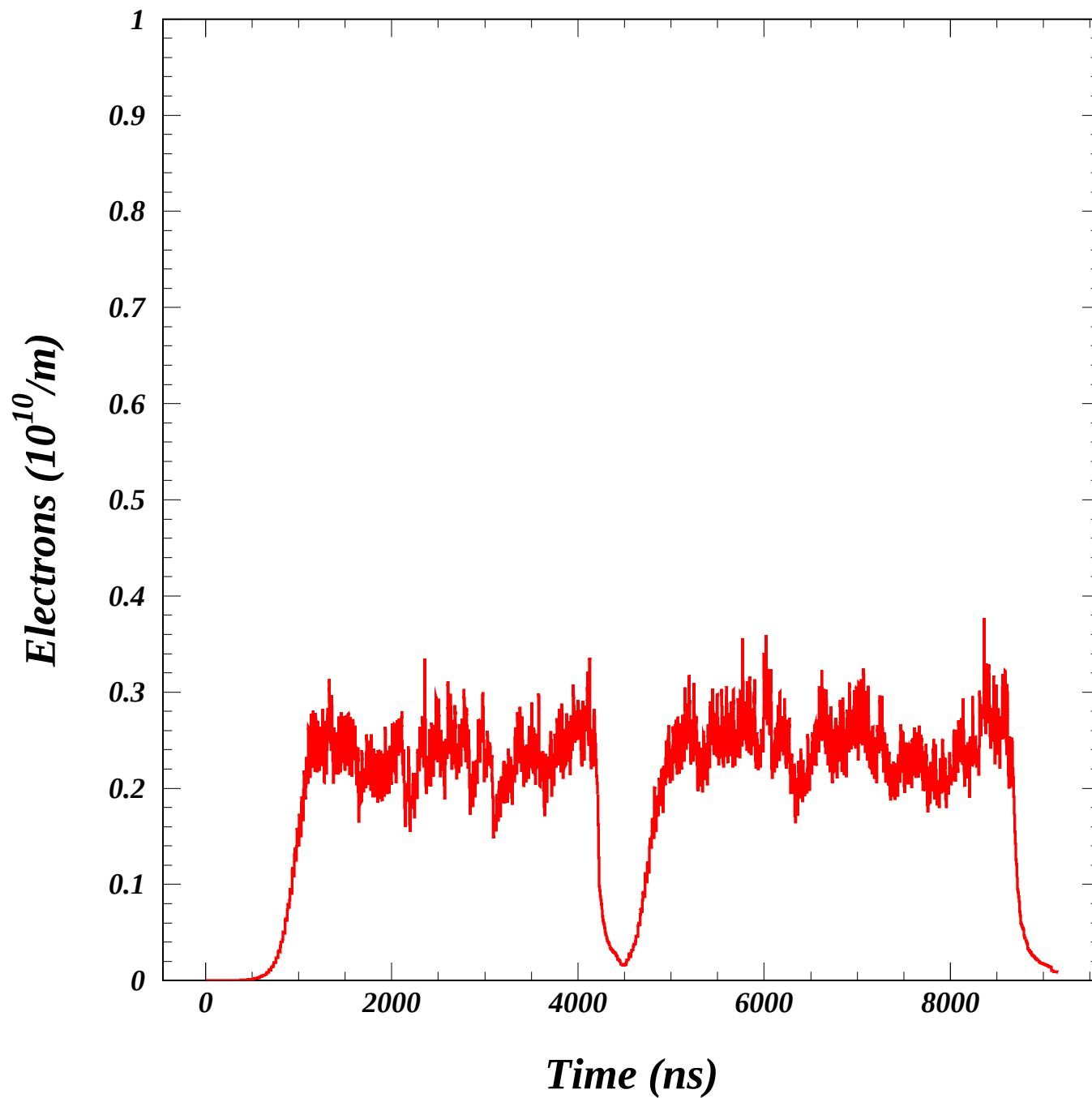
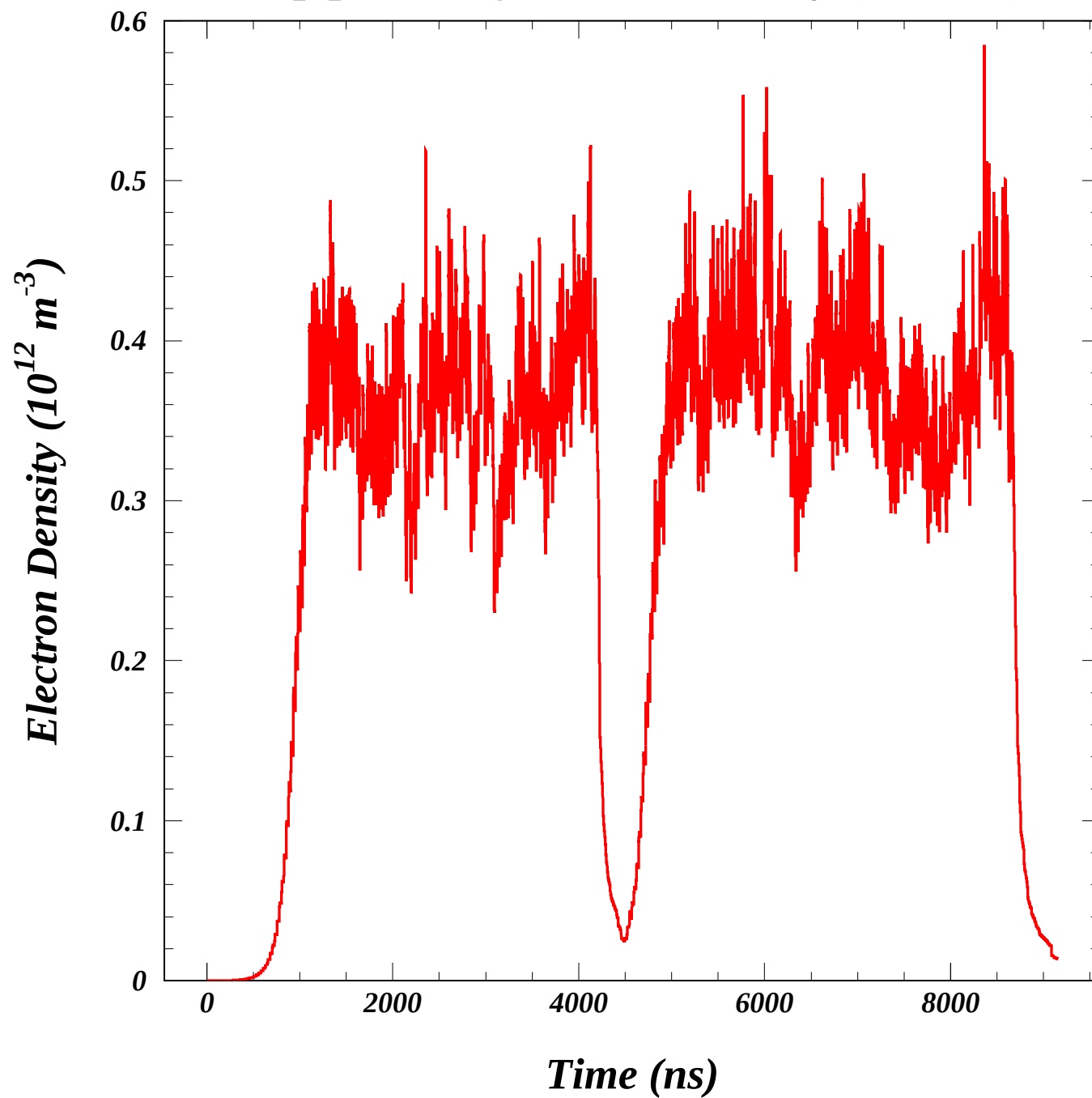
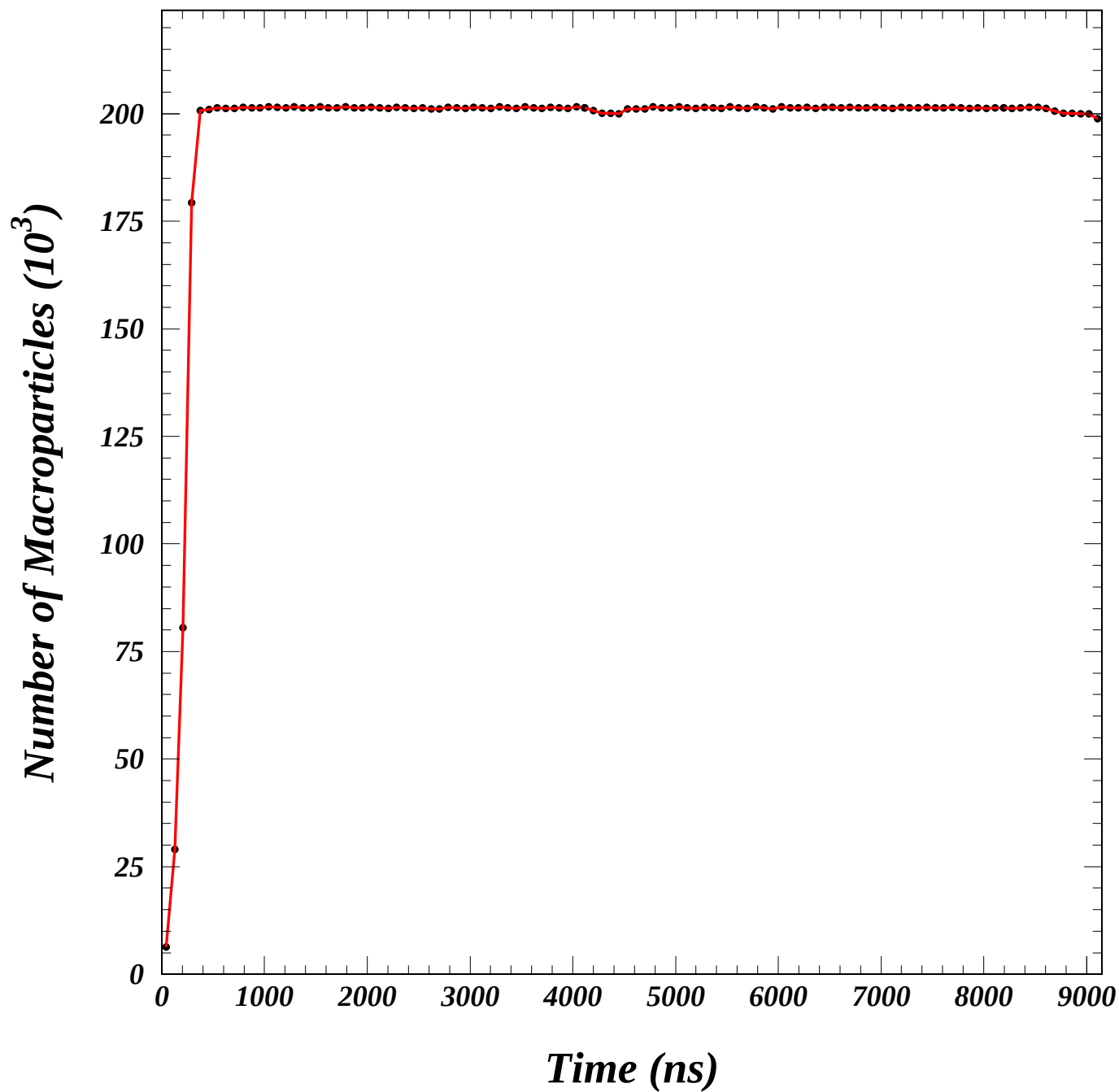


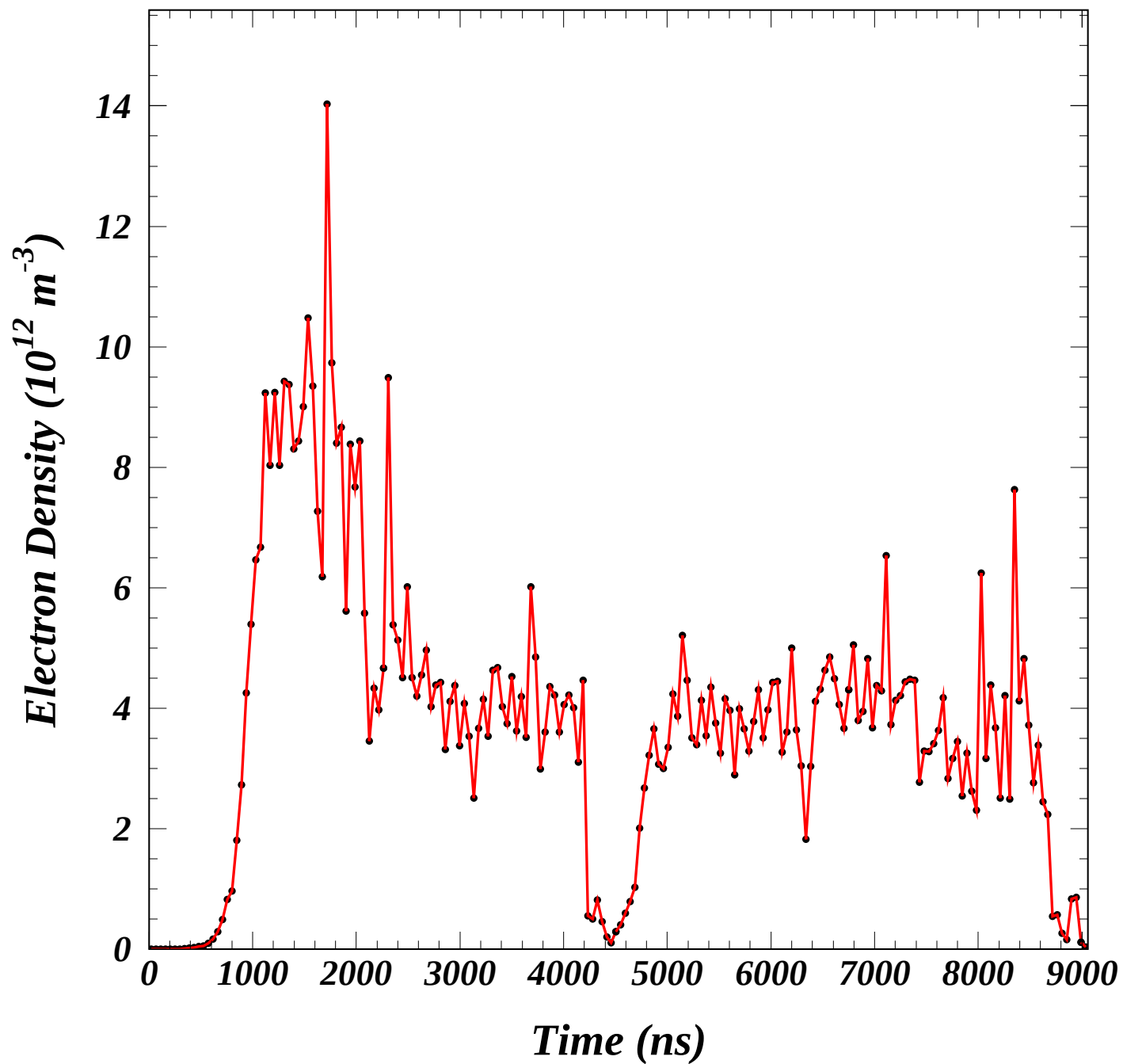
Job 15893: Number of Cloud Electrons

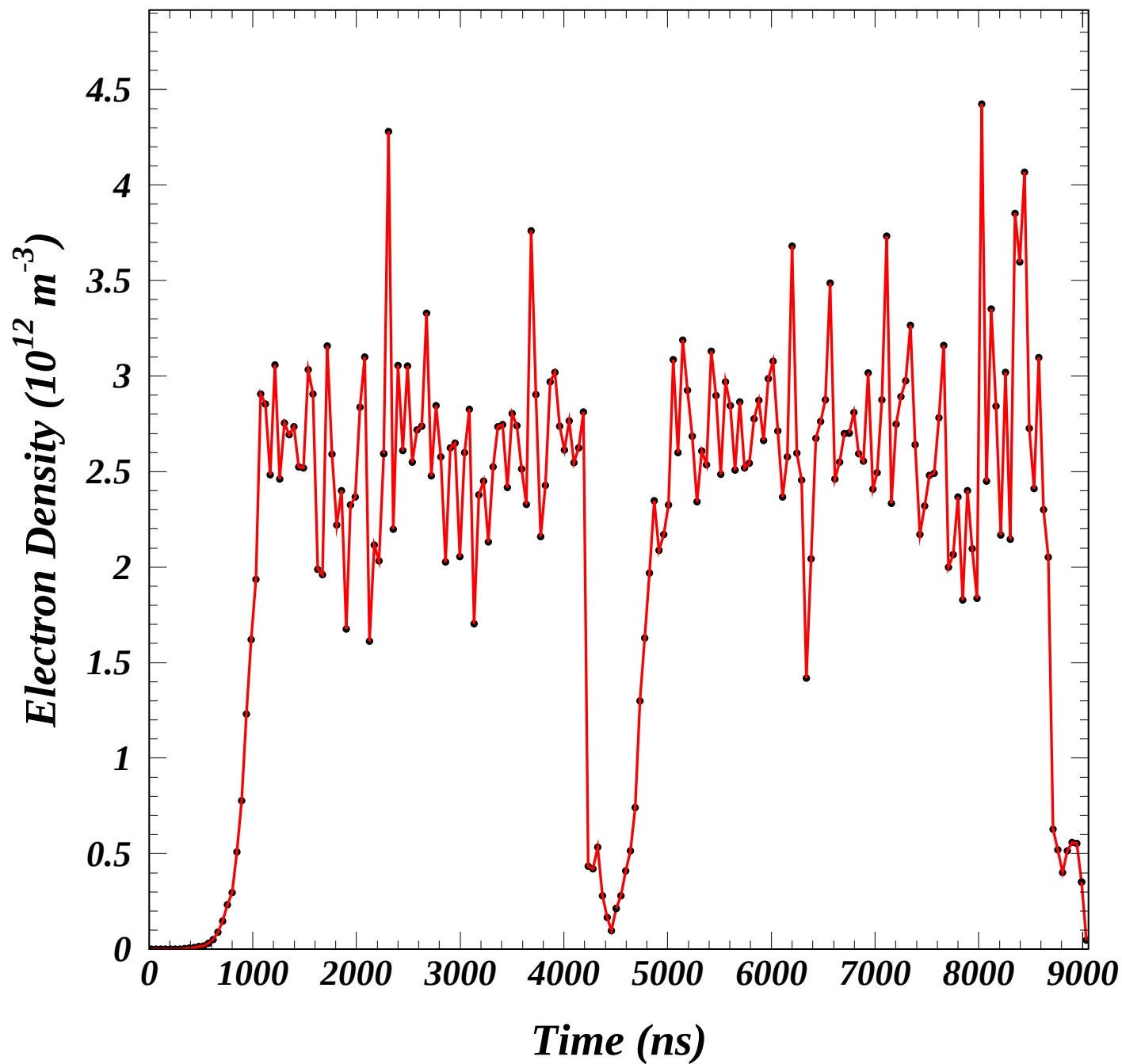
Beampipe-averaged Cloud Density (10^{12} m^{-3}) 10/05/04 13.19

