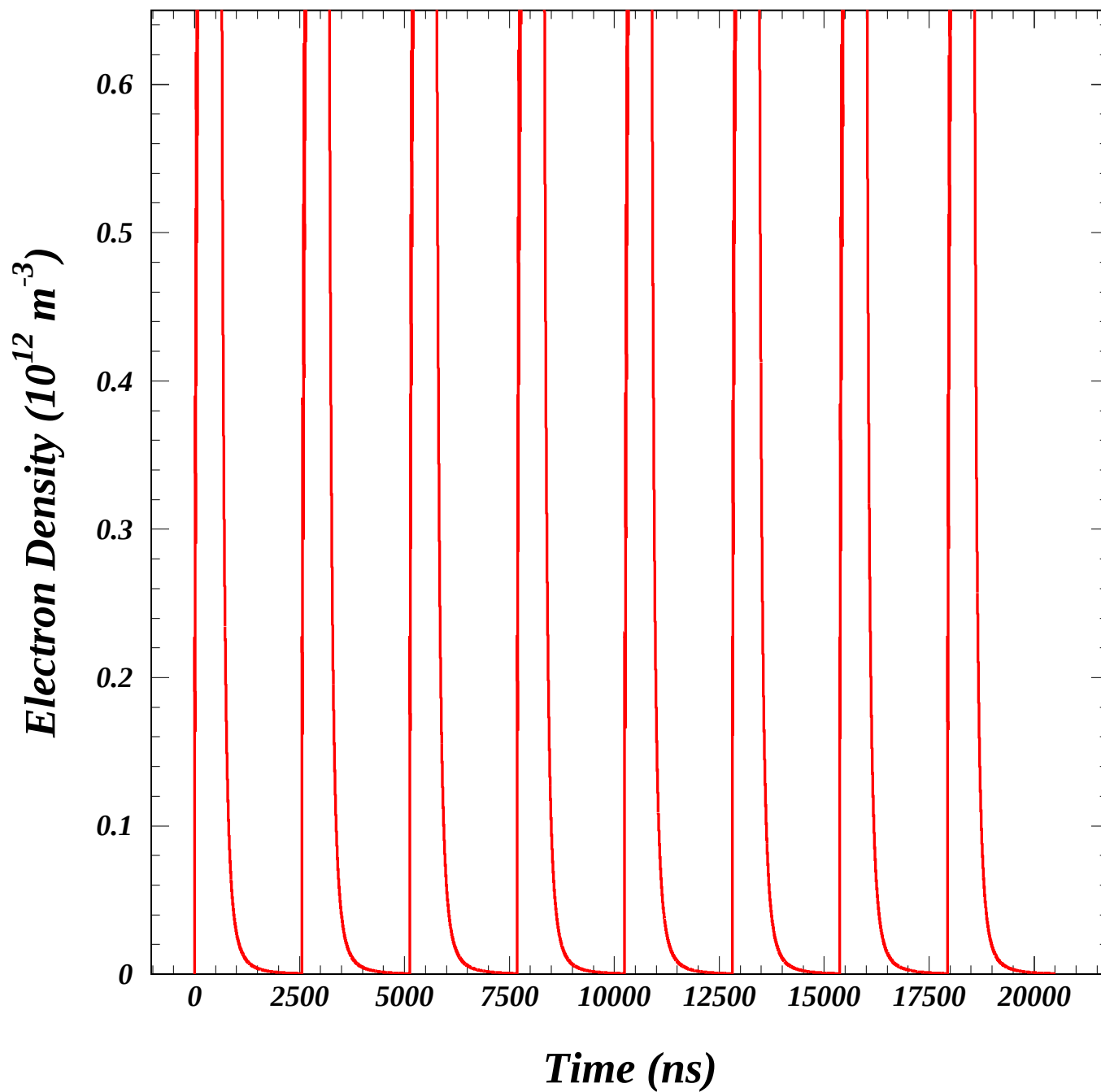
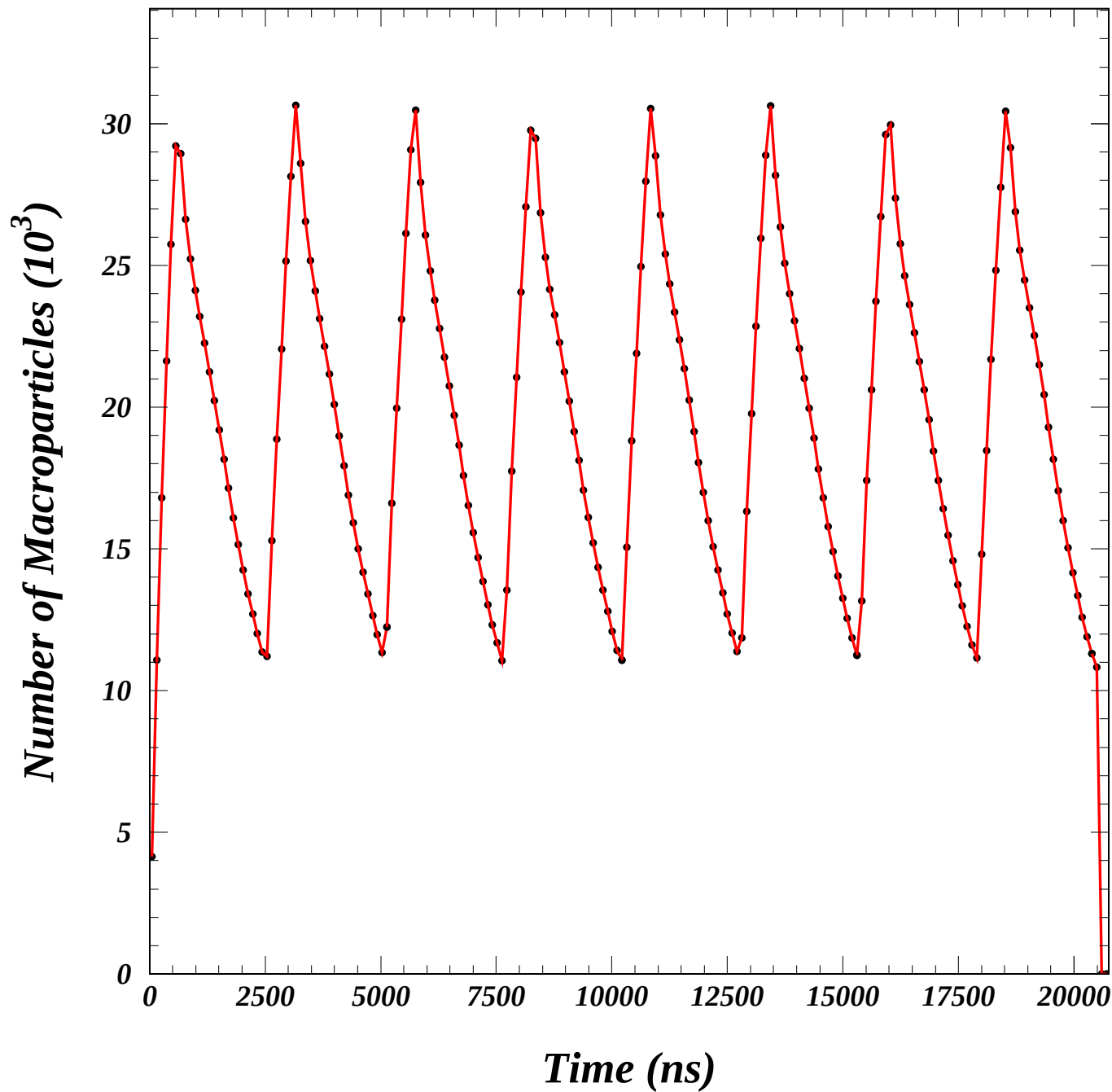
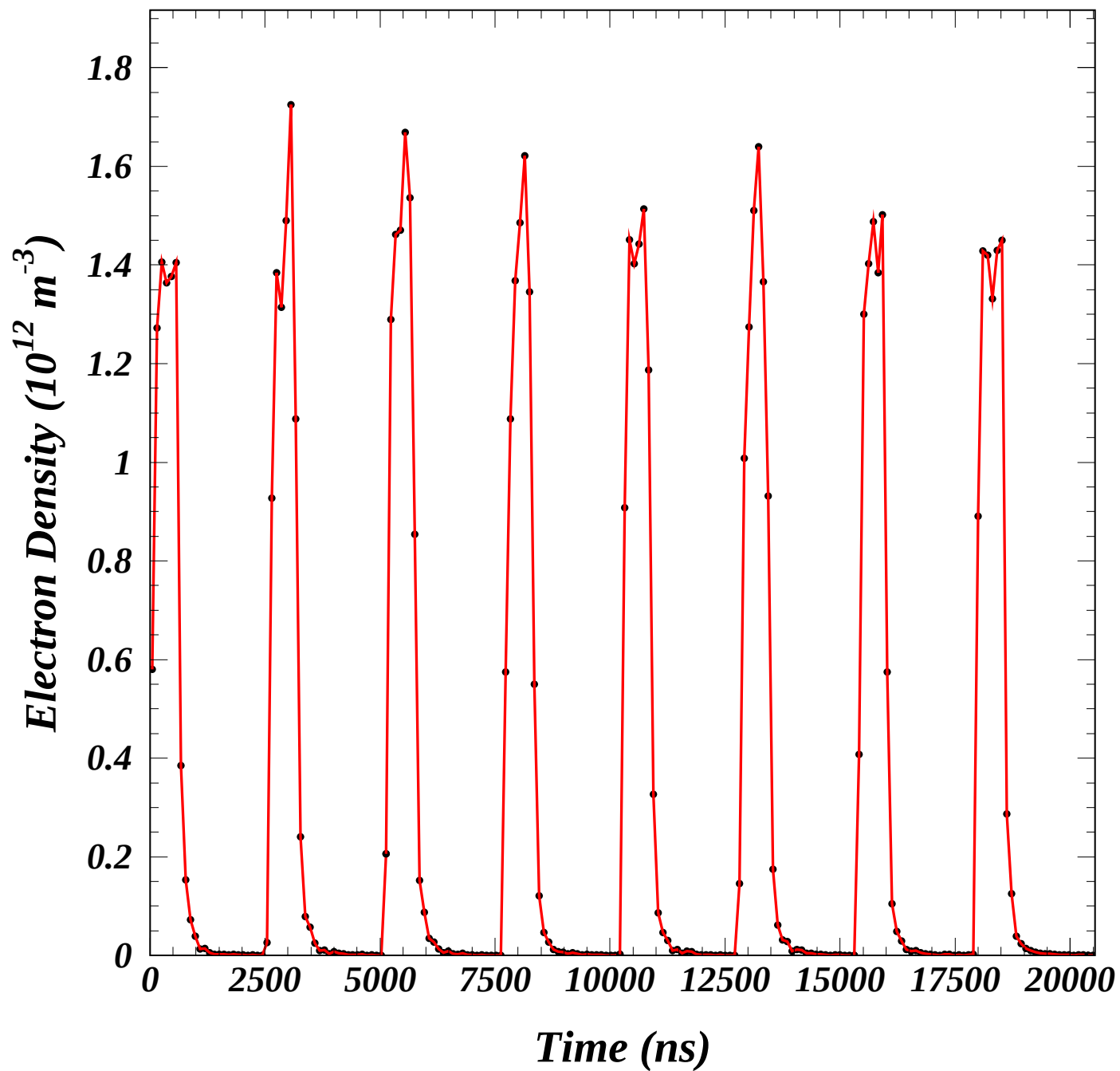


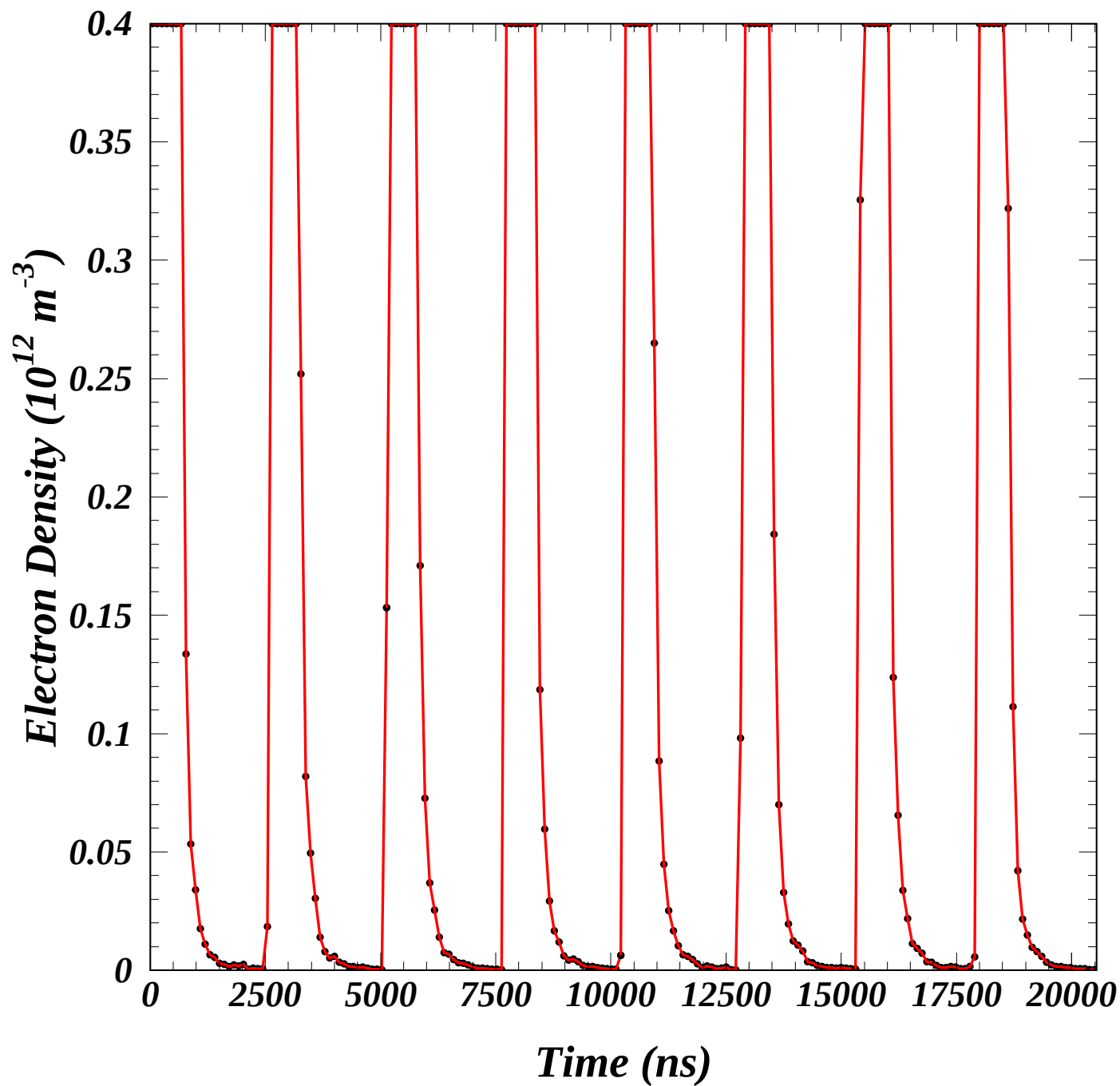
Beampipe-averaged Cloud Density (10^{12} m^{-3}) 10/03/08 12.38

