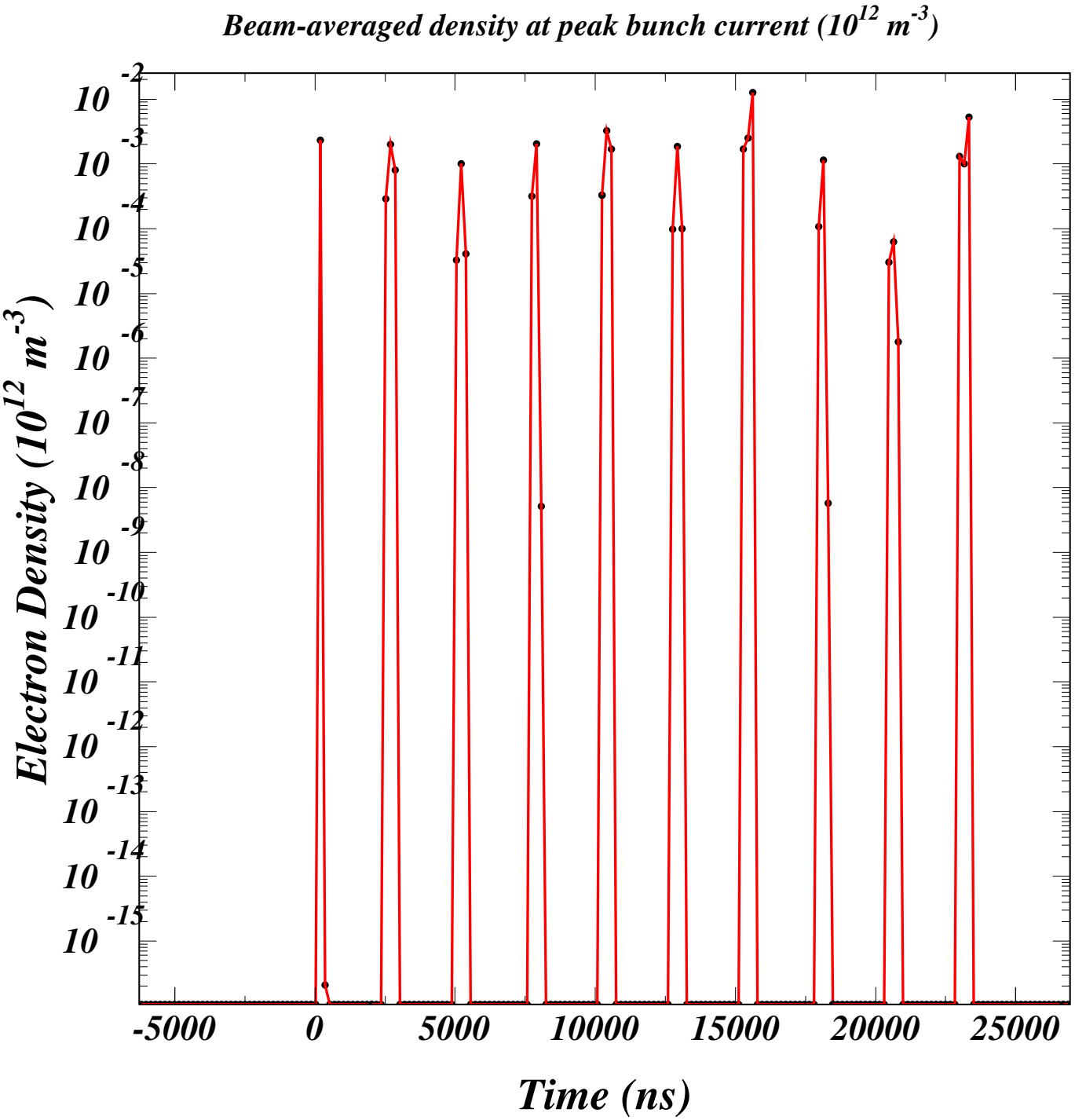

Macroparticle Statistics
Number of Macroparticles (10^3)
10
1
0
5000
10000
15000
20000
25000
Time (ns)

