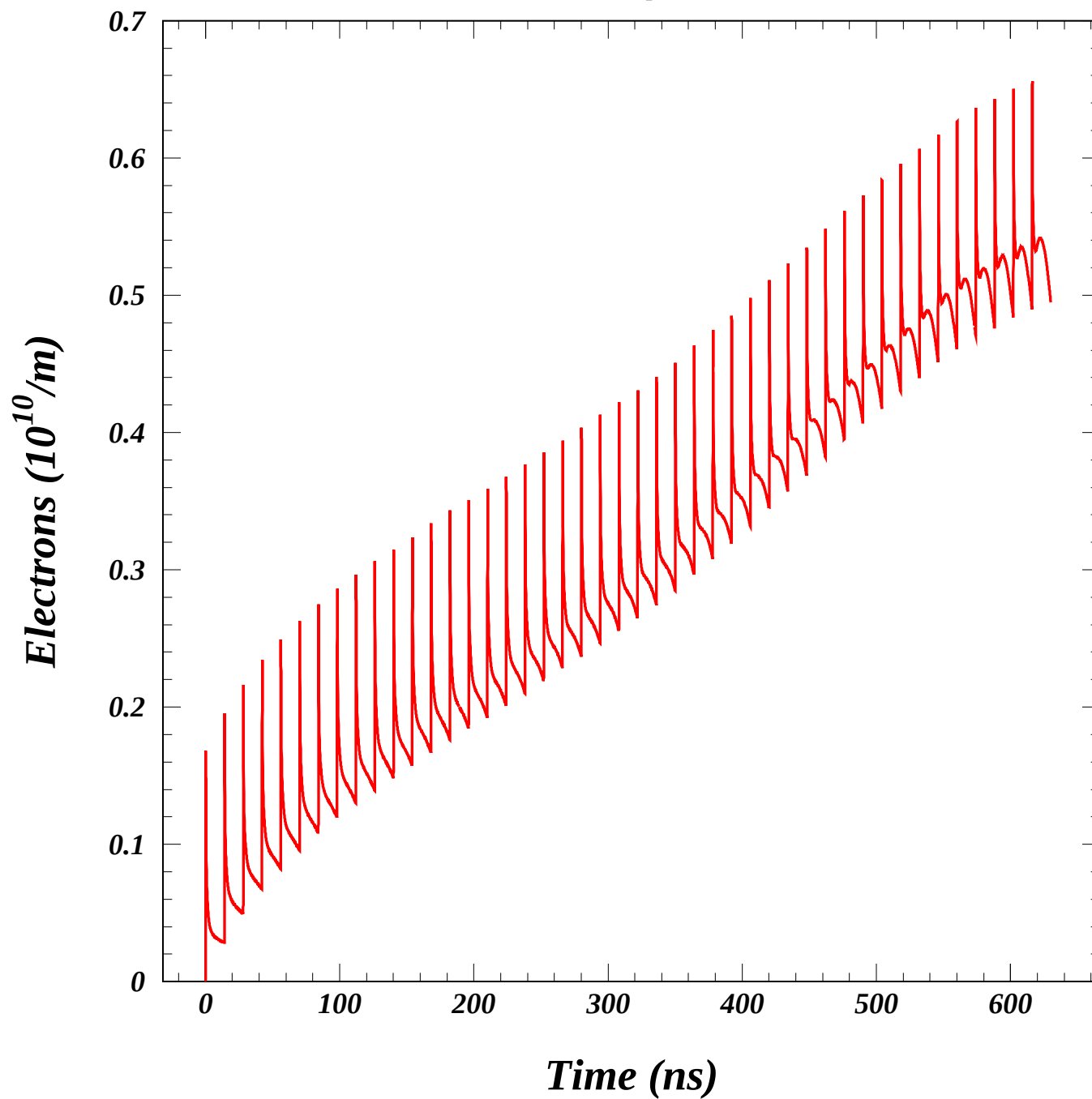
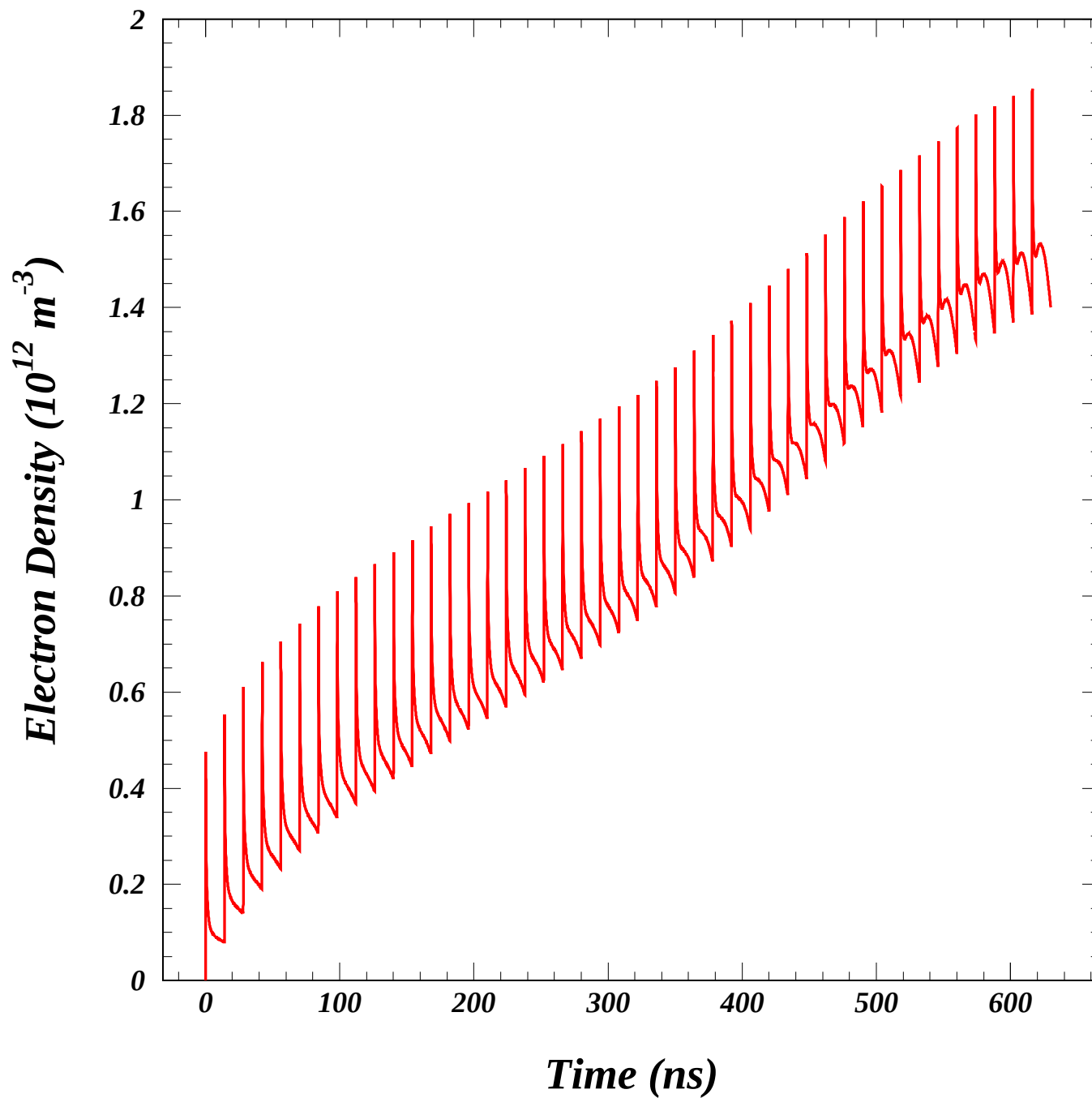
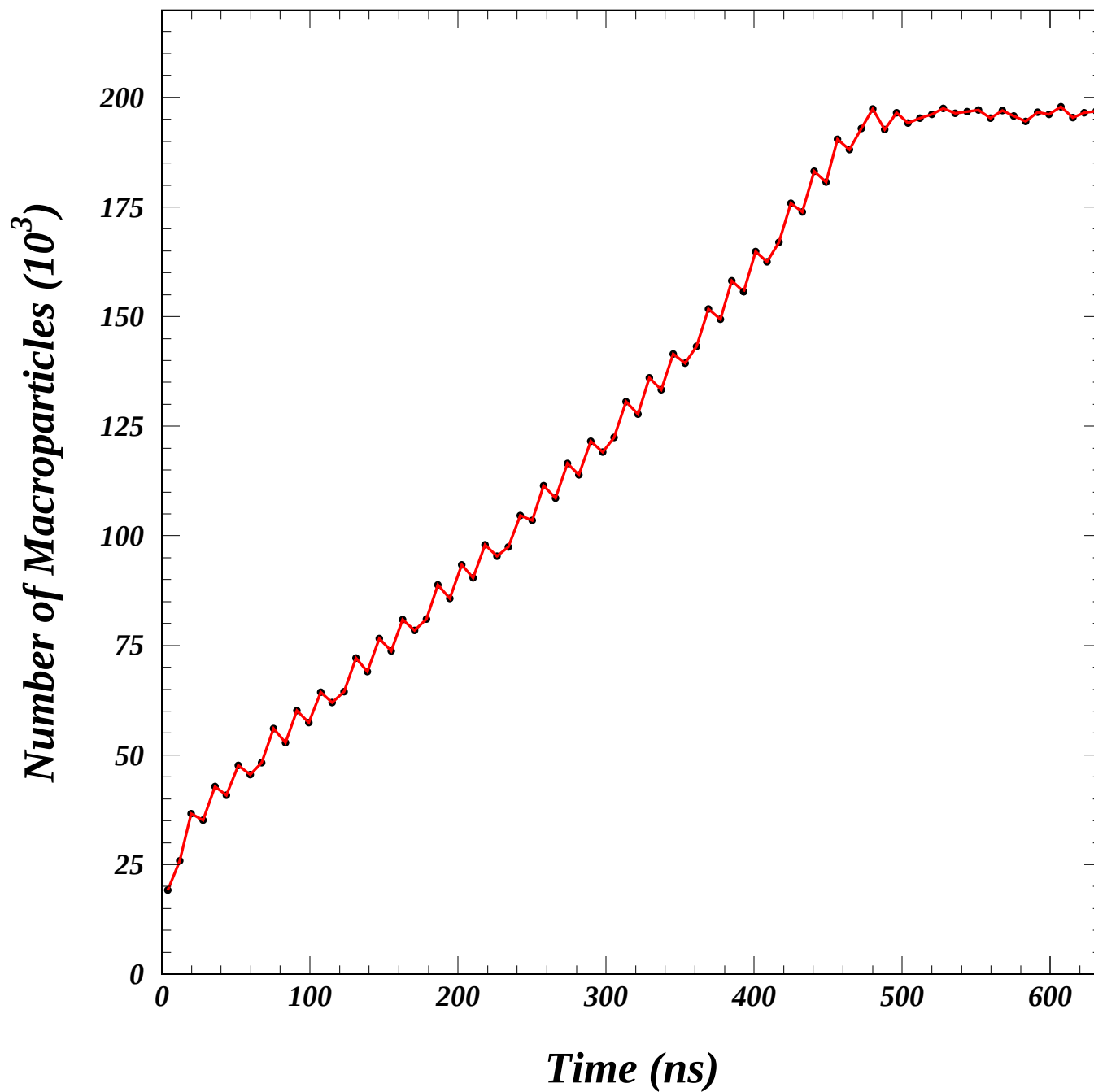


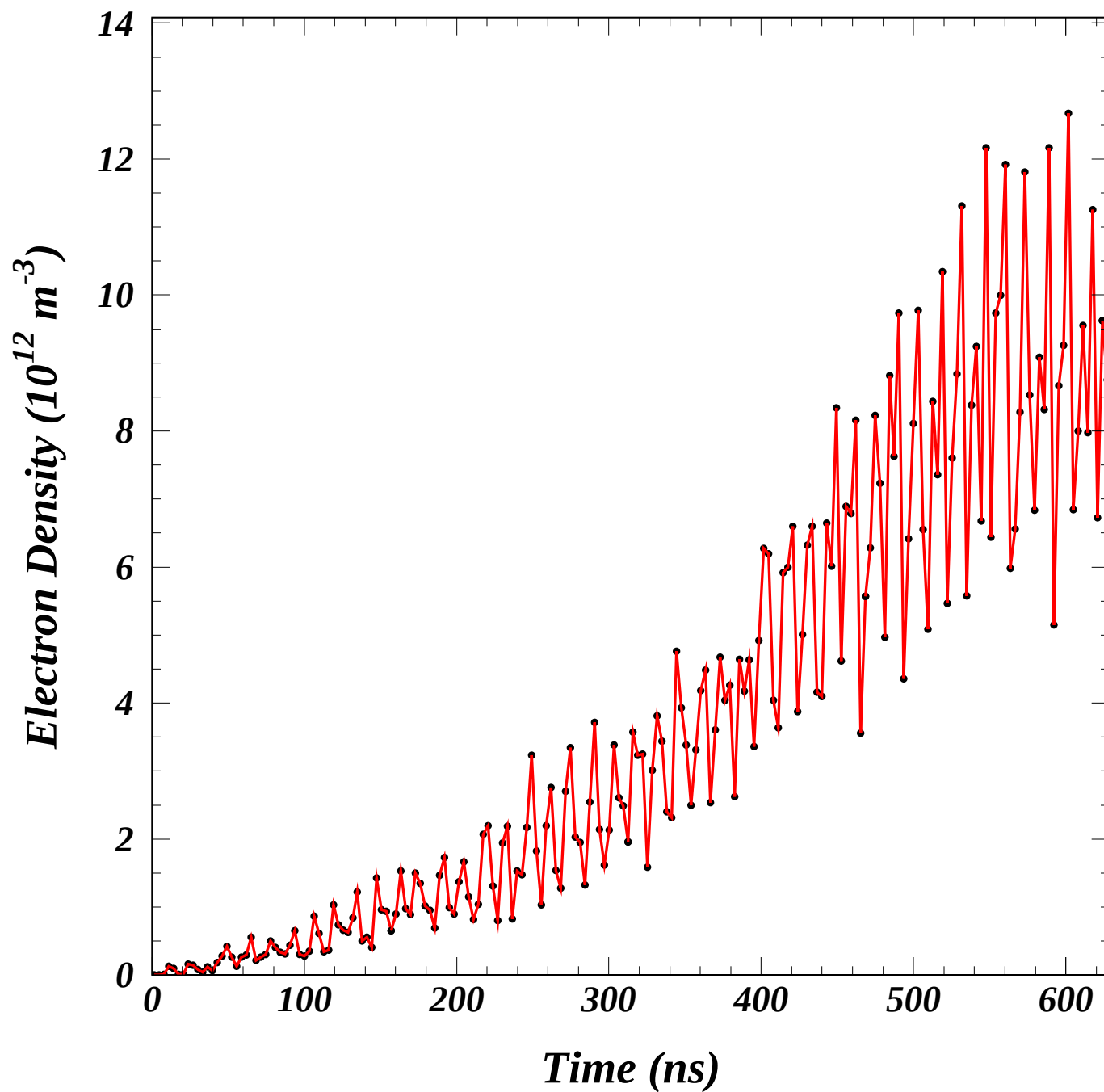
Job 15948: Number of Cloud Electrons

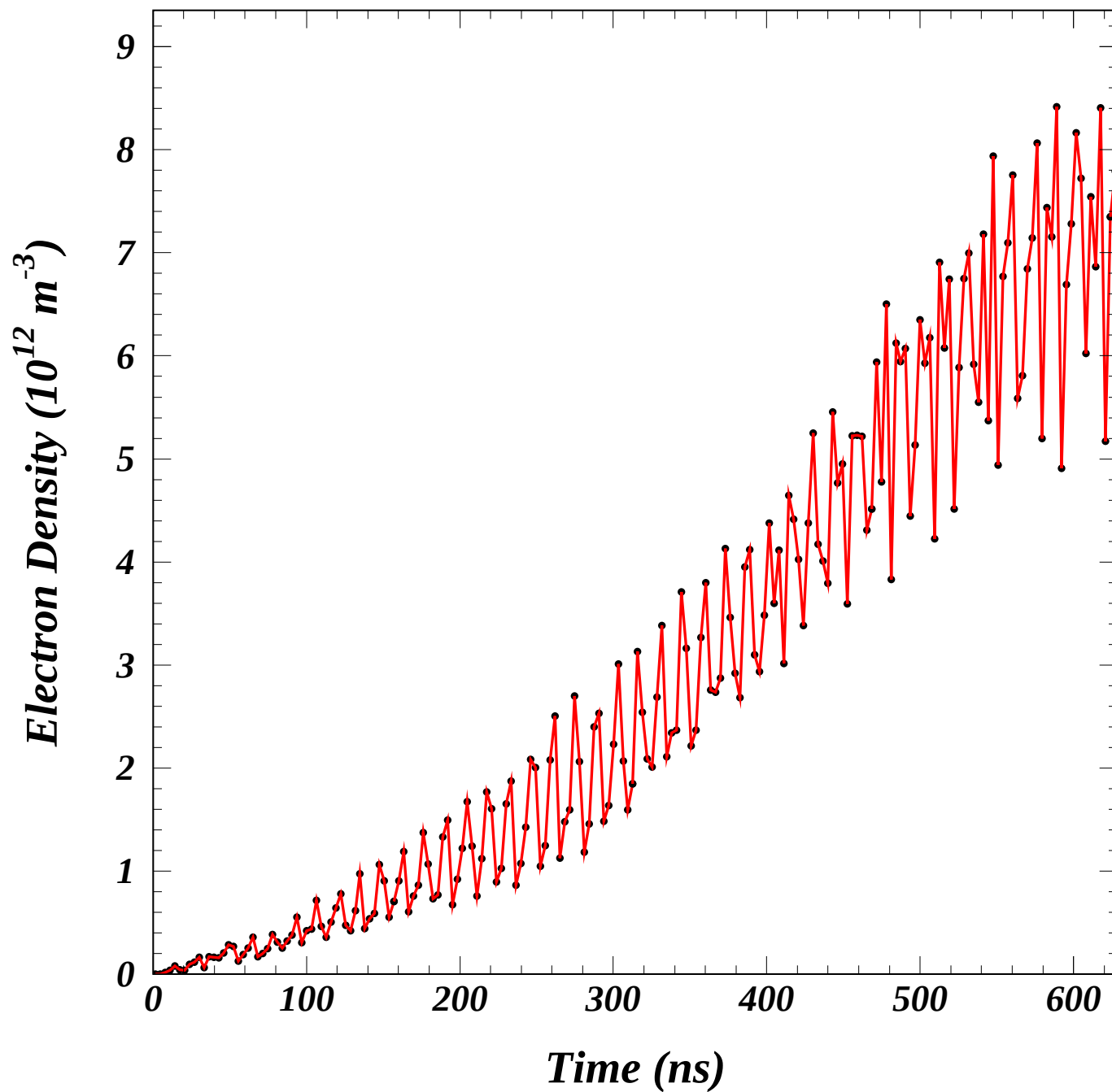
Beampipe-averaged Cloud Density (10^{12} m^{-3}) 10/05/12 14.23