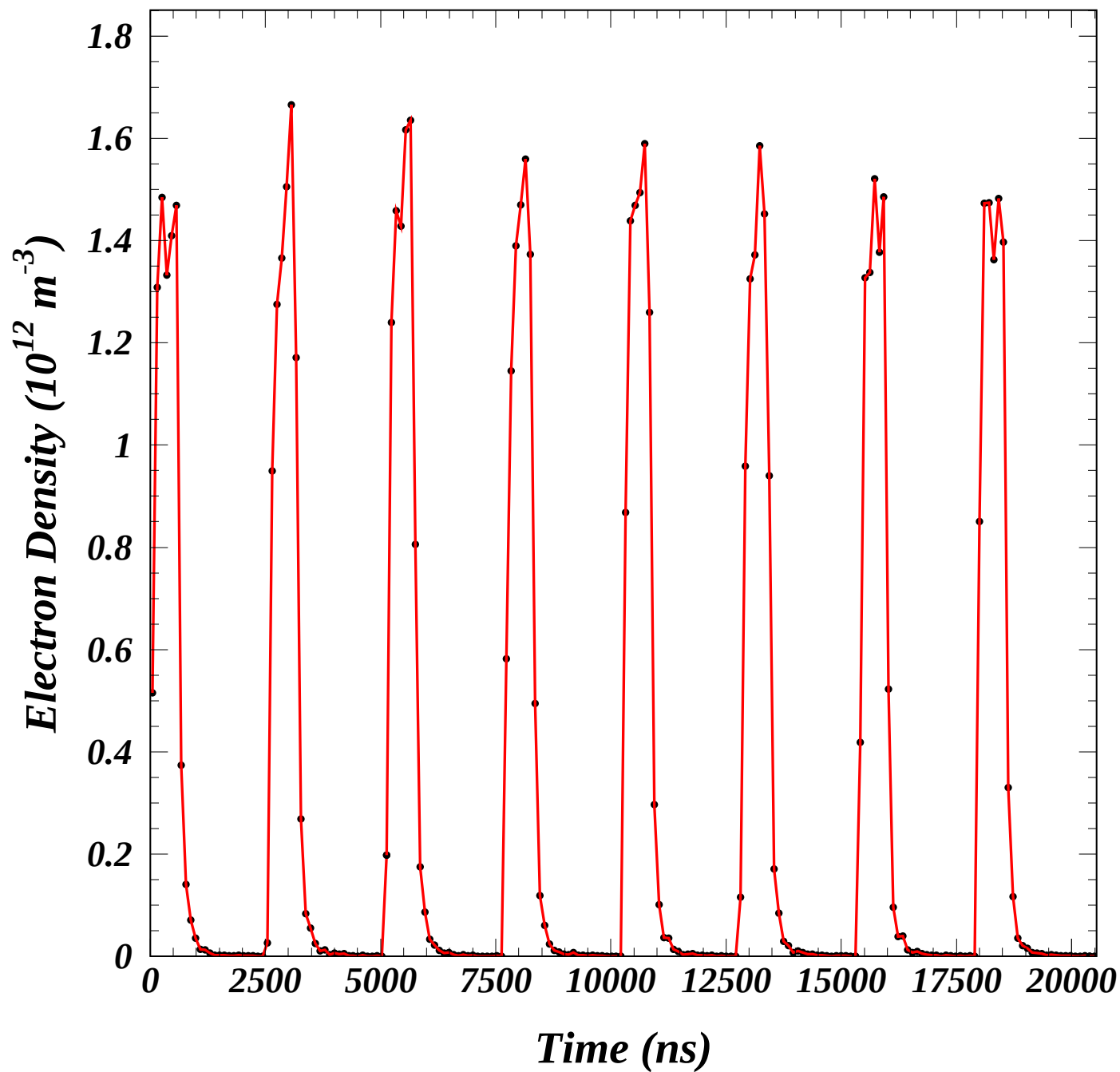


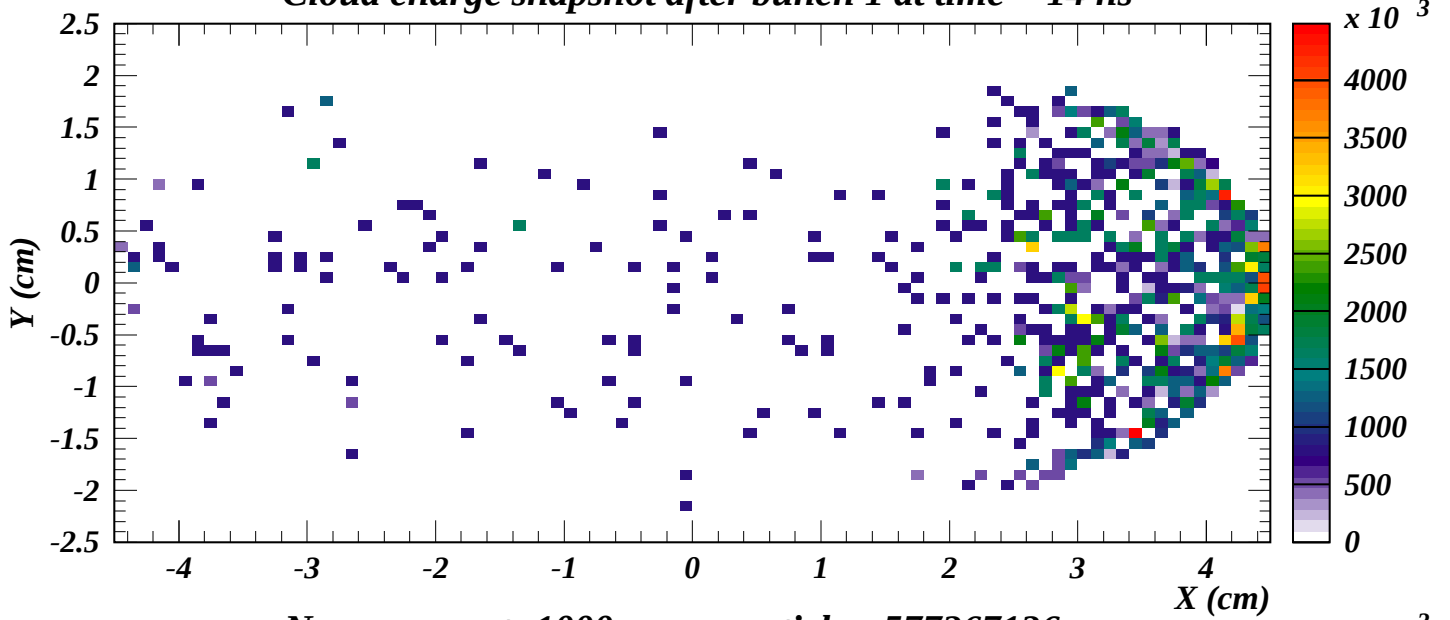
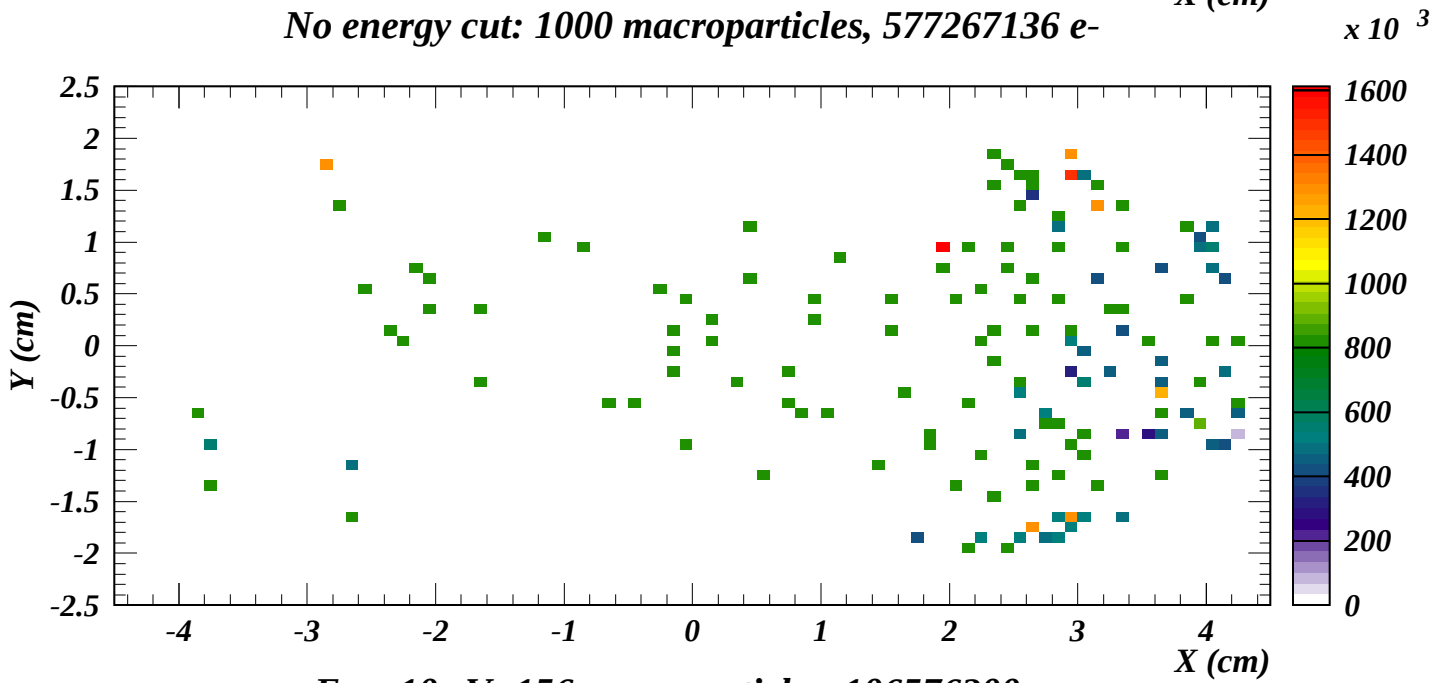
Macroparticle Statistics



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

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

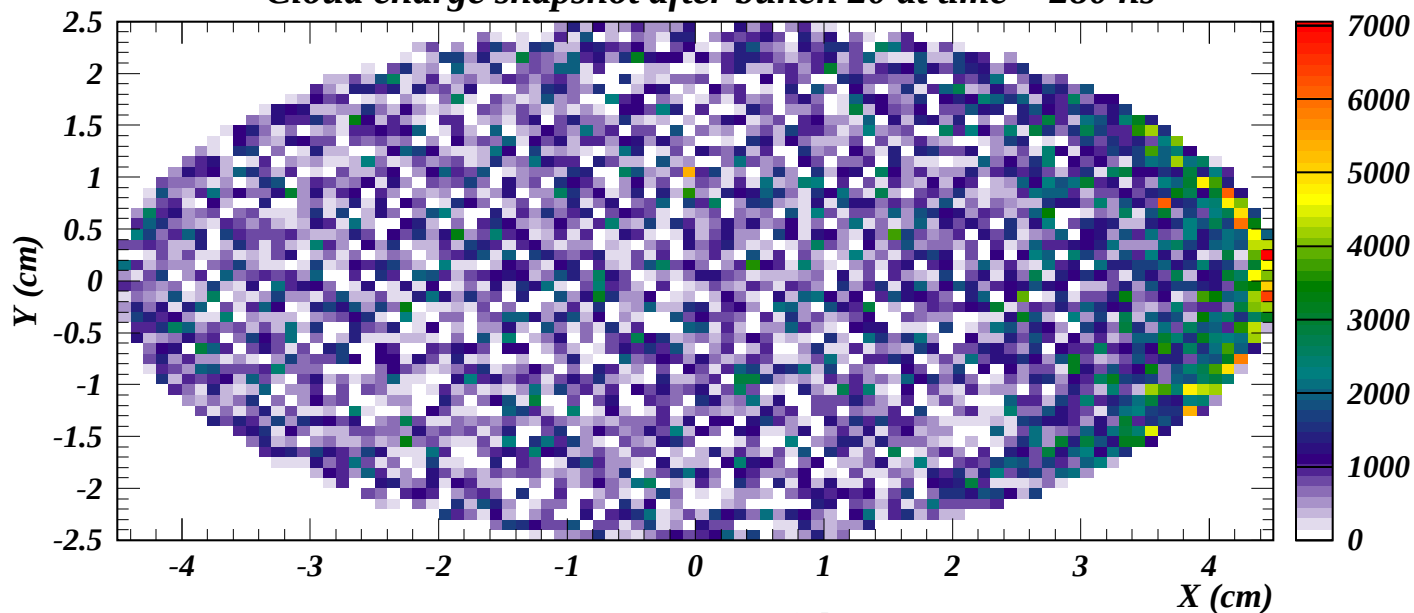
ECLOUD-TS0608_SEY20_Epk310: Cloud Density in Central Grid Cell (10^{12} m^{-3})