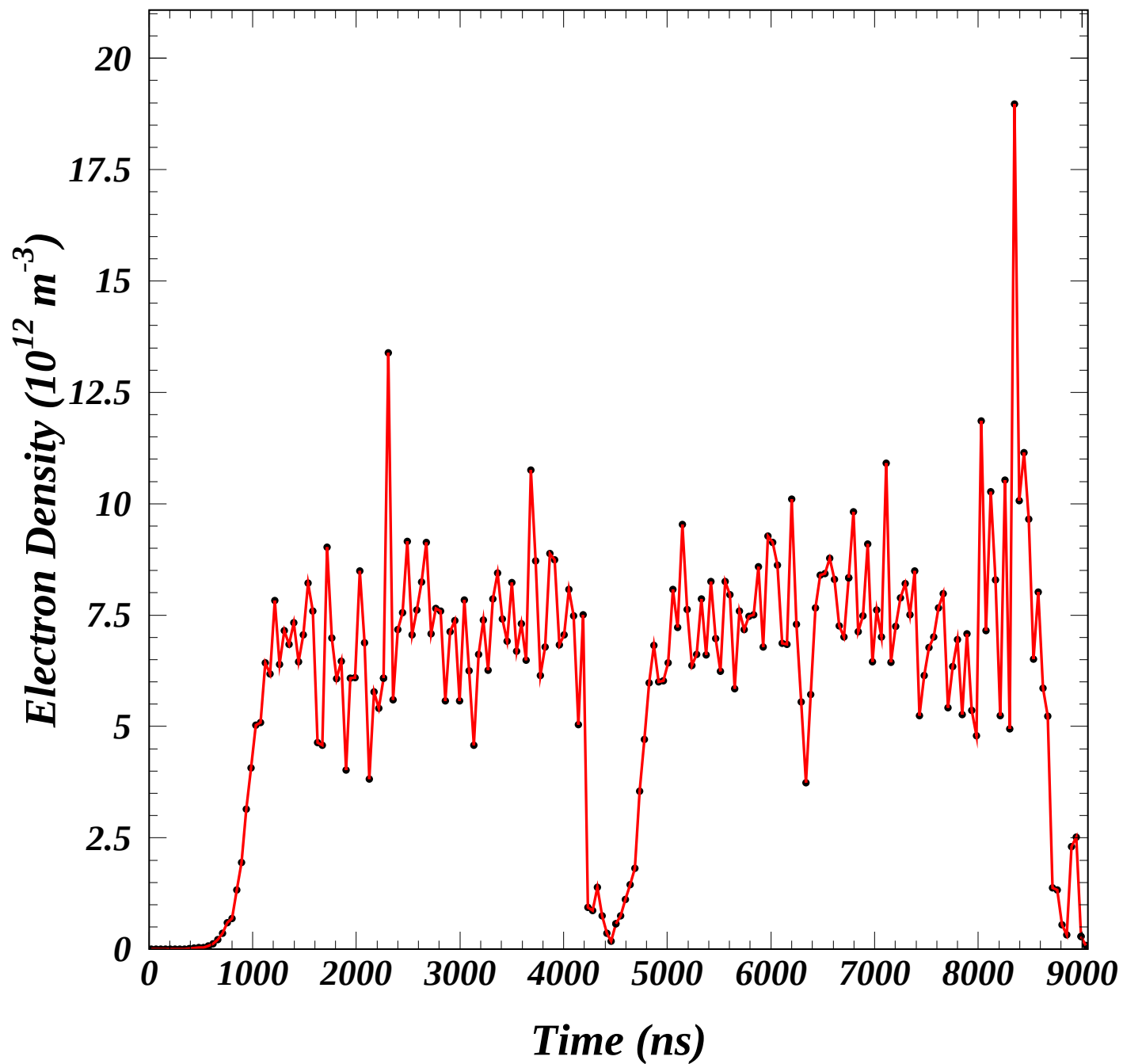


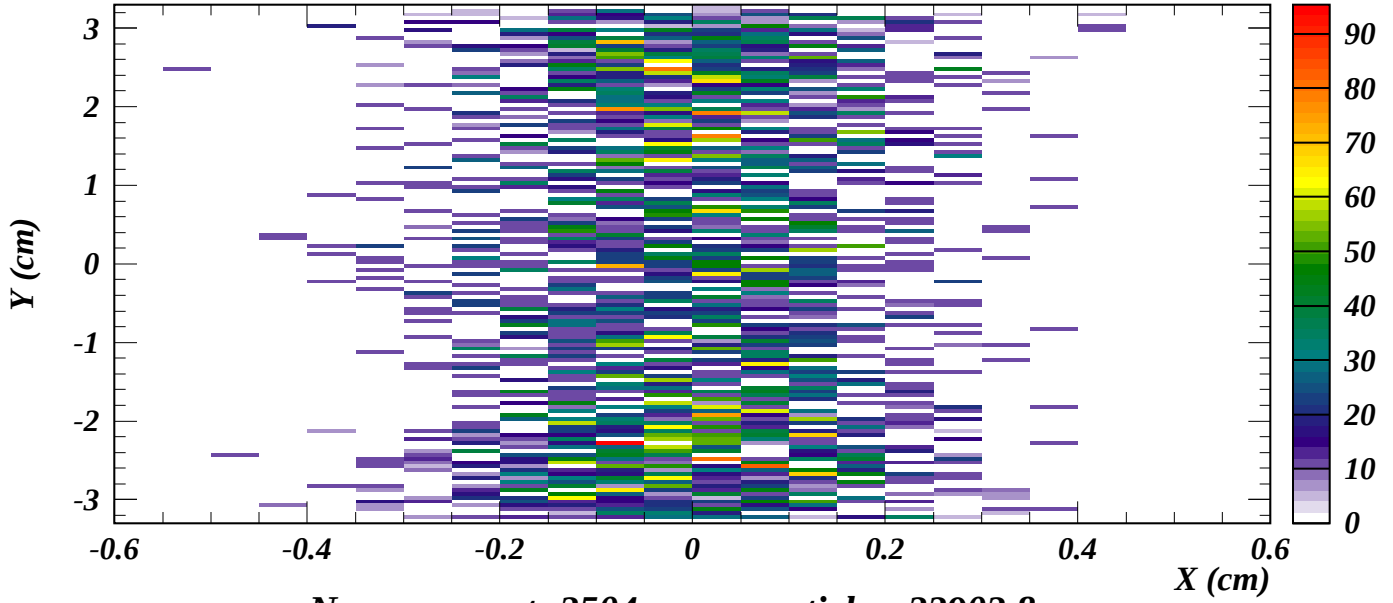
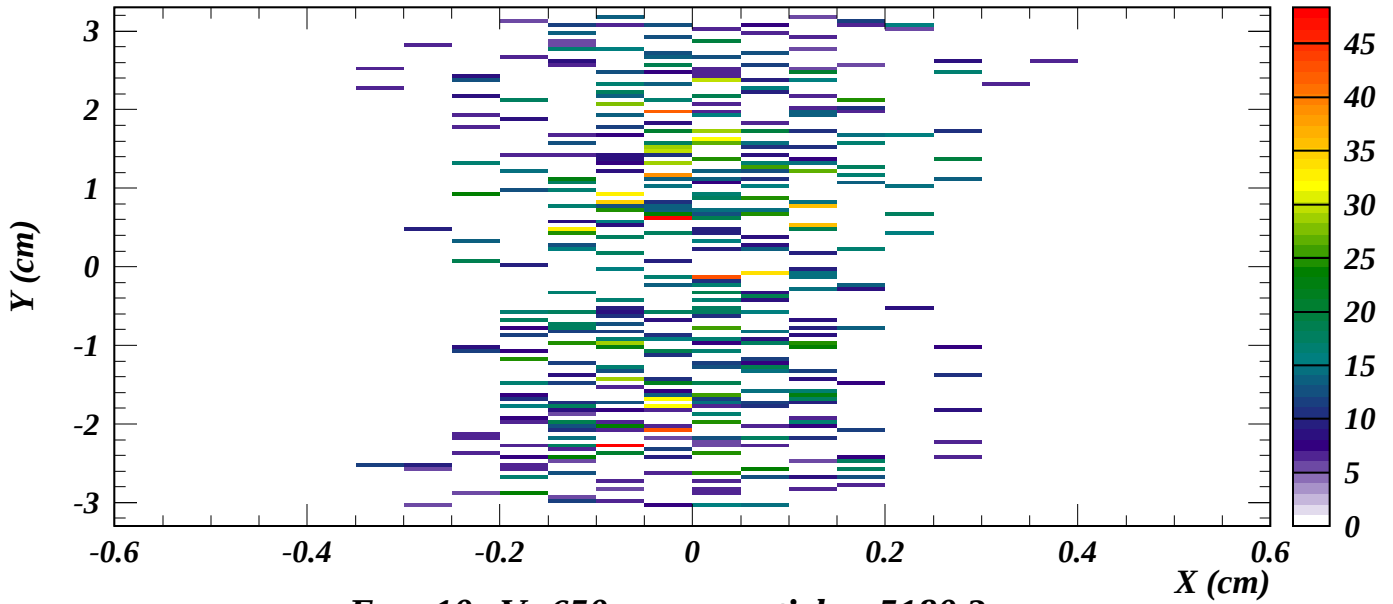
Macroparticle Statistics

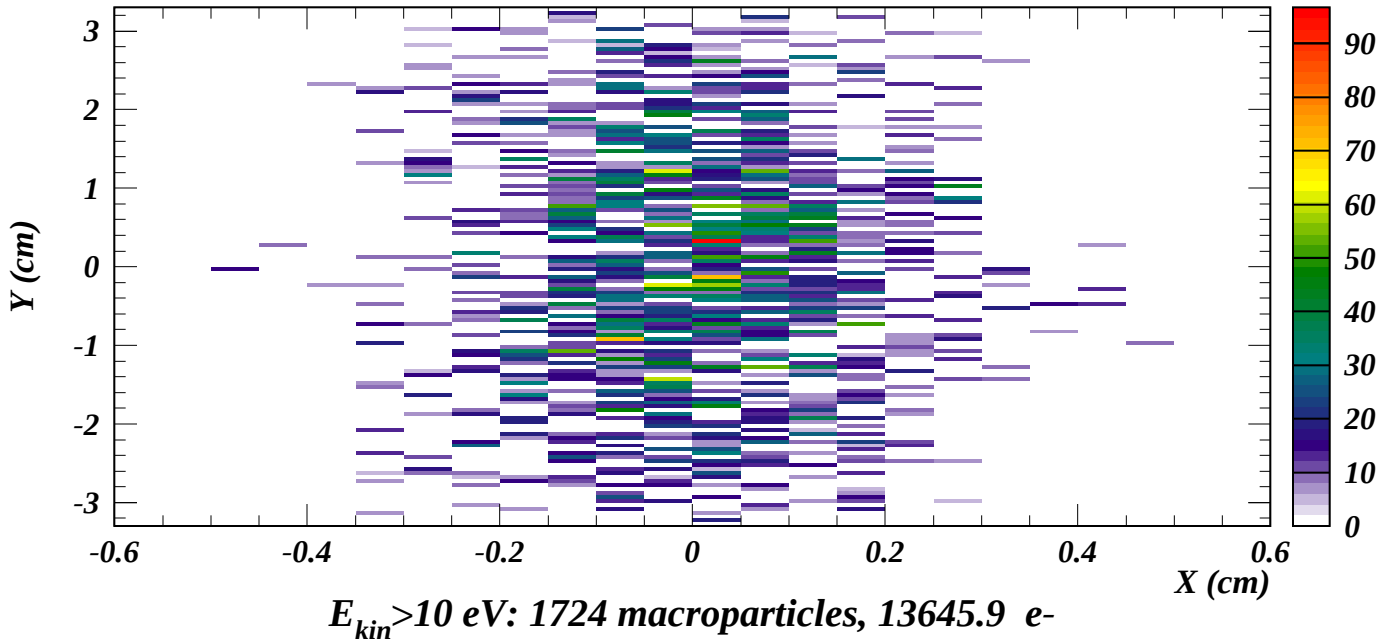
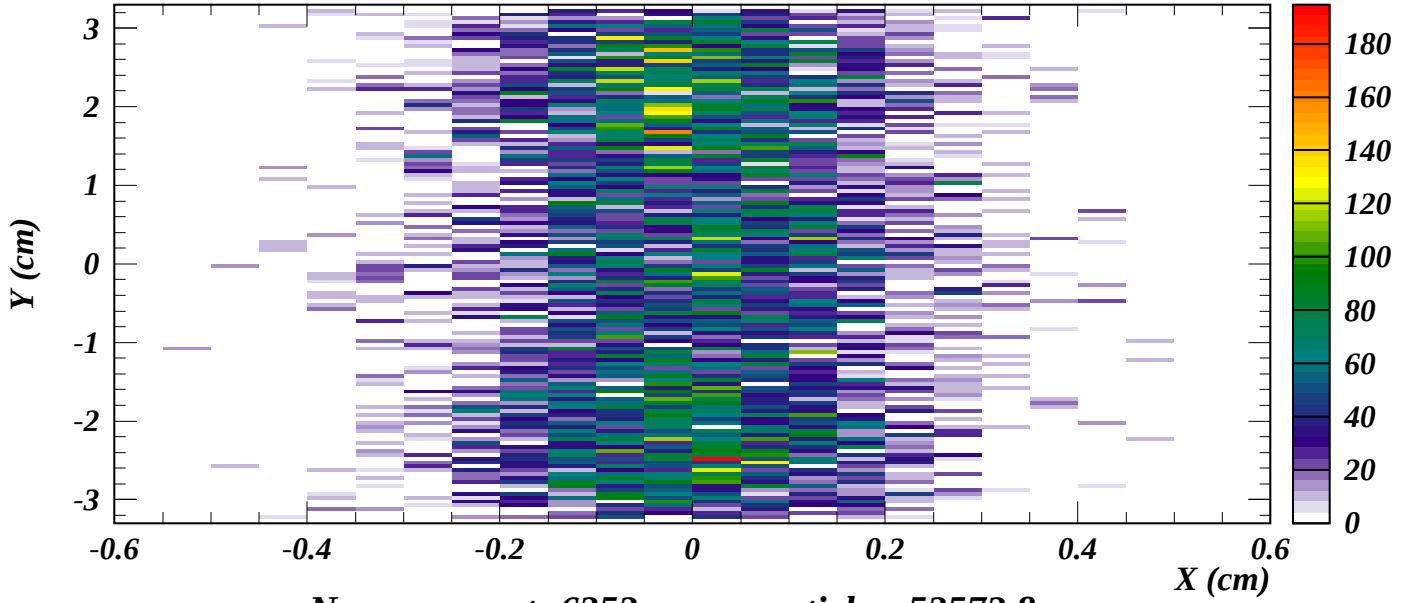


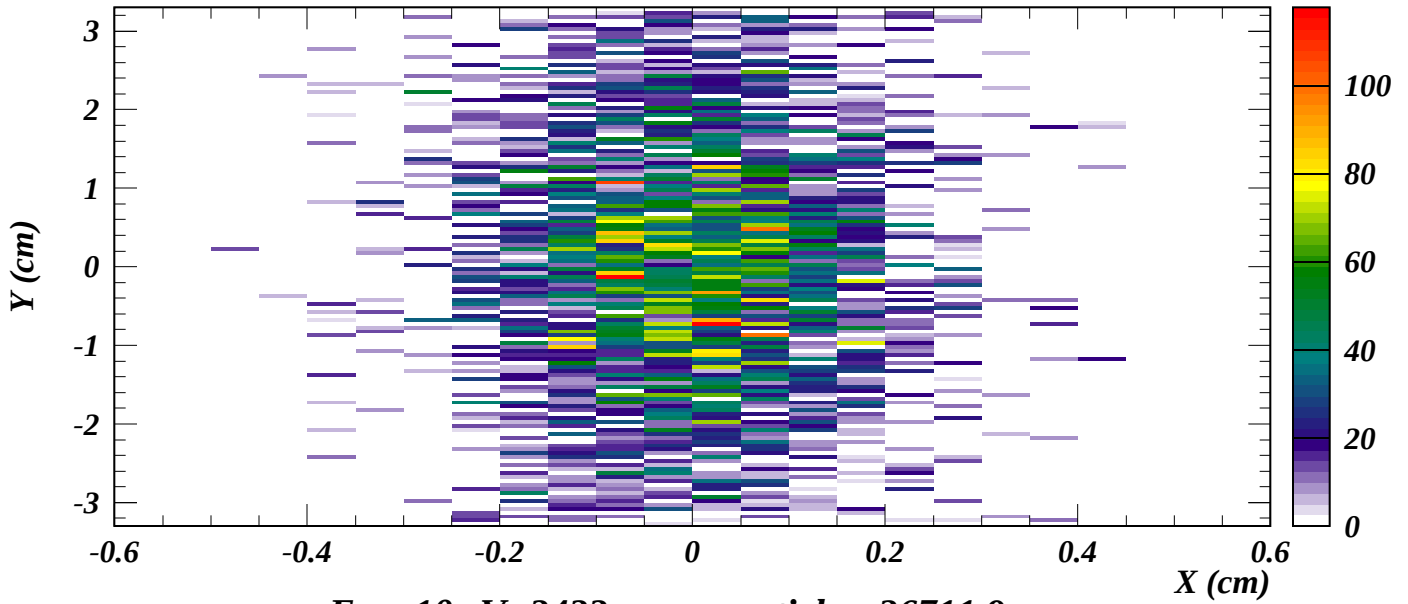
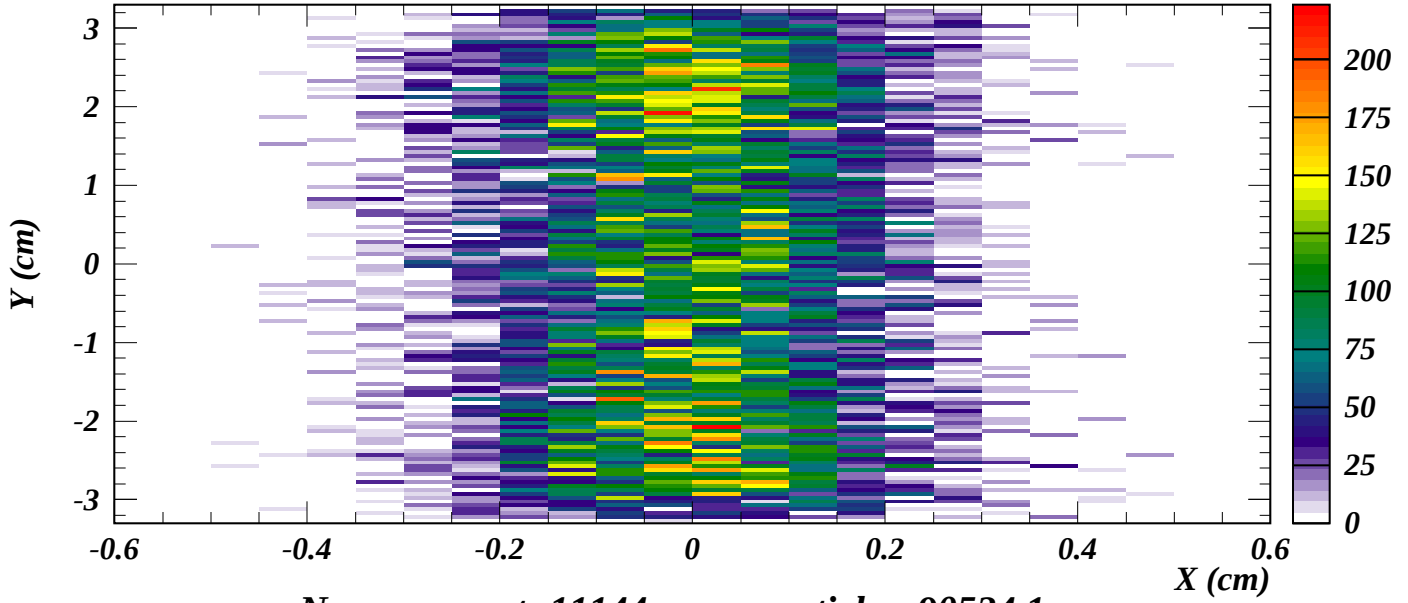
Beam-averaged Cloud Density (10^{12} m^{-3})