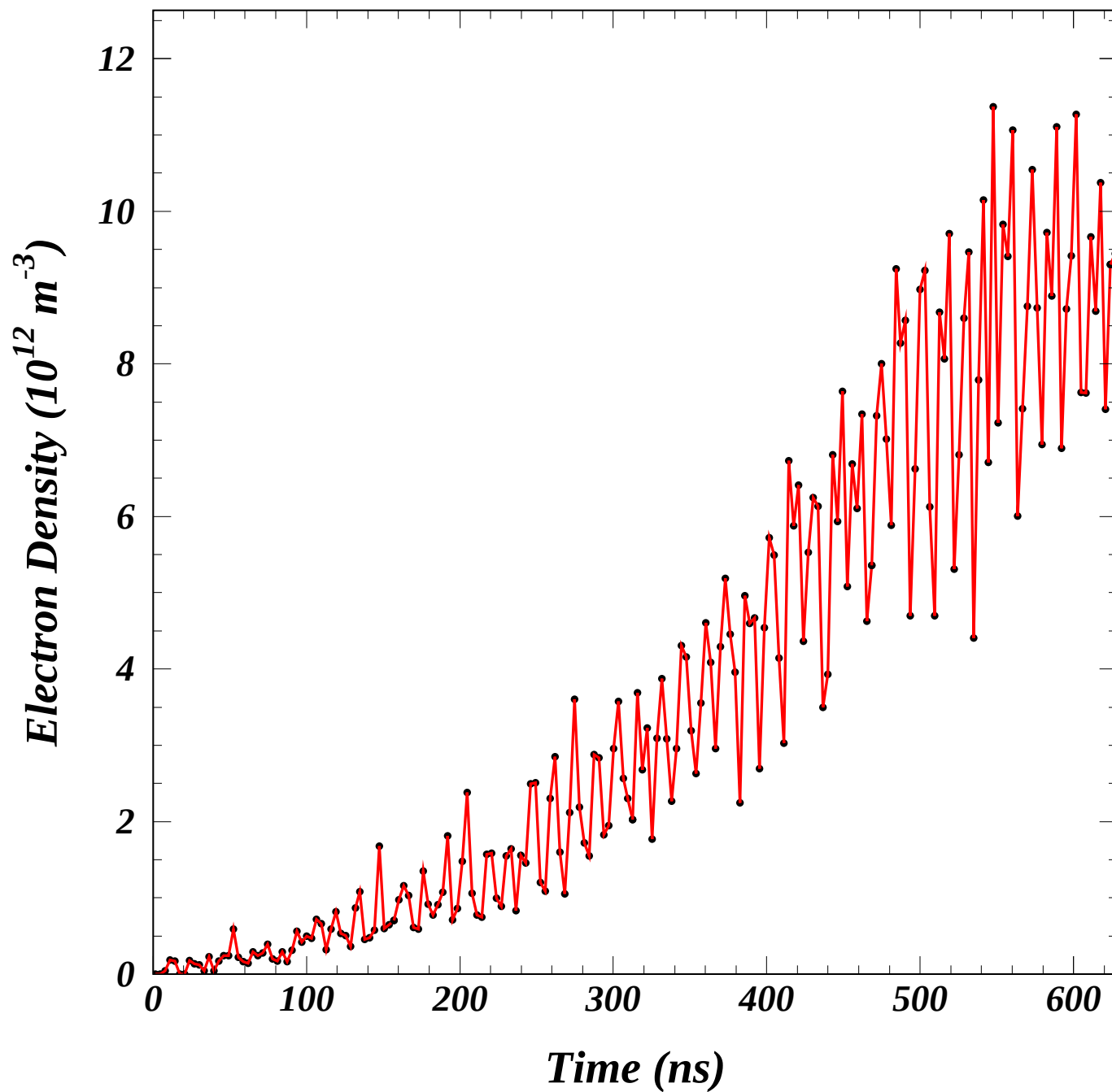
Macroparticle Statistics

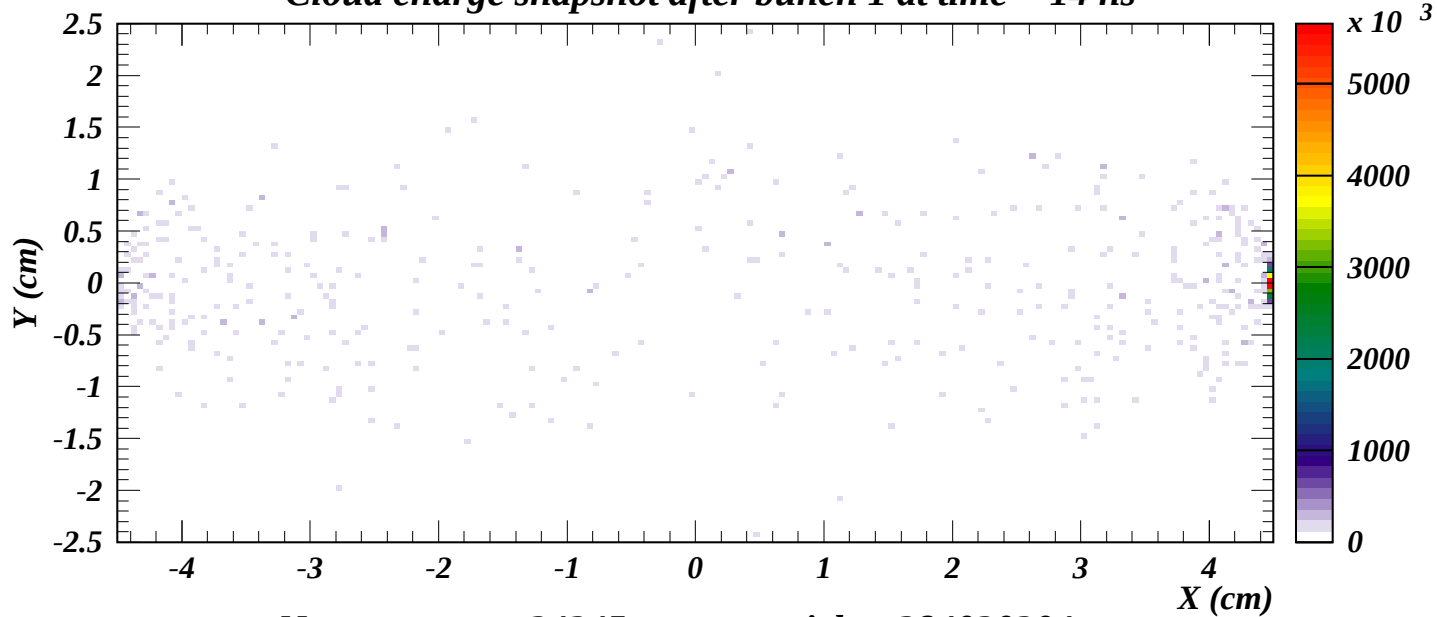
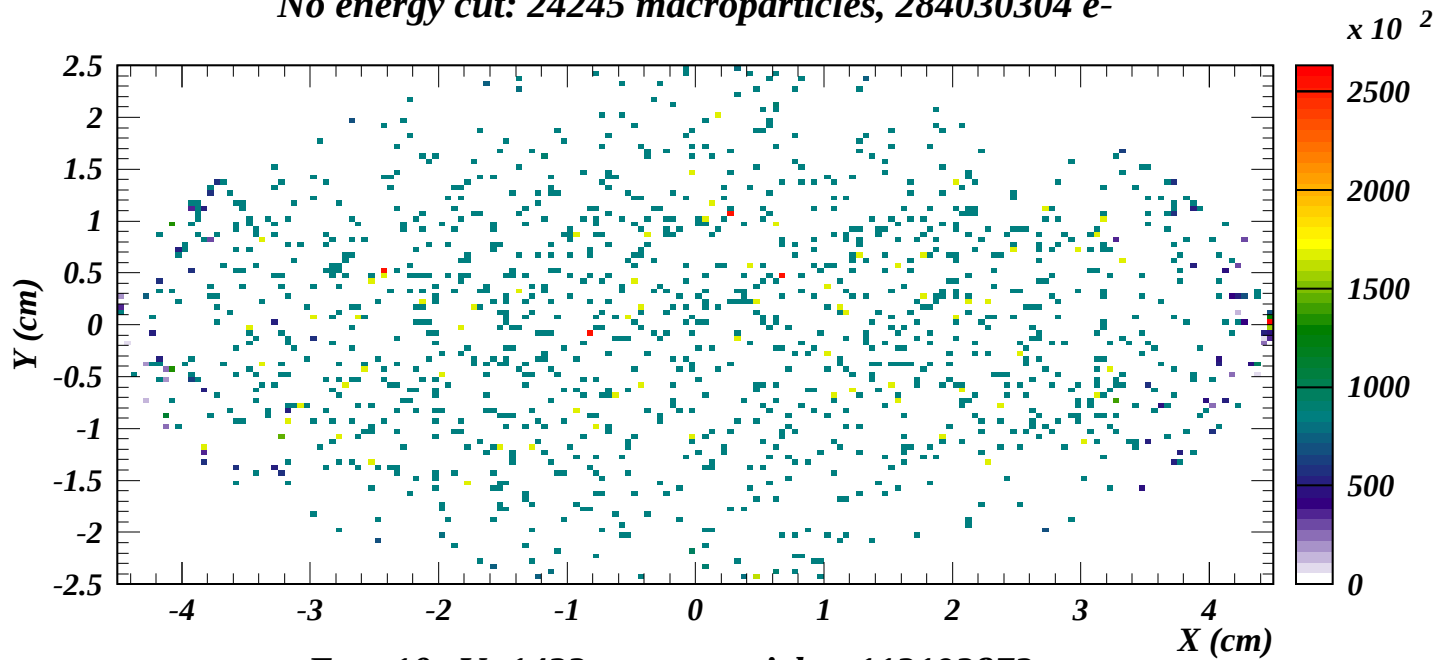


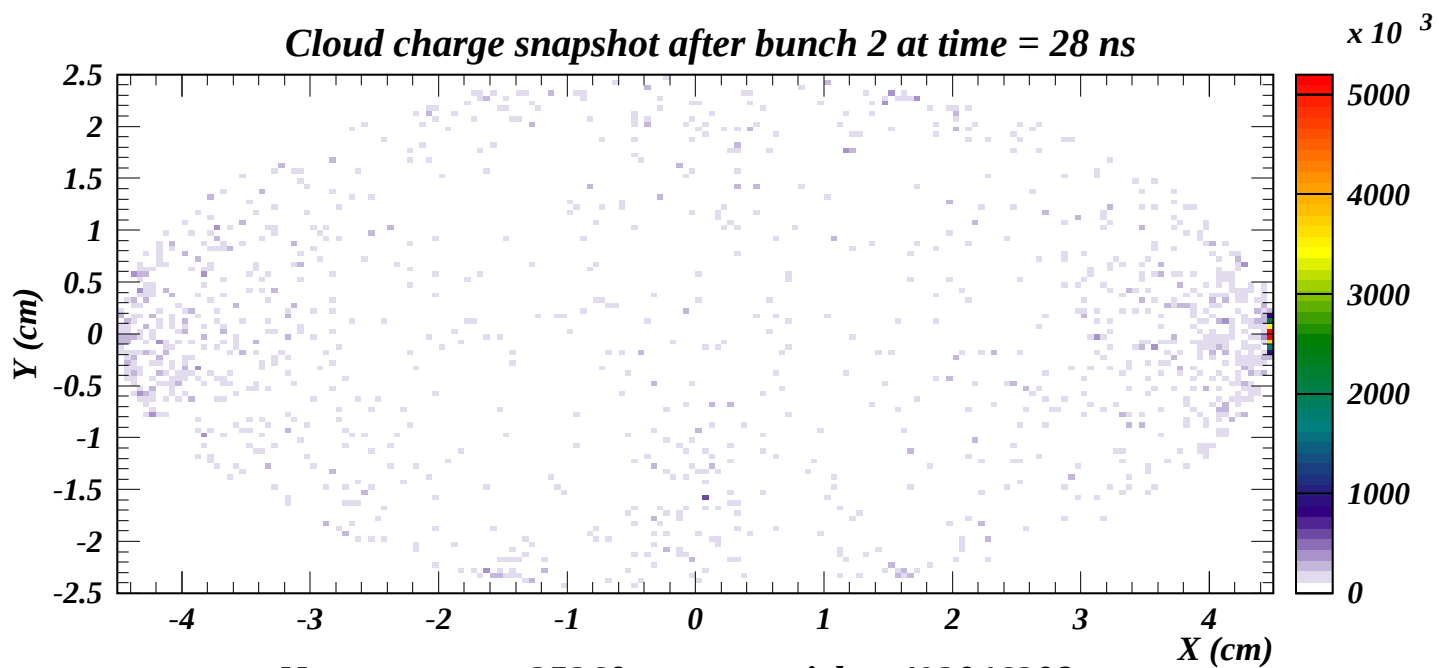
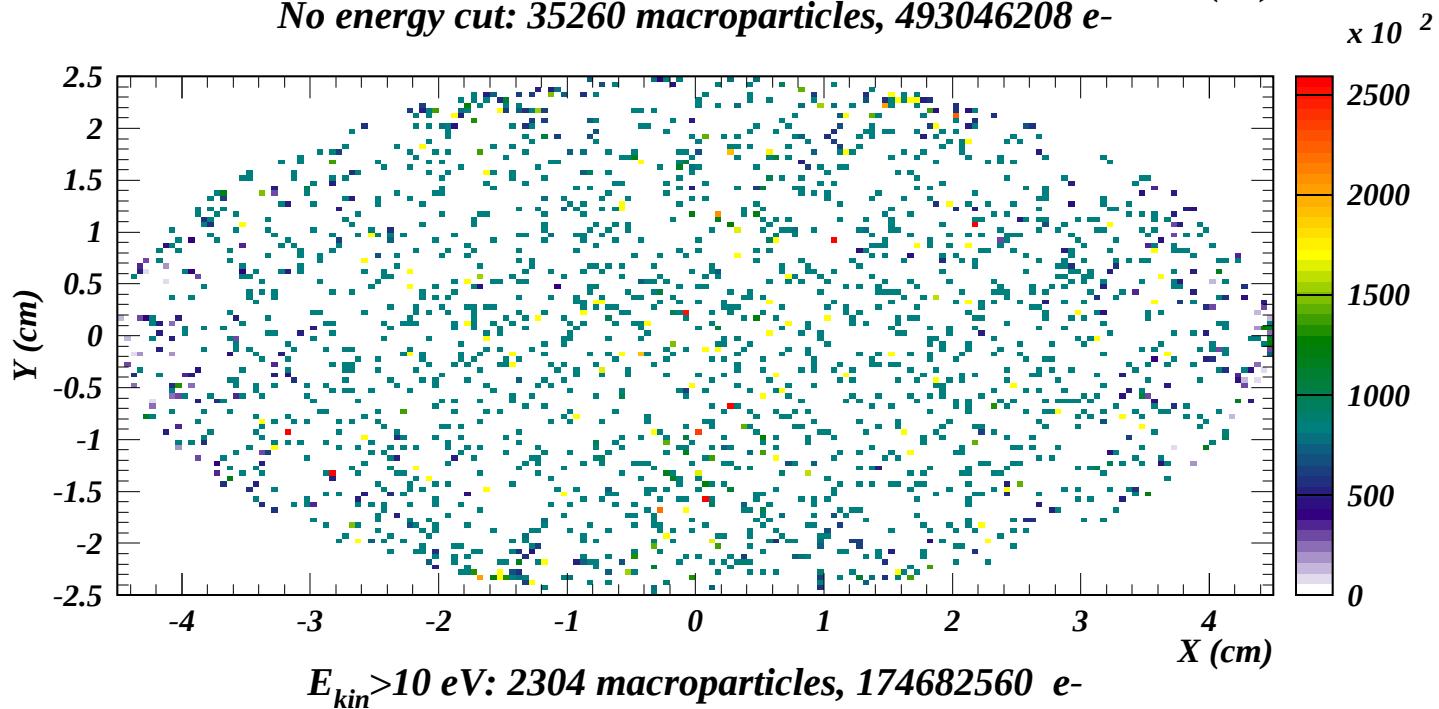
Beam-averaged Cloud Density (10^{12} m^{-3})

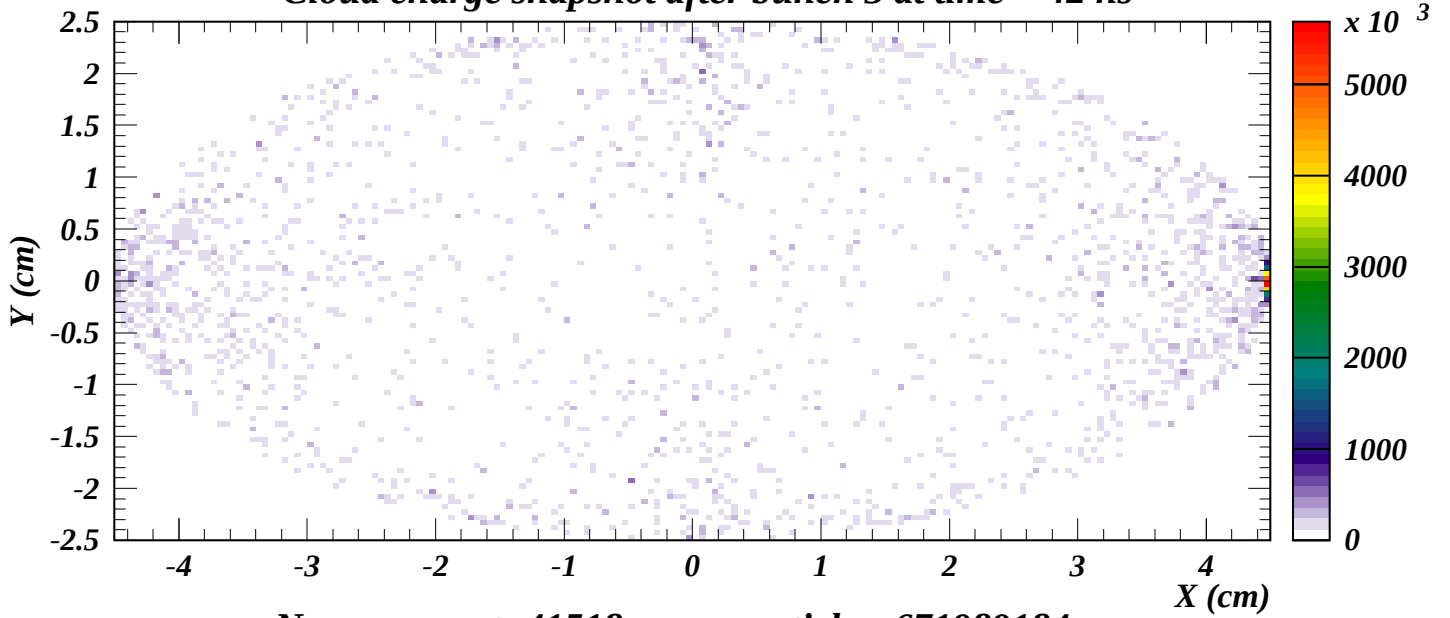
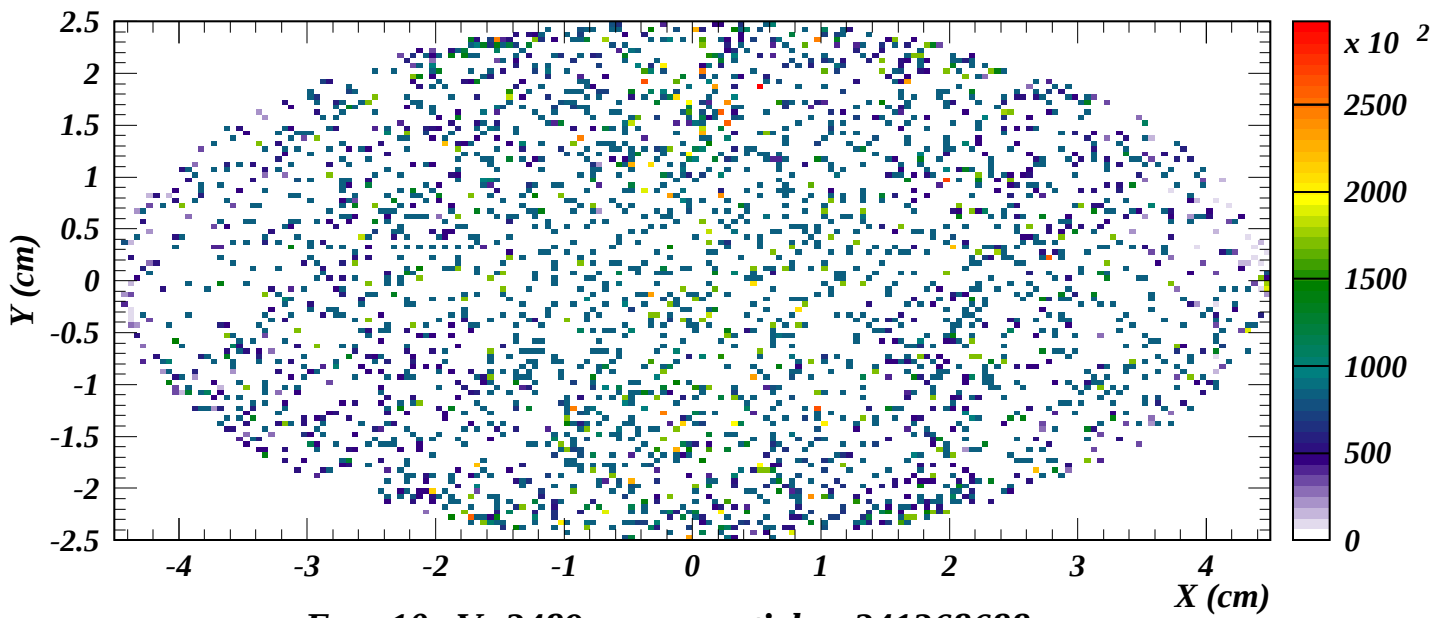
5-Sigma Cloud Density at Center of Pipe (10^{12} m^{-3})