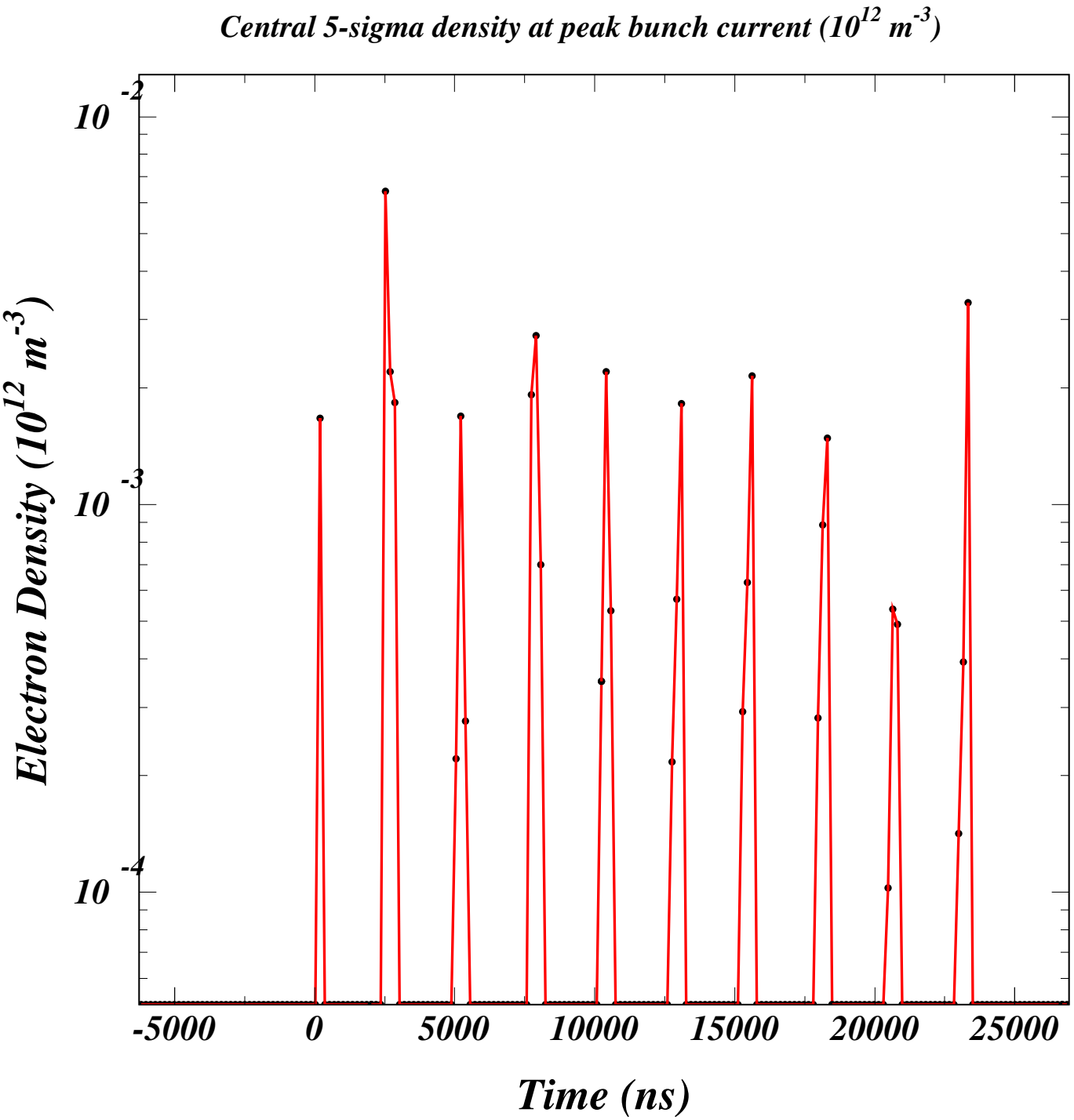

Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
10^{-10}
10^{-11}
10^{-12}
10^{-13}
10^{-14}
10^{-15}
-5000
0
5000
10000
15000
20000
25000
Time (ns)