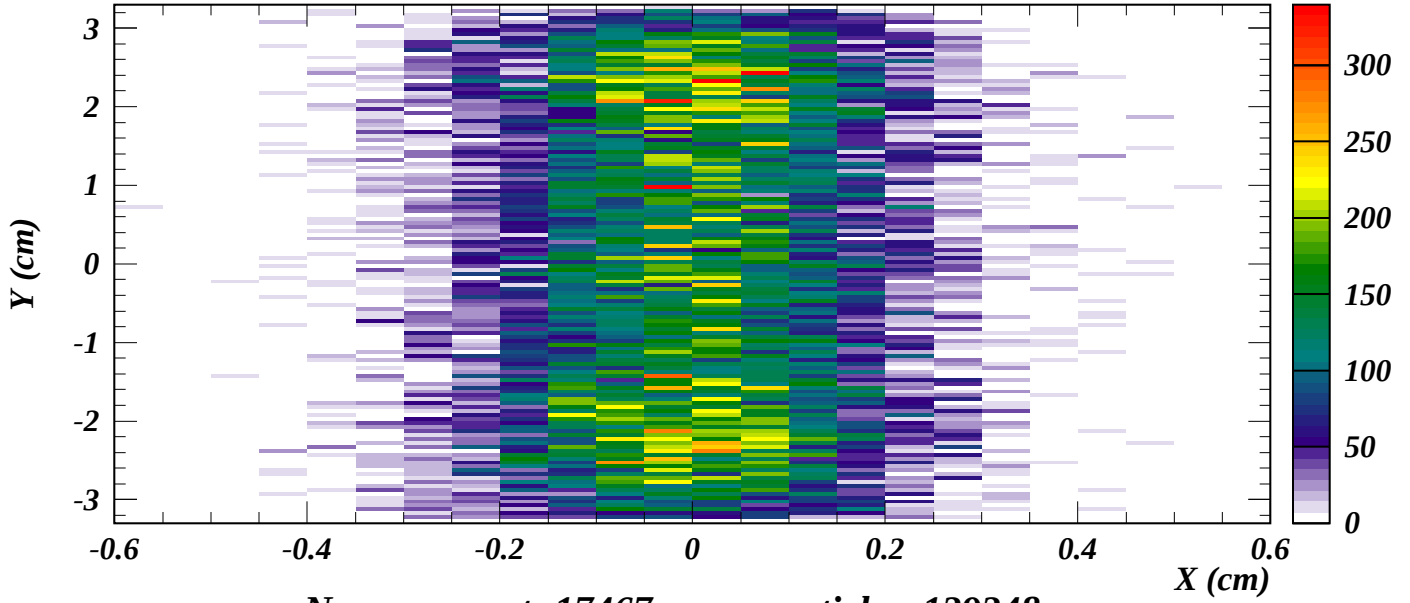
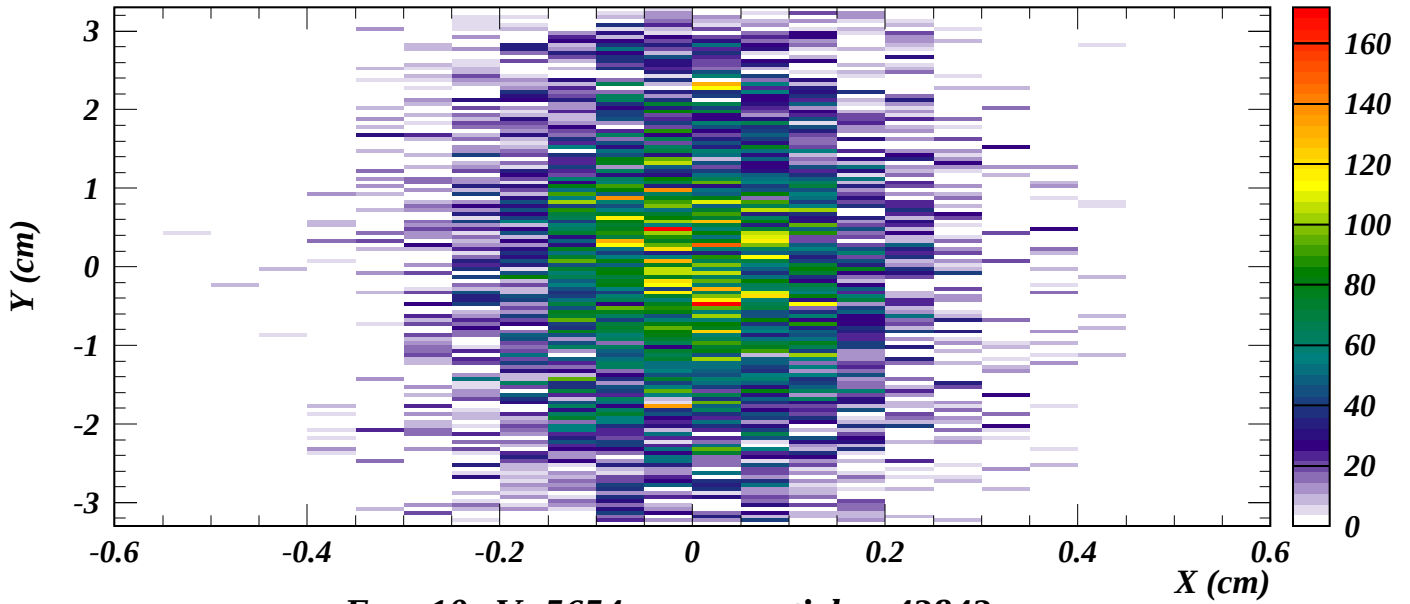
5-Sigma Cloud Density at Center of Pipe (10^{12} m^{-3})

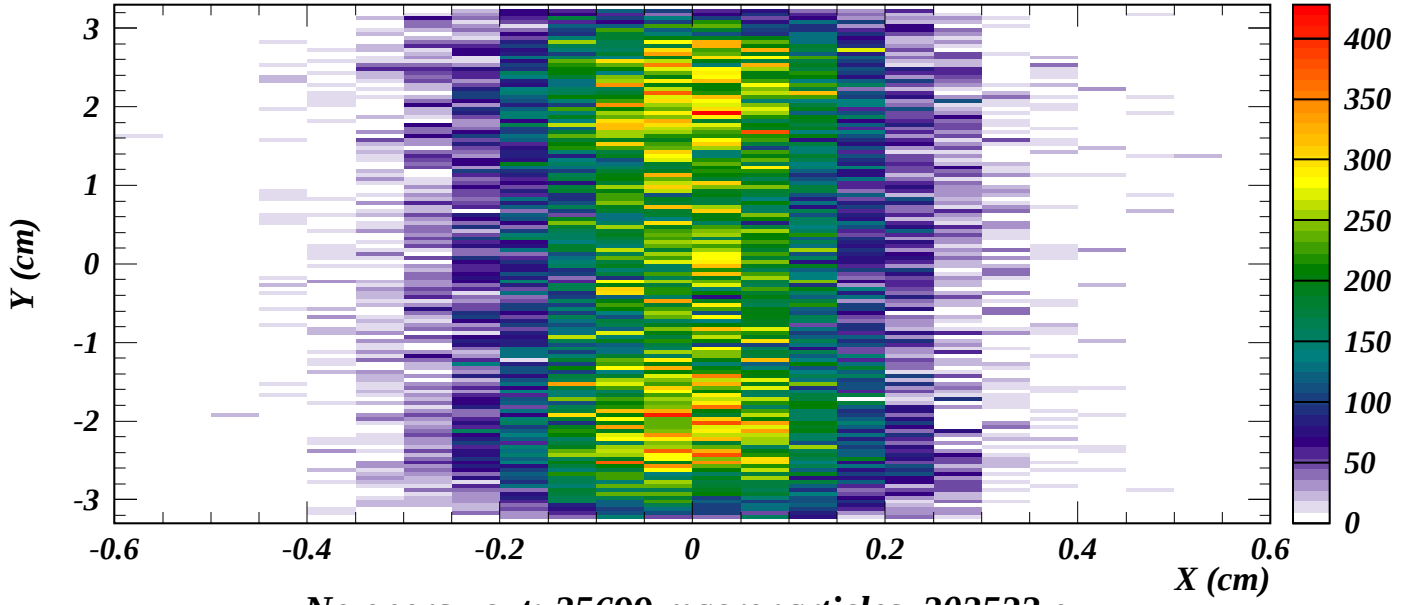
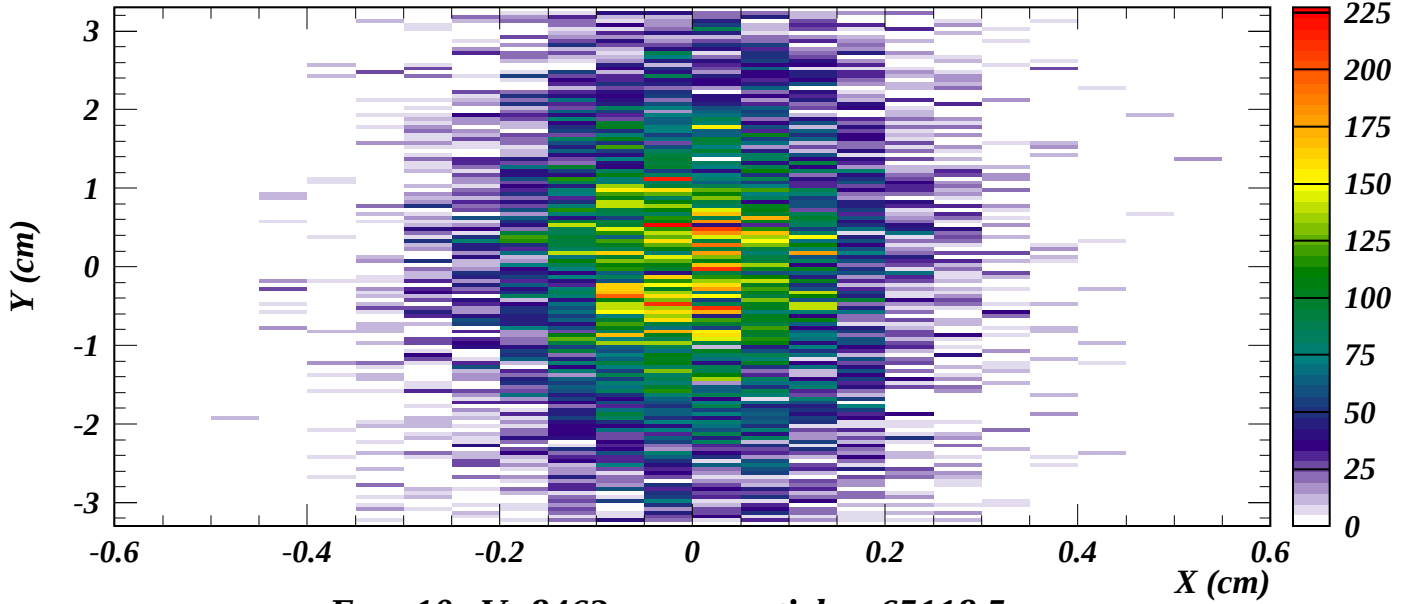
Job 15893: Cloud Density in Central Grid Cell (10^{12} m^{-3})

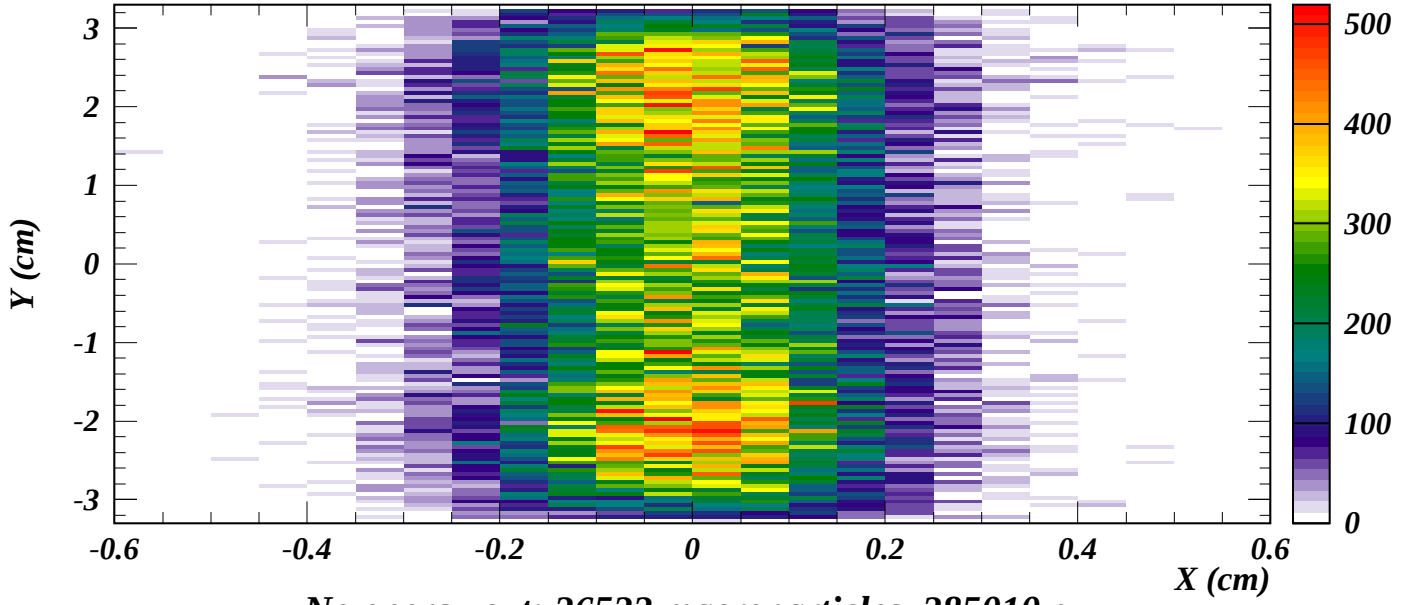
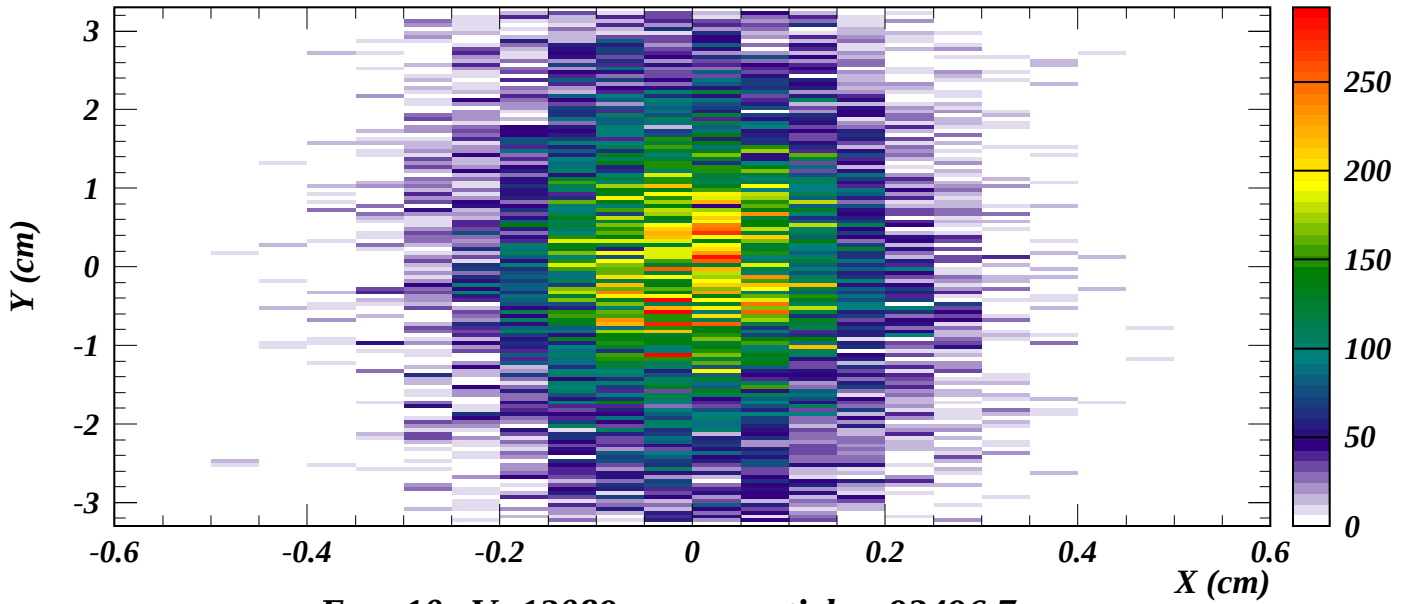
Cloud charge snapshot after bunch 1 at time = 24.933 ns*No energy cut: 2504 macroparticles, 22903.8 e-* *$E_{kin} > 10$ eV: 650 macroparticles, 5180.3 e-*

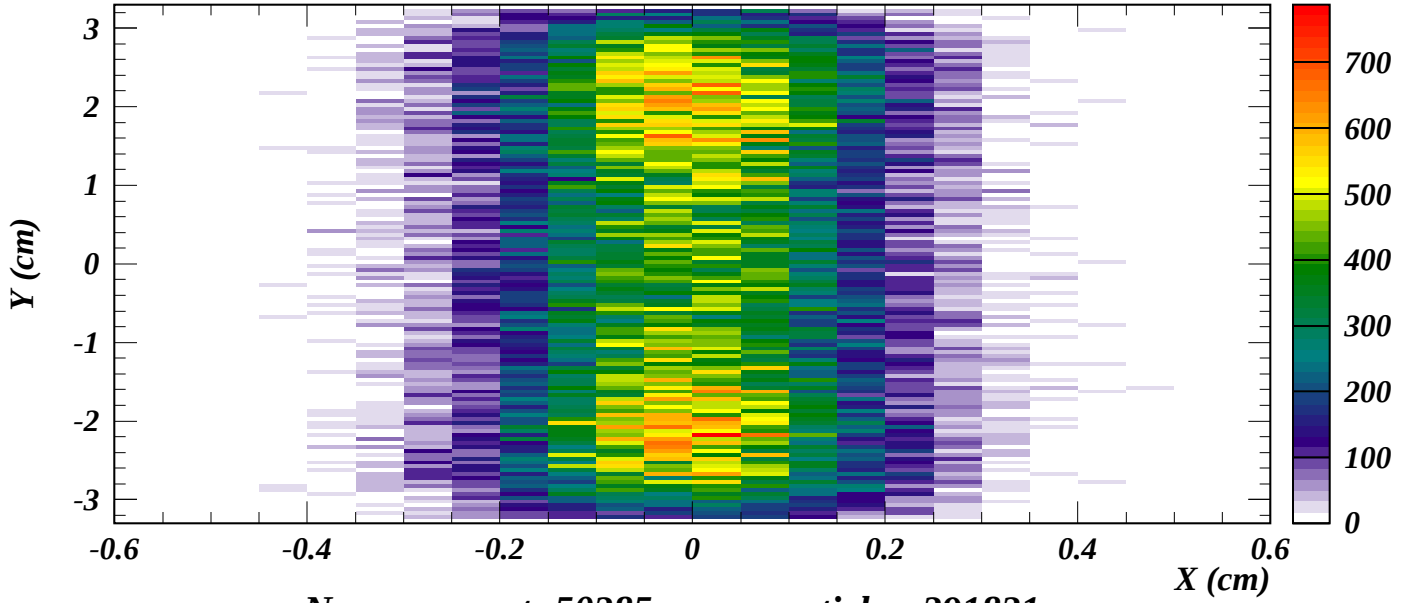
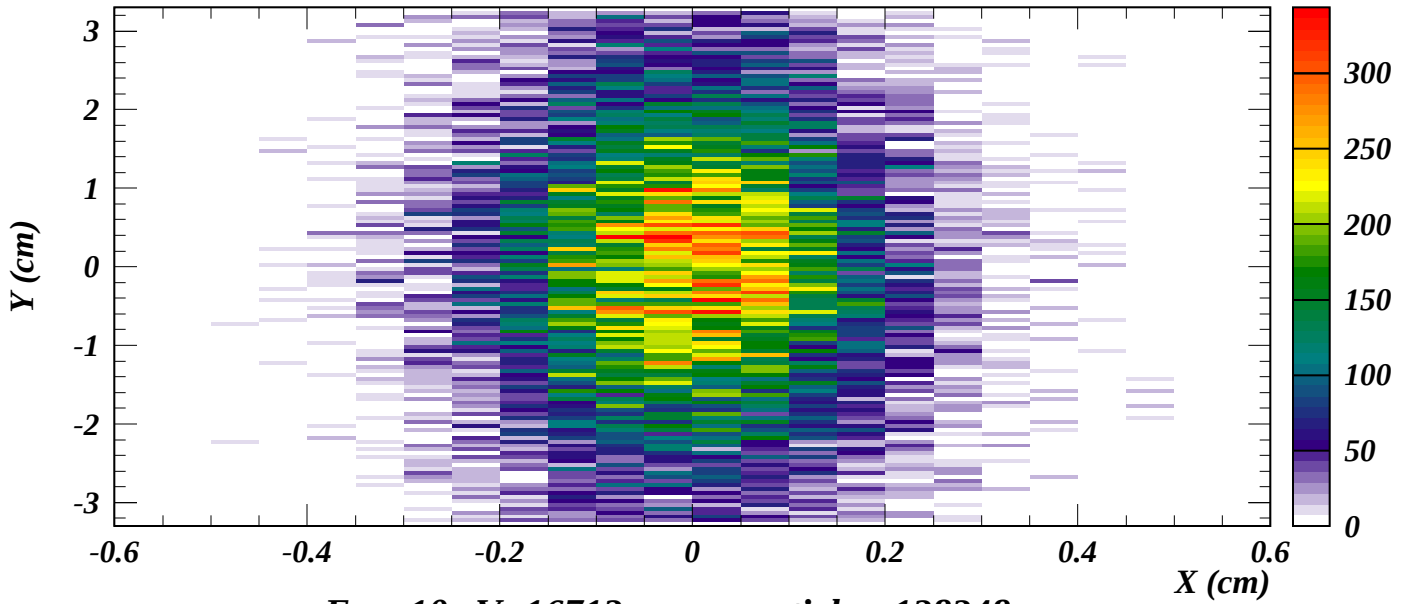
Cloud charge snapshot after bunch 2 at time = 49.867 ns