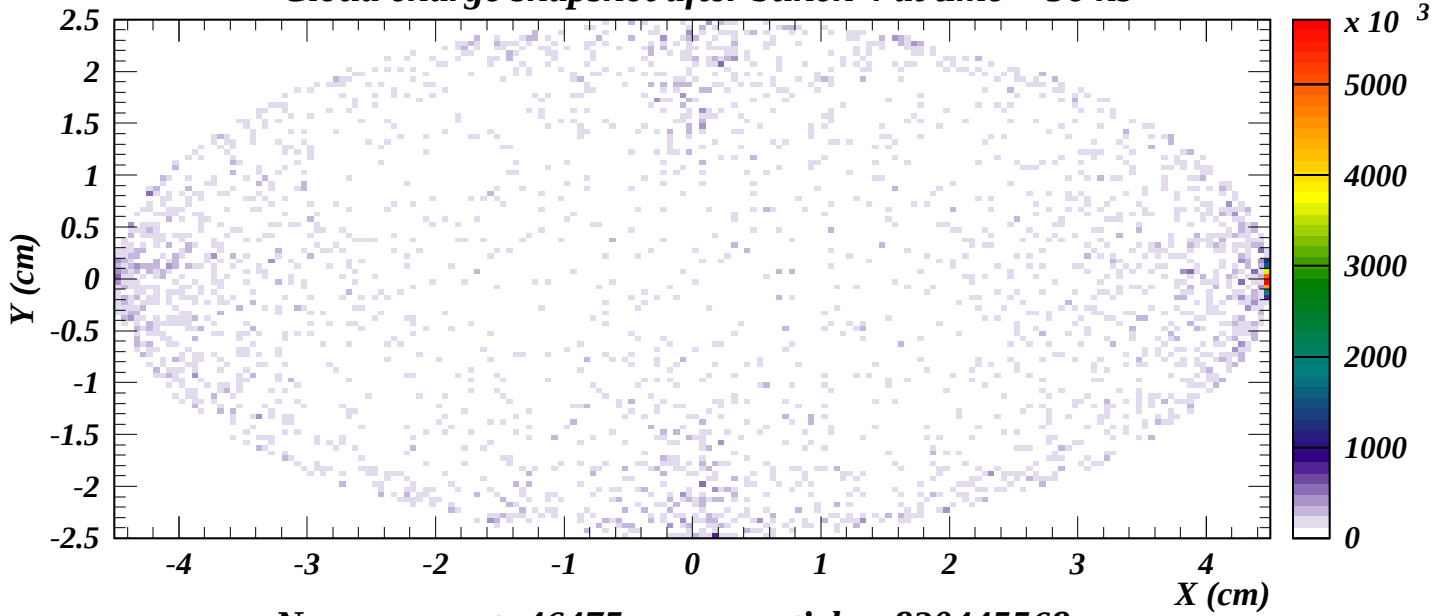
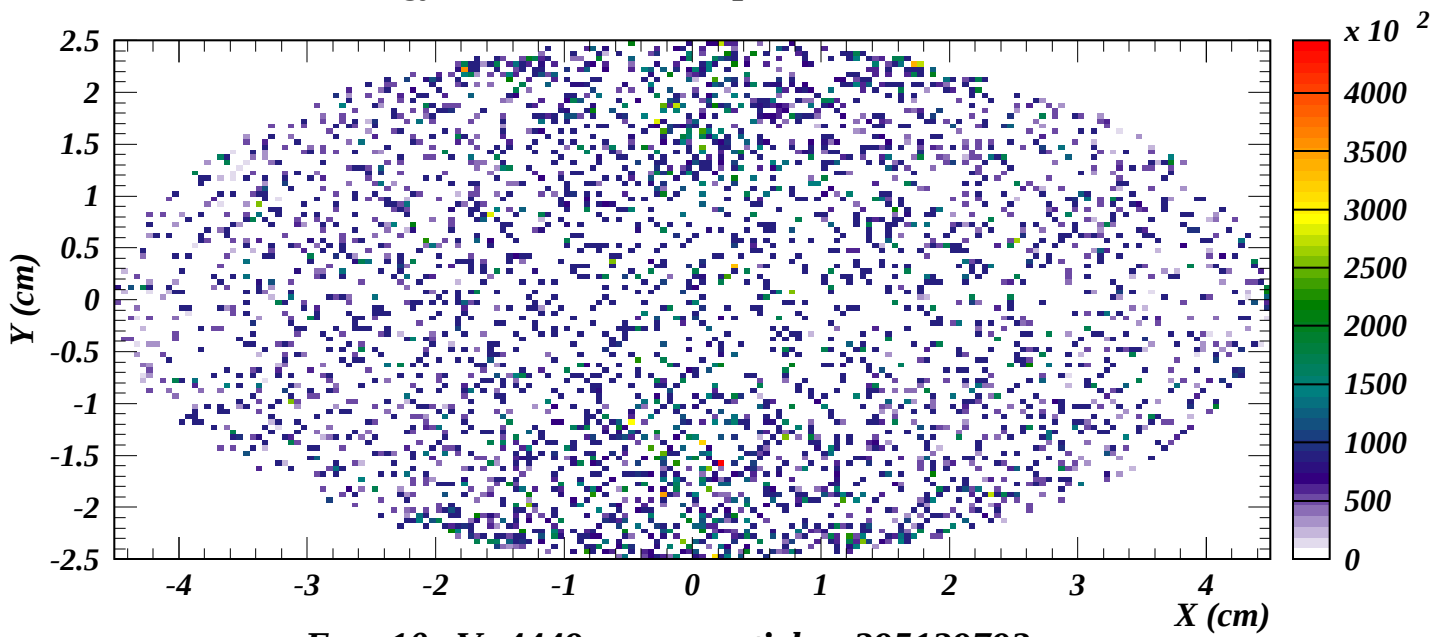
10/05/12 14.23
ECLOUD-TS20100323_SEY18_Epk310: Cloud Density in Central Grid Cell (10^{12} m^{-3})

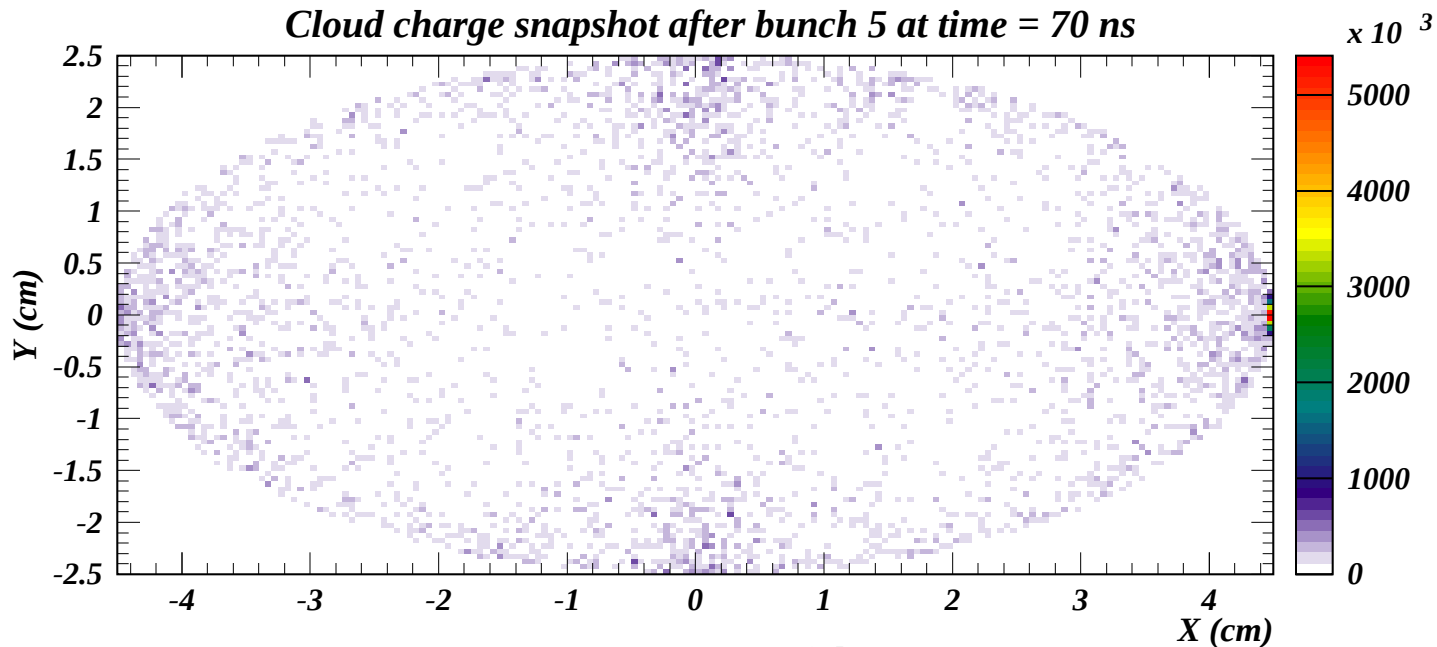
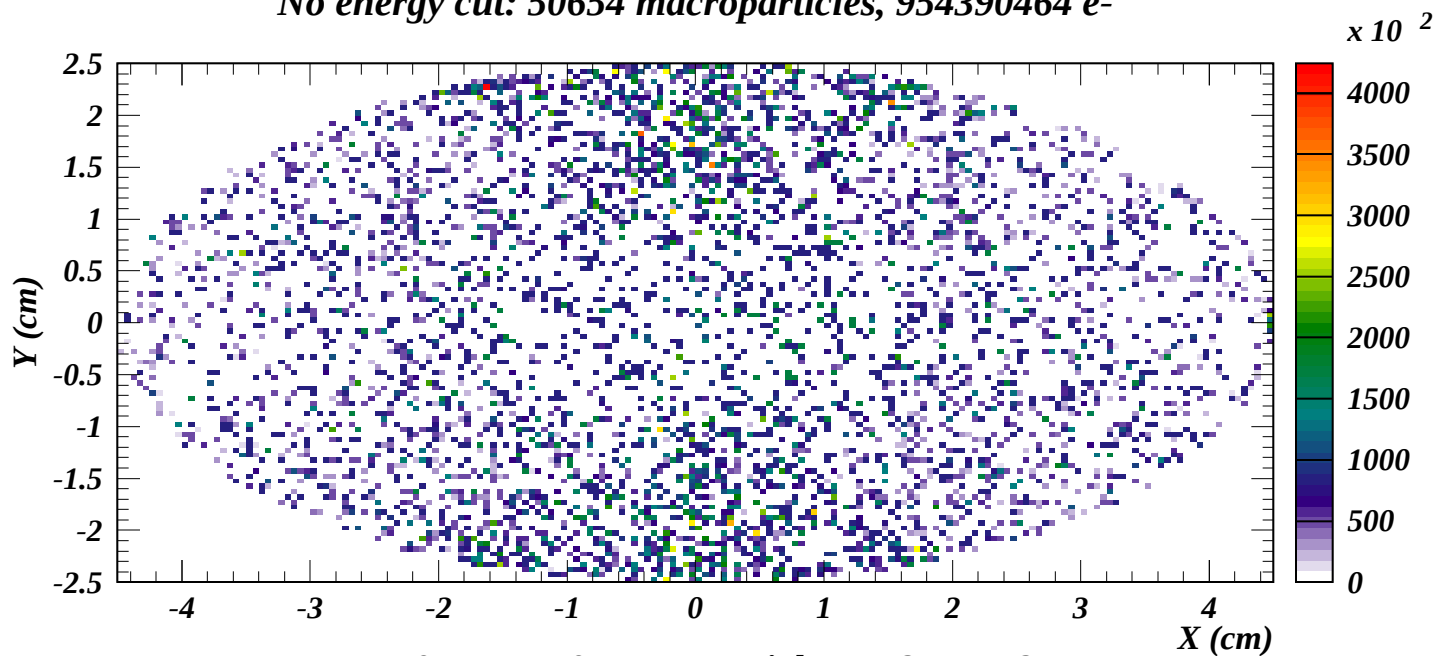


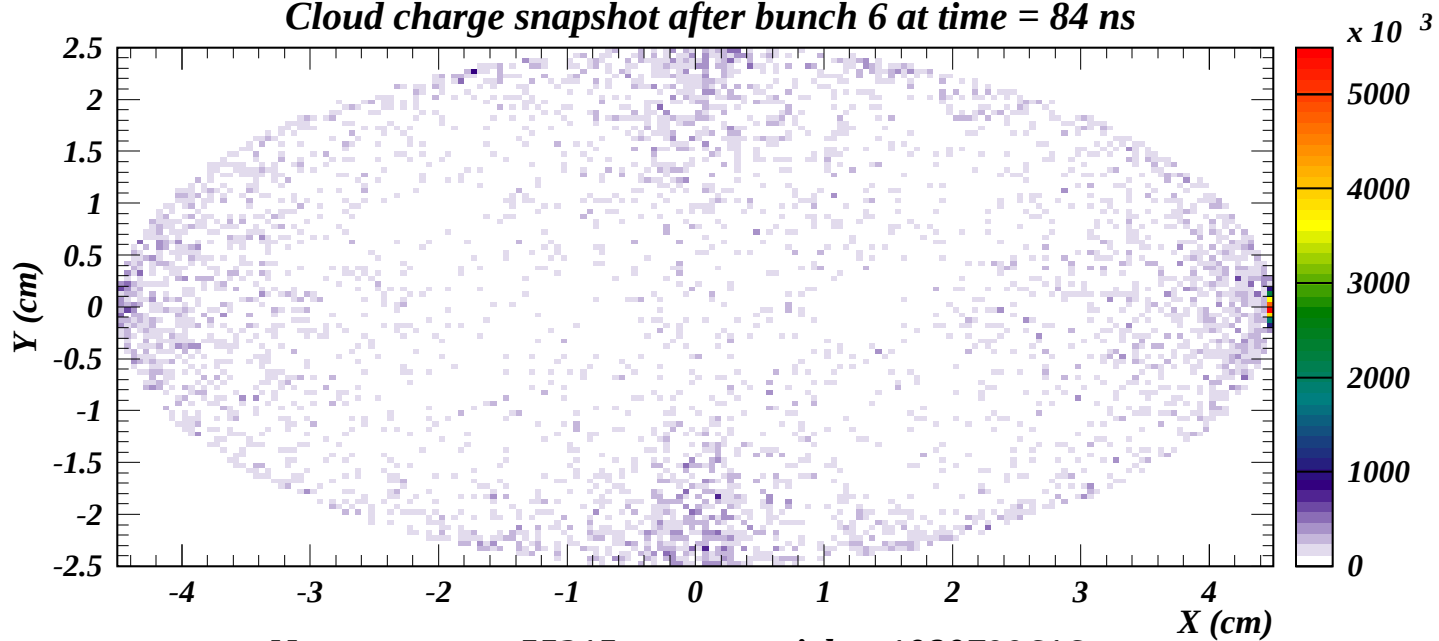
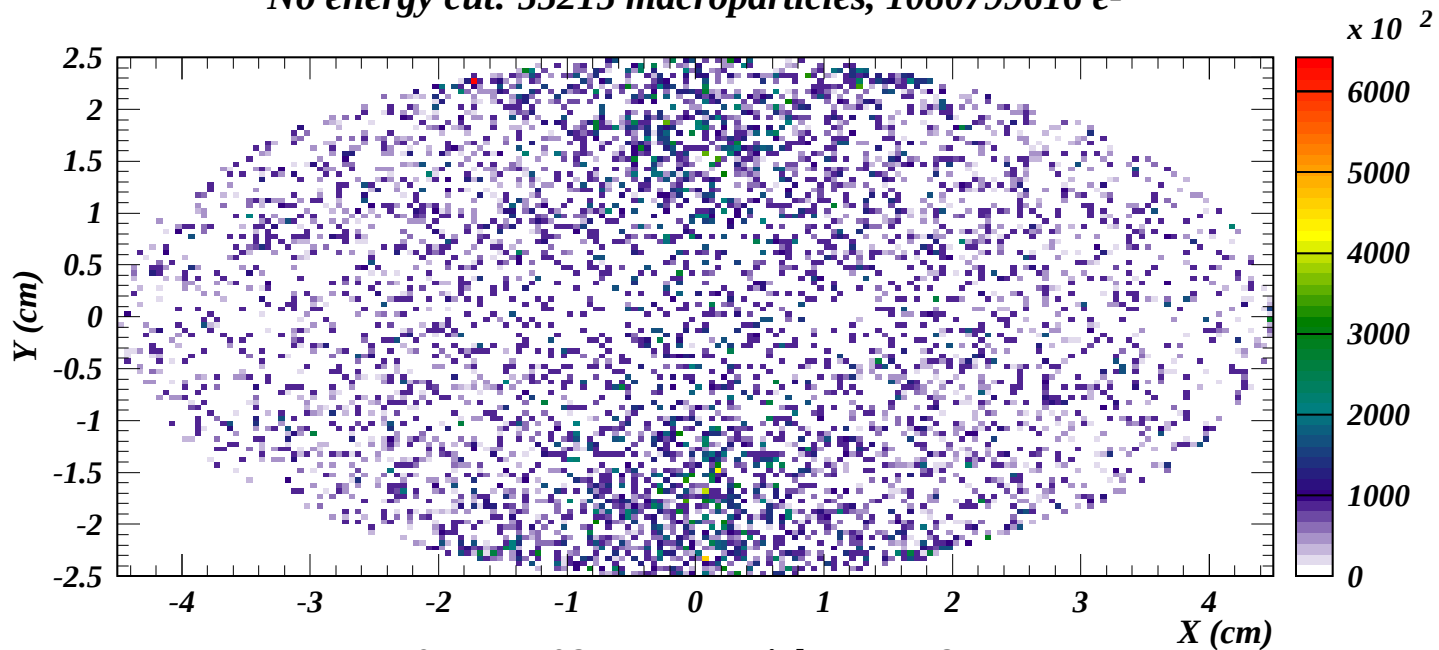
Cloud charge snapshot after bunch 1 at time = 14 ns*No energy cut: 24245 macroparticles, 284030304 e-* *$E_{\text{kin}} > 10$ eV: 1423 macroparticles, 113193872 e-*

Cloud charge snapshot after bunch 2 at time = 28 ns*No energy cut: 35260 macroparticles, 493046208 e-* *$E_{\text{kin}} > 10$ eV: 2304 macroparticles, 174682560 e-*

Cloud charge snapshot after bunch 3 at time = 42 ns*No energy cut: 41518 macroparticles, 671989184 e-* *$E_{\text{kin}} > 10$ eV: 3489 macroparticles, 241368688 e-*