Cloud charge snapshot after bunch 1 at time = 14 ns*No energy cut: 1000 macroparticles, 577267136 e-* *$E_{kin} > 10 \text{ eV}$: 156 macroparticles, 106576200 e-*

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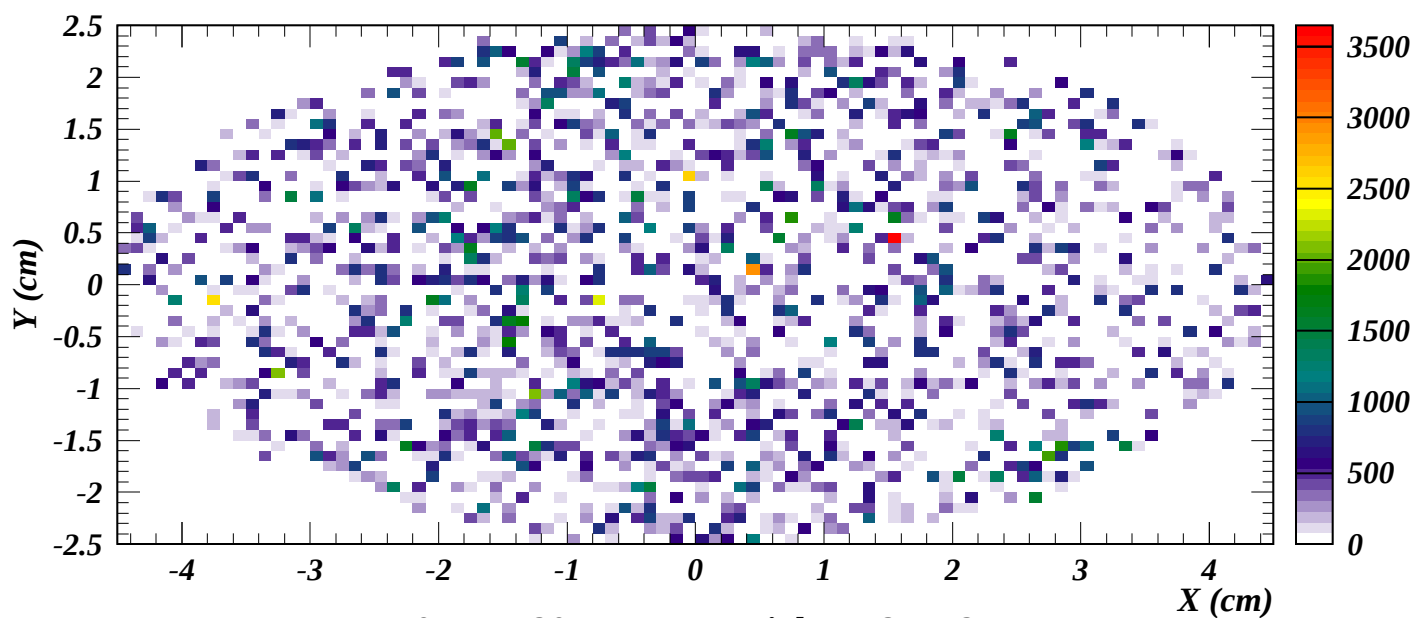
$\times 10^3$

Cloud charge snapshot after bunch 20 at time = 280 ns

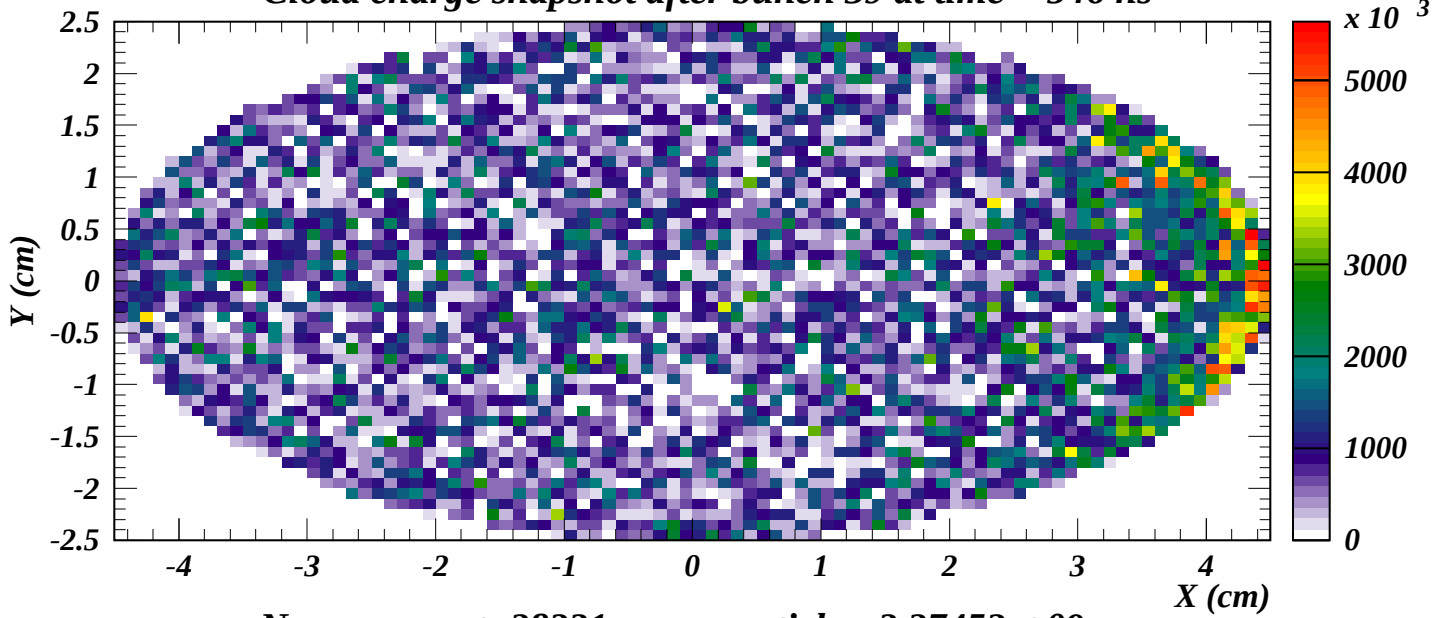
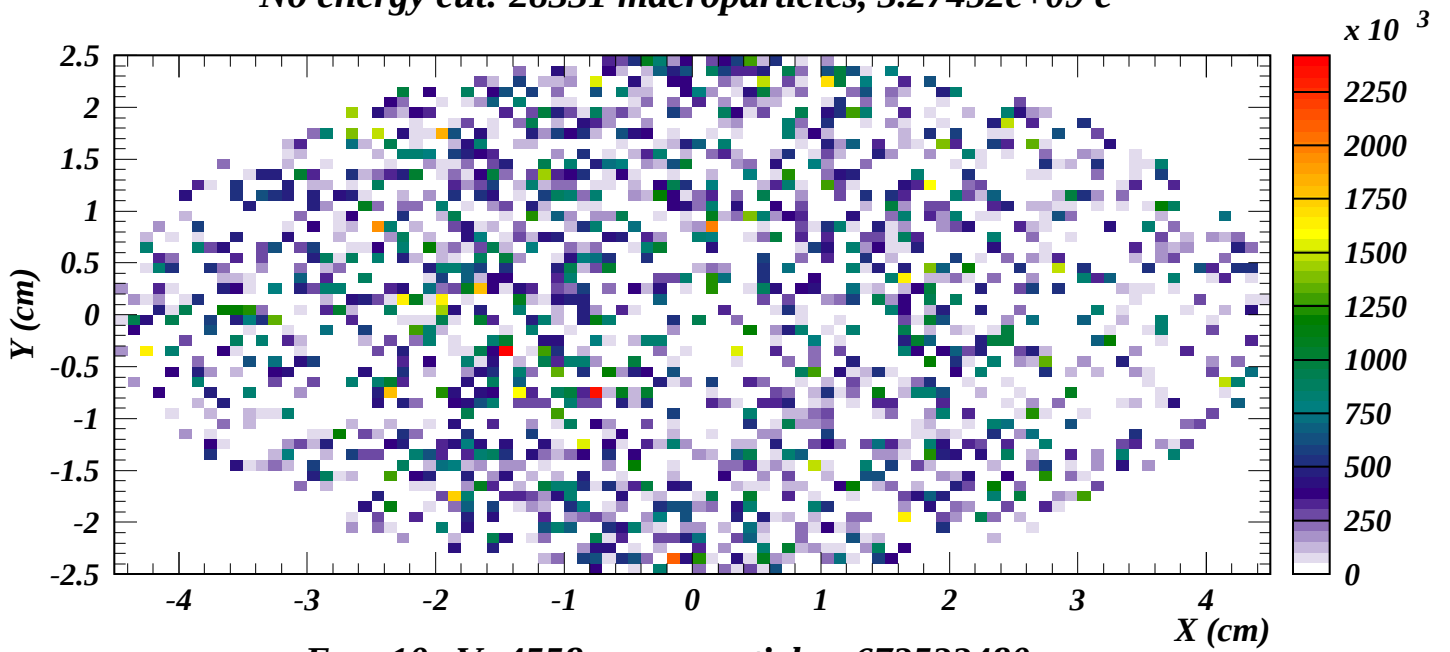