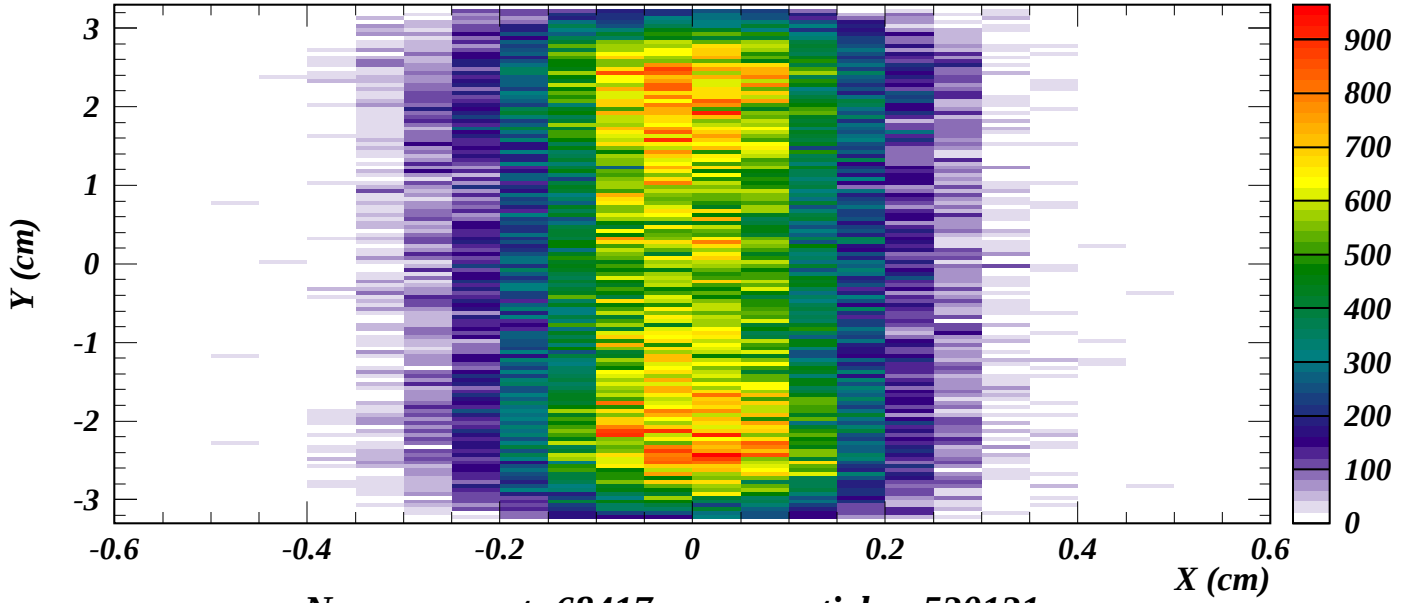
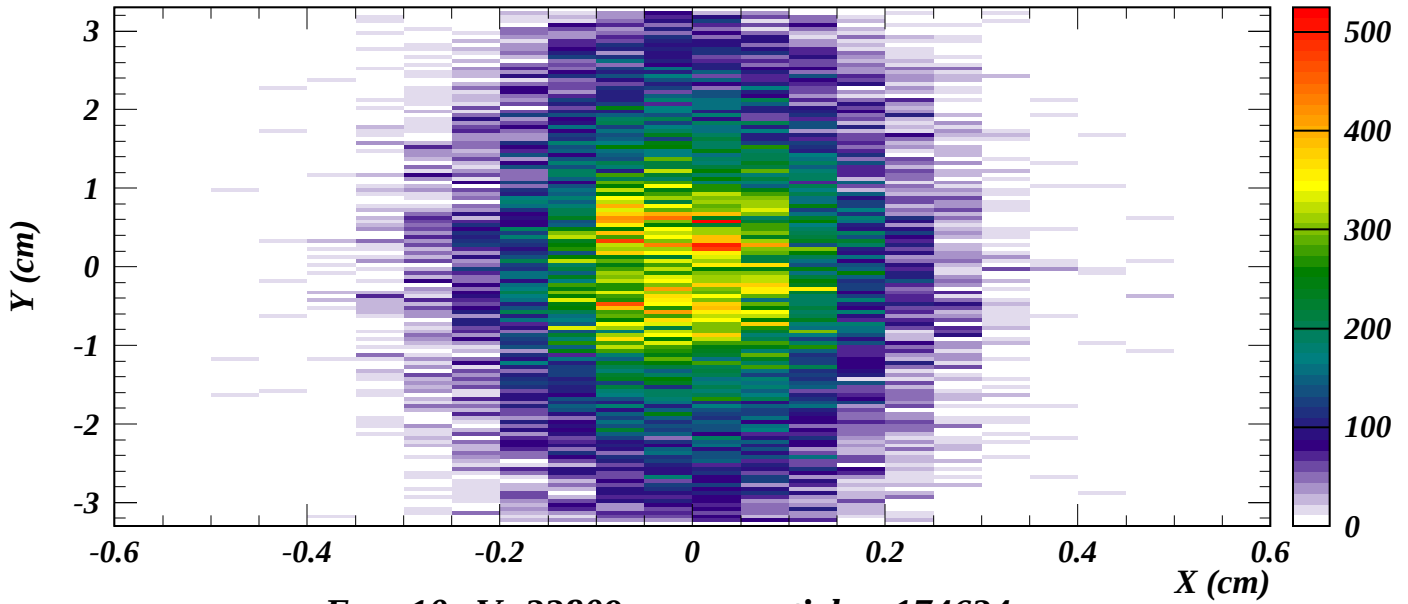
Cloud charge snapshot after bunch 3 at time = 74.8 ns

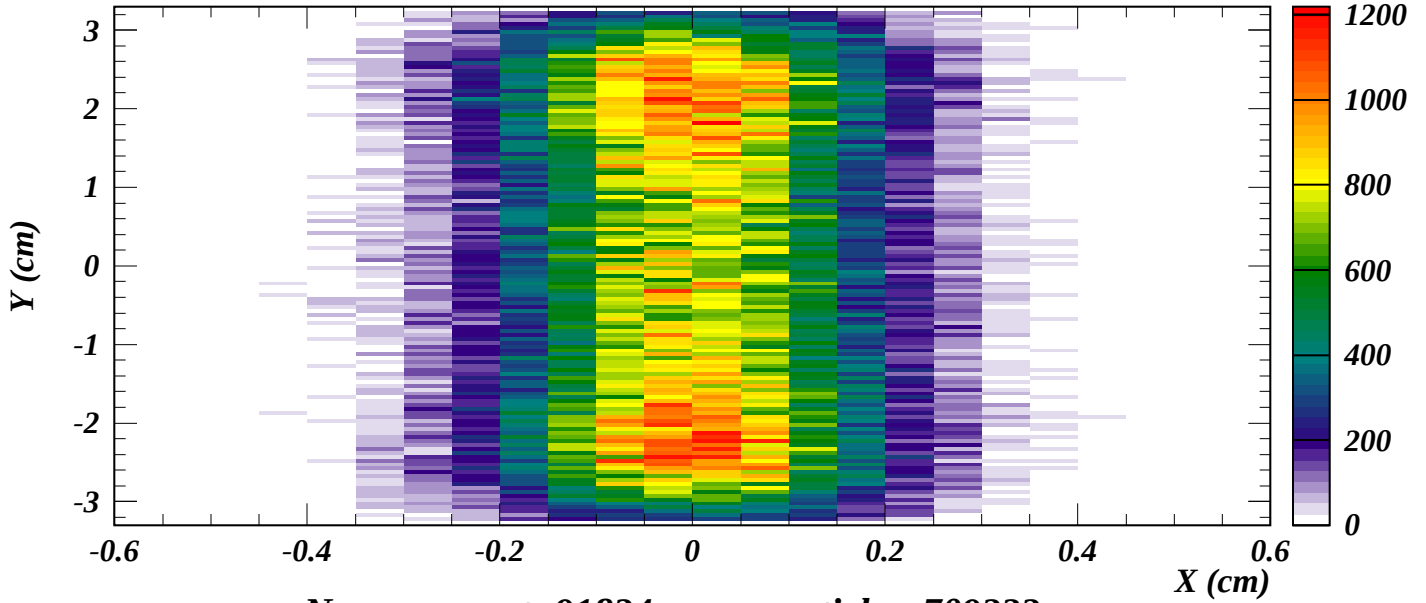
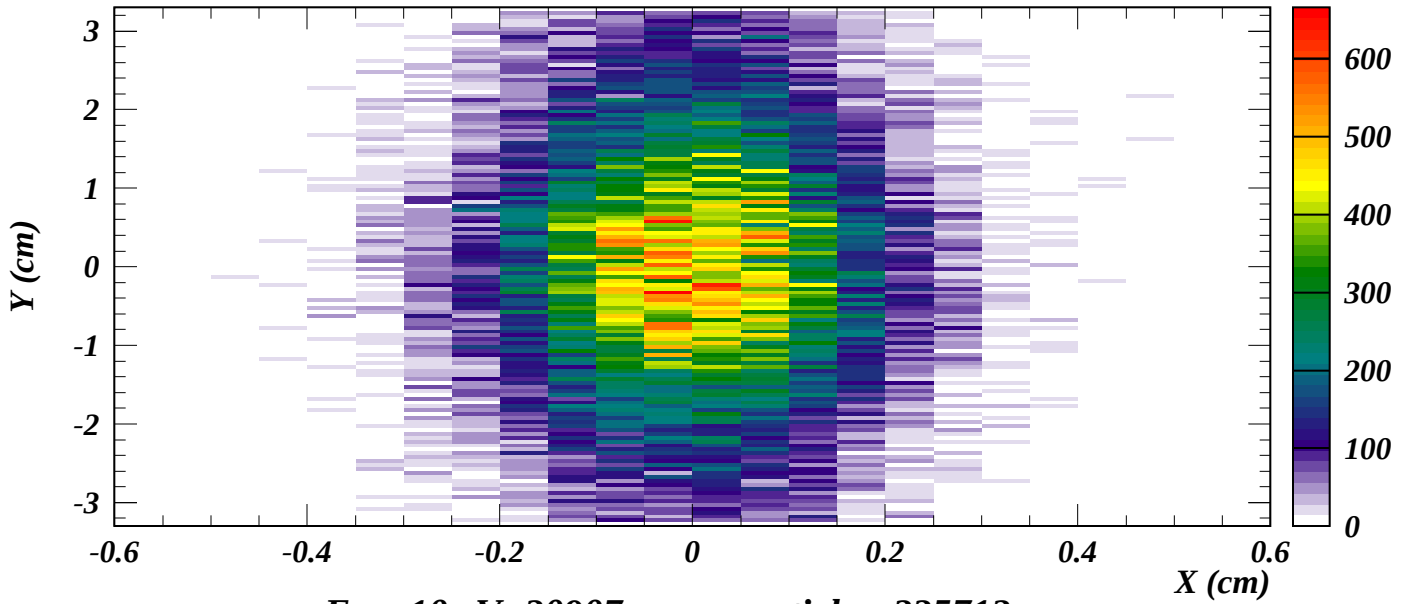
Cloud charge snapshot after bunch 4 at time = 99.733 ns*No energy cut: 17467 macroparticles, 139348 e-* *$E_{kin} > 10$ eV: 5654 macroparticles, 43842 e-*

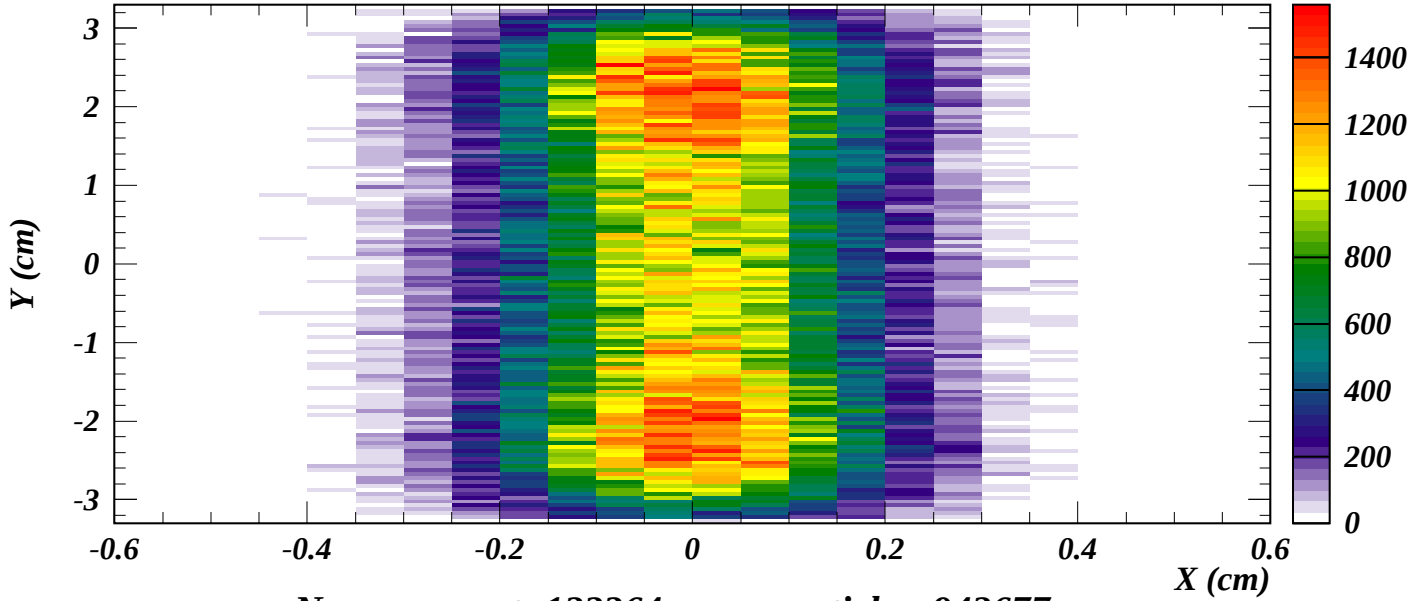
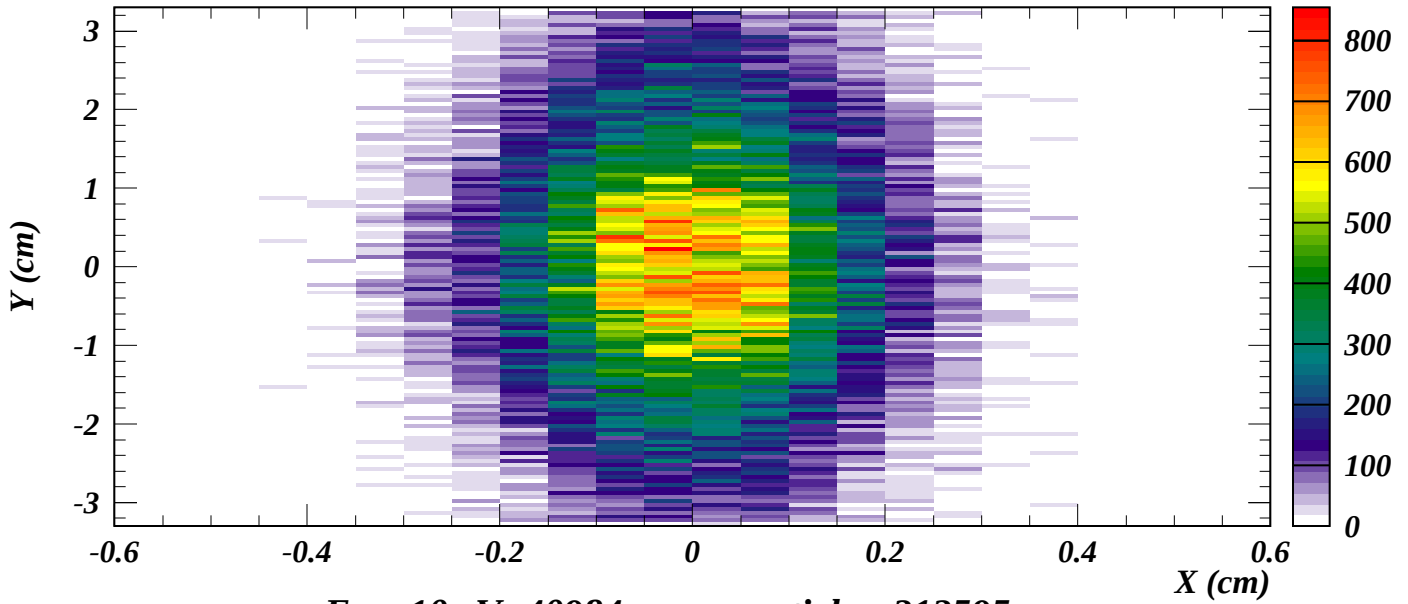
Cloud charge snapshot after bunch 5 at time = 124.67 ns*No energy cut: 25699 macroparticles, 202532 e-* *$E_{kin} > 10 \text{ eV}$: 8462 macroparticles, 65118.5 e-*