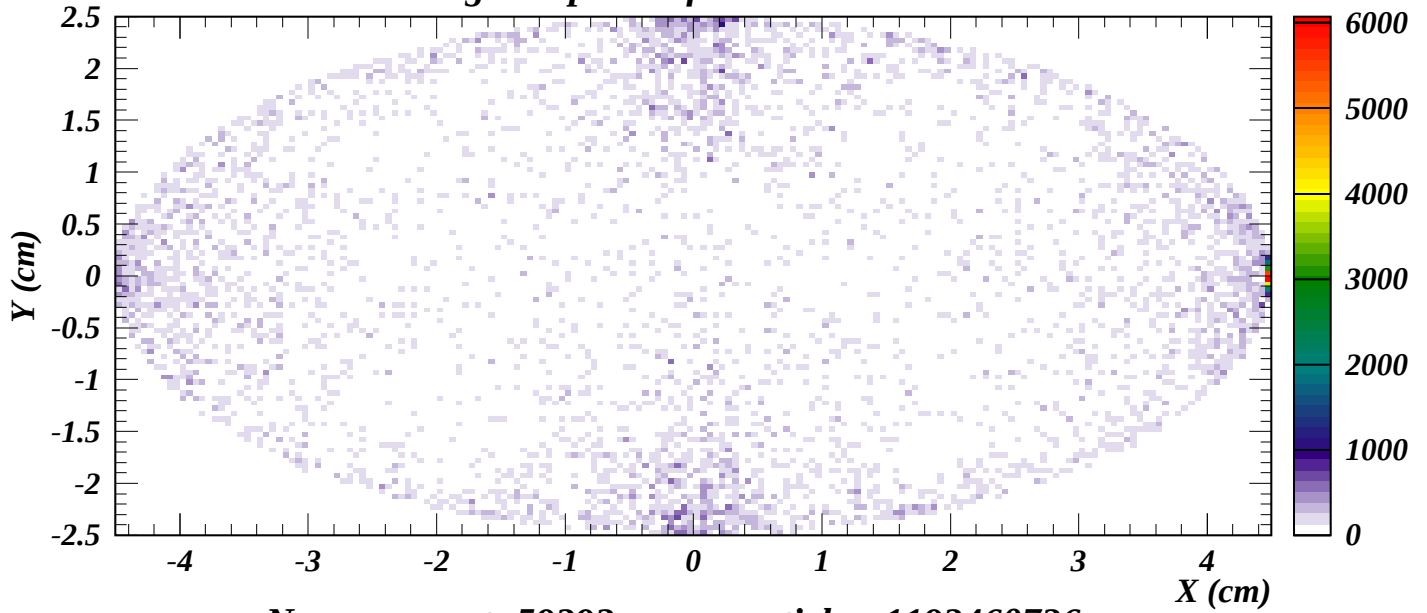
Cloud charge snapshot after bunch 4 at time = 56 ns*No energy cut: 46475 macroparticles, 820445568 e⁻* *$E_{\text{kin}} > 10$ eV: 4449 macroparticles, 295129792 e⁻*

Cloud charge snapshot after bunch 5 at time = 70 ns*No energy cut: 50654 macroparticles, 954390464 e-* *$E_{\text{kin}} > 10$ eV: 5460 macroparticles, 338693728 e-*

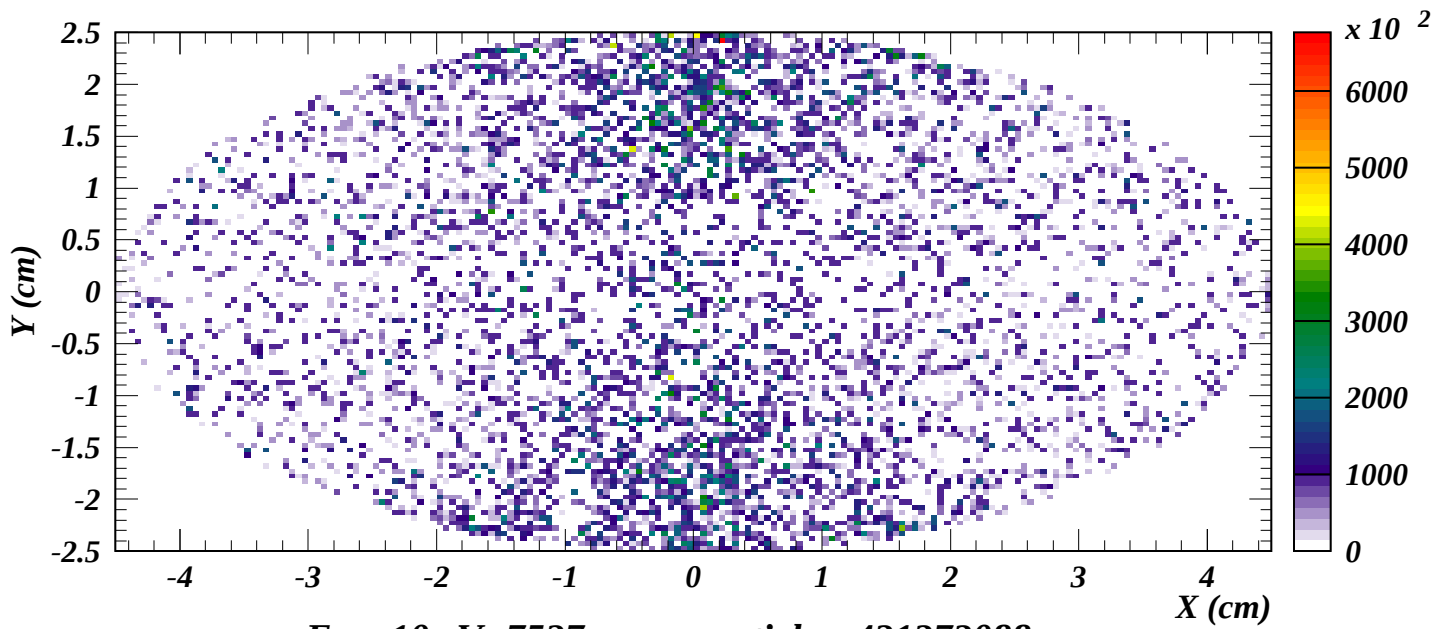
Cloud charge snapshot after bunch 6 at time = 84 ns*No energy cut: 55215 macroparticles, 1080799616 e-* *$E_{\text{kin}} > 10$ eV: 6608 macroparticles, 393985632 e-*

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 $\times 10^3$

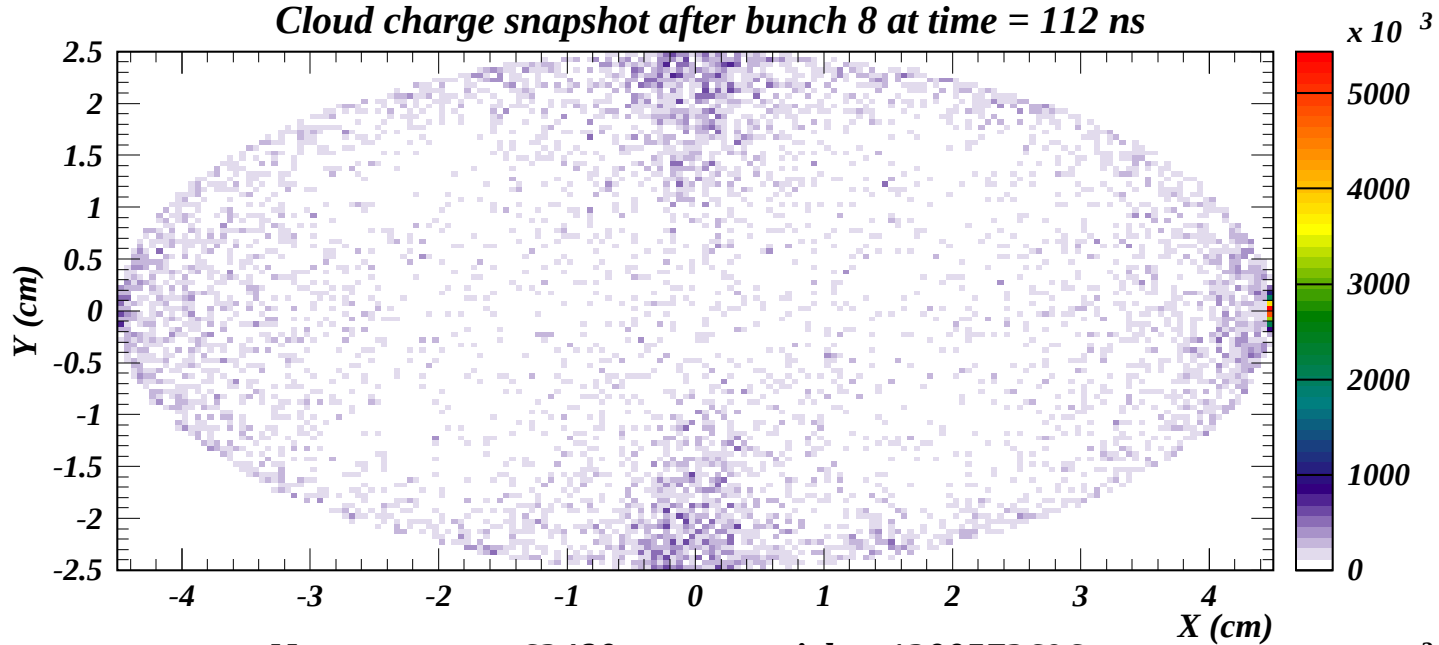
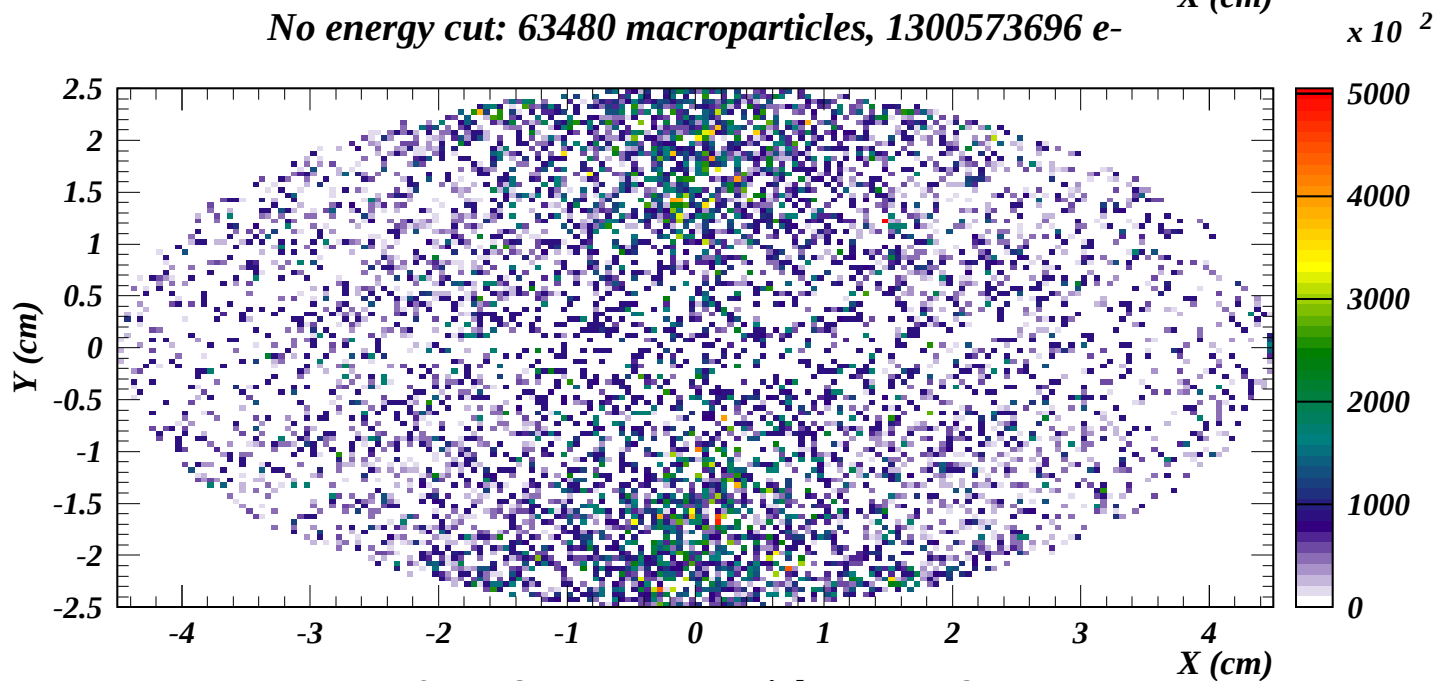
Cloud charge snapshot after bunch 7 at time = 98 ns

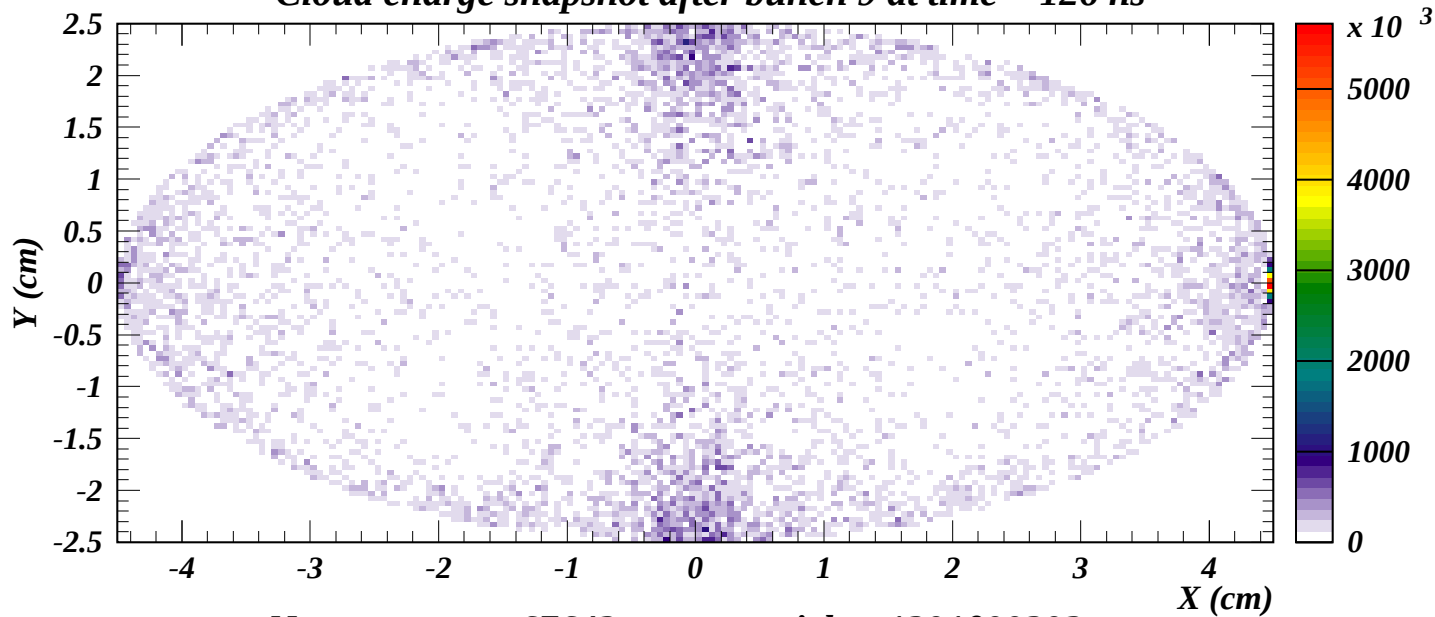
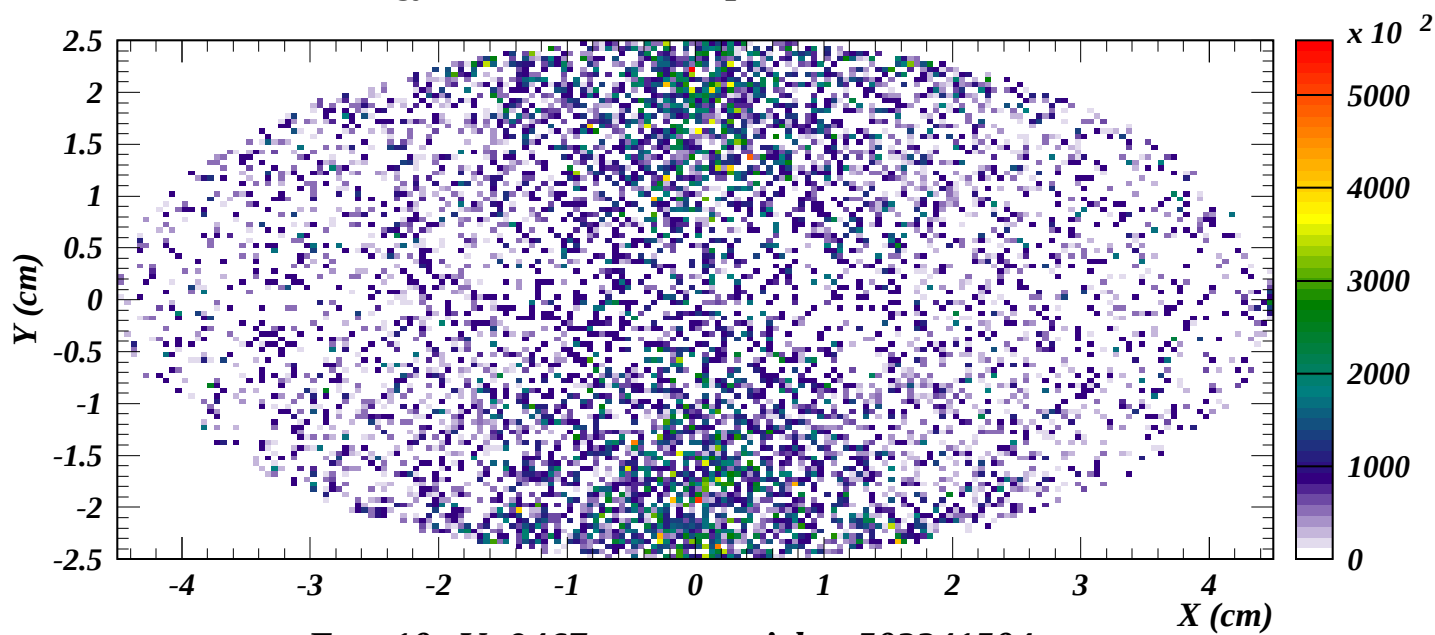


No energy cut: 59392 macroparticles, 1193460736 e⁻



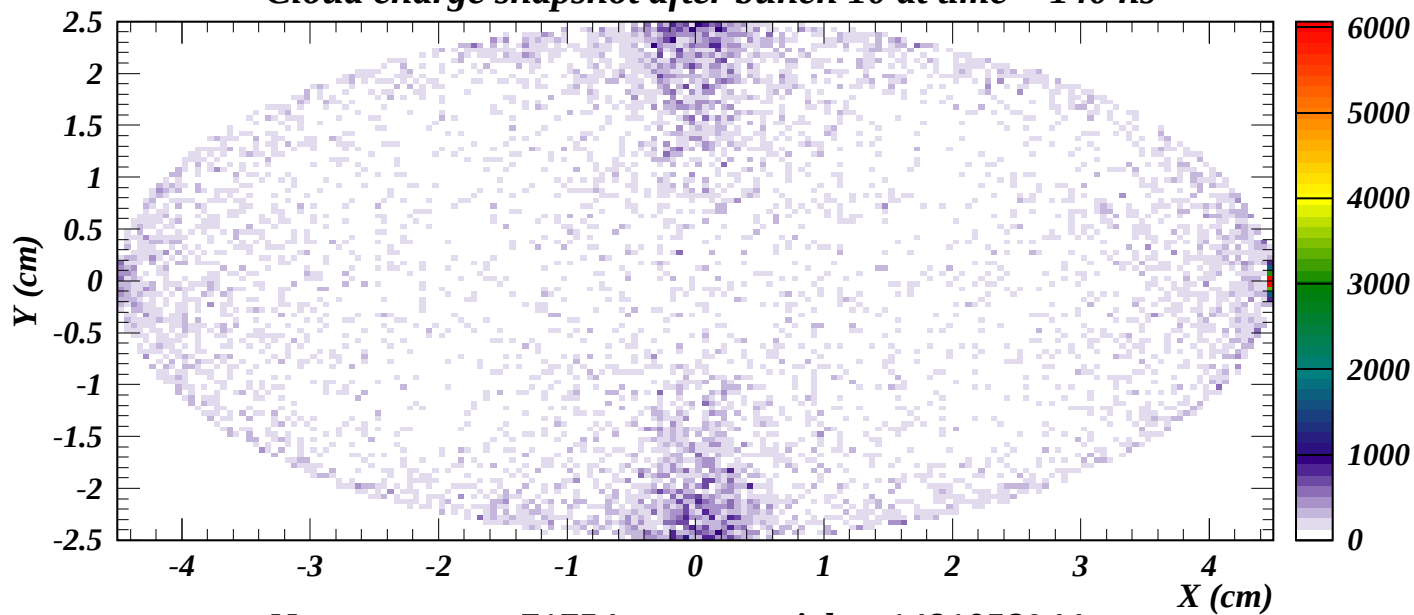
$E_{\text{kin}} > 10$ eV: 7527 macroparticles, 431373088 e⁻