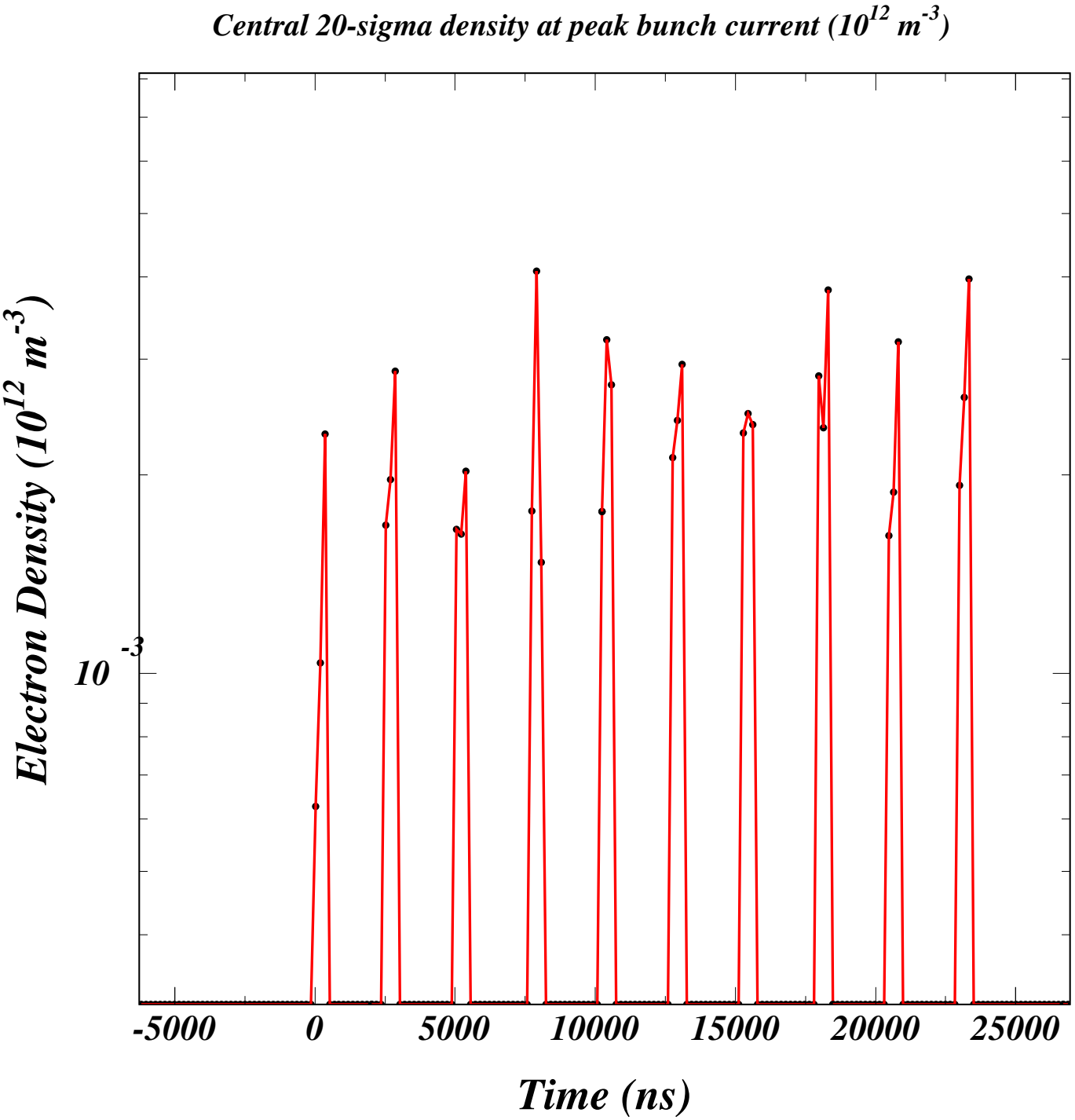

Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
10^{-3}
10^{-4}
10^{-5}
-5000
0
5000
10000
15000
20000
25000
Time (ns)