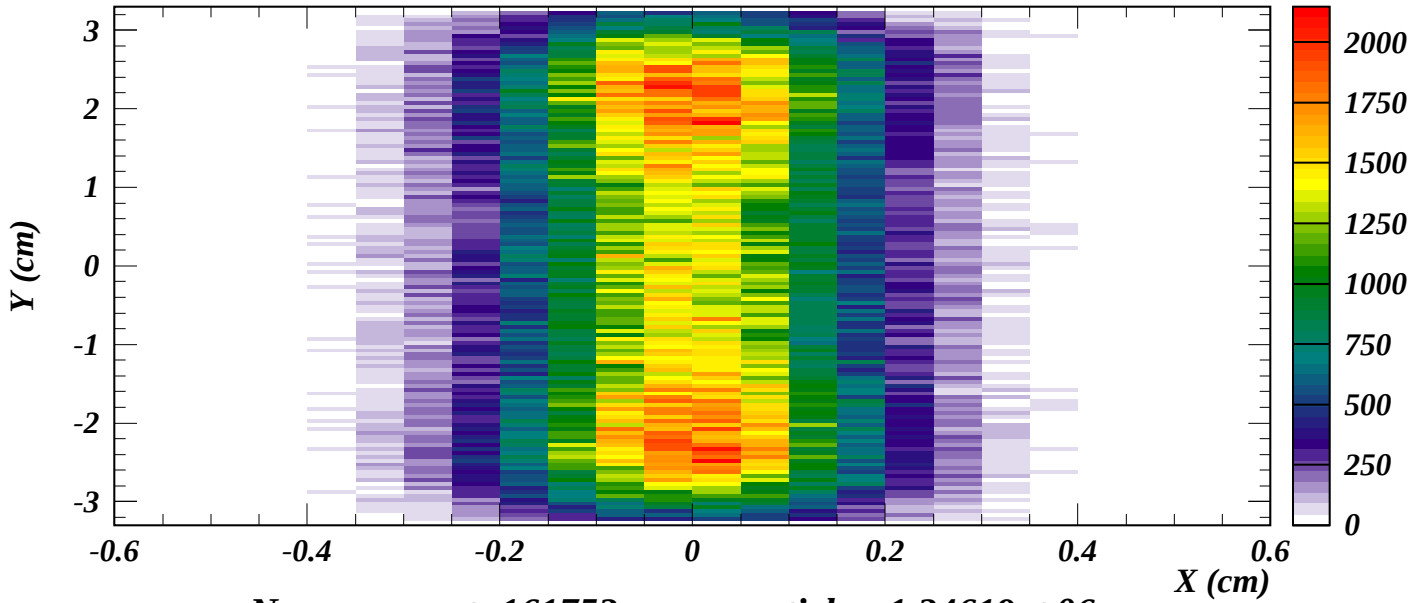
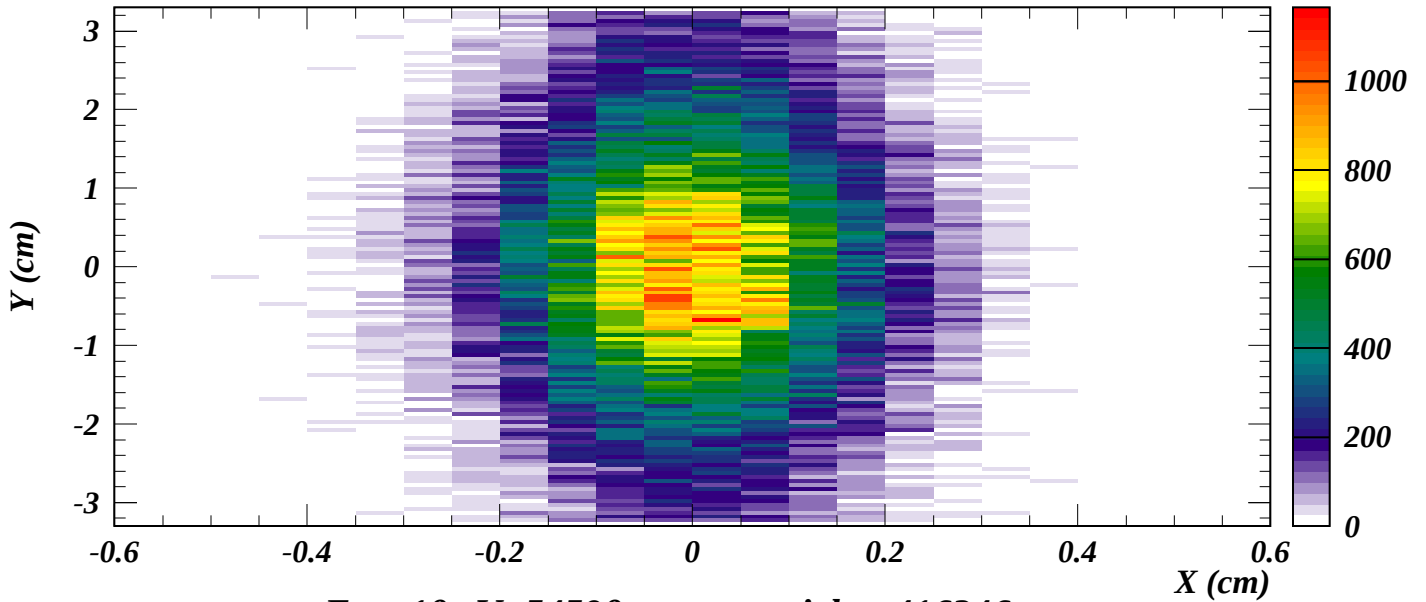
Cloud charge snapshot after bunch 6 at time = 149.6 ns*No energy cut: 36532 macroparticles, 285010 e-* *$E_{\text{kin}} > 10 \text{ eV}$: 12089 macroparticles, 92496.7 e-*

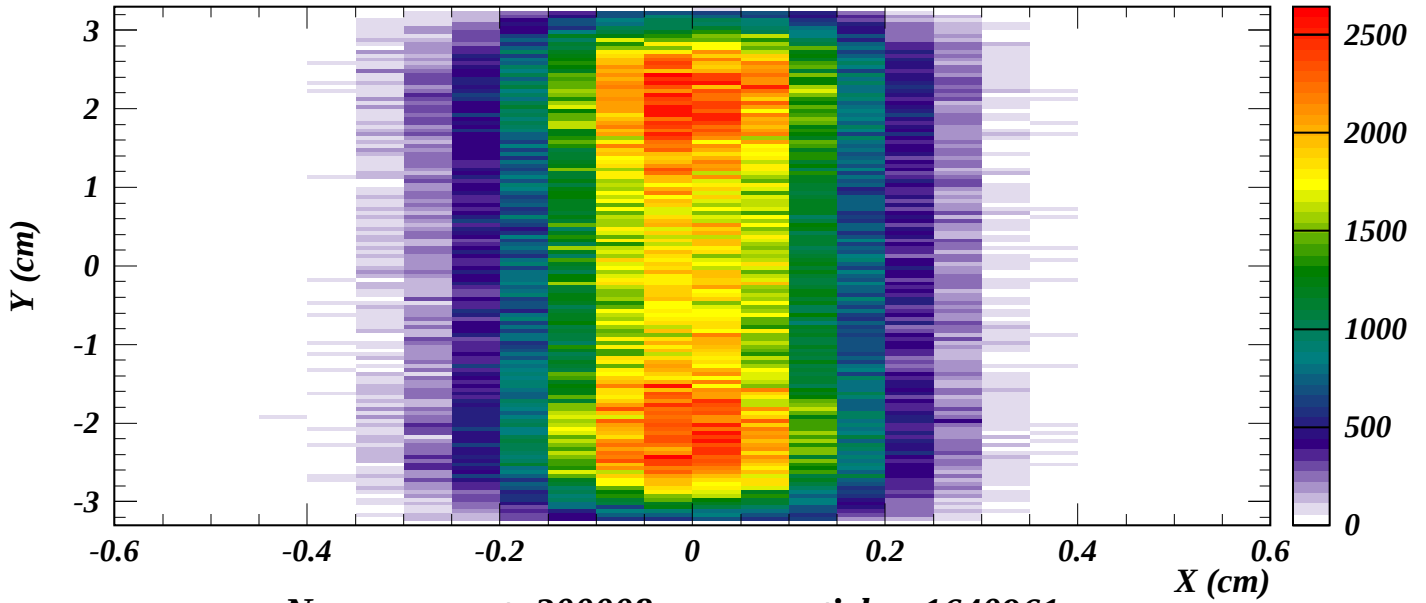
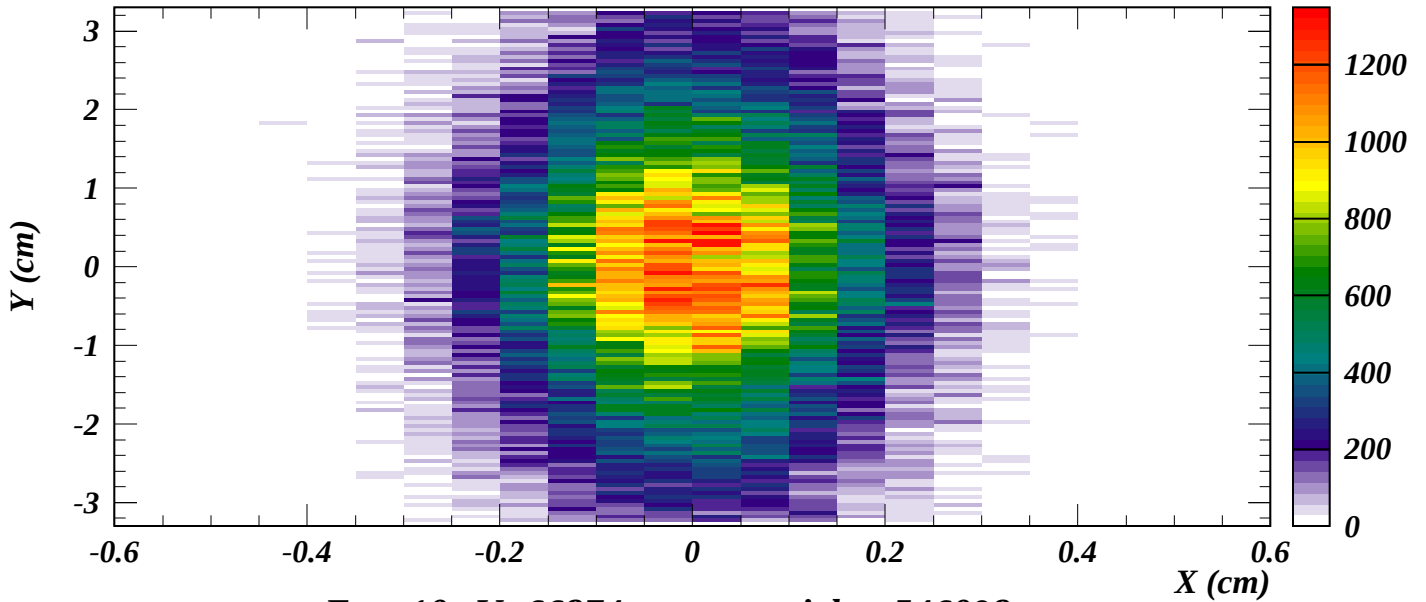
Cloud charge snapshot after bunch 7 at time = 174.53 ns*No energy cut: 50385 macroparticles, 391821 e-* *$E_{kin} > 10 \text{ eV}$: 16713 macroparticles, 128348 e-*

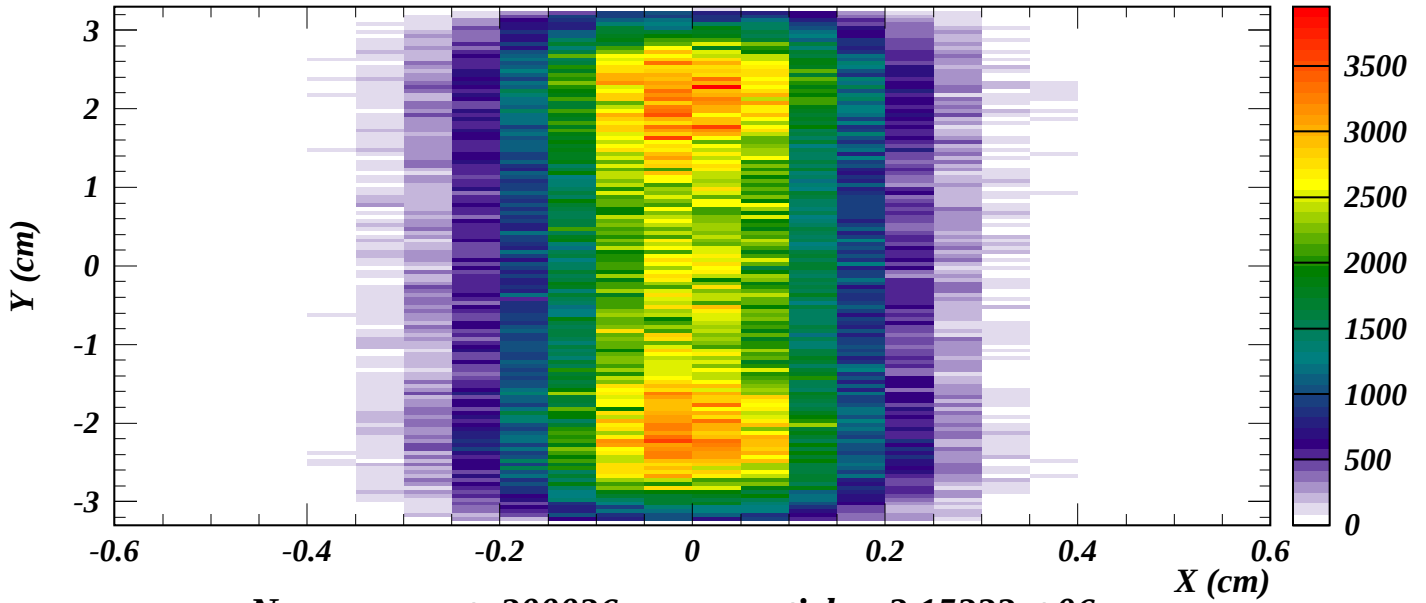
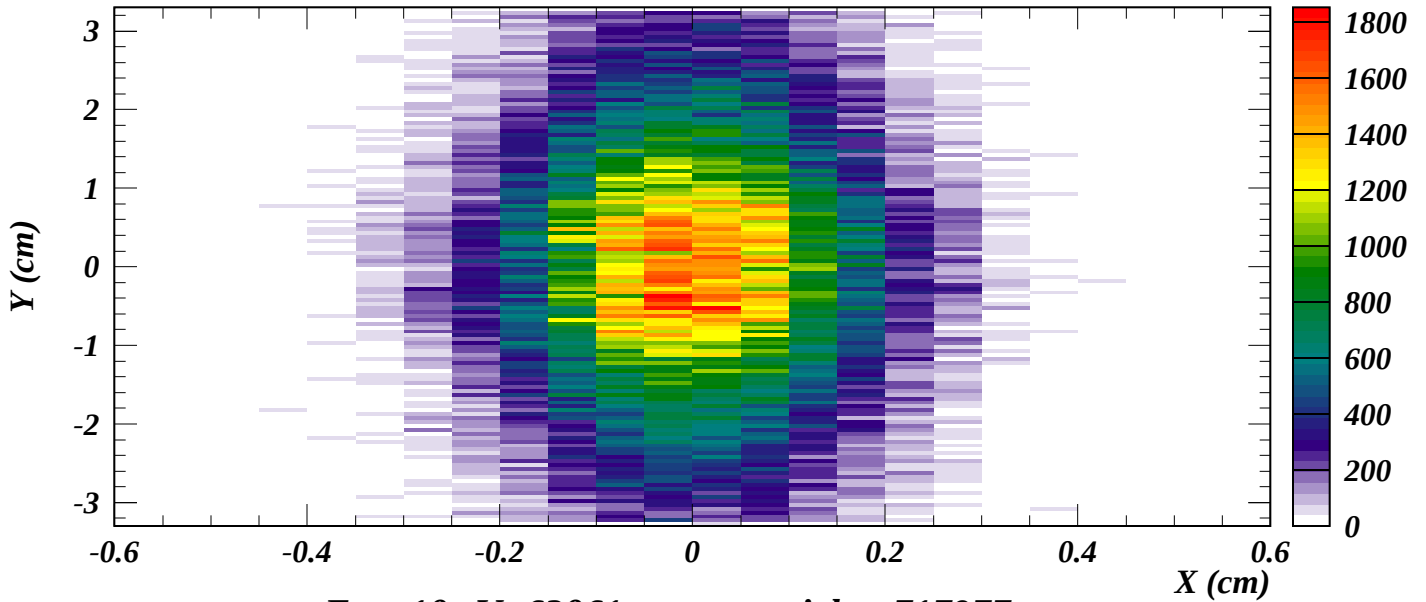
Cloud charge snapshot after bunch 8 at time = 199.47 ns*No energy cut: 68417 macroparticles, 530131 e-* *$E_{kin} > 10 \text{ eV}$: 22809 macroparticles, 174634 e-*

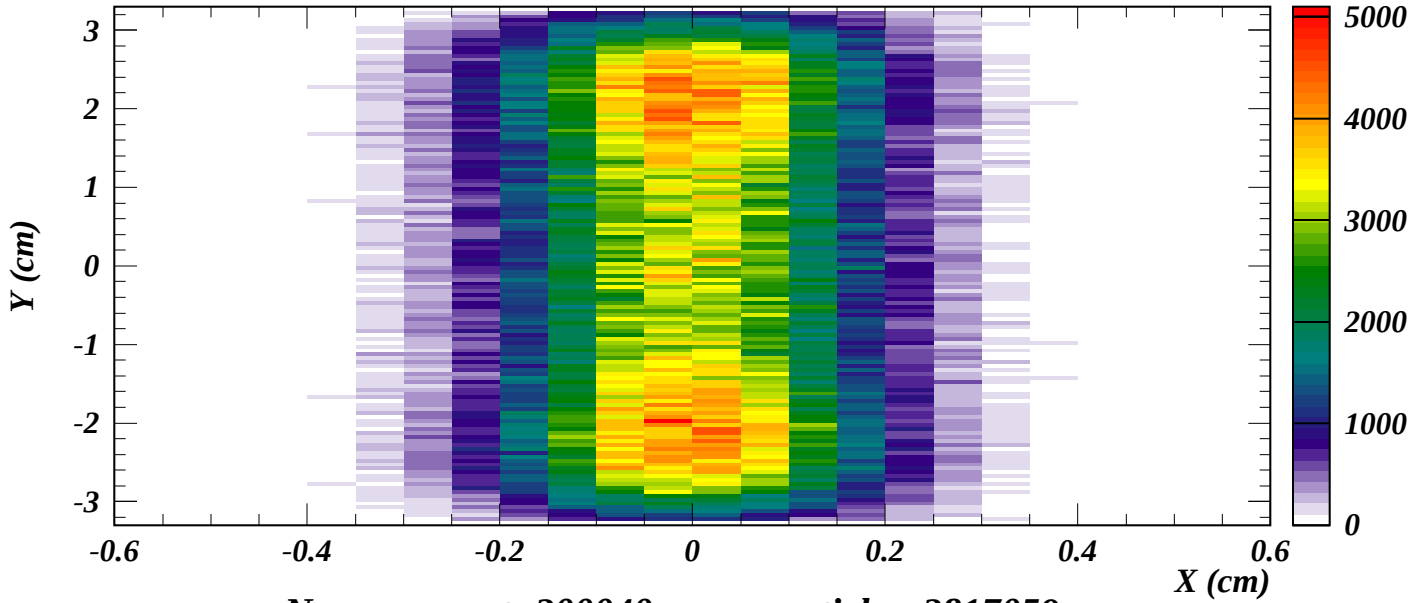
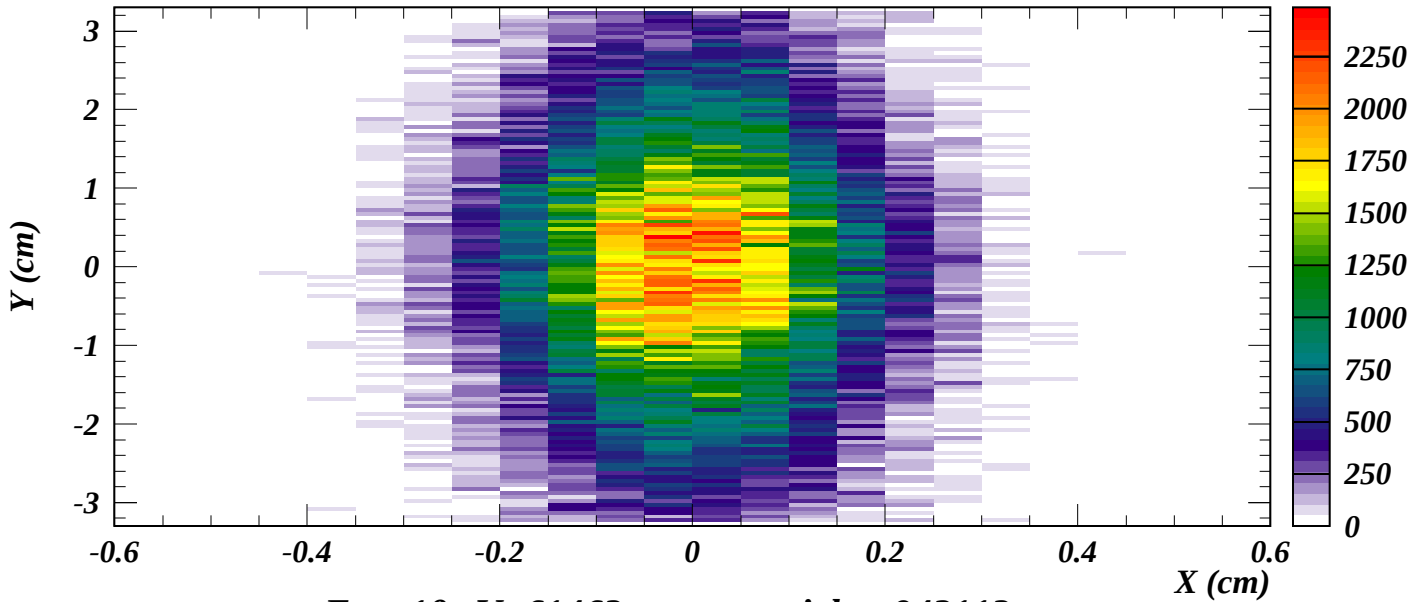
Cloud charge snapshot after bunch 9 at time = 224.4 ns*No energy cut: 91834 macroparticles, 709333 e-* *$E_{kin} > 10 \text{ eV}$: 30907 macroparticles, 235712 e-*