Cloud charge snapshot after bunch 8 at time = 112 ns*No energy cut: 63480 macroparticles, 1300573696 e⁻* *$E_{\text{kin}} > 10$ eV: 8535 macroparticles, 472558656 e⁻*

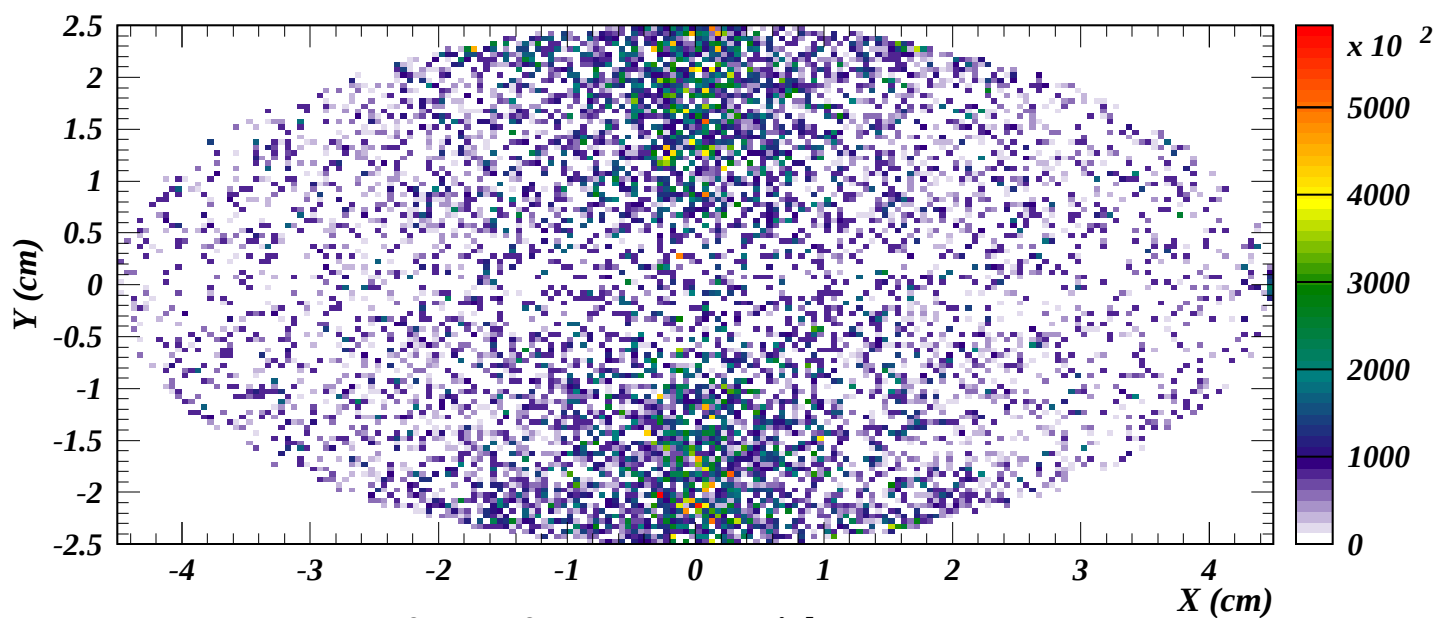
Cloud charge snapshot after bunch 9 at time = 126 ns*No energy cut: 67642 macroparticles, 1391099392 e⁻* *$E_{\text{kin}} > 10$ eV: 9467 macroparticles, 502241504 e⁻*

10/05/12 14.24
 $\times 10^3$

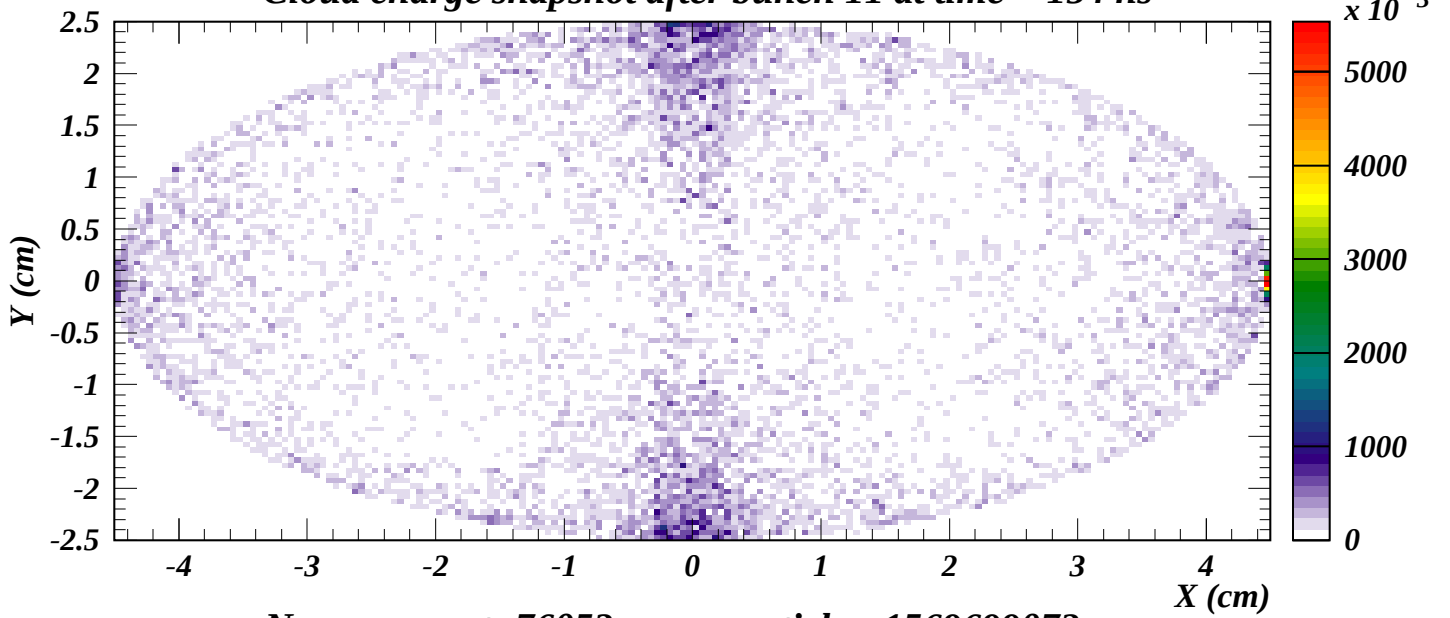
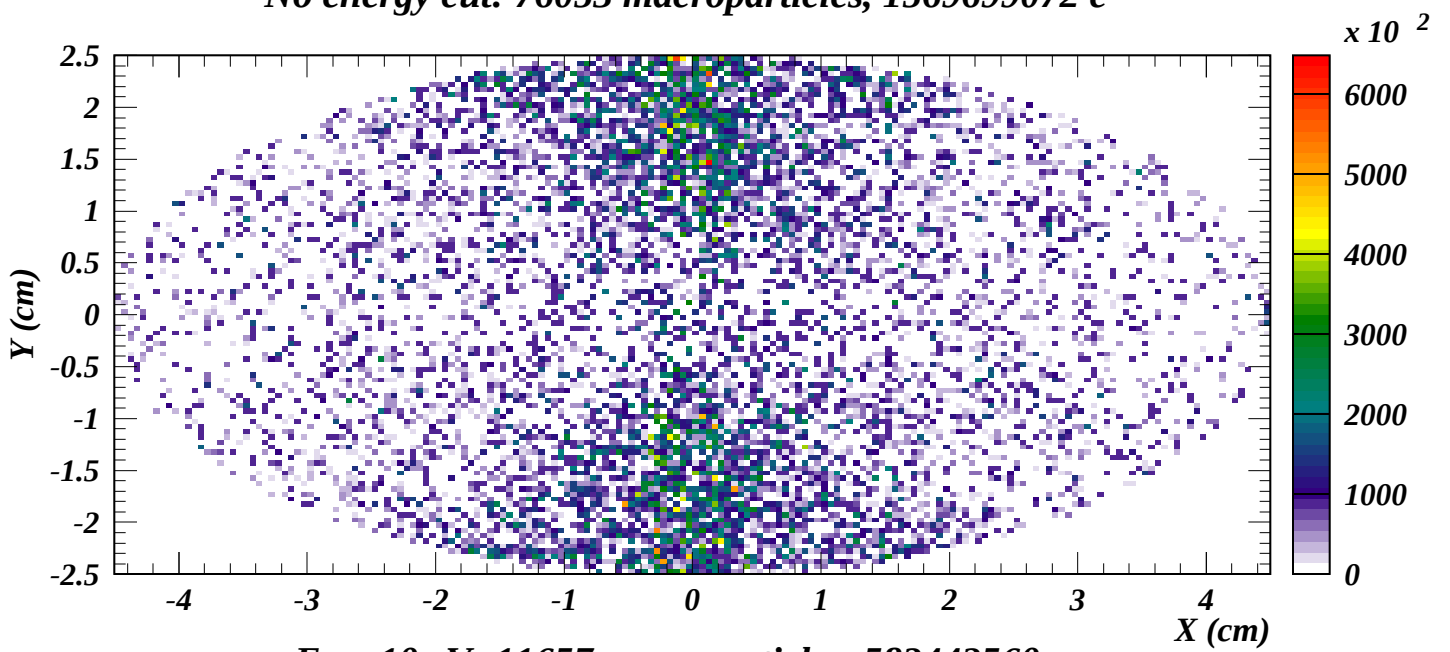
Cloud charge snapshot after bunch 10 at time = 140 ns

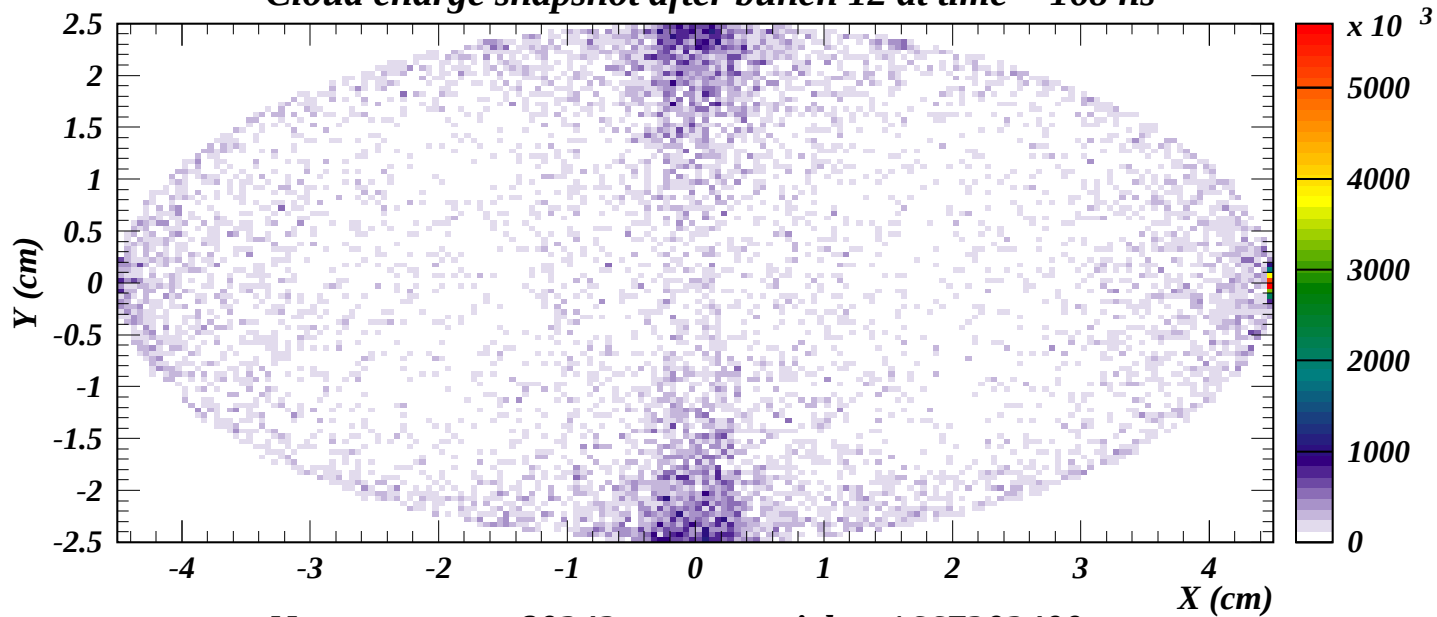
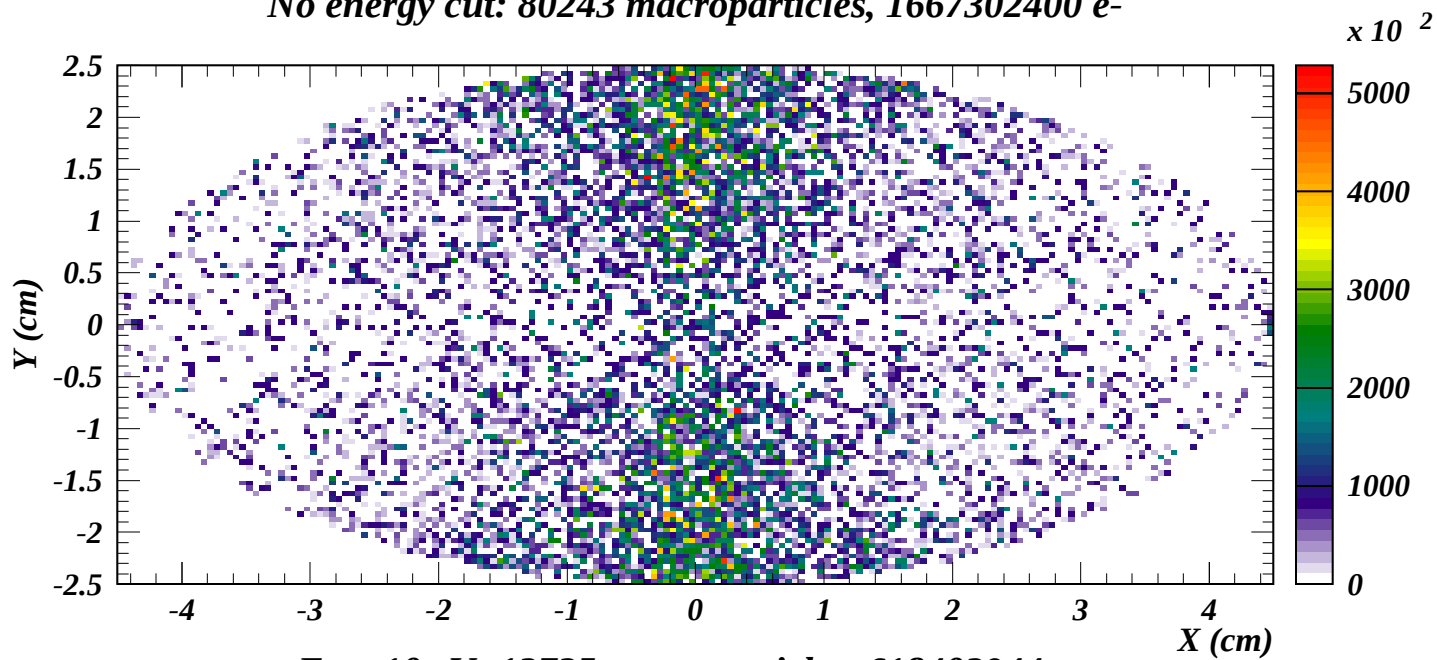


No energy cut: 71754 macroparticles, 1481058944 e⁻



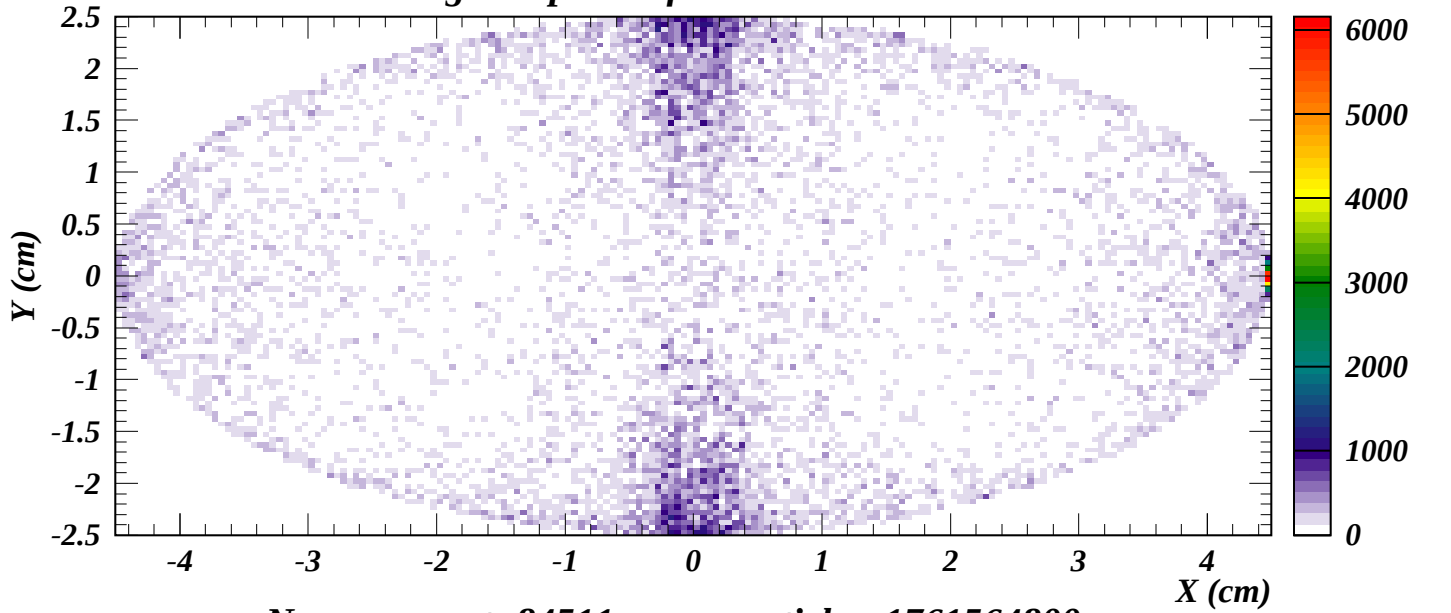
$E_{kin} > 10$ eV: 10552 macroparticles, 546253376 e⁻

Cloud charge snapshot after bunch 11 at time = 154 ns*No energy cut: 76053 macroparticles, 1569699072 e⁻* *$E_{kin} > 10$ eV: 11657 macroparticles, 583442560 e⁻*