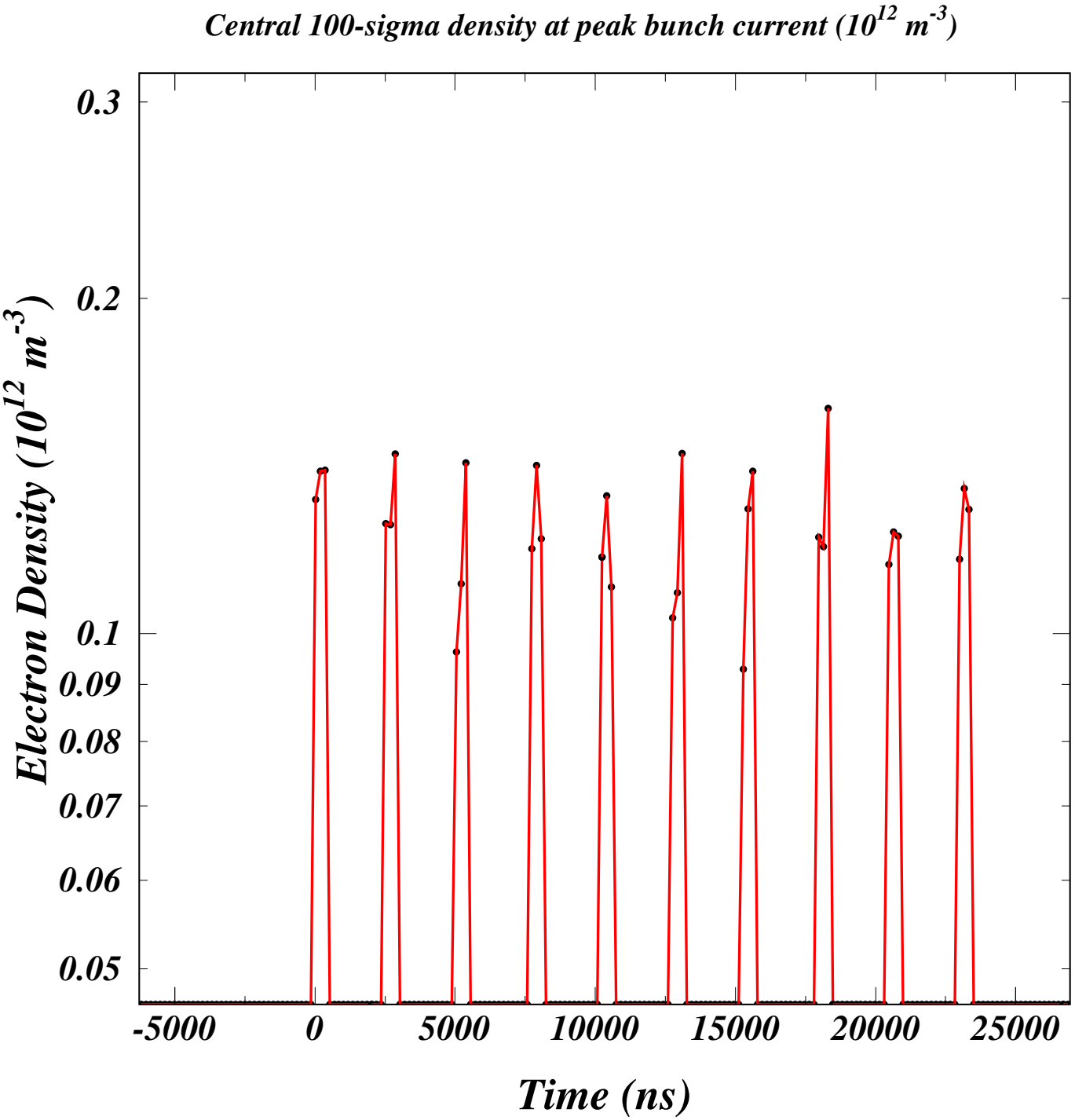

Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
10 -3
-5000
0
5000
10000
15000
20000
25000
Time (ns)


Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
10^{-2}
10^{-3}
-5000
0
5000
10000
15000
20000
25000
Time (ns)


Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
10^{-10}
10^{-11}
10^{-12}
10^{-13}
10^{-14}
10^{-15}
-5000
0
5000
10000
15000
20000
25000
Time (ns)


Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
10^{-2}
10^{-3}
10^{-4}
-5000
0
5000
10000
15000
20000
25000
Time (ns)


Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
10 -3
-5000
0
5000
10000
15000
20000
25000
Time (ns)


Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.3
0.2
0.1
0.09
0.08
0.07
0.06
0.05
-5000
0
5000
10000
15000
20000
25000
Time (ns)