Cloud charge snapshot after bunch 10 at time = 249.33 ns*No energy cut: 122364 macroparticles, 942677 e-* *$E_{kin} > 10 \text{ eV}$: 40984 macroparticles, 312595 e-*

Cloud charge snapshot after bunch 11 at time = 274.27 ns*No energy cut: 161753 macroparticles, $1.24619\text{e}+06 \text{ e-}$*  *$E_{\text{kin}} > 10 \text{ eV}$: 54590 macroparticles, 416346 e-*

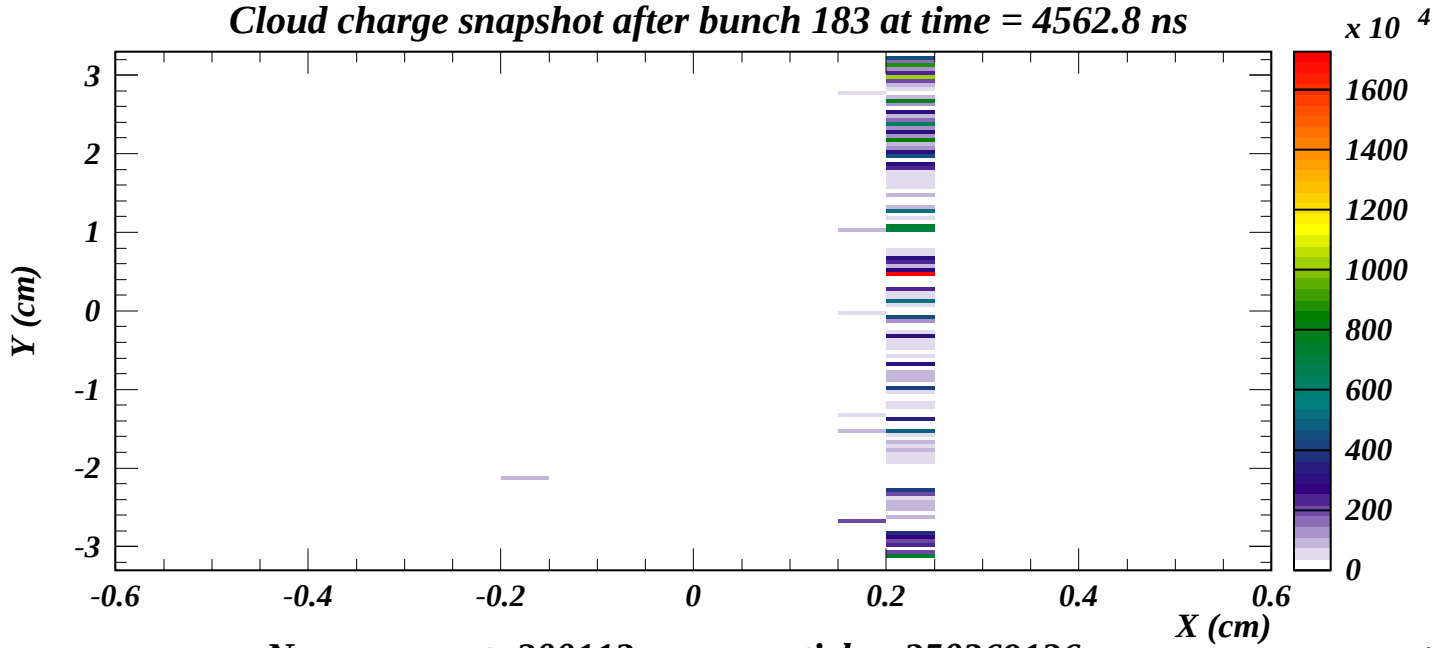
Cloud charge snapshot after bunch 12 at time = 299.2 ns*No energy cut: 200008 macroparticles, 1640961 e-* *$E_{kin} > 10 \text{ eV}$: 66874 macroparticles, 546098 e-*

Cloud charge snapshot after bunch 13 at time = 324.13 ns*No energy cut: 200036 macroparticles, $2.15333\text{e}+06 \text{ e-}$*  *$E_{\text{kin}} > 10 \text{ eV}$: 63061 macroparticles, 717977 e-*

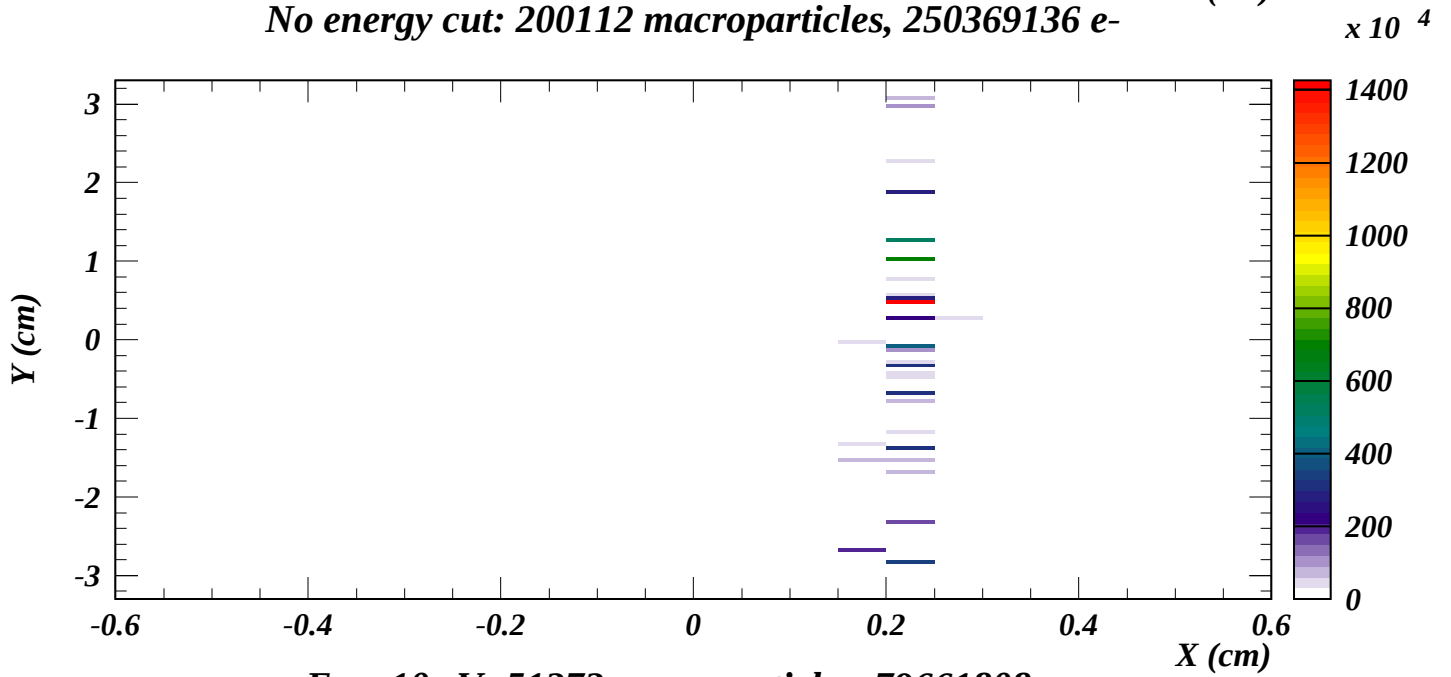
Cloud charge snapshot after bunch 14 at time = 349.07 ns*No energy cut: 200040 macroparticles, 2817059 e-* *$E_{kin} > 10$ eV: 61463 macroparticles, 942113 e-*

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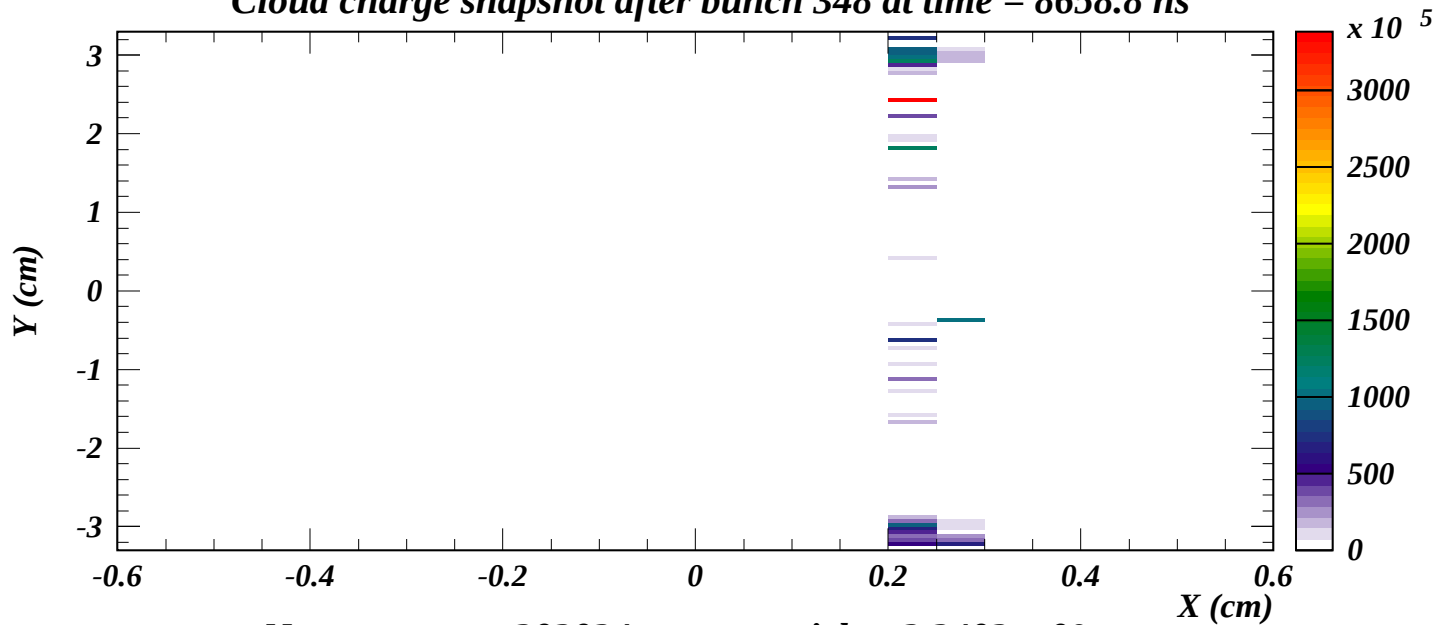
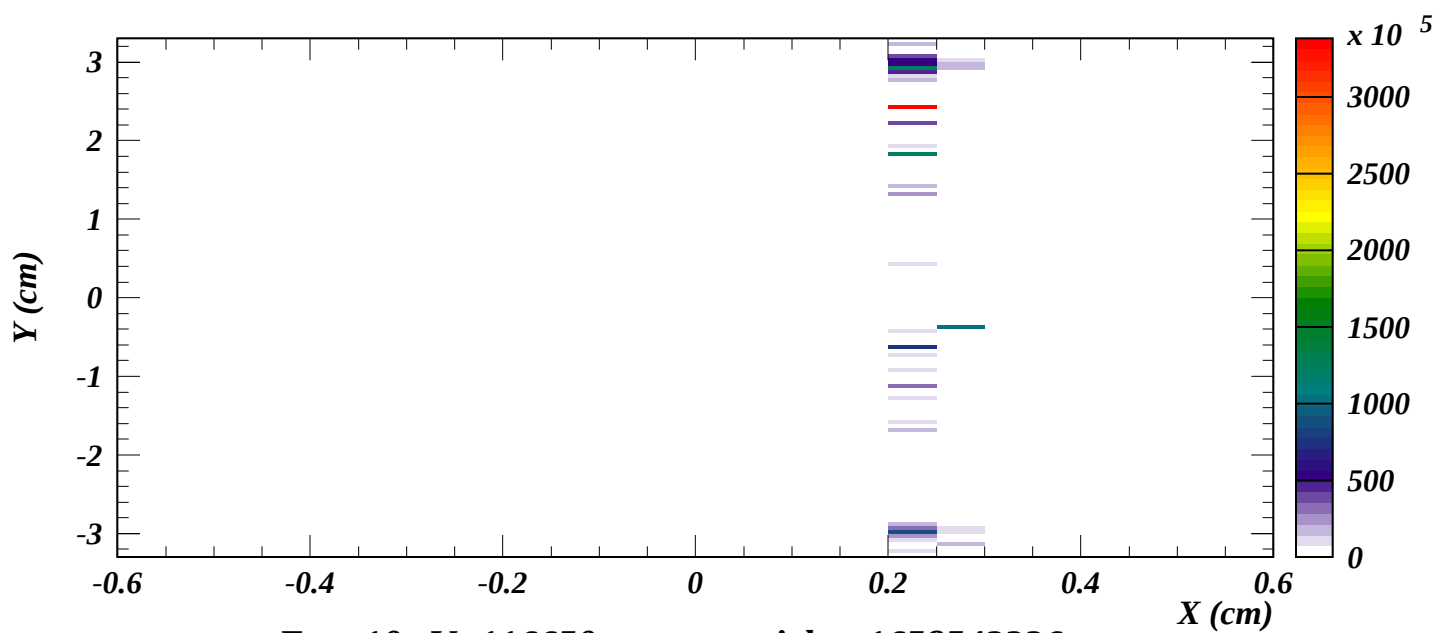
Cloud charge snapshot after bunch 183 at time = 4562.8 ns



No energy cut: 200112 macroparticles, 250369136 e-

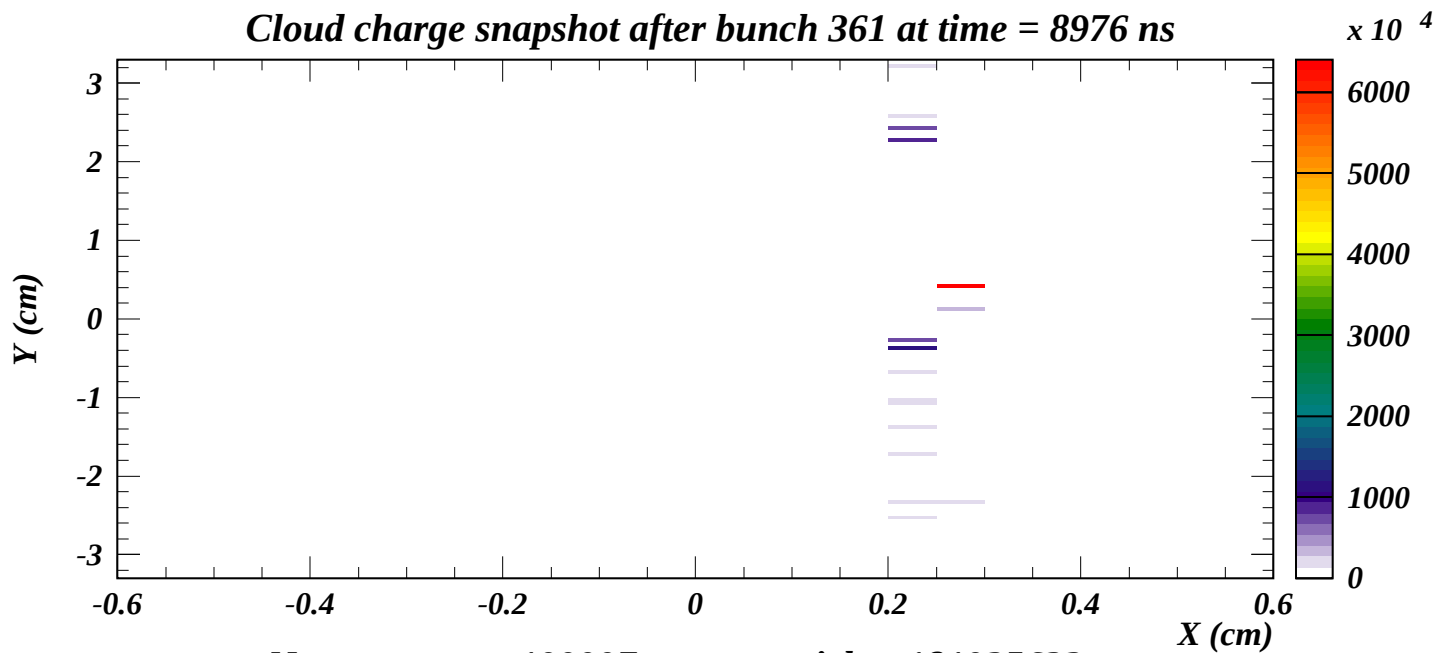


$E_{\text{kin}} > 10 \text{ eV}$: 51272 macroparticles, 79661808 e-

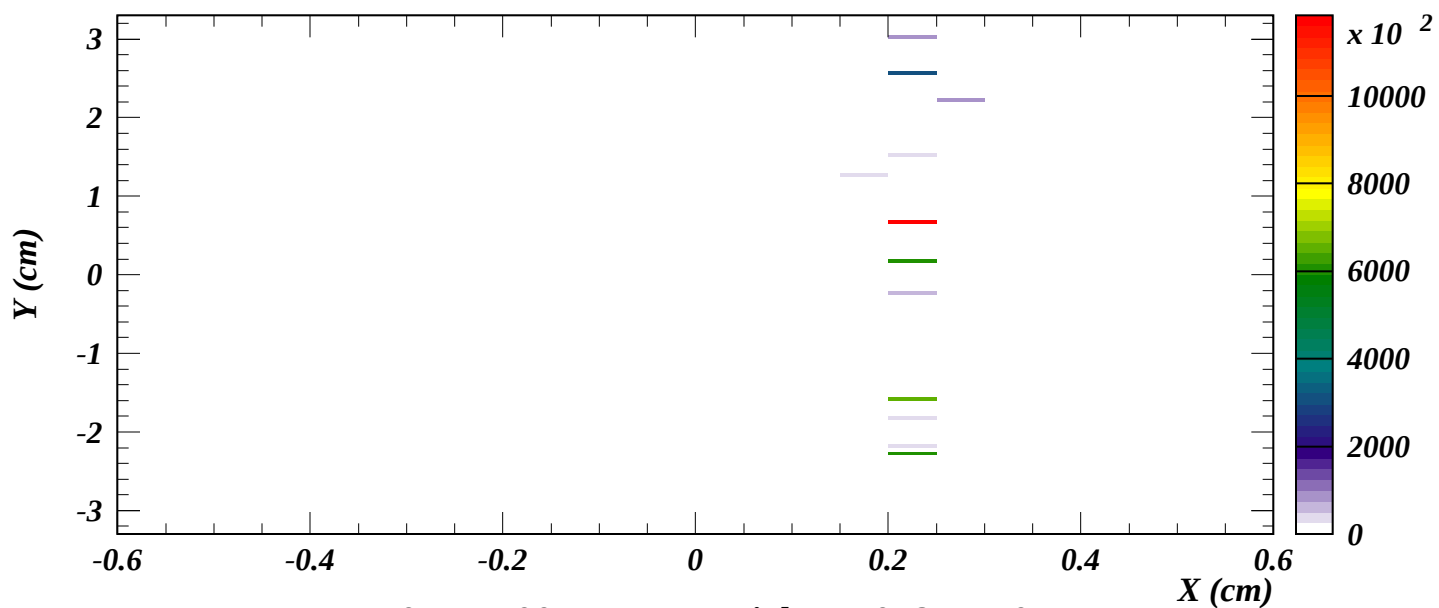
Cloud charge snapshot after bunch 348 at time = 8658.8 ns*No energy cut: 202024 macroparticles, 2.2402e+09 e-* *$E_{kin} > 10$ eV: 116650 macroparticles, 1658542336 e-*