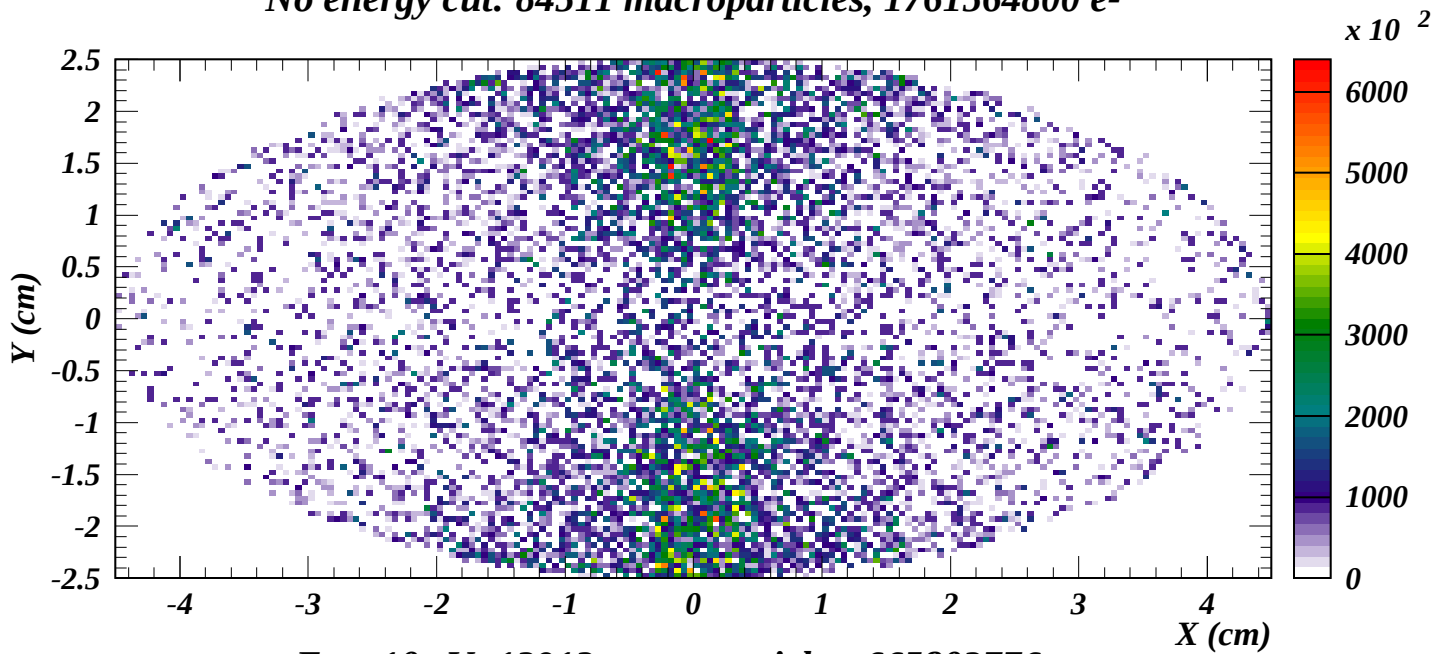
Cloud charge snapshot after bunch 12 at time = 168 ns*No energy cut: 80243 macroparticles, 1667302400 e⁻* *$E_{kin} > 10$ eV: 12725 macroparticles, 618402944 e⁻*

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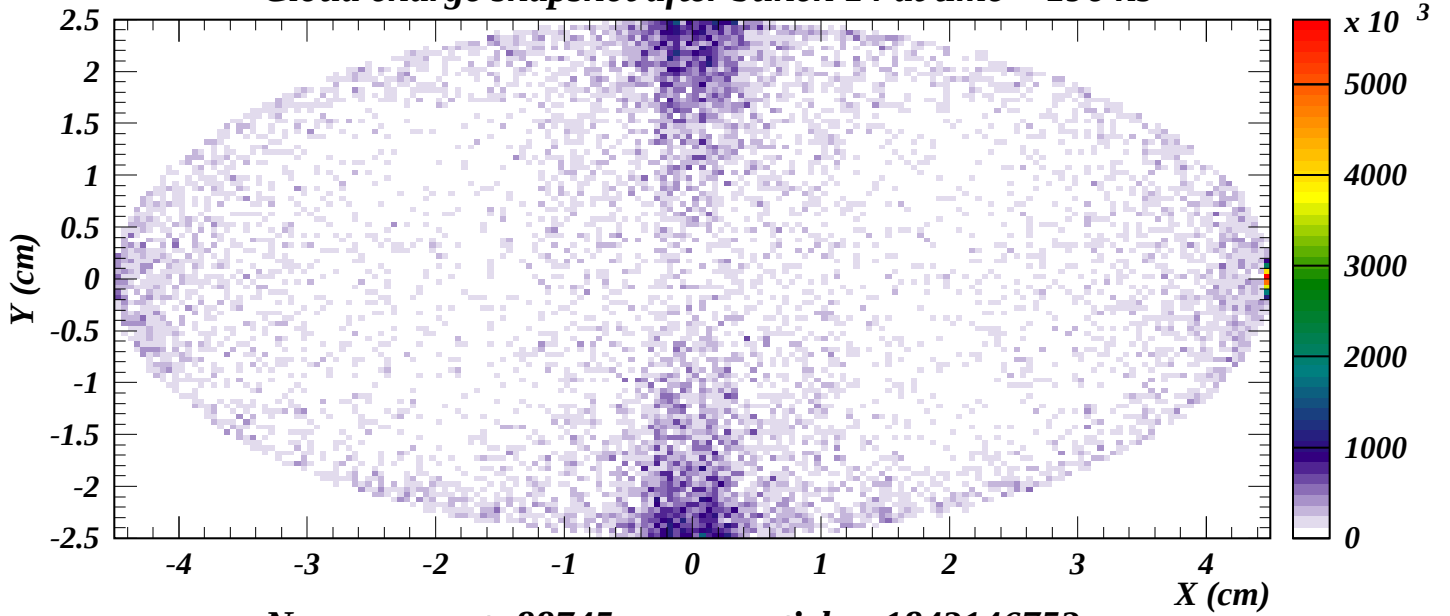
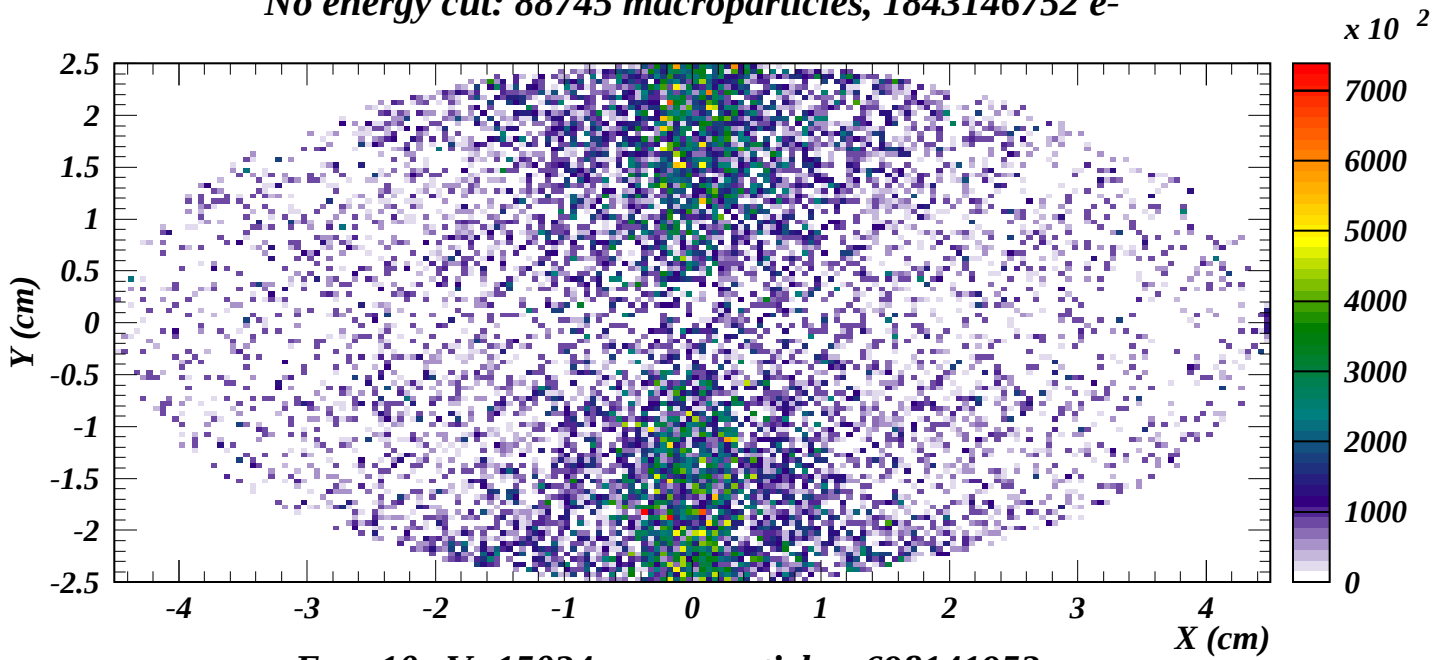
Cloud charge snapshot after bunch 13 at time = 182 ns



No energy cut: 84511 macroparticles, 1761564800 e-

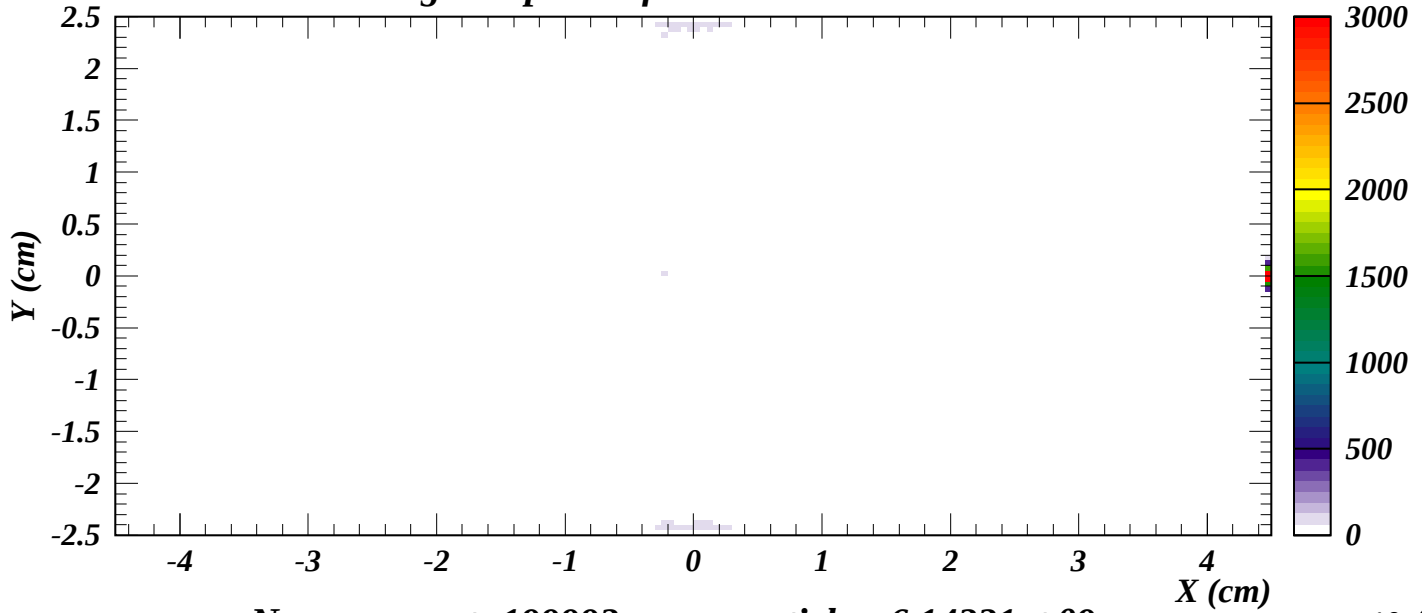


$E_{kin} > 10$ eV: 13913 macroparticles, 665803776 e-

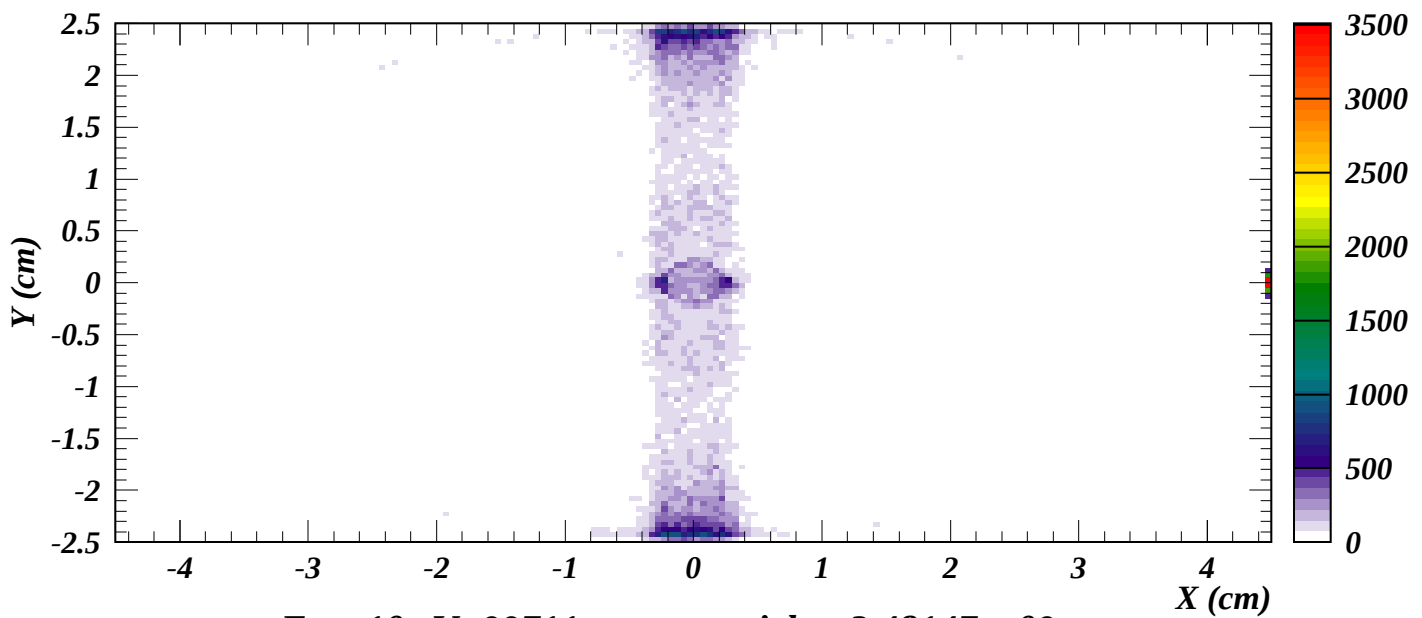
Cloud charge snapshot after bunch 14 at time = 196 ns*No energy cut: 88745 macroparticles, 1843146752 e⁻* *$E_{kin} > 10$ eV: 15024 macroparticles, 698141952 e⁻*

10/05/12 14.24
 $\times 10^5$

Cloud charge snapshot after bunch 45 at time = 616.31 ns



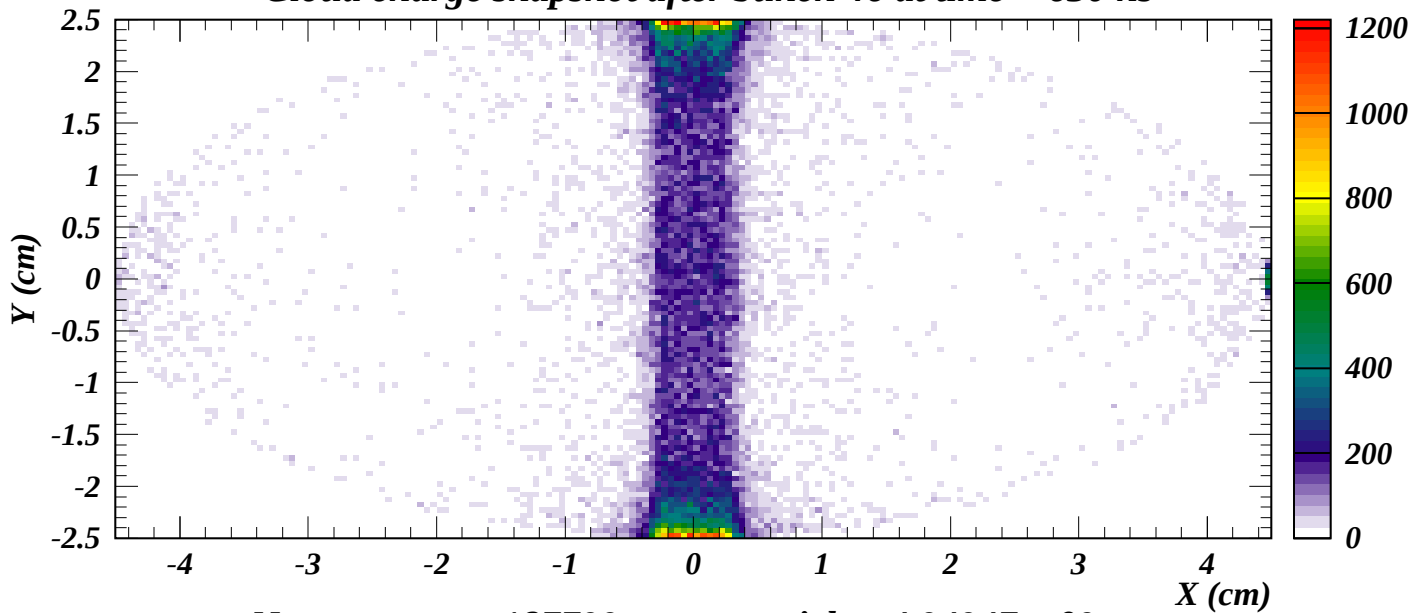
No energy cut: 199992 macroparticles, $6.14221e+09 e^-$



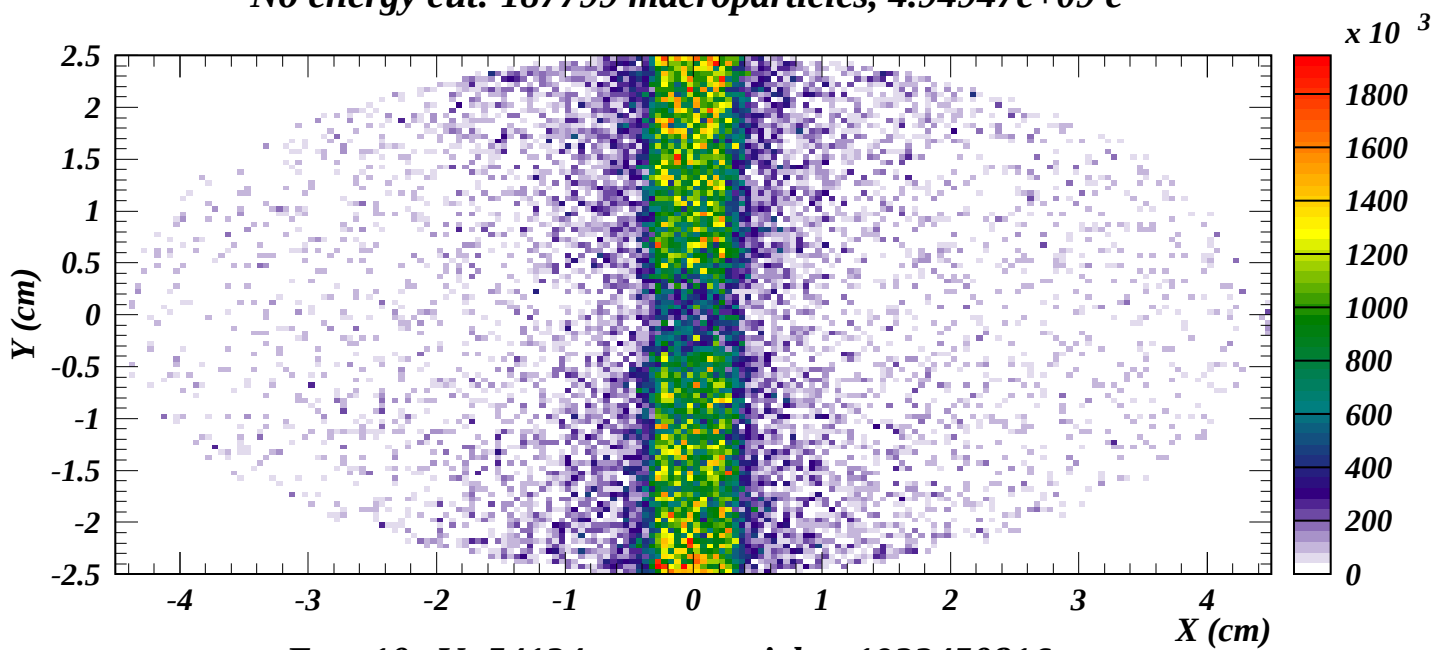
$E_{kin} > 10$ eV: 99711 macroparticles, $3.48147e+09 e^-$