No energy cut: 17613 macroparticles, $3.20247e+09$ e-

$\times 10^3$

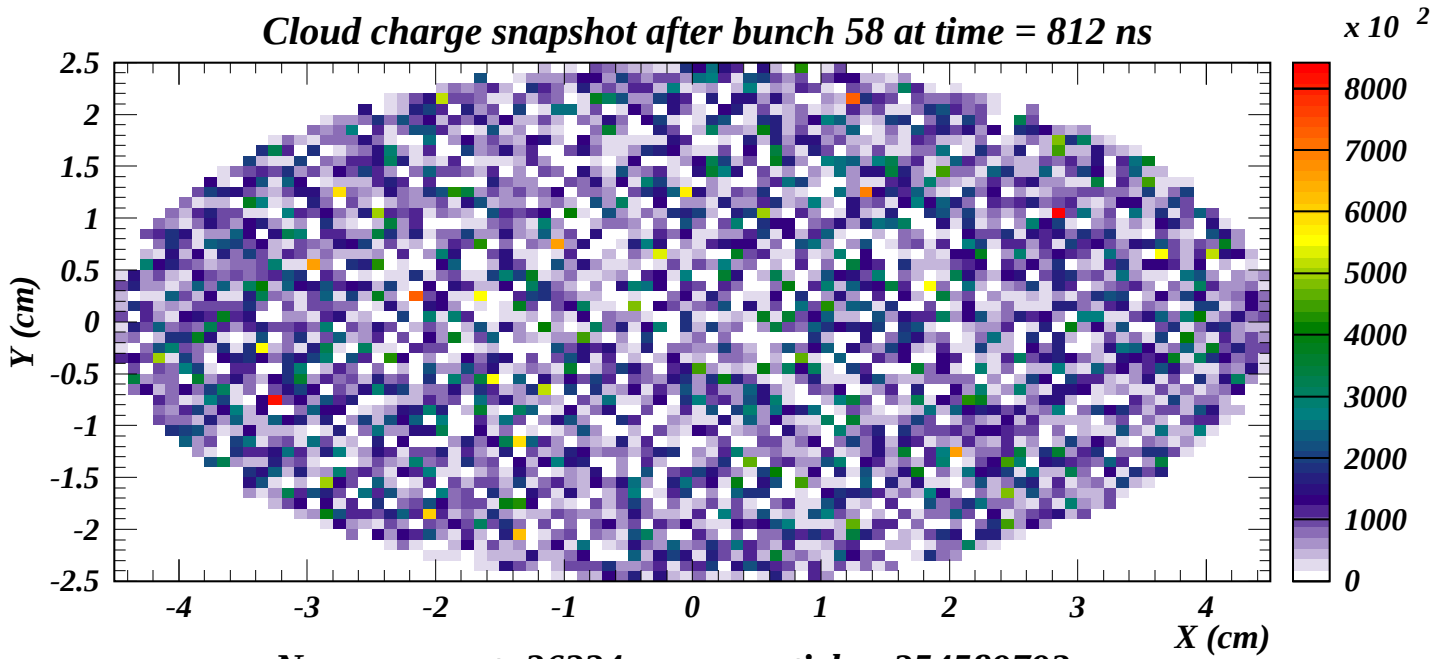


$E_{kin} > 10$ eV: 2803 macroparticles, 683538752 e-

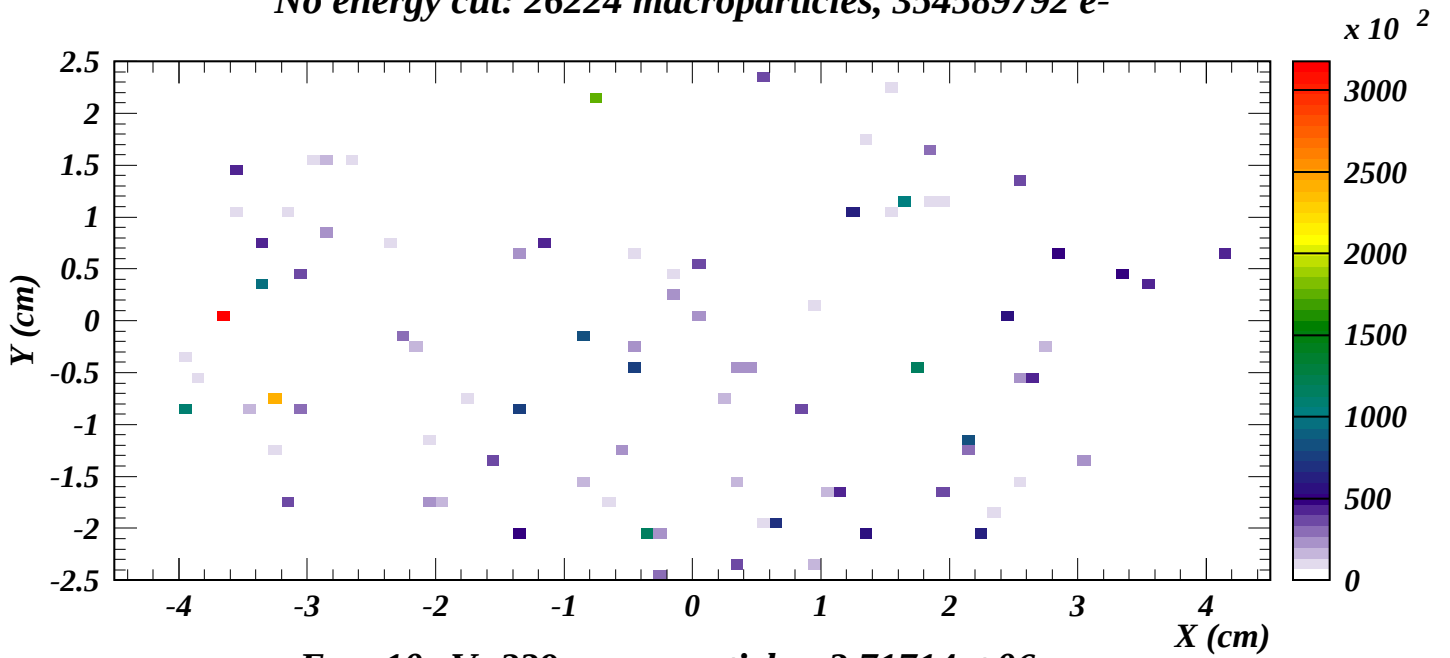
Cloud charge snapshot after bunch 39 at time = 546 ns*No energy cut: 28331 macroparticles, $3.27452e+09$ e-* *$E_{\text{kin}} > 10$ eV: 4558 macroparticles, 673532480 e-*

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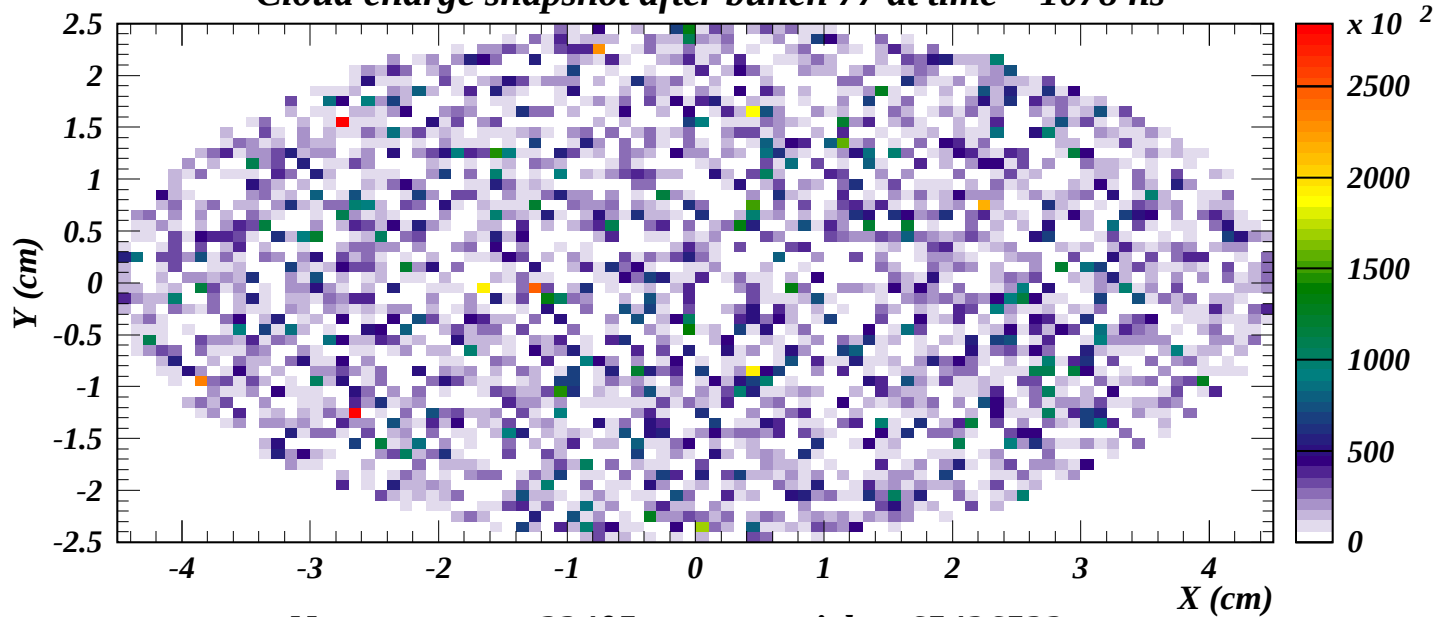
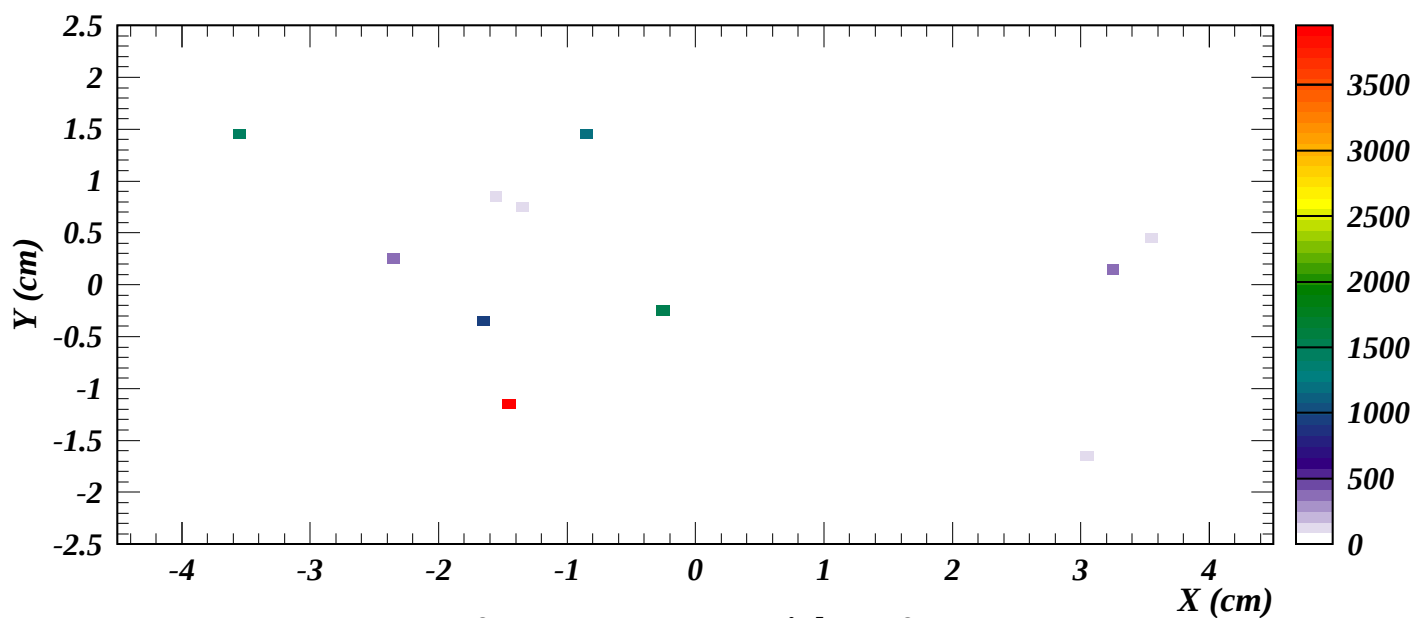
Cloud charge snapshot after bunch 58 at time = 812 ns

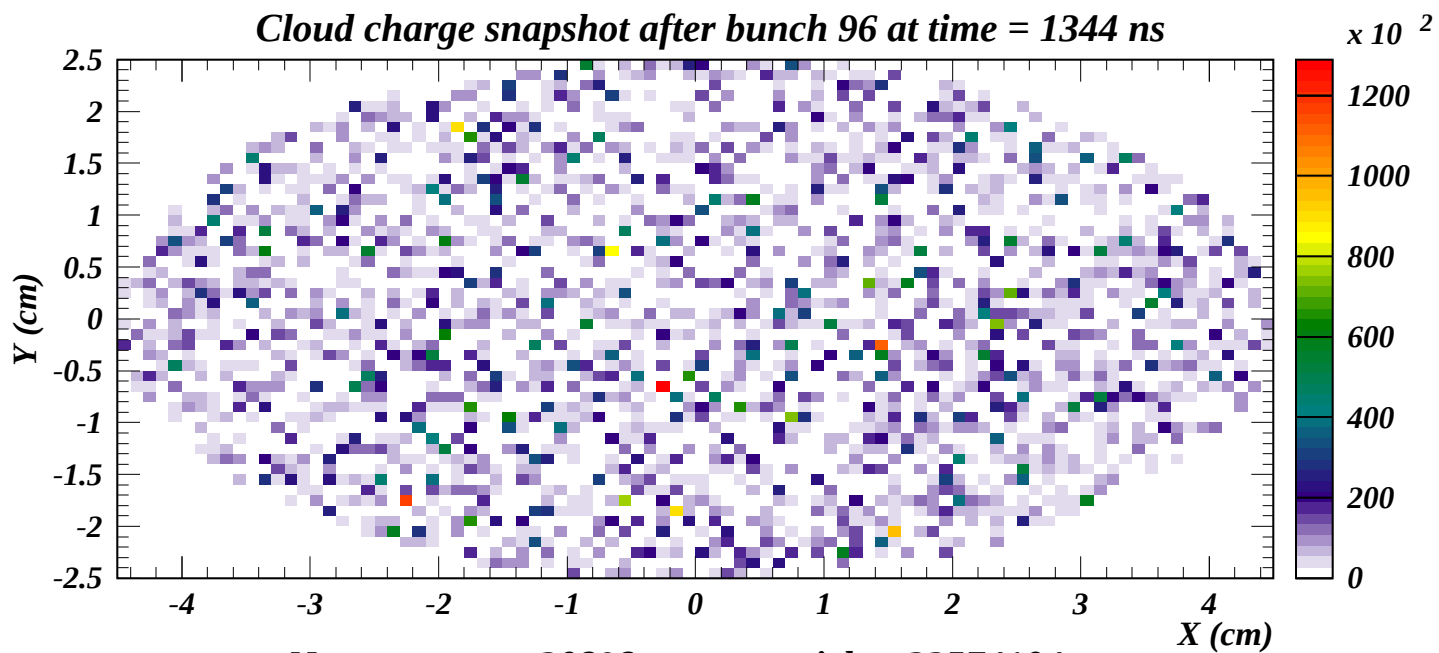
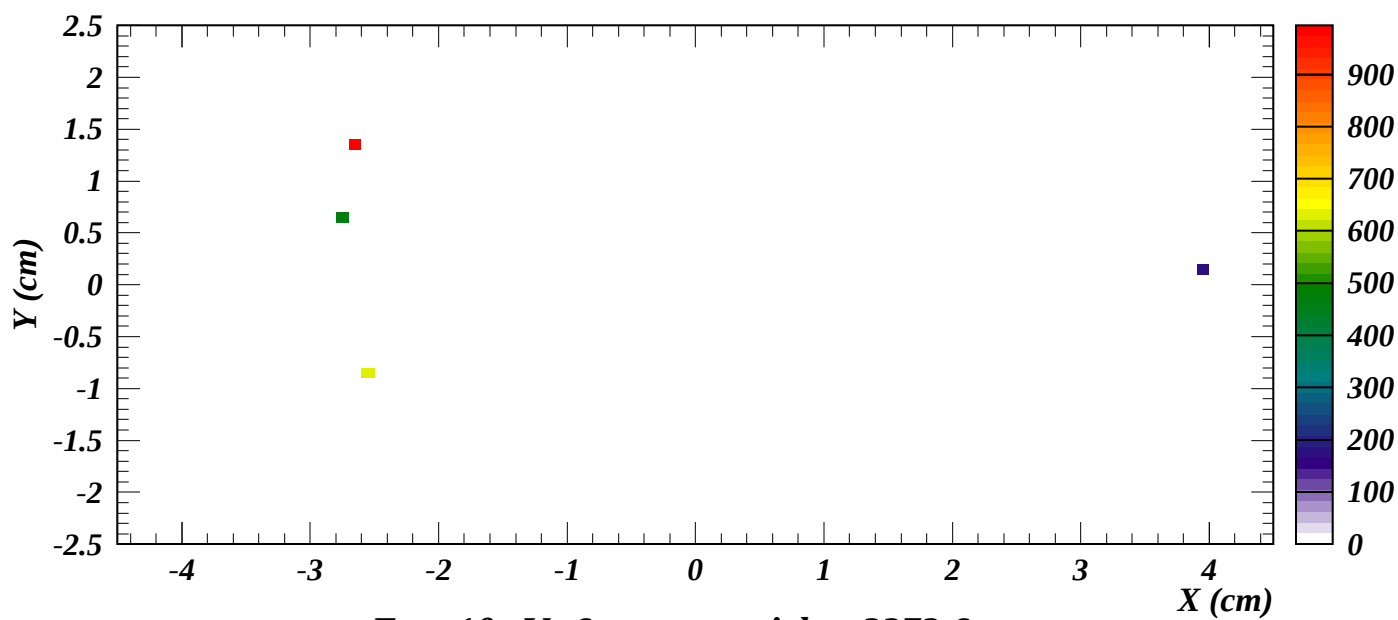