10/05/04 13.20

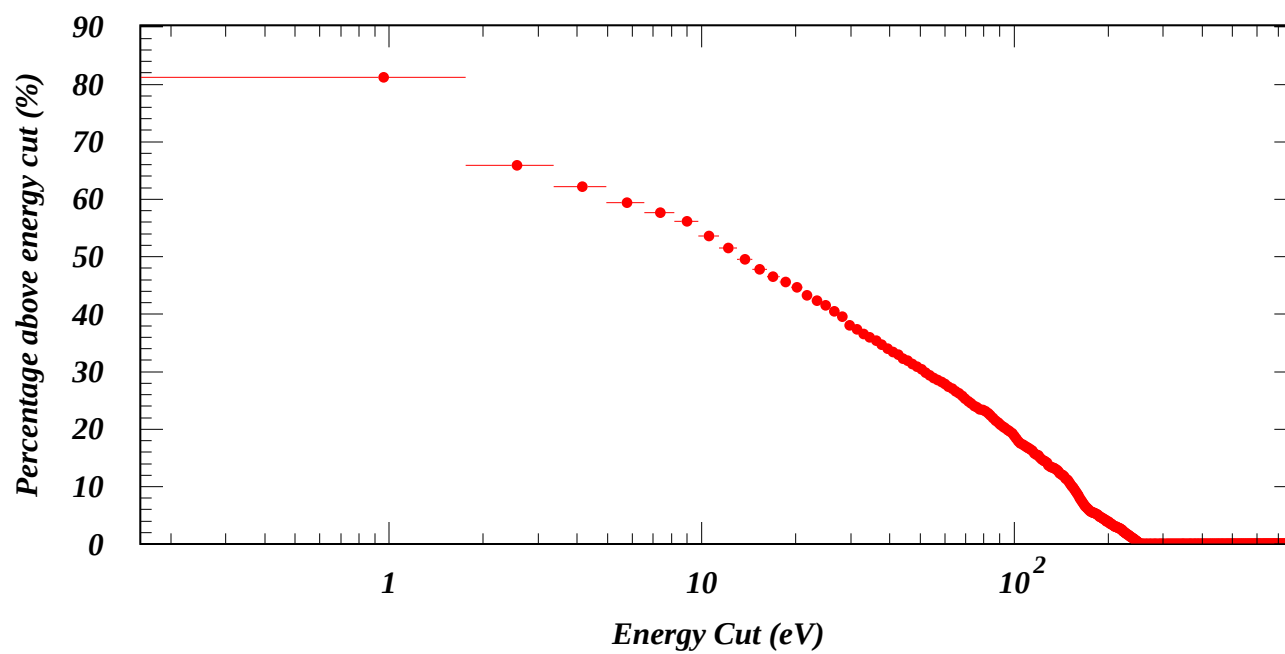
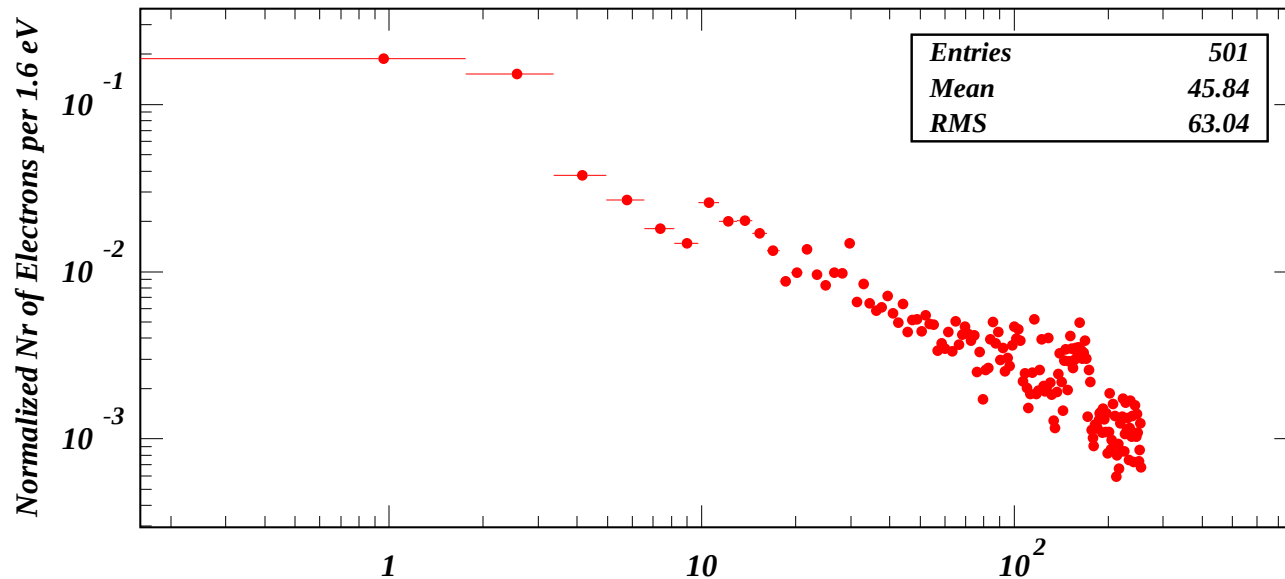
Cloud charge snapshot after bunch 361 at time = 8976 ns

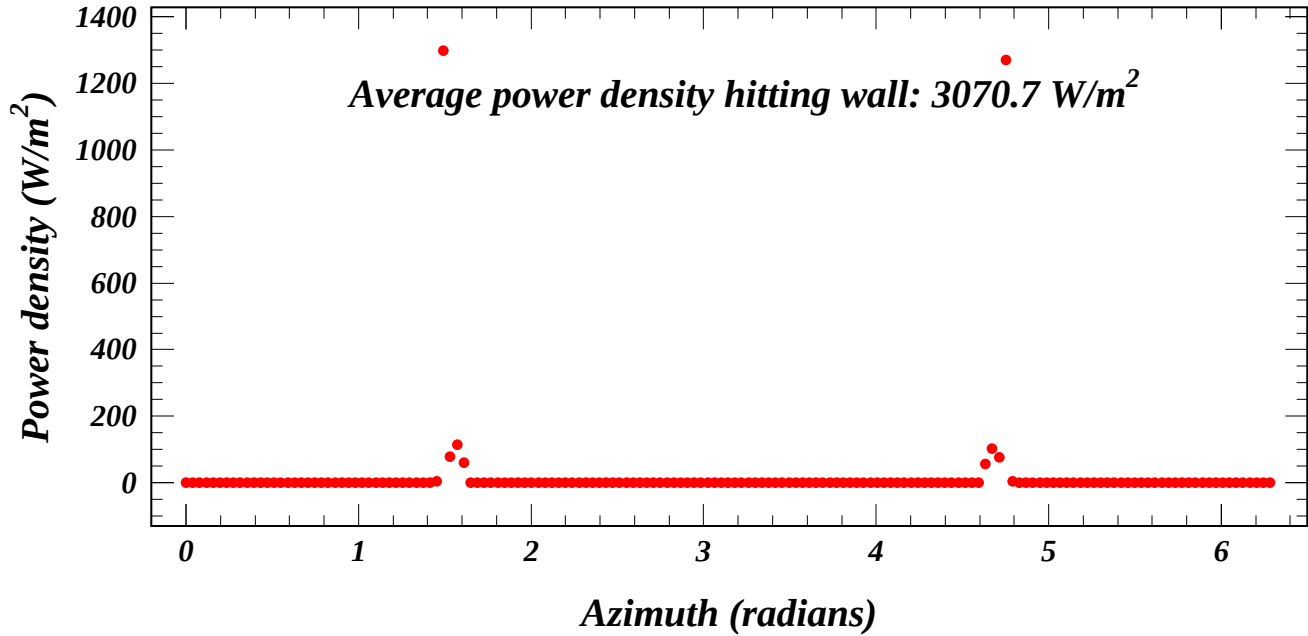
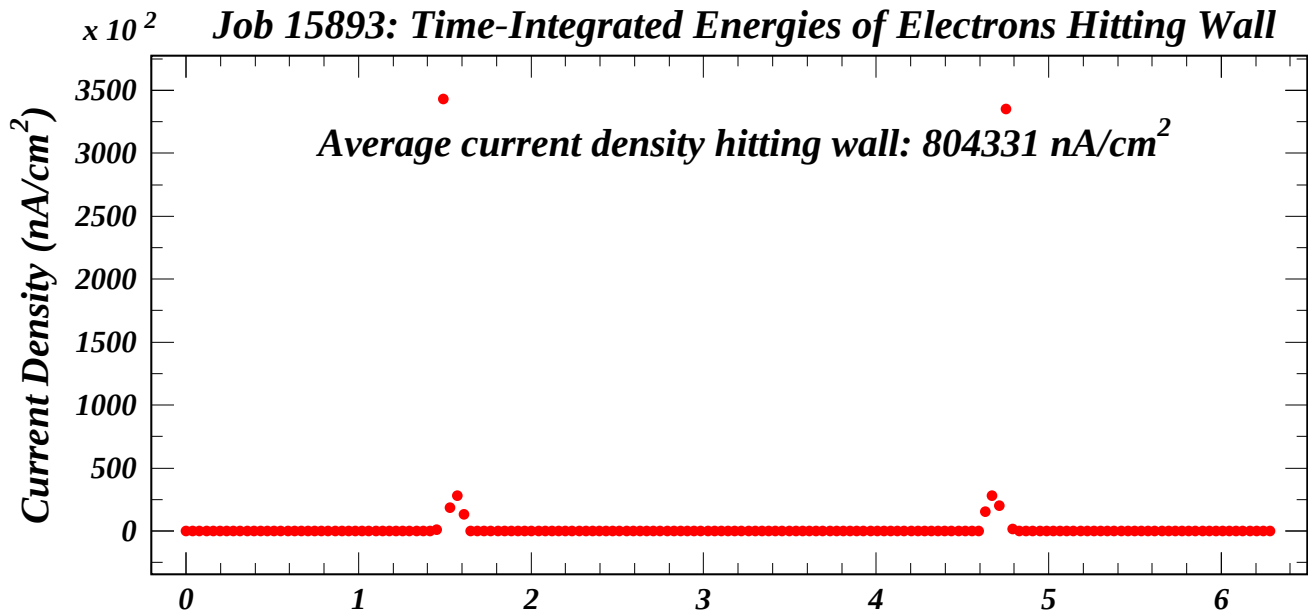


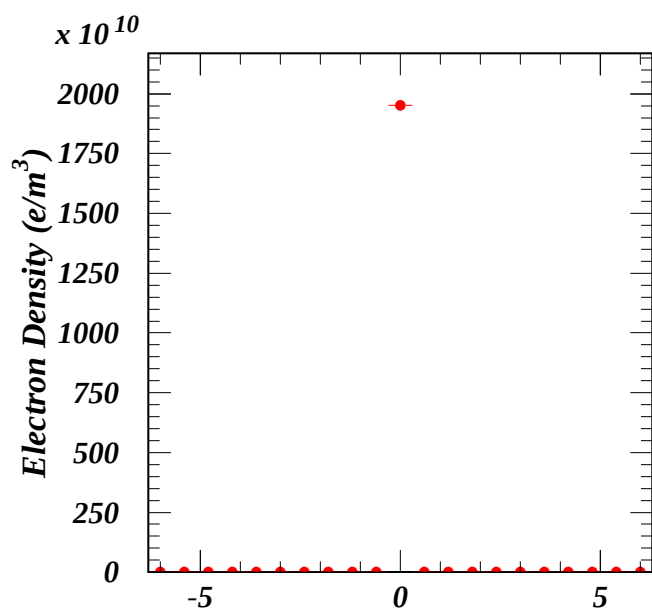
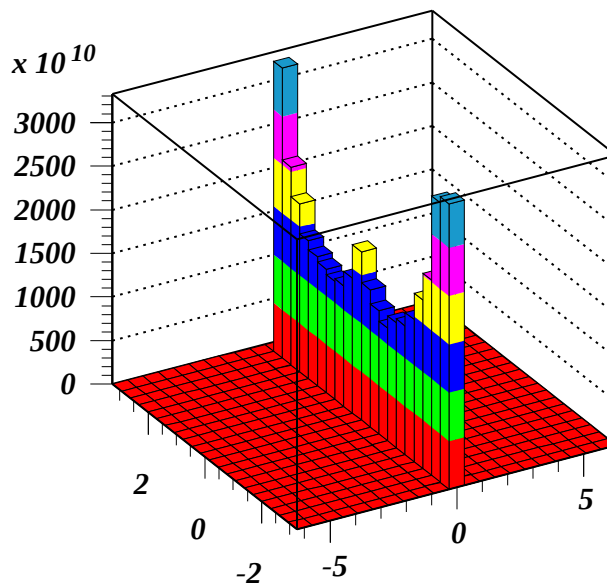
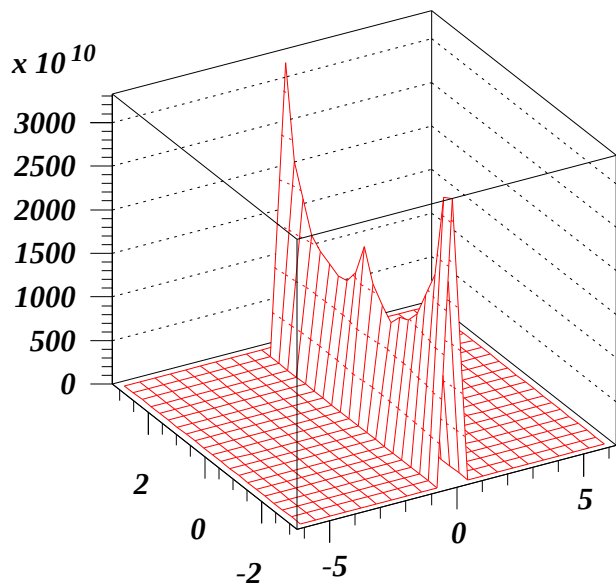
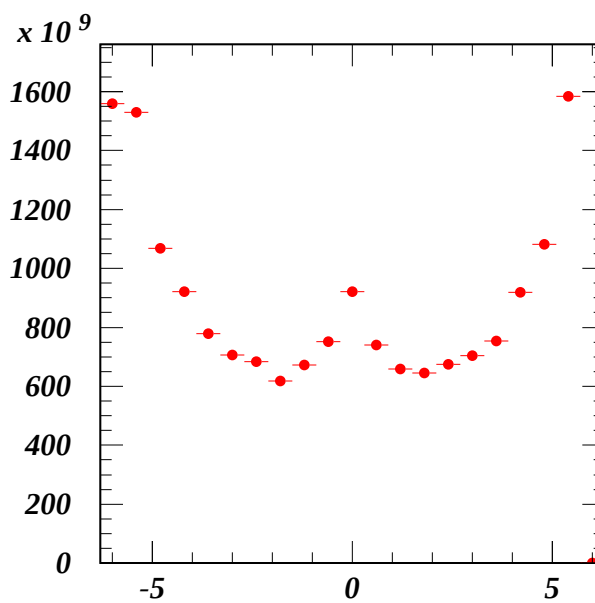
No energy cut: 199997 macroparticles, 181925632 e⁻



$E_{kin} > 10$ eV: 5005 macroparticles, 4.09866e+06 e⁻

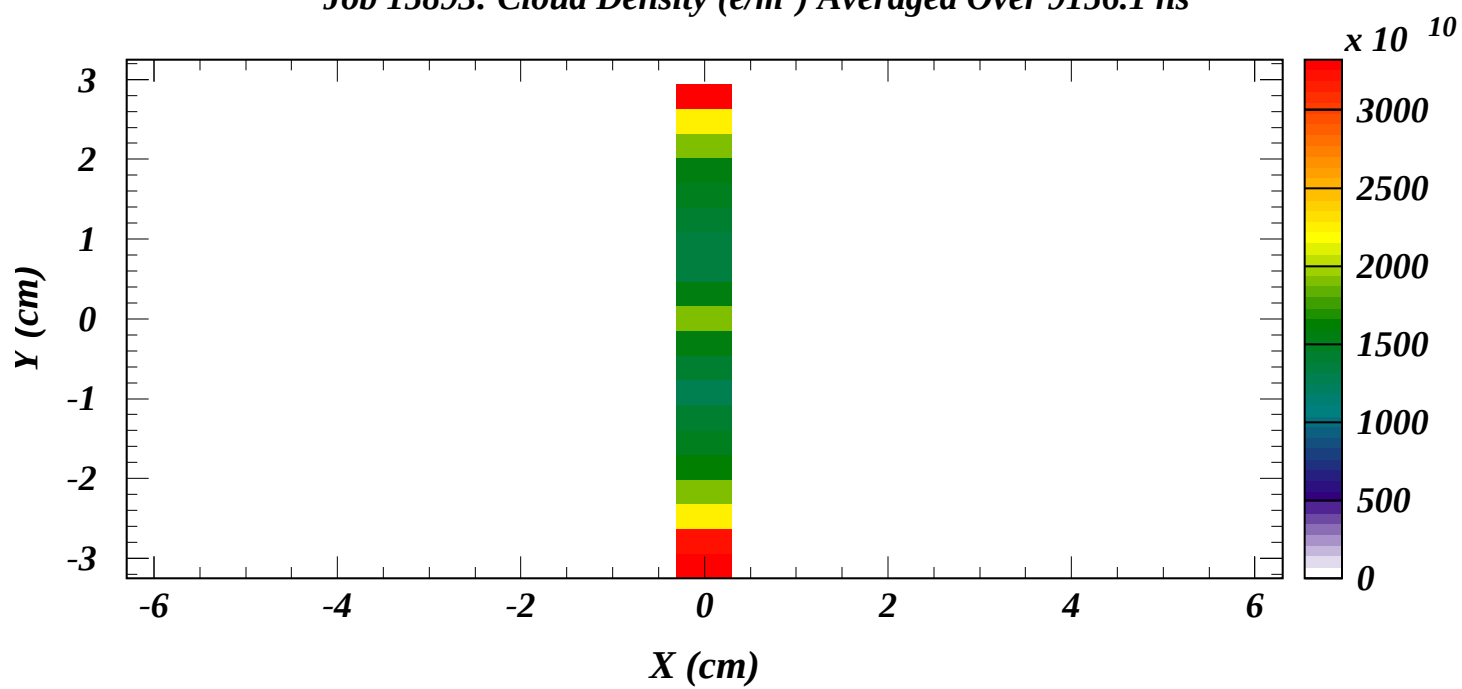
Job 15893: Time-Integrated Energies of Electrons Hitting Wall



Job 15893: Cloud Density (e/m^3) Averaged Over 9156.1 ns**Projection on X (cm)****Projection on Y (cm)**