10/05/12 14.24
x 10⁻⁴

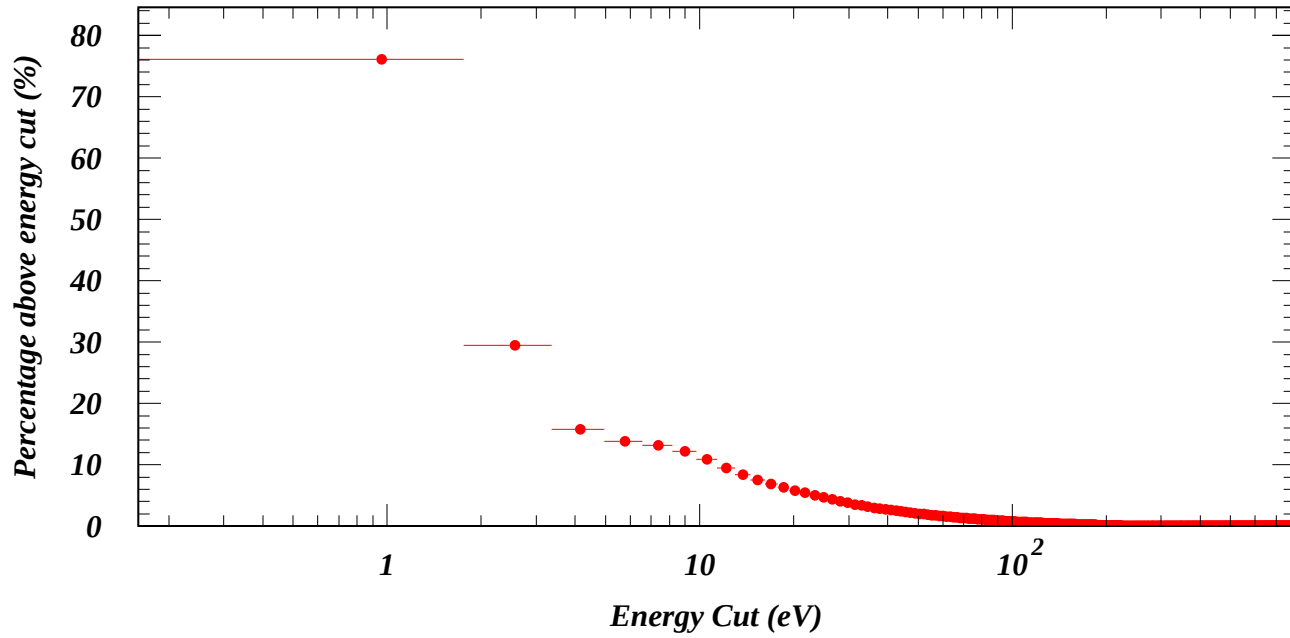
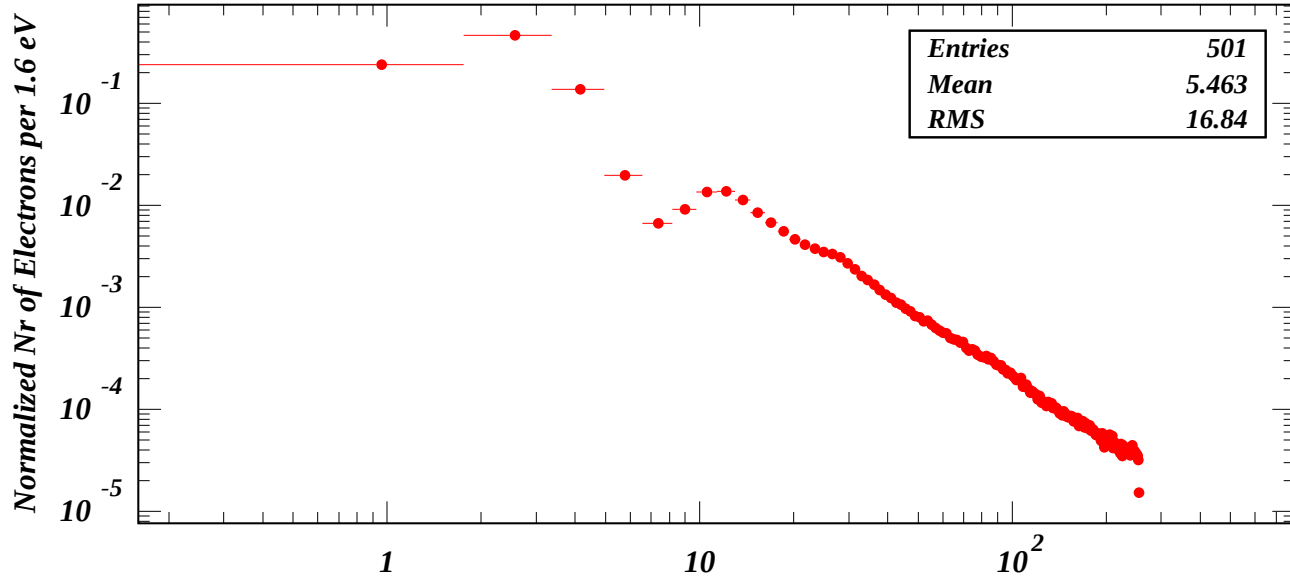
Cloud charge snapshot after bunch 46 at time = 630 ns

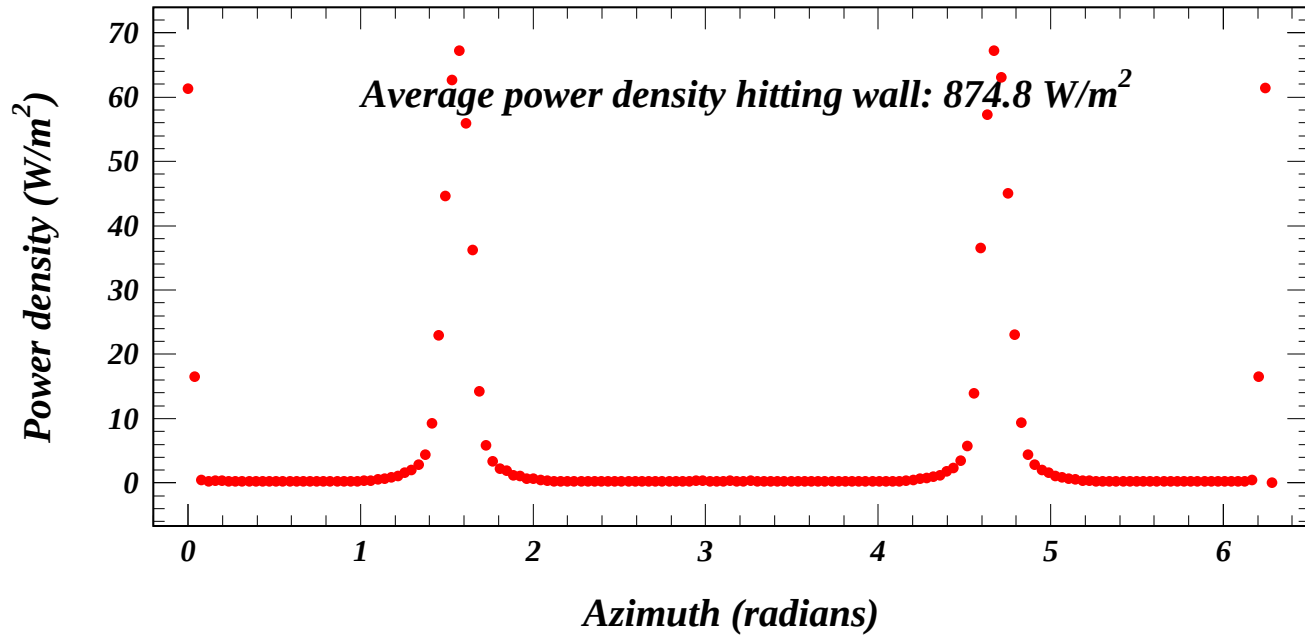
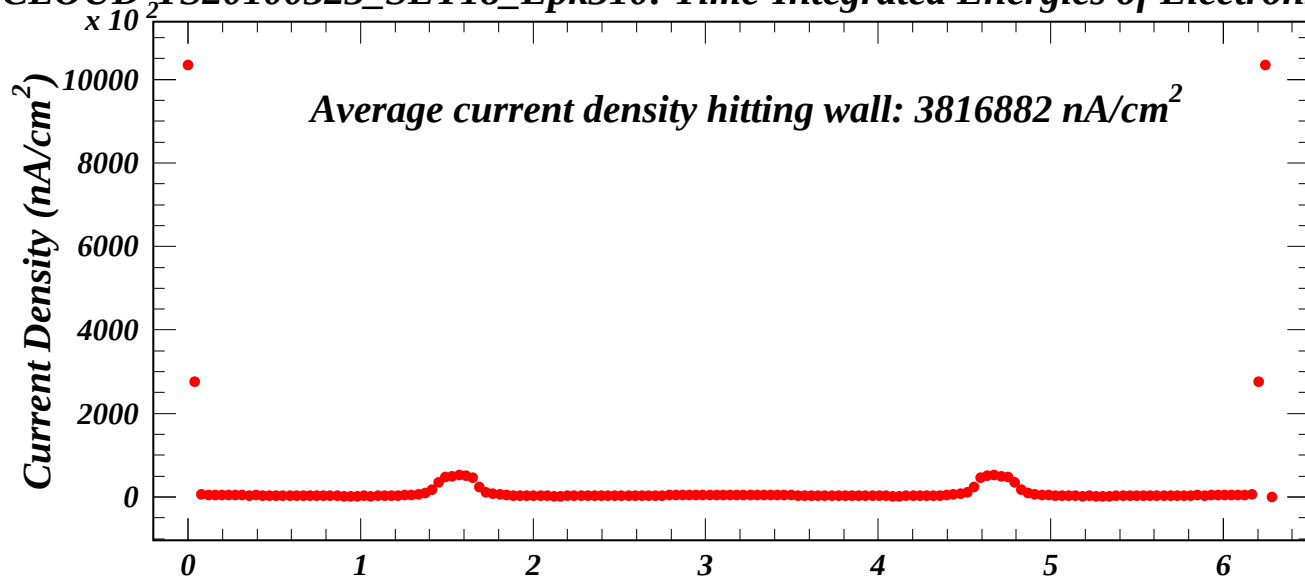


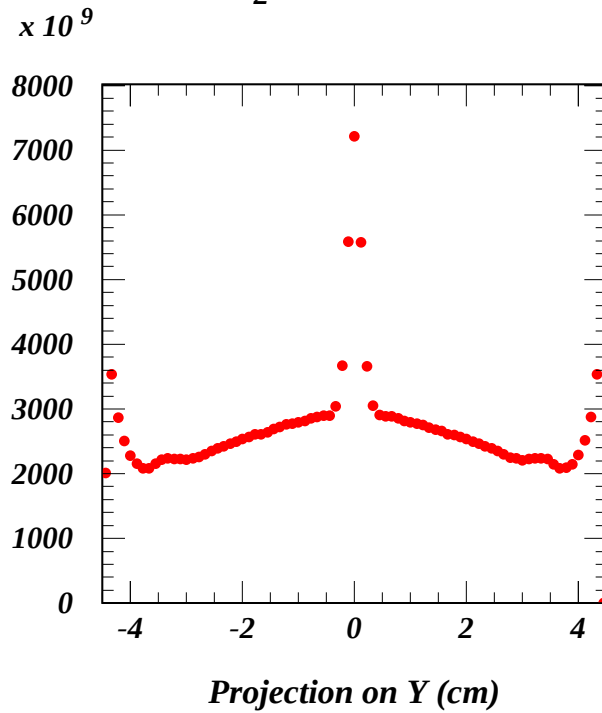
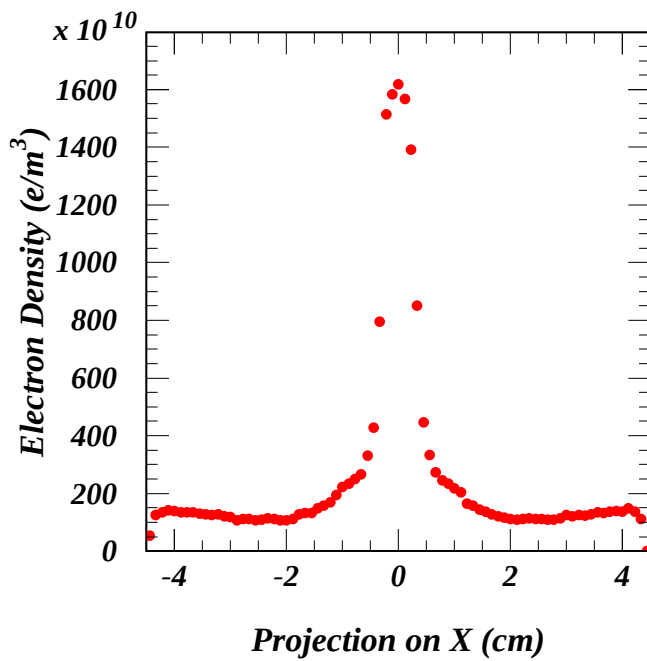
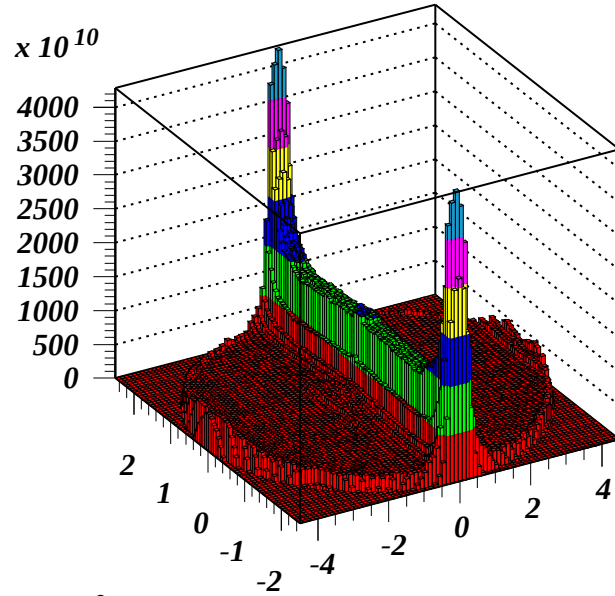
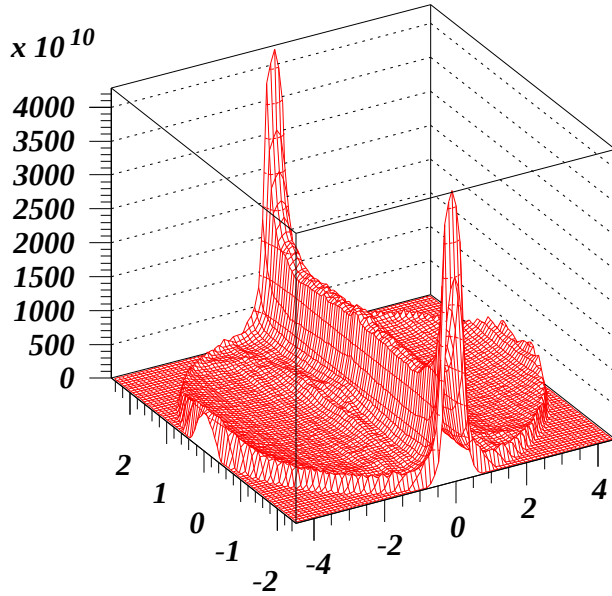
No energy cut: 187799 macroparticles, 4.94947e+09 e-



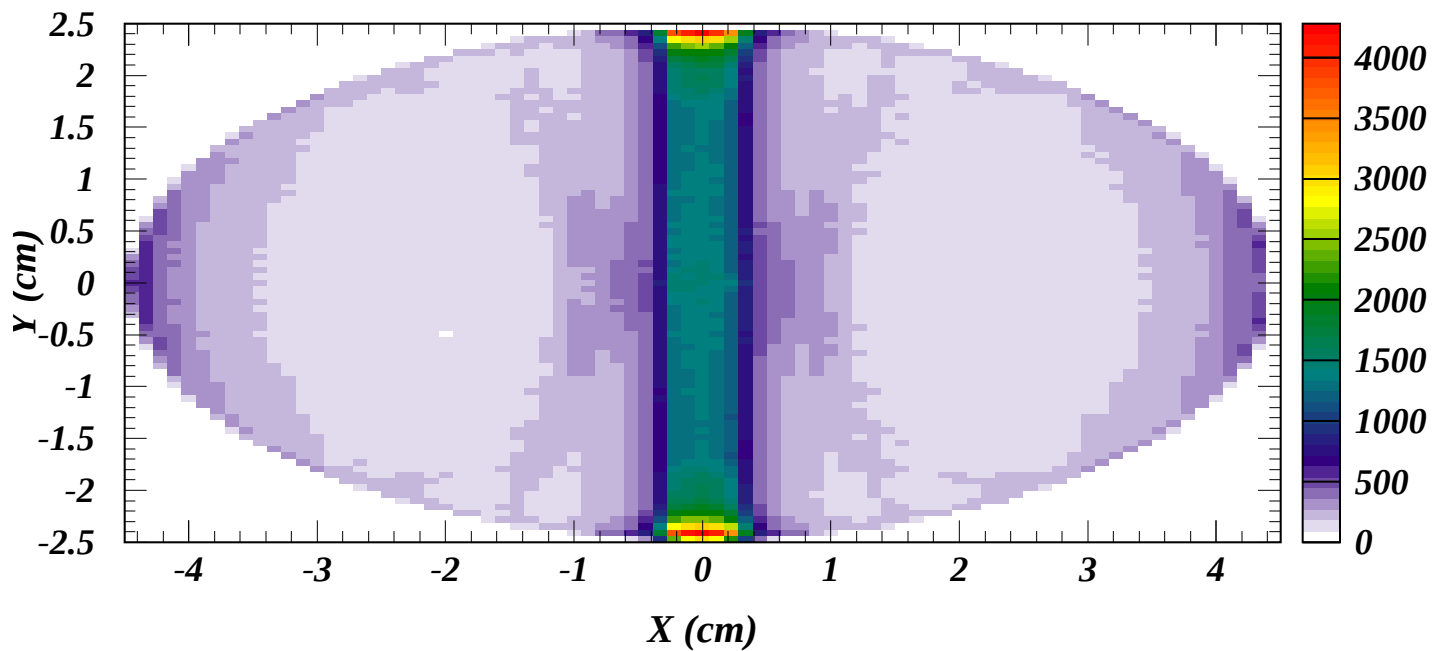
$E_{kin} > 10$ eV: 54134 macroparticles, 1932450816 e-