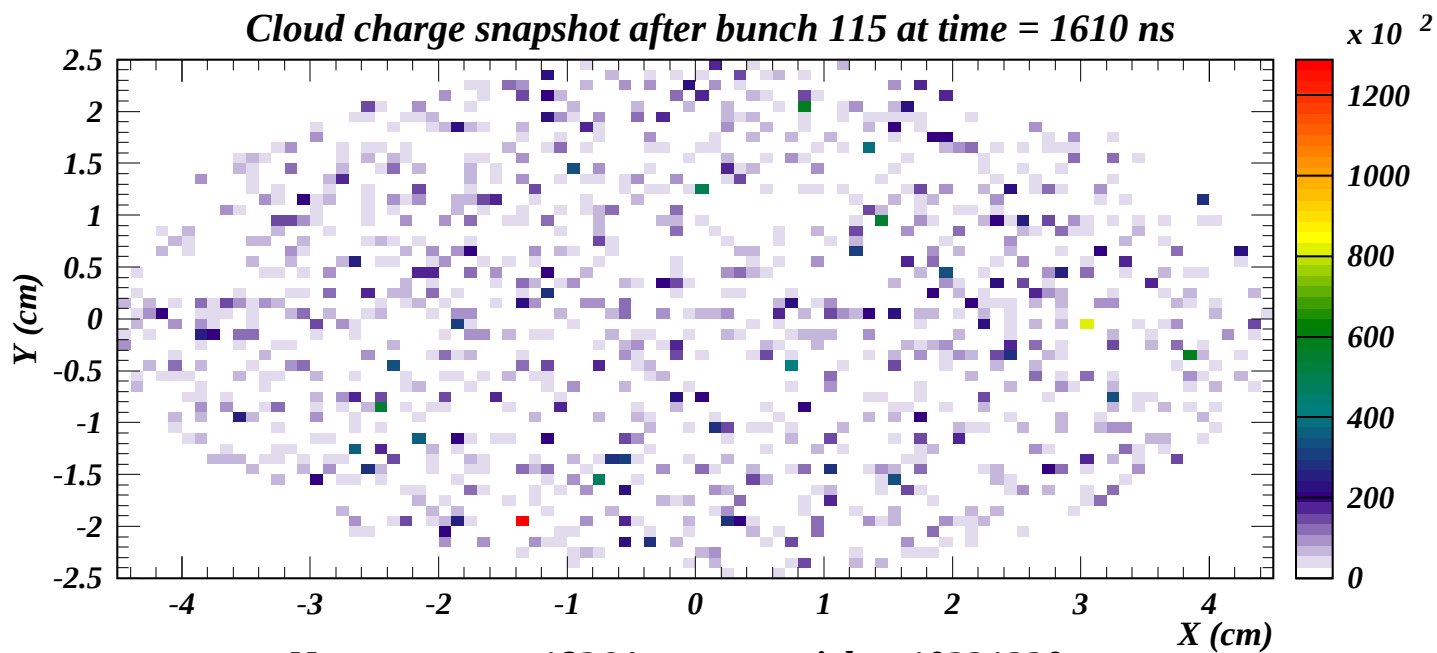
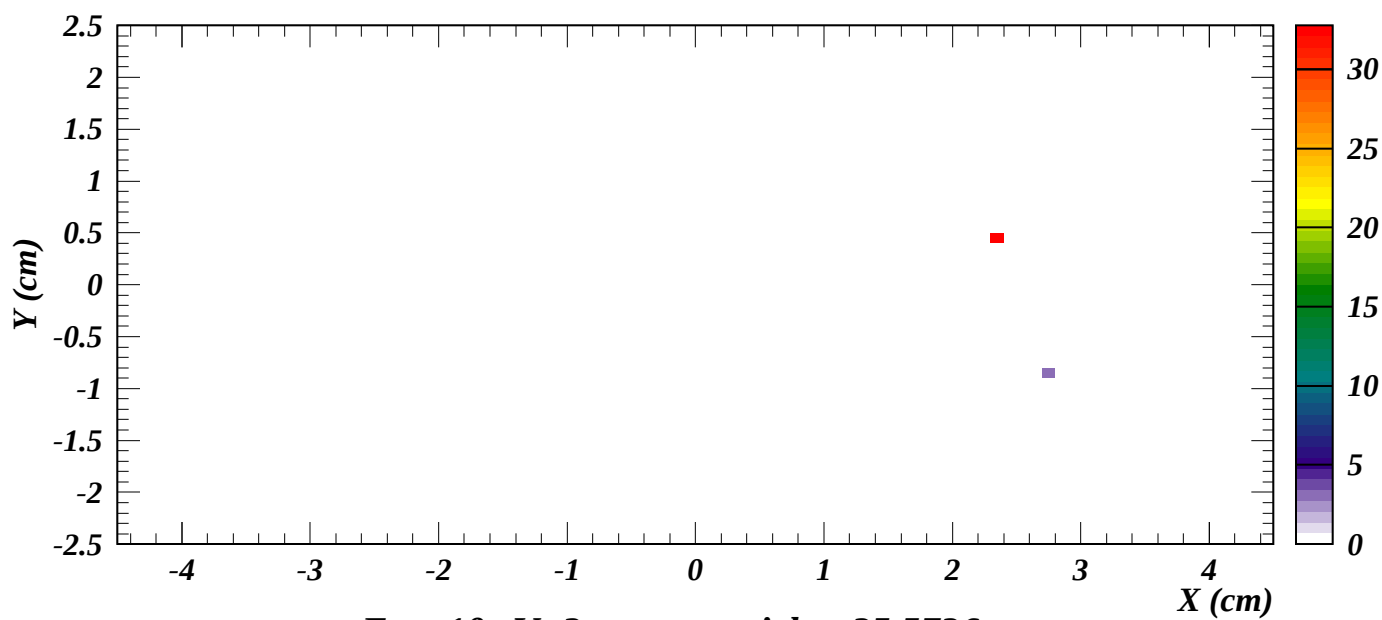
No energy cut: 26224 macroparticles, 354589792 e-

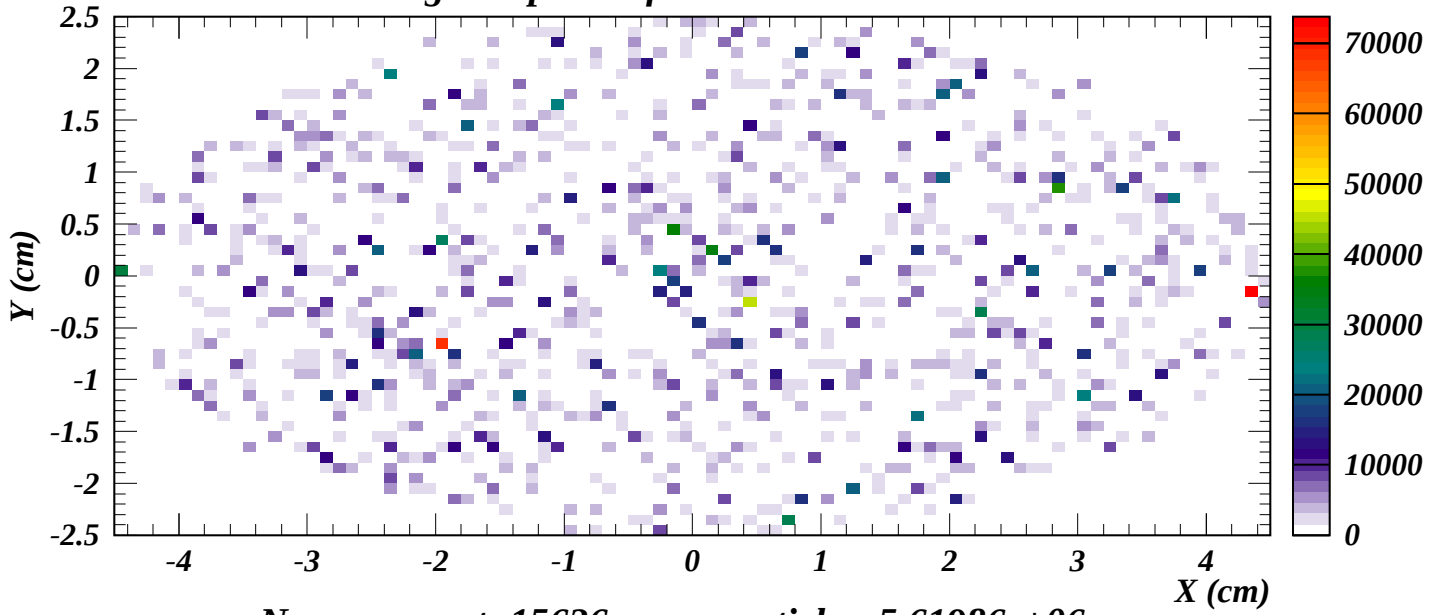
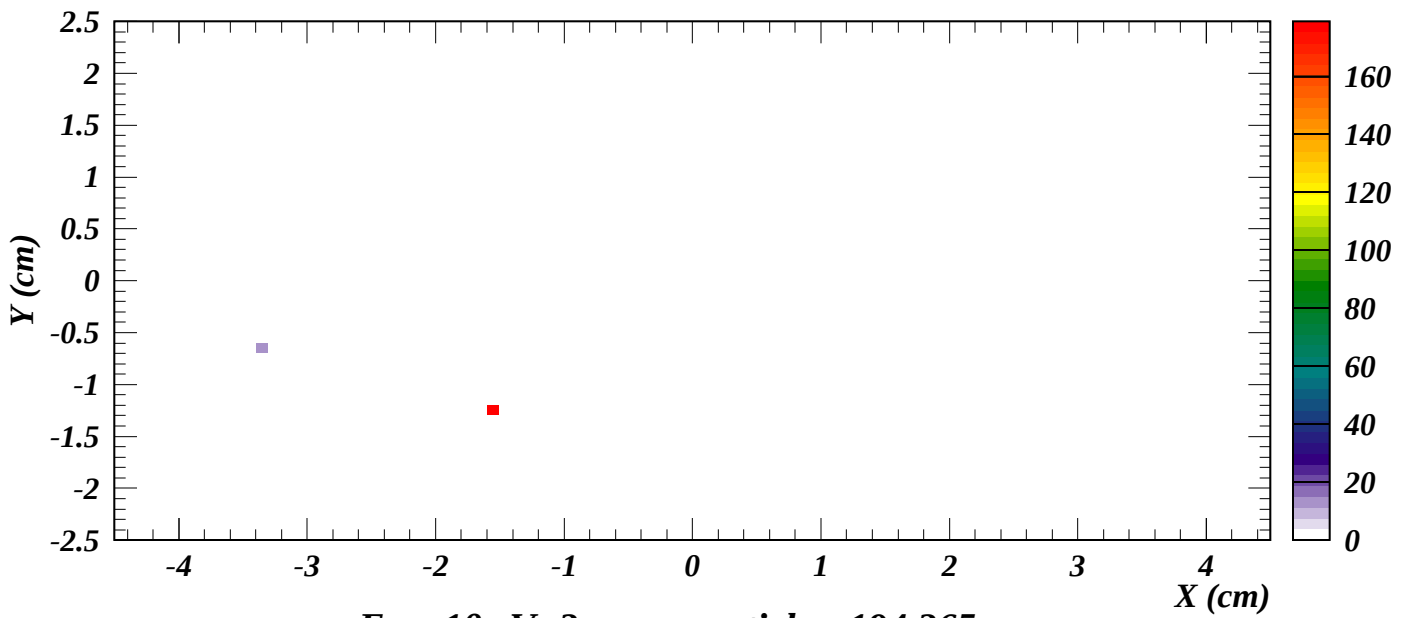