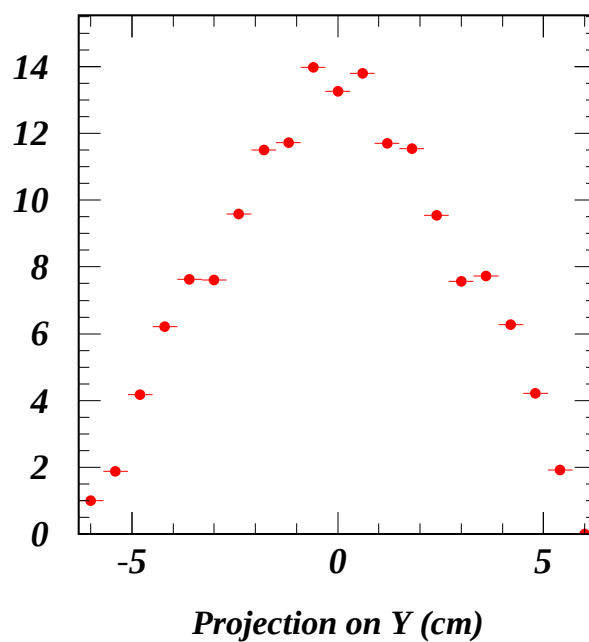
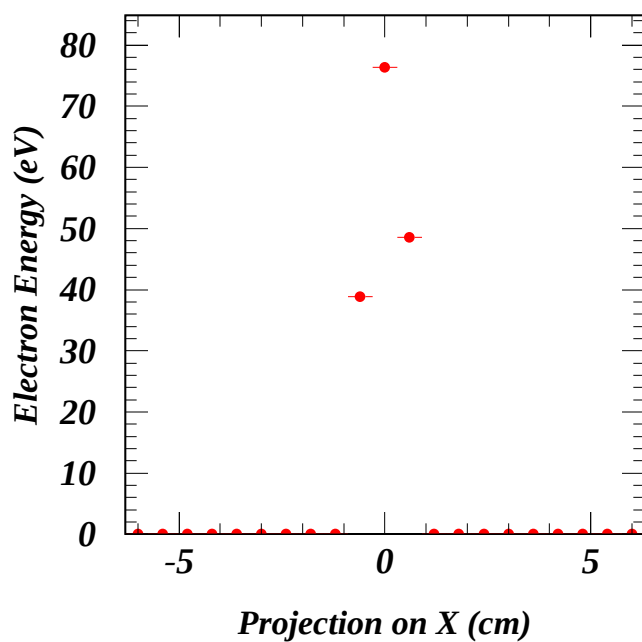
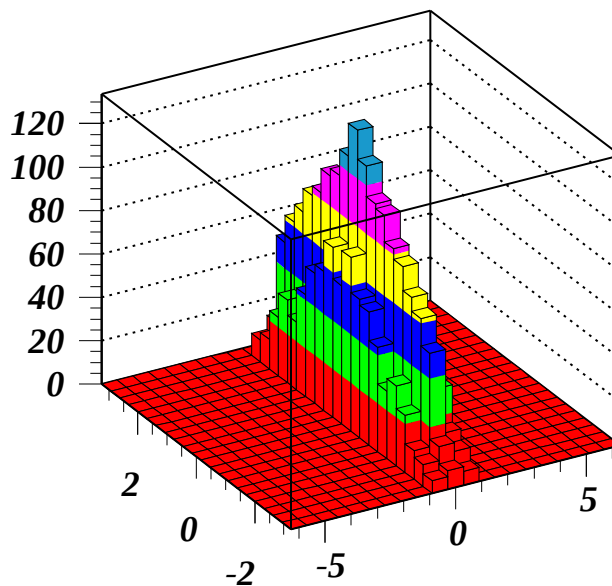
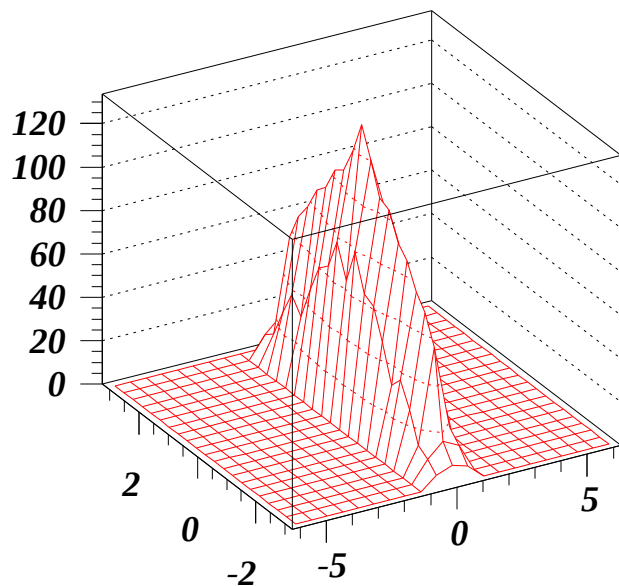
Job 15893: Cloud Density (e/m^3) Averaged Over 9156.1 ns

10/05/04 13.20

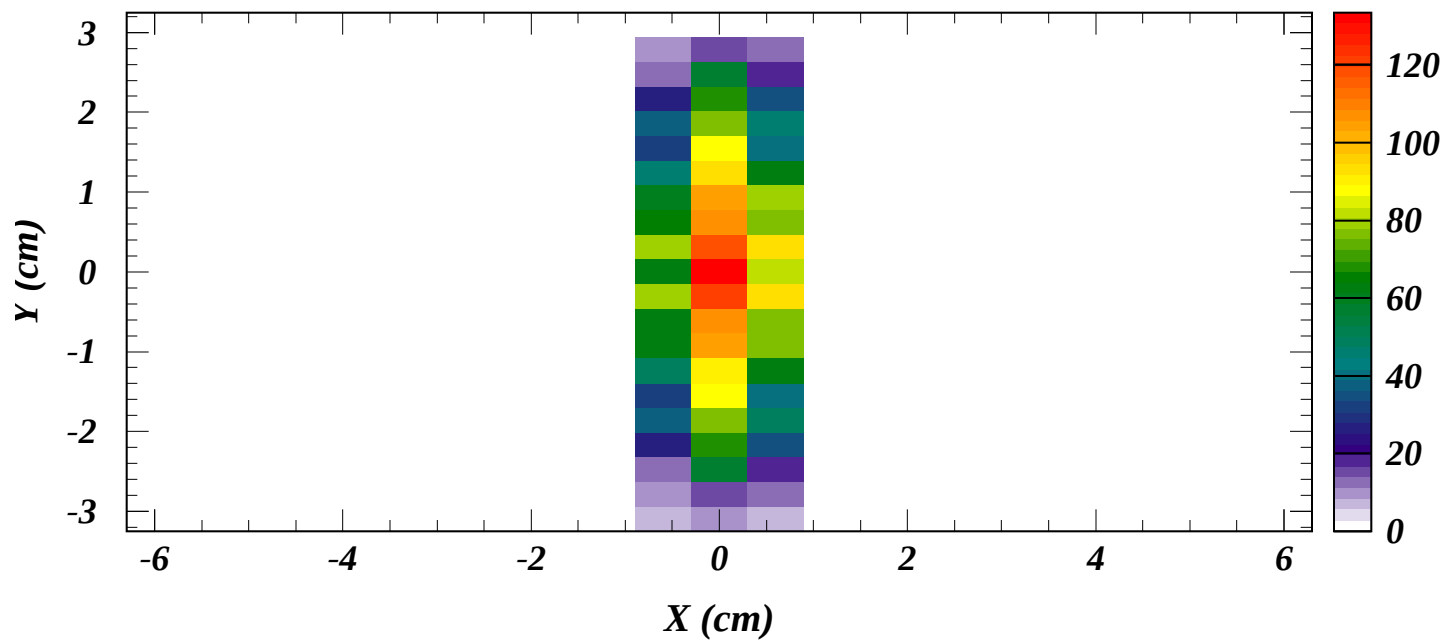


10/05/04 13.20

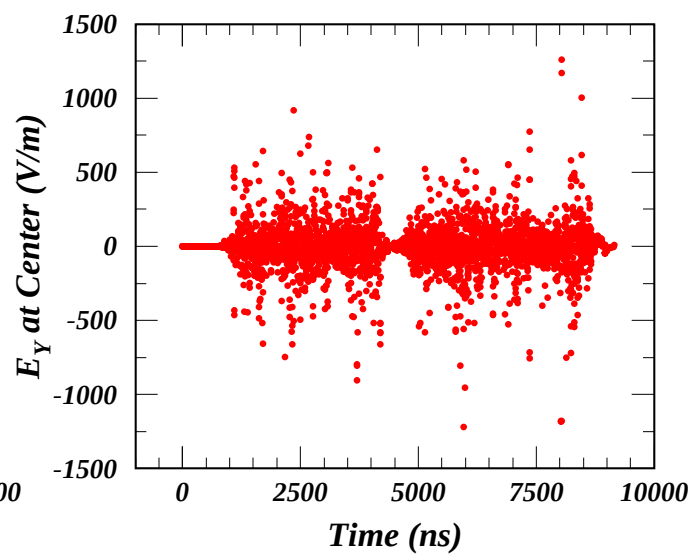
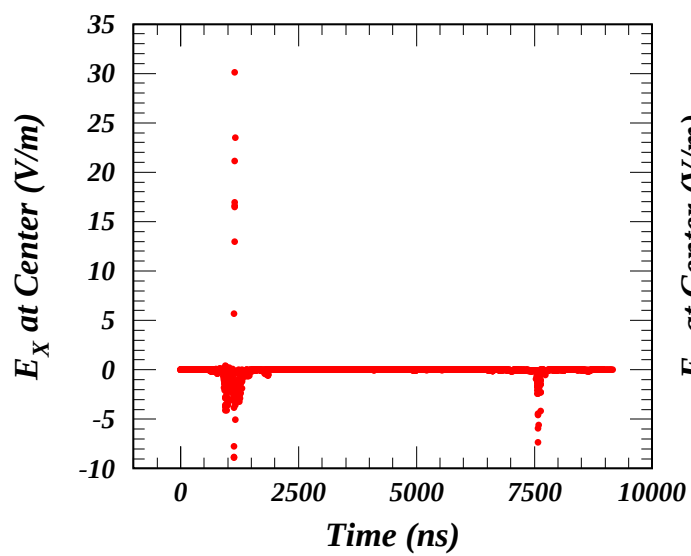
Job 15893: Electron Energies (eV) Averaged Over 9156.1 ns



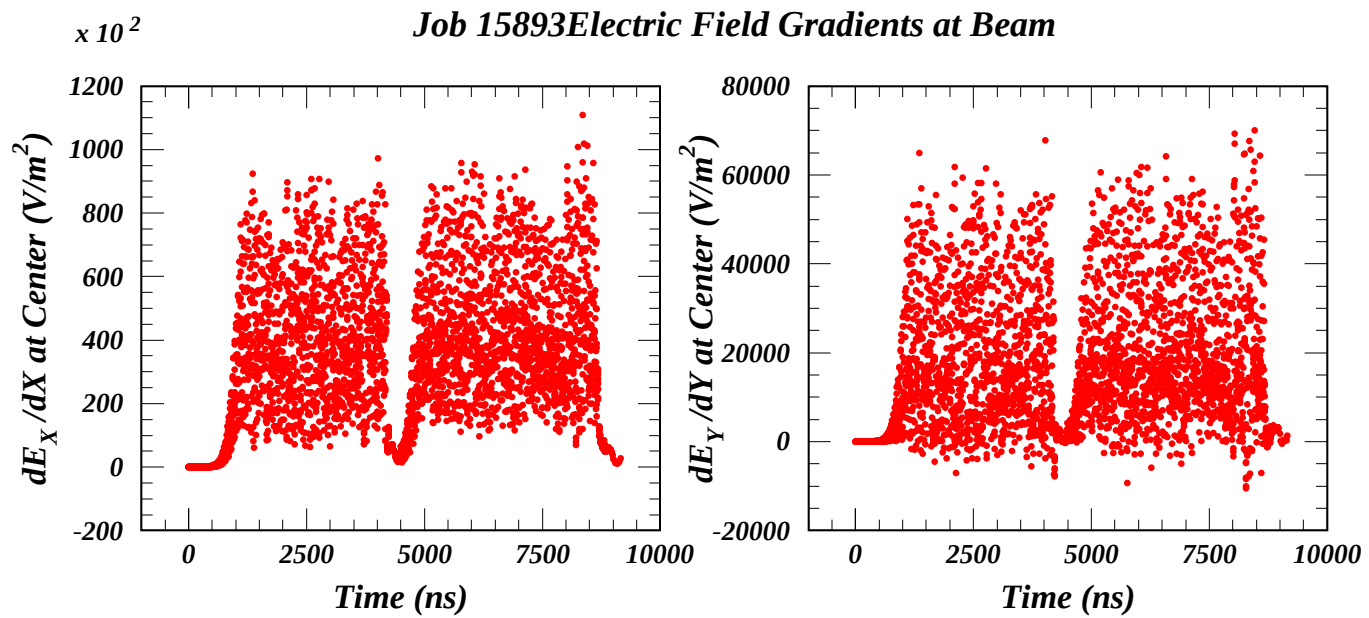
Job 15893: Electron Energies (eV) Averaged Over 9156.1 ns 10/05/04 13.20



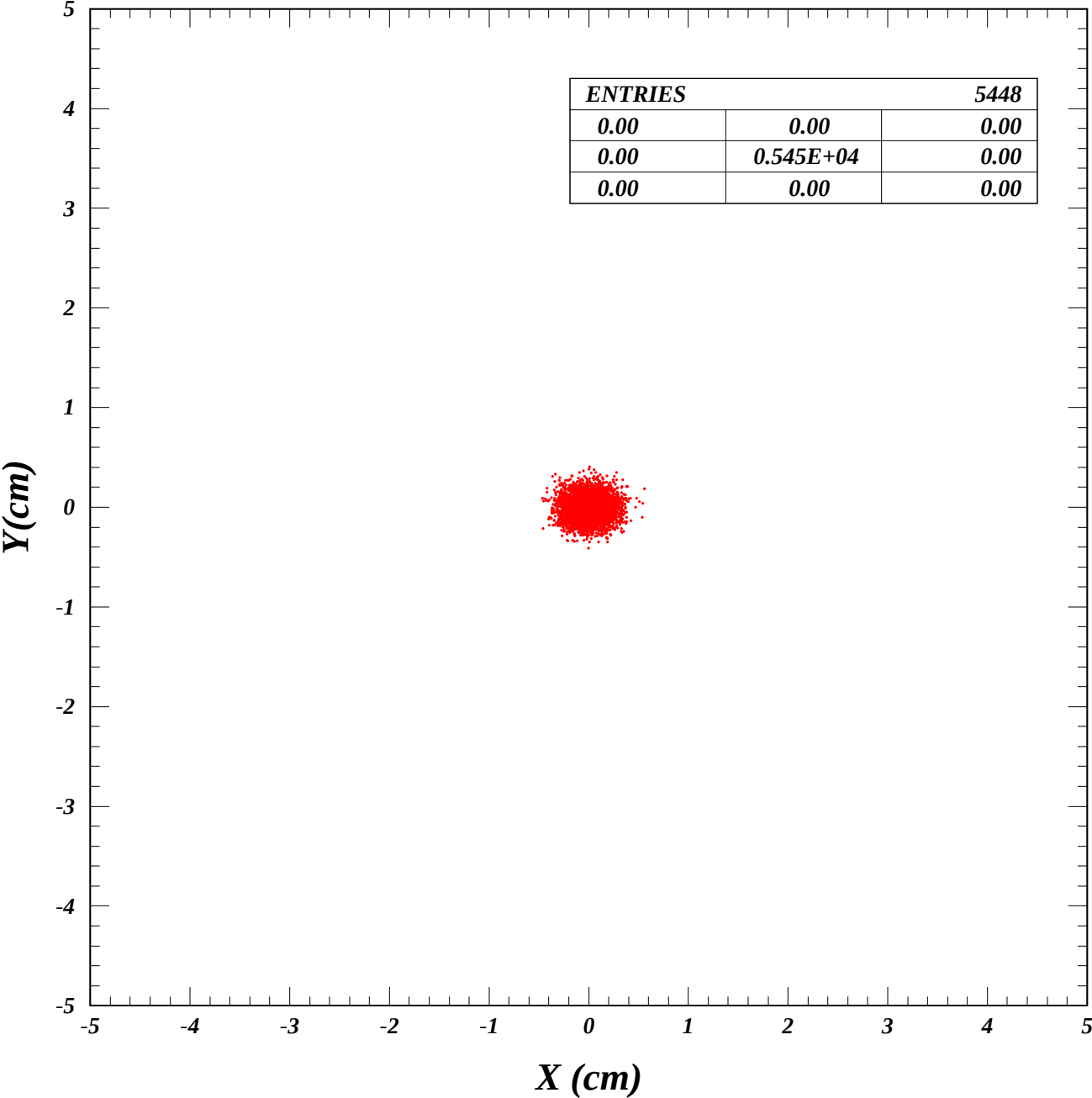
Job 15893: Electric Field at Beam



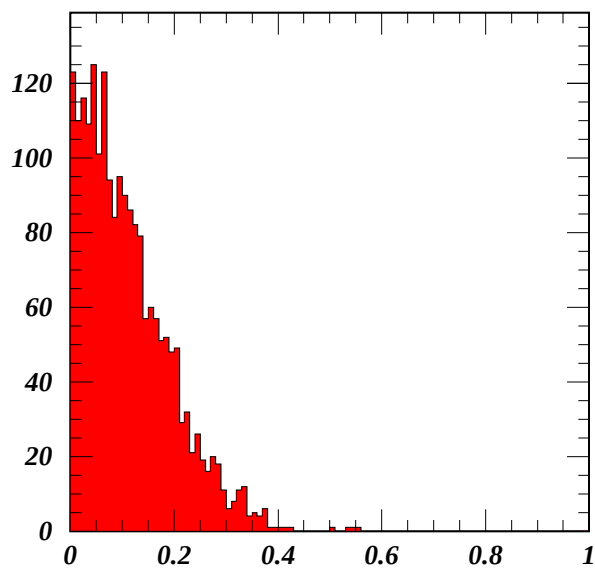
Job 15893 Electric Field Gradients at Beam



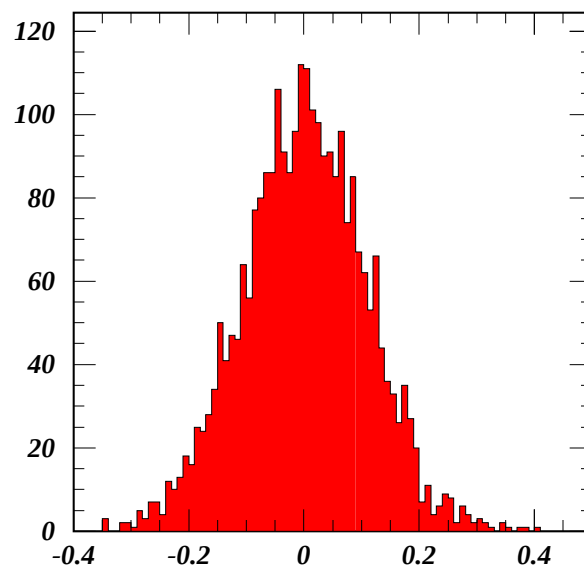
Job 15893: Primary Photoelectrons



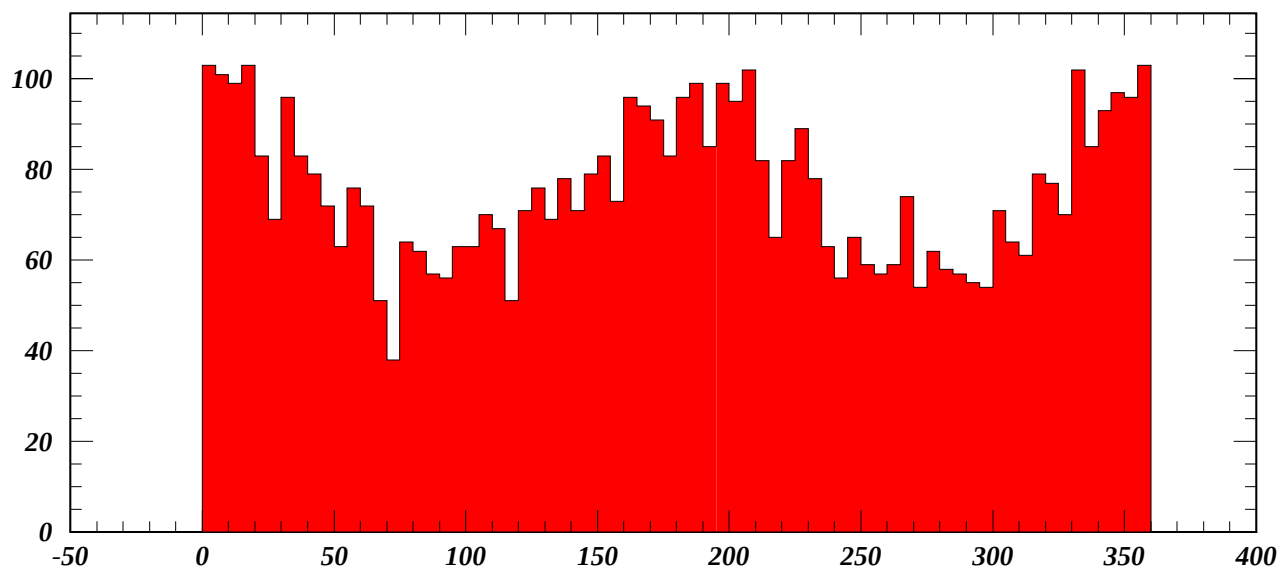
Job 15893: Primary Photoelectrons



X (cm)



Y (cm) for X>0



ϕ (degrees)