CLOUD-TS20100323_SEY18_Epk310: Time-Integrated Energies of Electrons Hitting W

CLOUD-TS20100323_SEY18_Epk310: Time-Integrated Energies of Electrons Hitting W

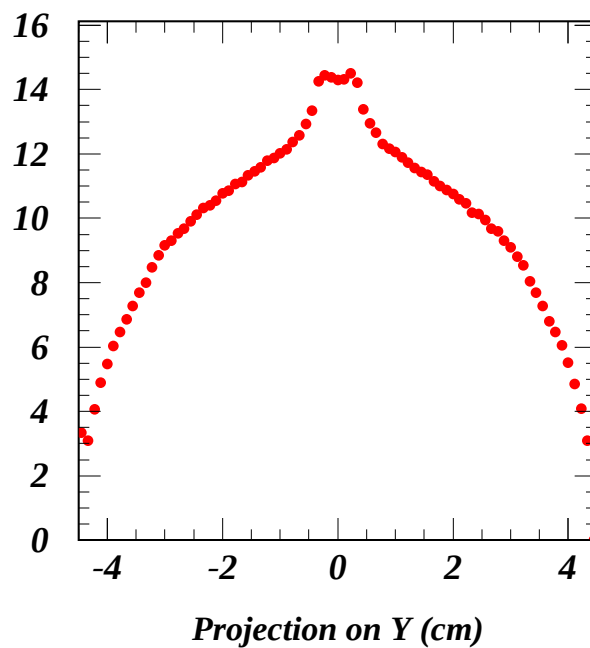
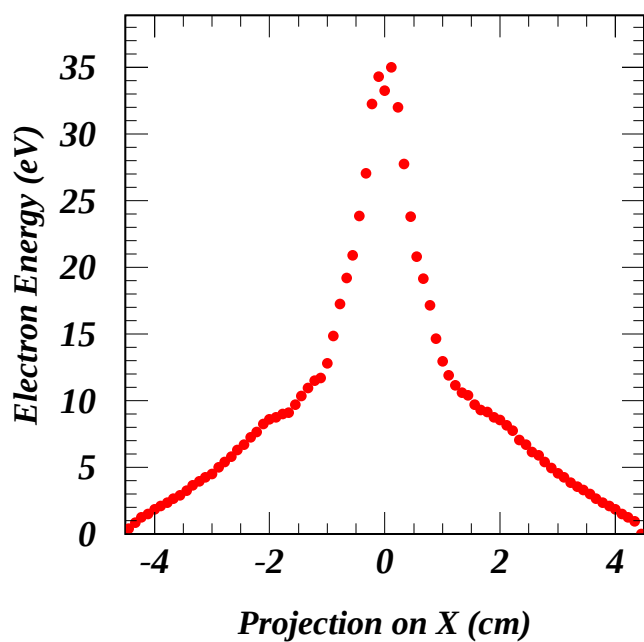
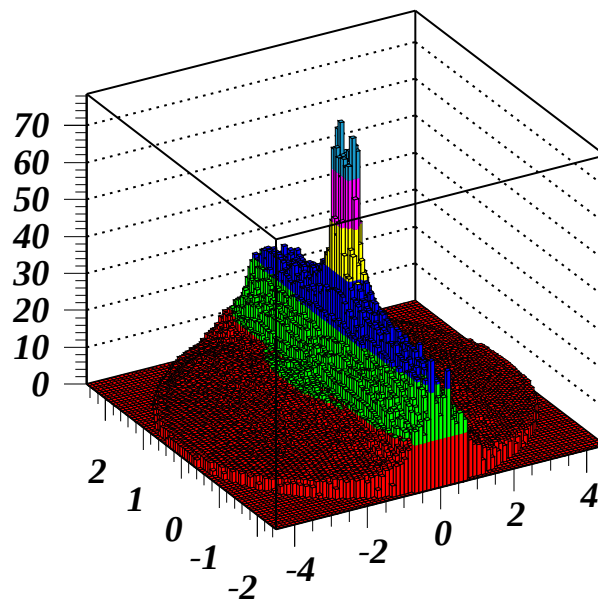
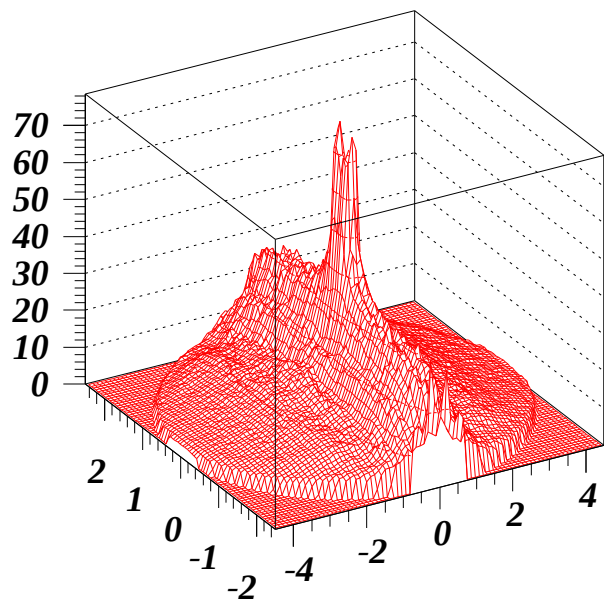
ECLOUD-TS20100323_SEY18_Epk310: Cloud Density (e/m^3) Averaged Over 630 ns

10/05/12 14.24
ECLOUD-TS20100323_SEY18_Epk310: Cloud Density (e/m^3) Averaged Over 630 ns $\times 10^{10}$



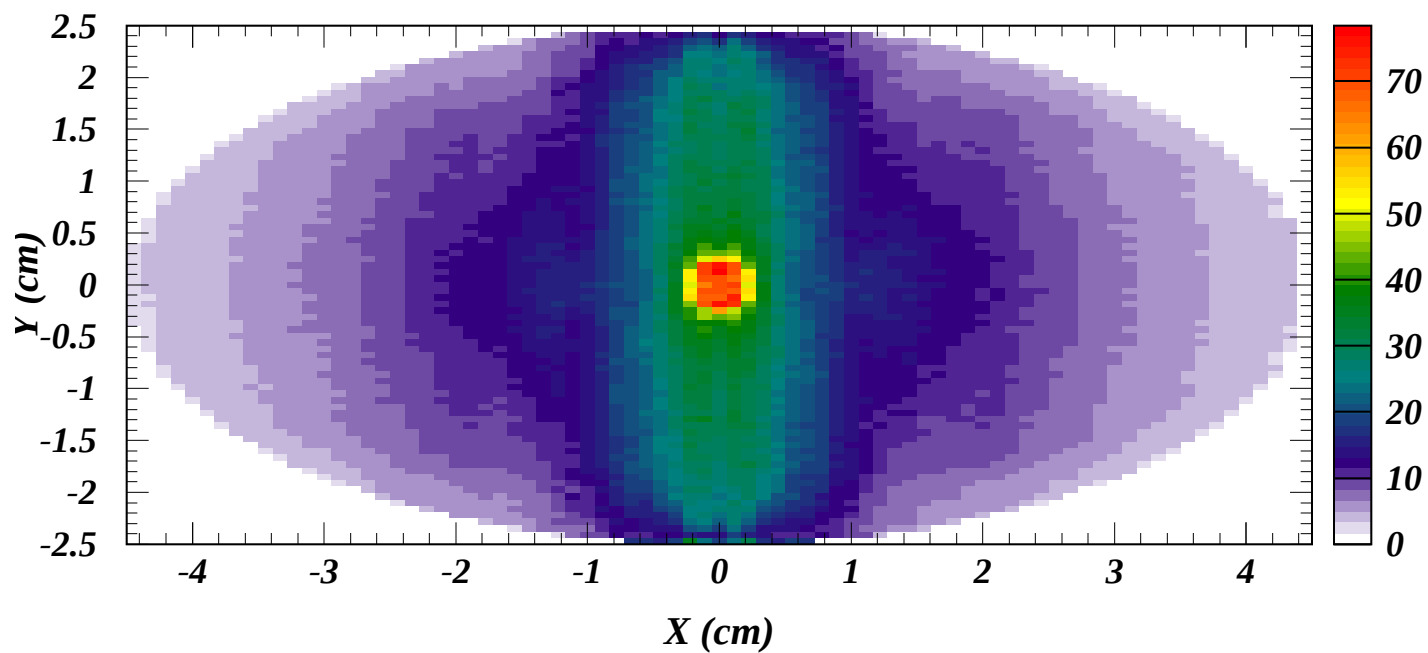
10/05/12 14.24

ECLOUD-TS20100323_SEY18_Epk310: Electron Energies (eV) Averaged Over 630 ns

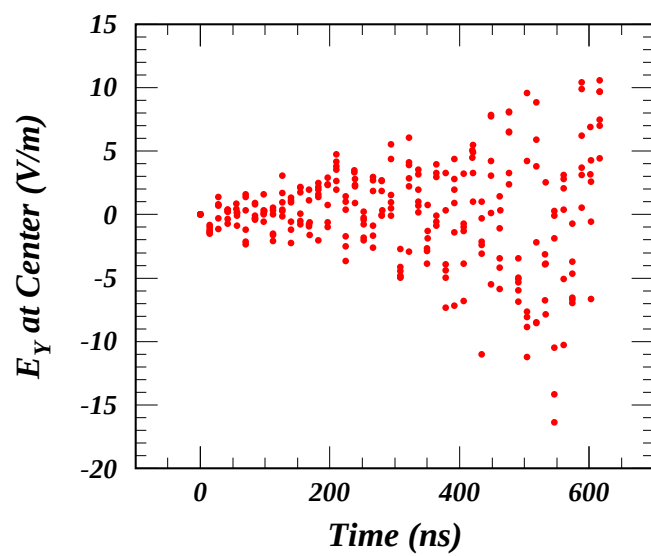
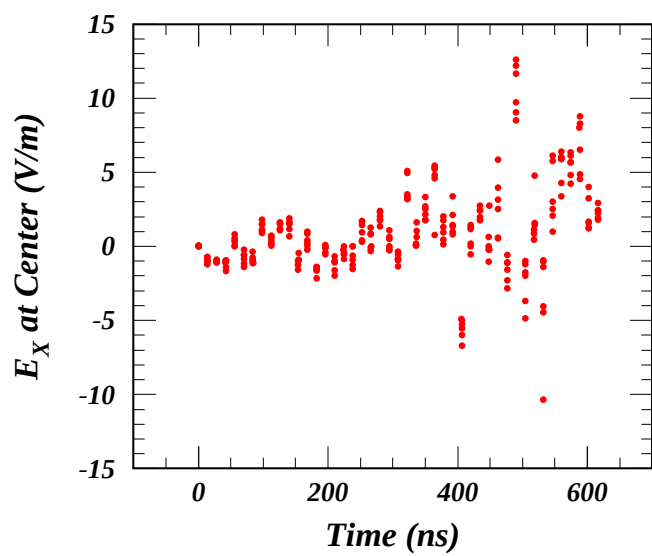


10/05/12 14.24

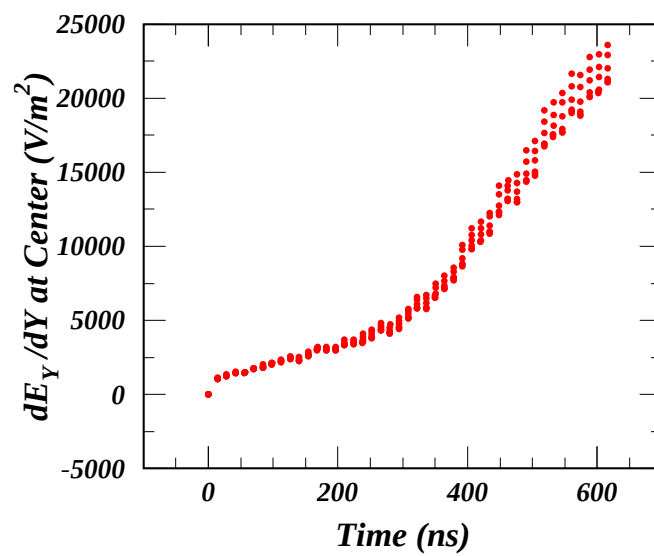
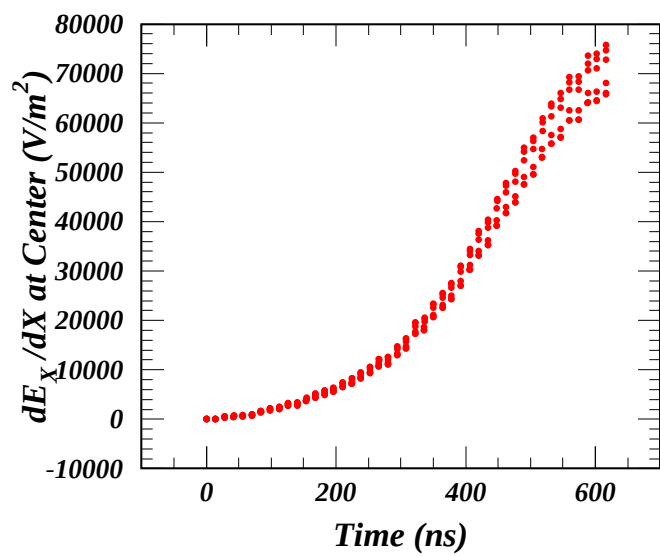
ECLOUD-TS20100323_SEY18_Epk310: Electron Energies (eV) Averaged Over 630 ns



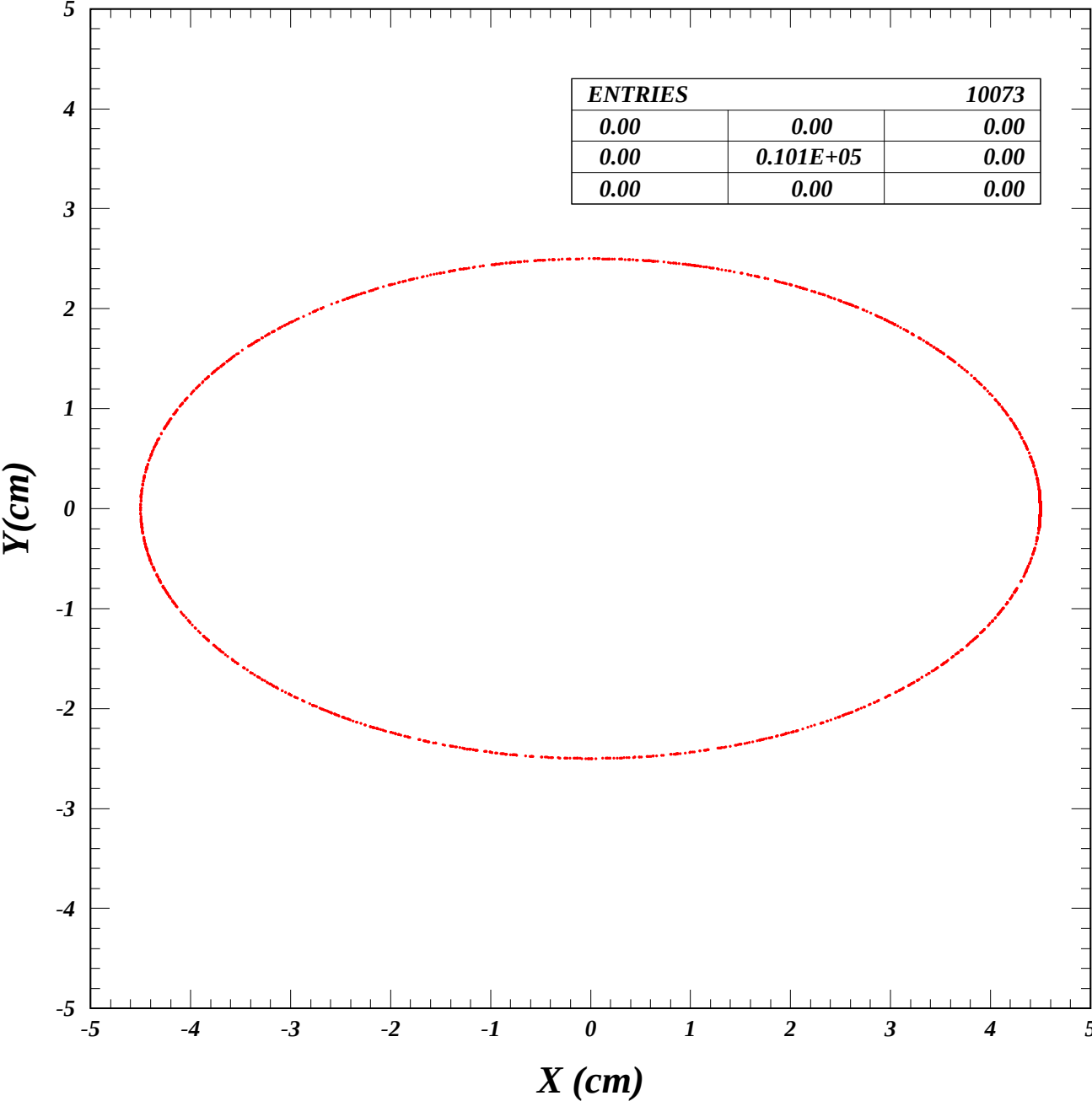
ECLOUD-TS20100323_SEY18_Epk310: Electric Field at Beam



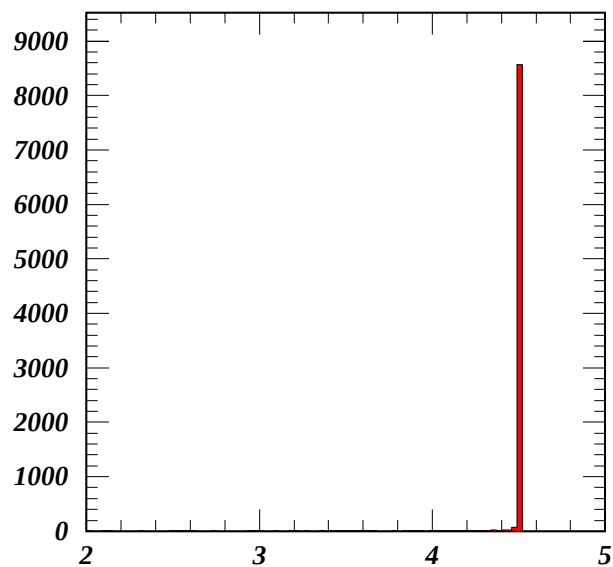
ECLLOUD-TS20100323_SEY18_Epk310Electric Field Gradients at Beam



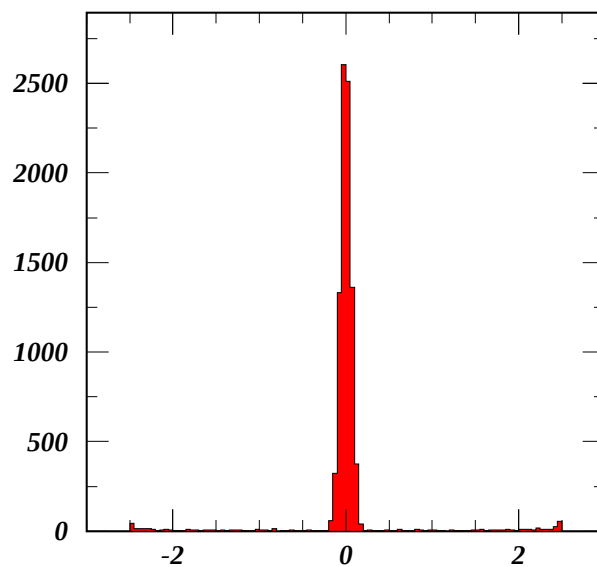
ECLOUD TS20100323_SEY18_Epk310: Primary Photoelectrons



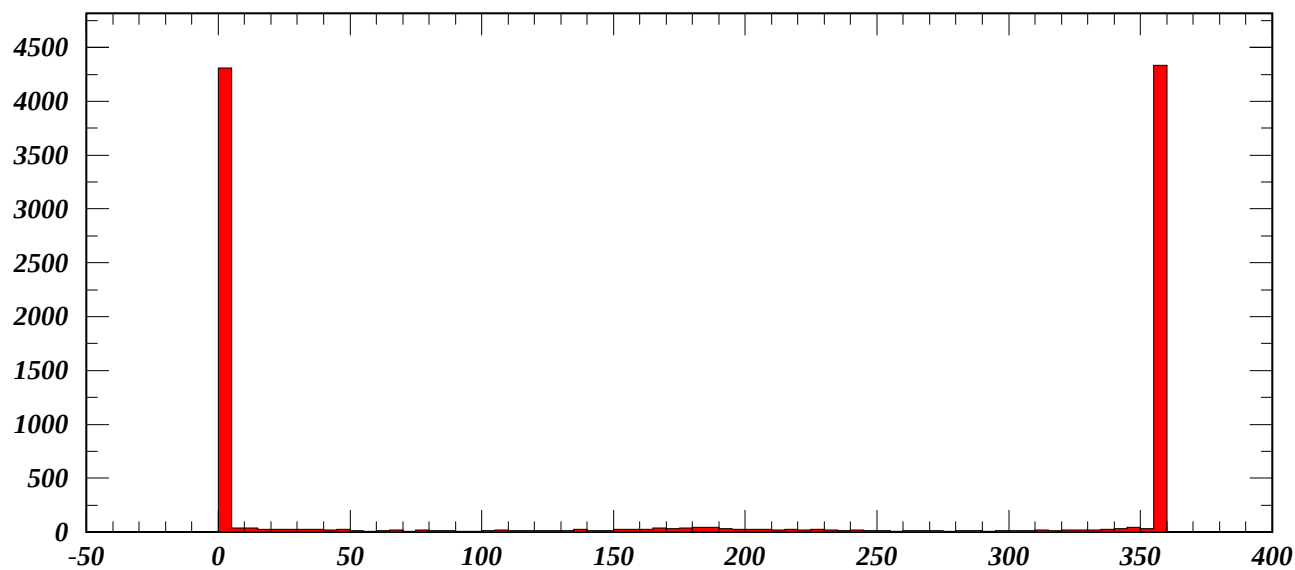
ECLOUD TS20100323_SEY18_Epk310: Primary Photoelectrons



X (cm)



Y (cm) for X>0



ϕ (degrees)