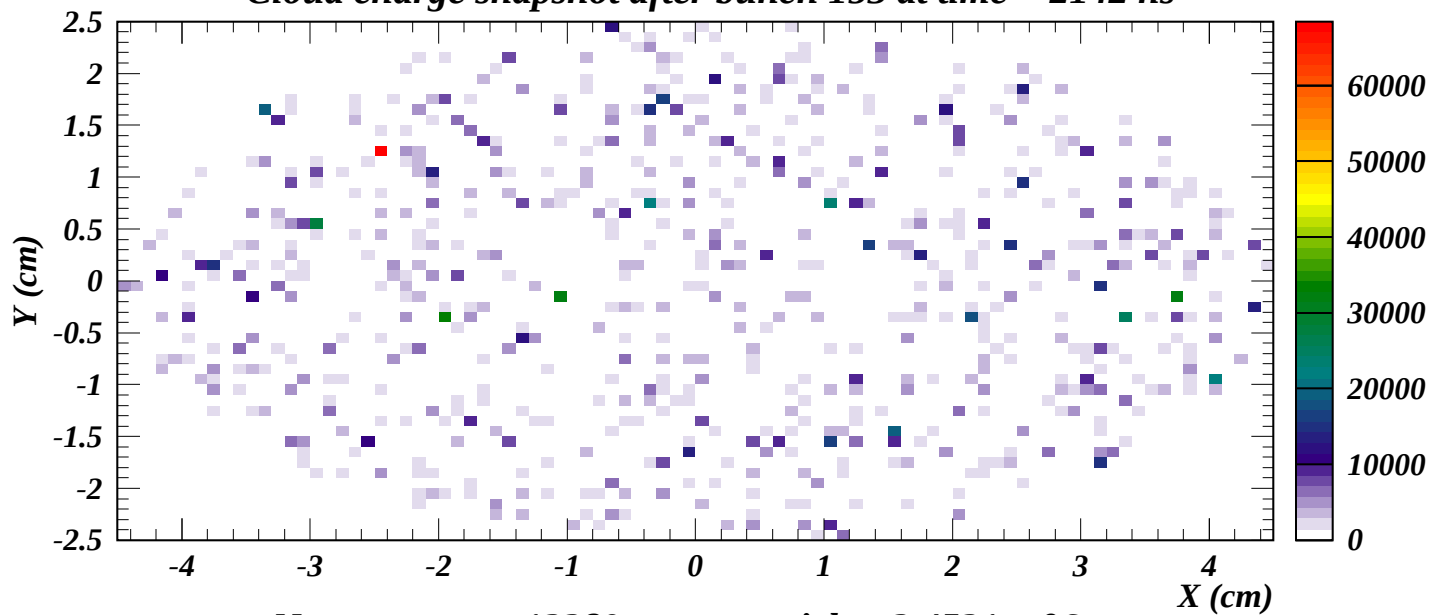
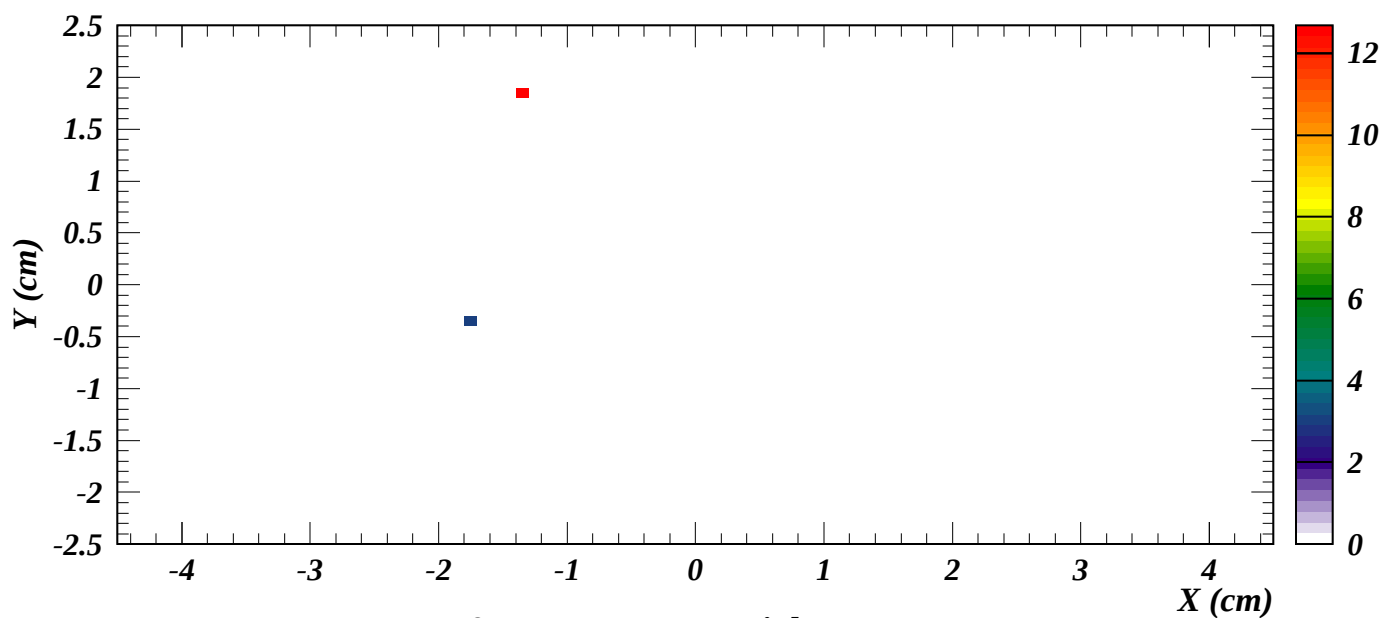
$E_{kin} > 10$ eV: 239 macroparticles, $3.71714e+06$ e-

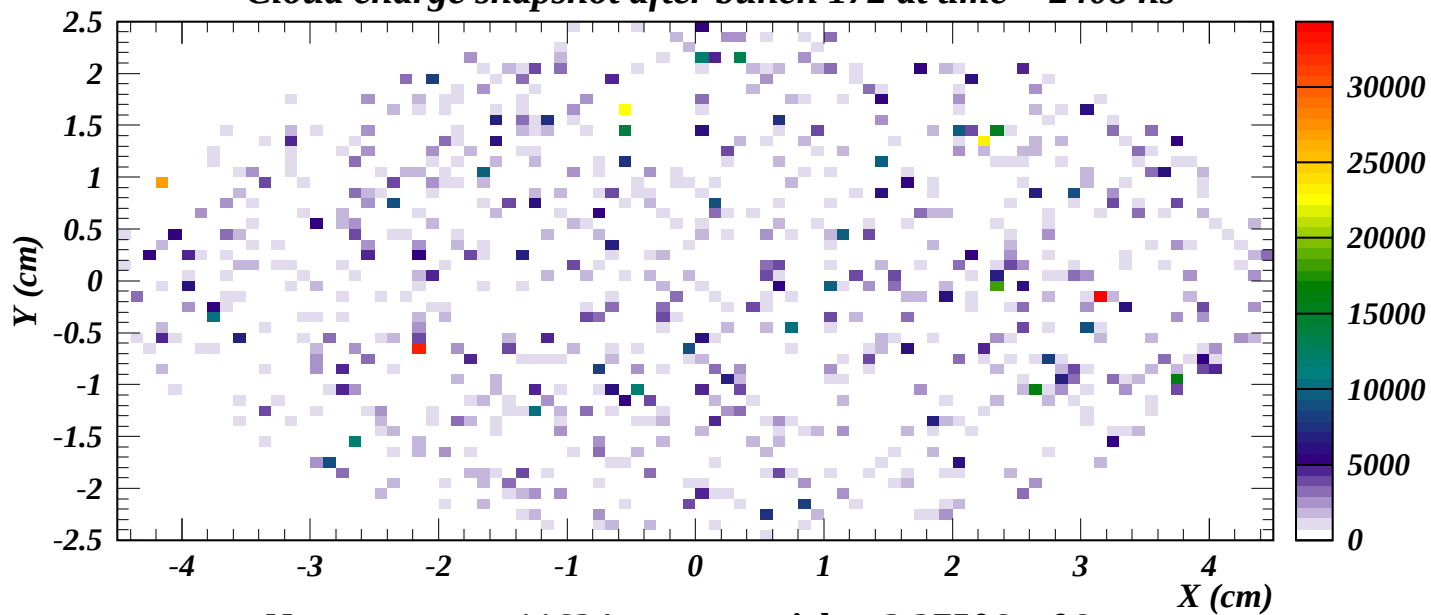
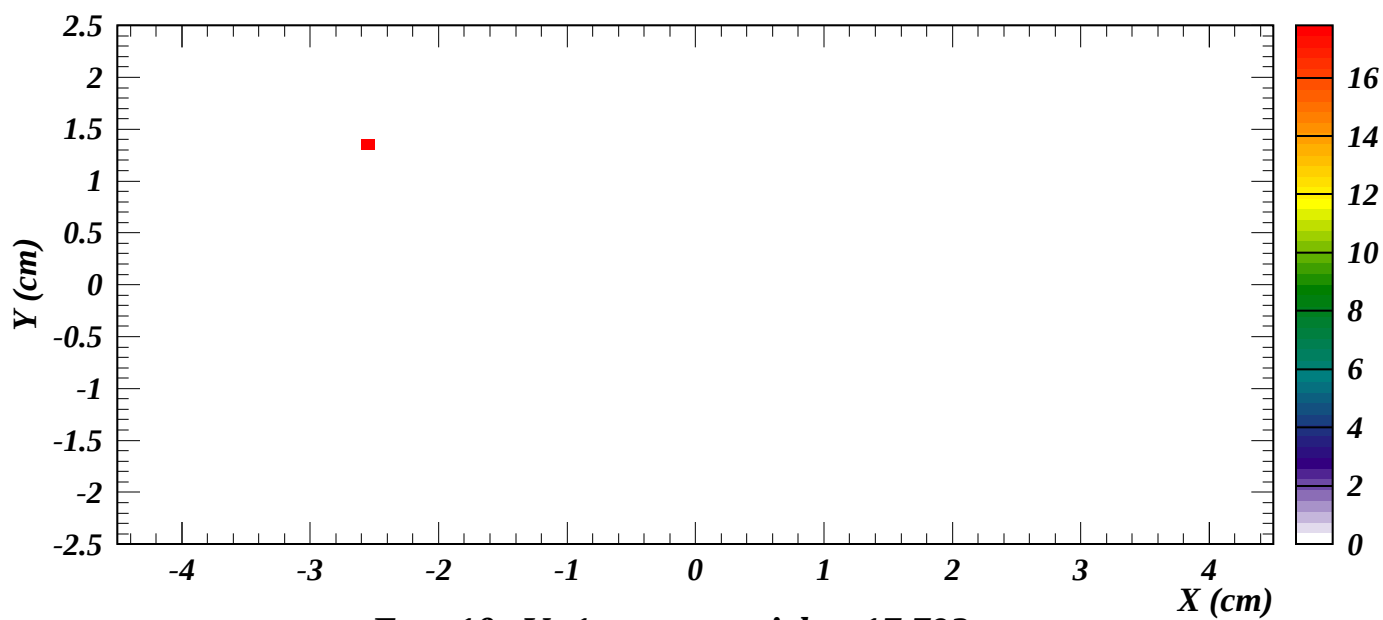
Cloud charge snapshot after bunch 77 at time = 1078 ns*No energy cut: 23405 macroparticles, 65426532 e-* *$E_{kin} > 10$ eV: 25 macroparticles, 10339 e-*

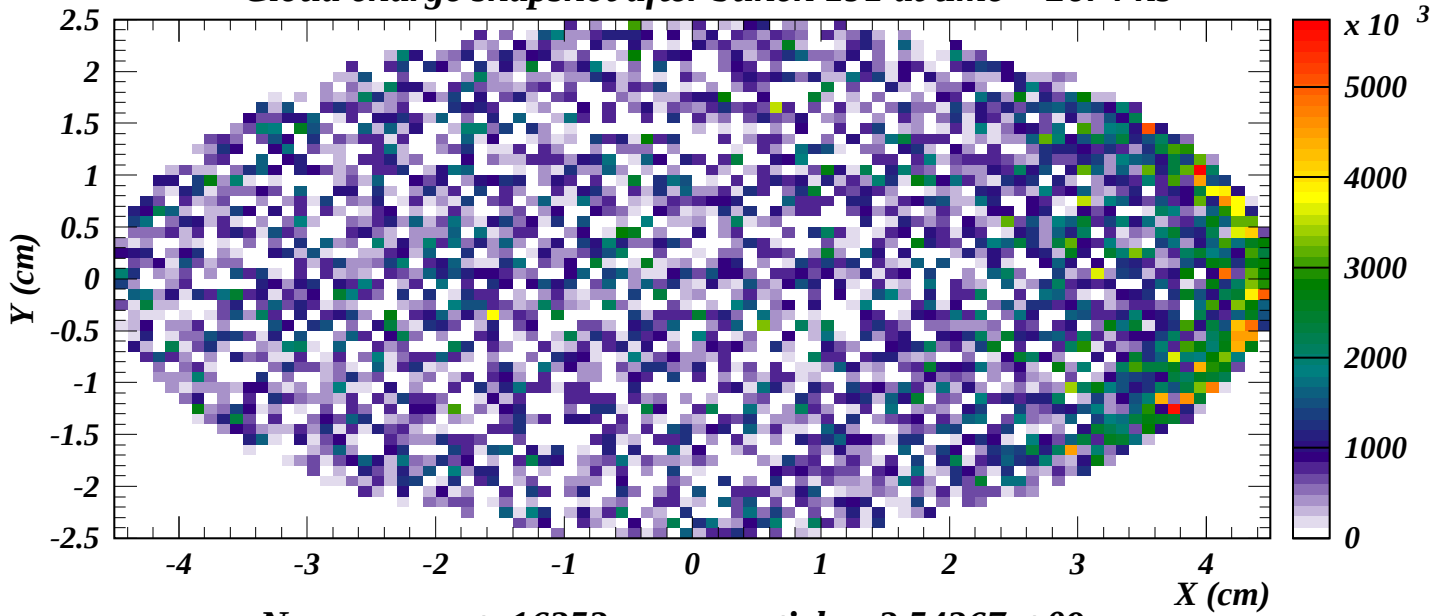
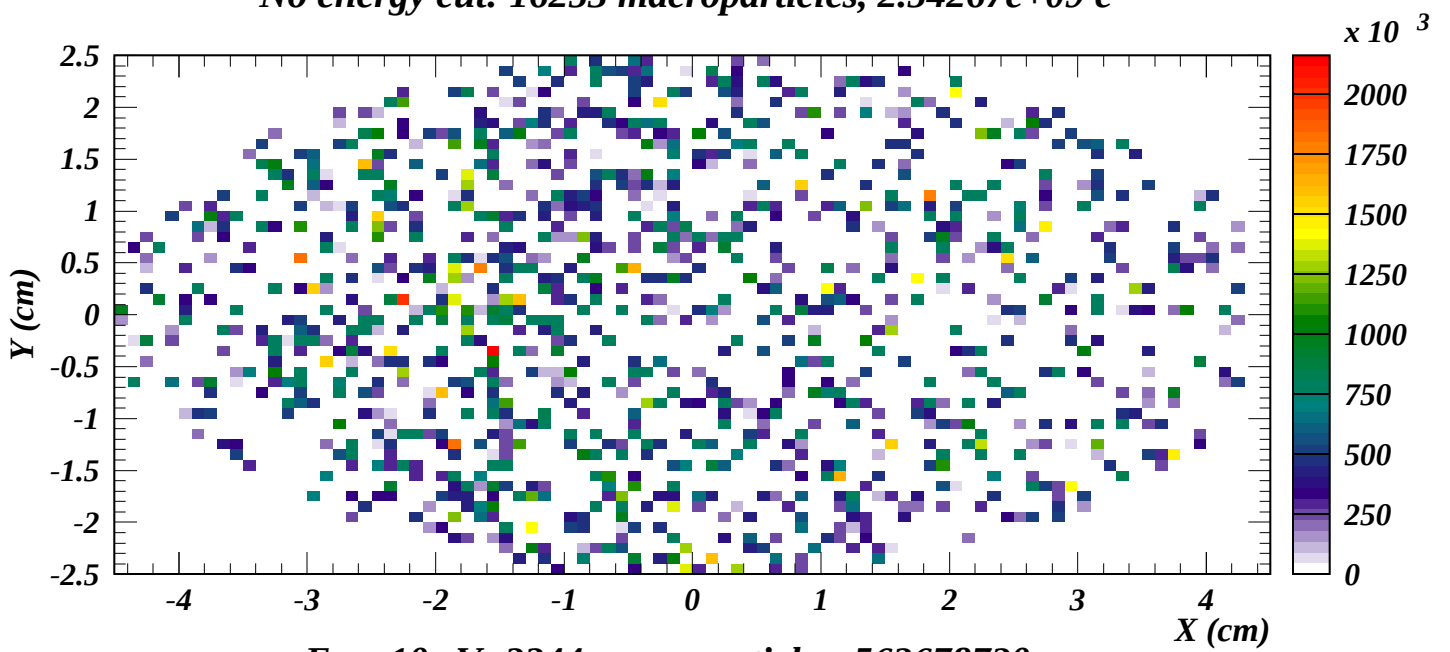
Cloud charge snapshot after bunch 96 at time = 1344 ns*No energy cut: 20898 macroparticles, 22574104 e-* *$E_{\text{kin}} > 10$ eV: 6 macroparticles, 2272.6 e-*

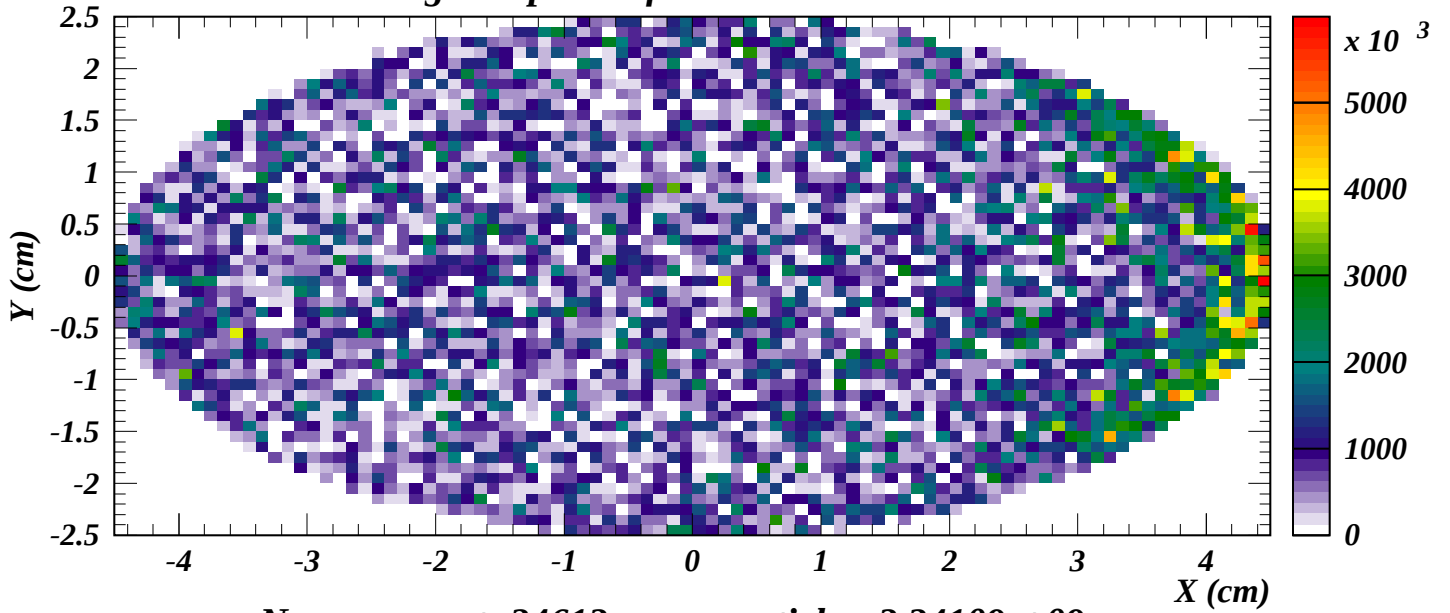
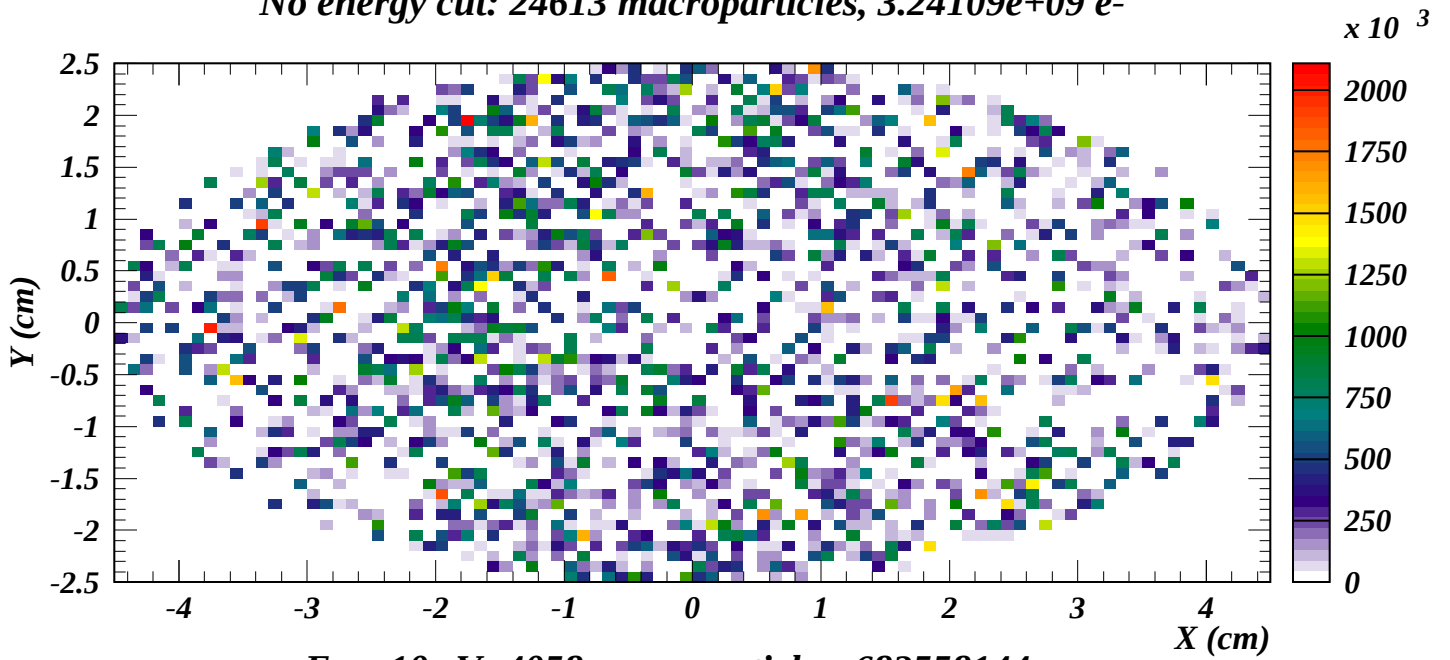
Cloud charge snapshot after bunch 115 at time = 1610 ns*No energy cut: 18264 macroparticles, 10231220 e-* *$E_{kin} > 10$ eV: 2 macroparticles, 35.5736 e-*

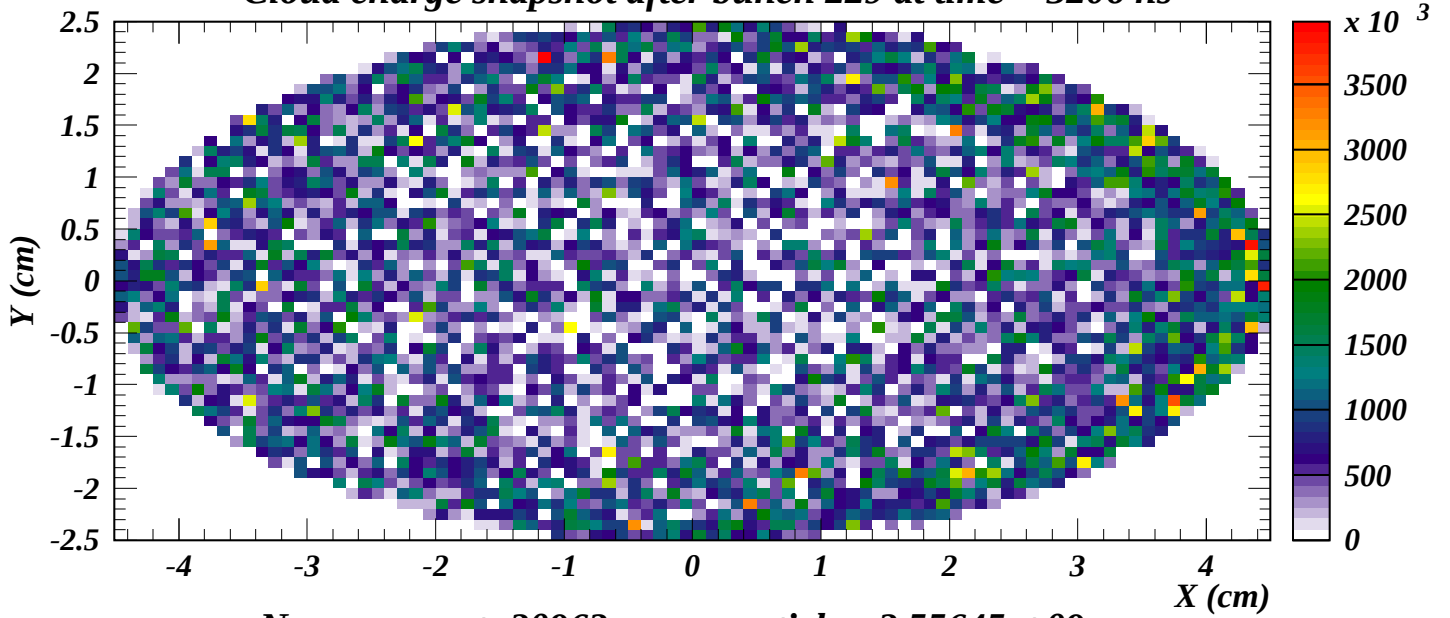
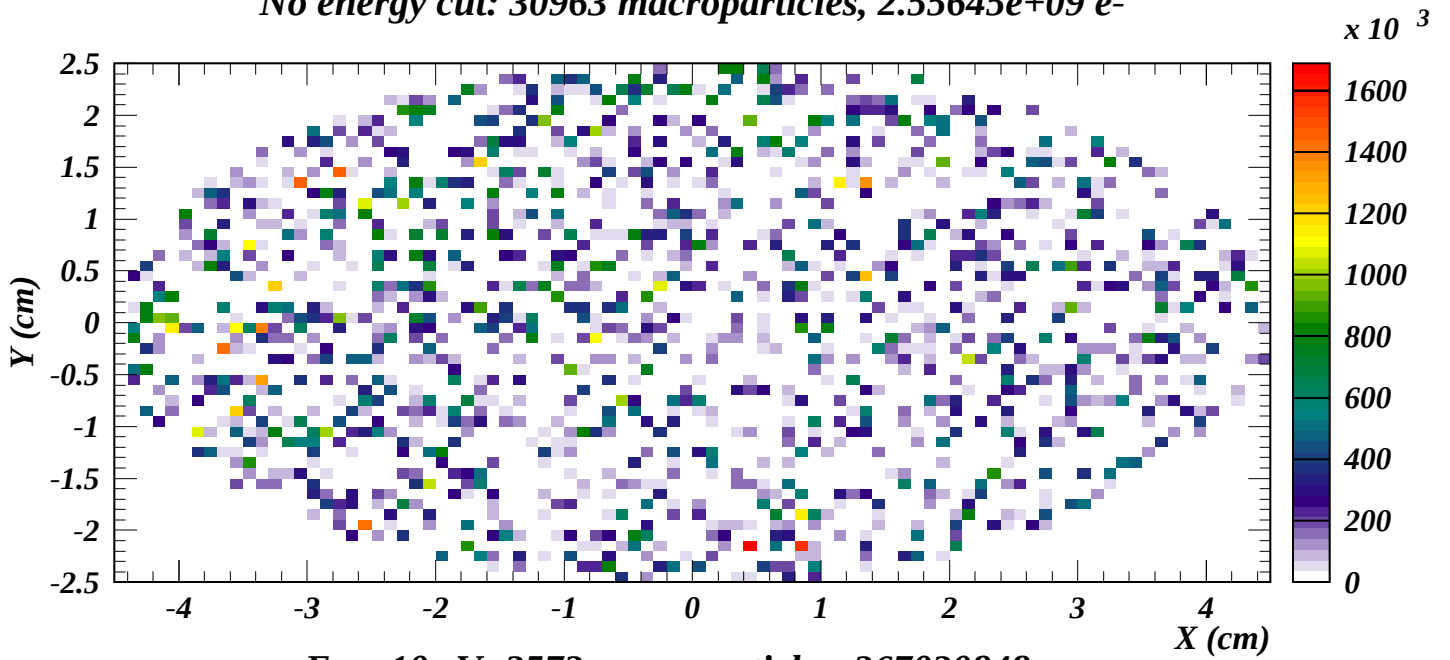
Cloud charge snapshot after bunch 134 at time = 1876 ns*No energy cut: 15626 macroparticles, 5.61986e+06 e-* *$E_{kin} > 10$ eV: 3 macroparticles, 194.365 e-*

Cloud charge snapshot after bunch 153 at time = 2142 ns*No energy cut: 13389 macroparticles, 3.4531e+06 e-* *$E_{kin} > 10$ eV: 2 macroparticles, 15.6224 e-*

Cloud charge snapshot after bunch 172 at time = 2408 ns*No energy cut: 11624 macroparticles, 2.27506e+06 e-* *$E_{\text{kin}} > 10$ eV: 1 macroparticles, 17.792 e-*

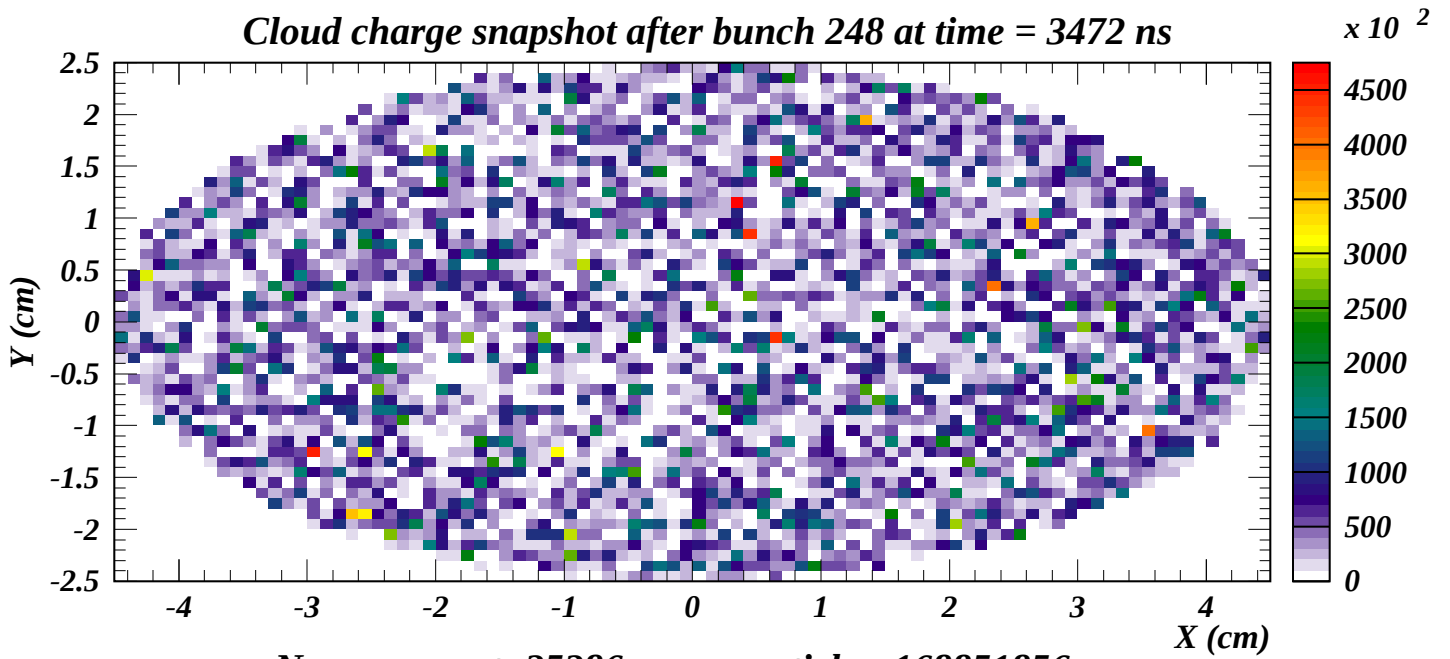
Cloud charge snapshot after bunch 191 at time = 2674 ns*No energy cut: 16253 macroparticles, 2.54267e+09 e-* *$E_{kin} > 10$ eV: 3244 macroparticles, 562678720 e-*

Cloud charge snapshot after bunch 210 at time = 2940 ns*No energy cut: 24613 macroparticles, $3.24109e+09$ e⁻* *$E_{\text{kin}} > 10$ eV: 4058 macroparticles, 682558144 e⁻*

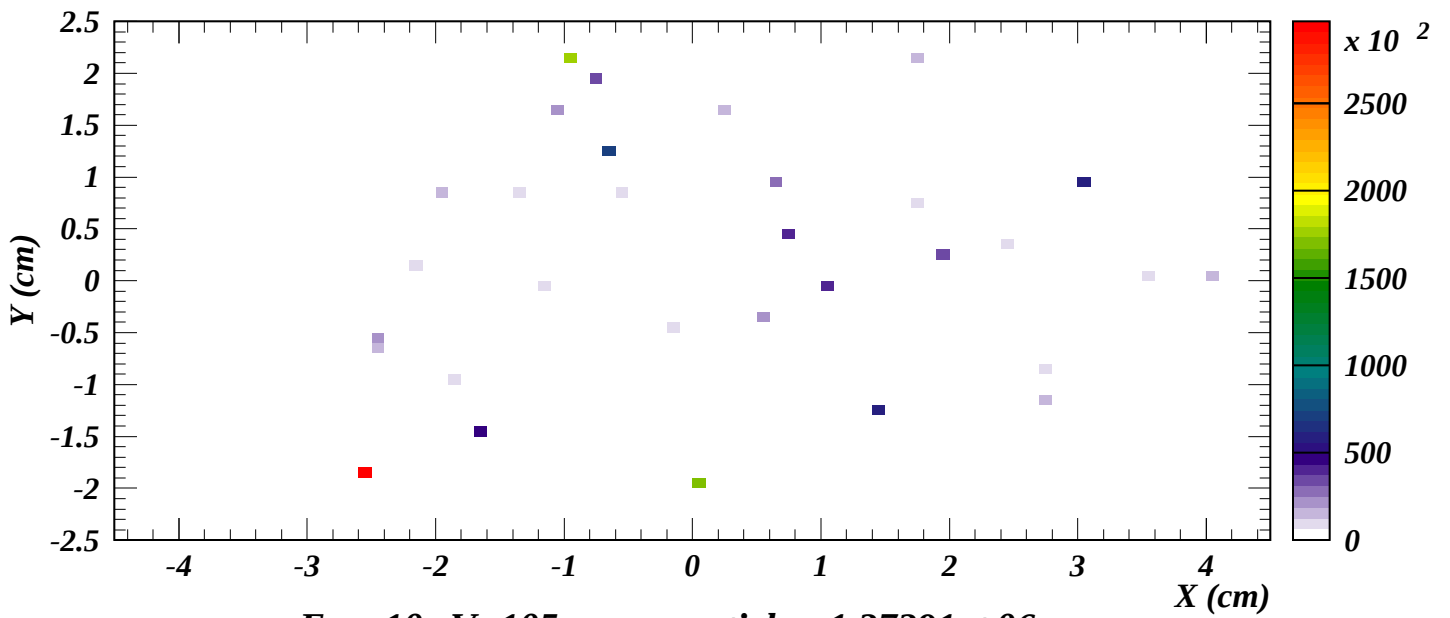
Cloud charge snapshot after bunch 229 at time = 3206 ns*No energy cut: 30963 macroparticles, 2.55645e+09 e-* *$E_{\text{kin}} > 10$ eV: 3573 macroparticles, 367030848 e-*

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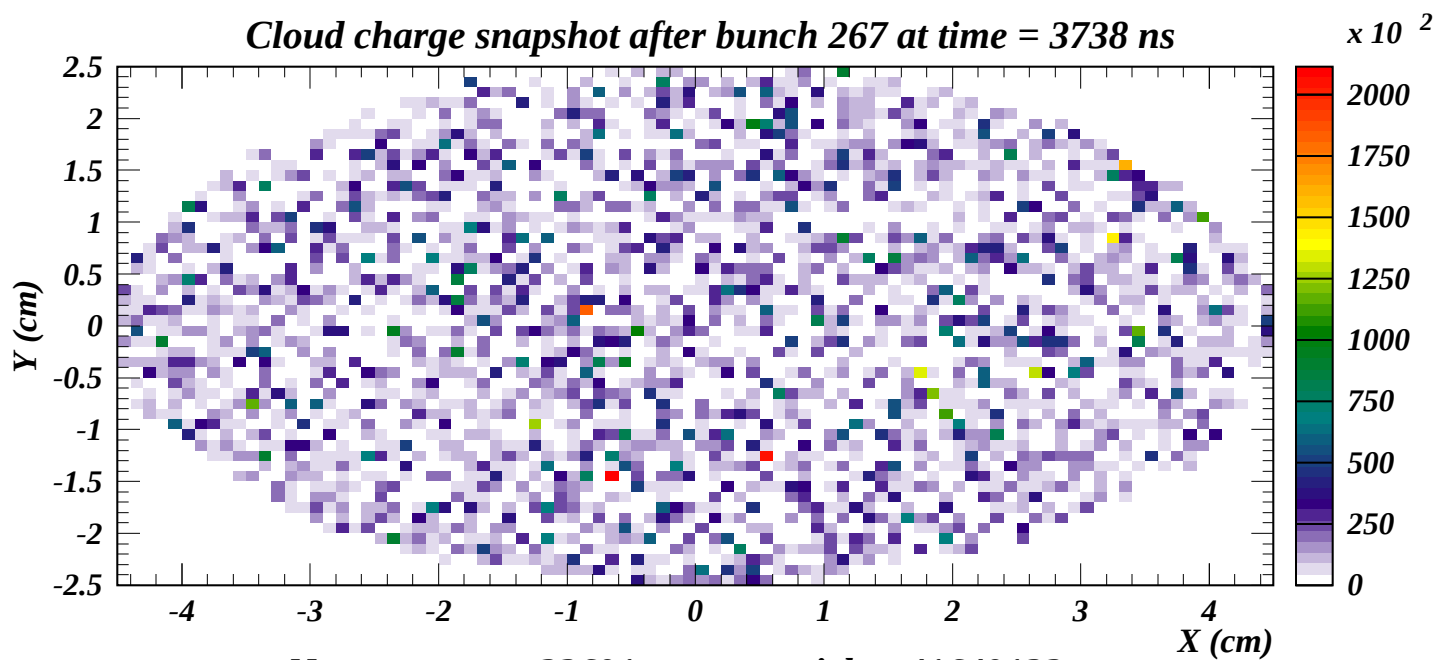
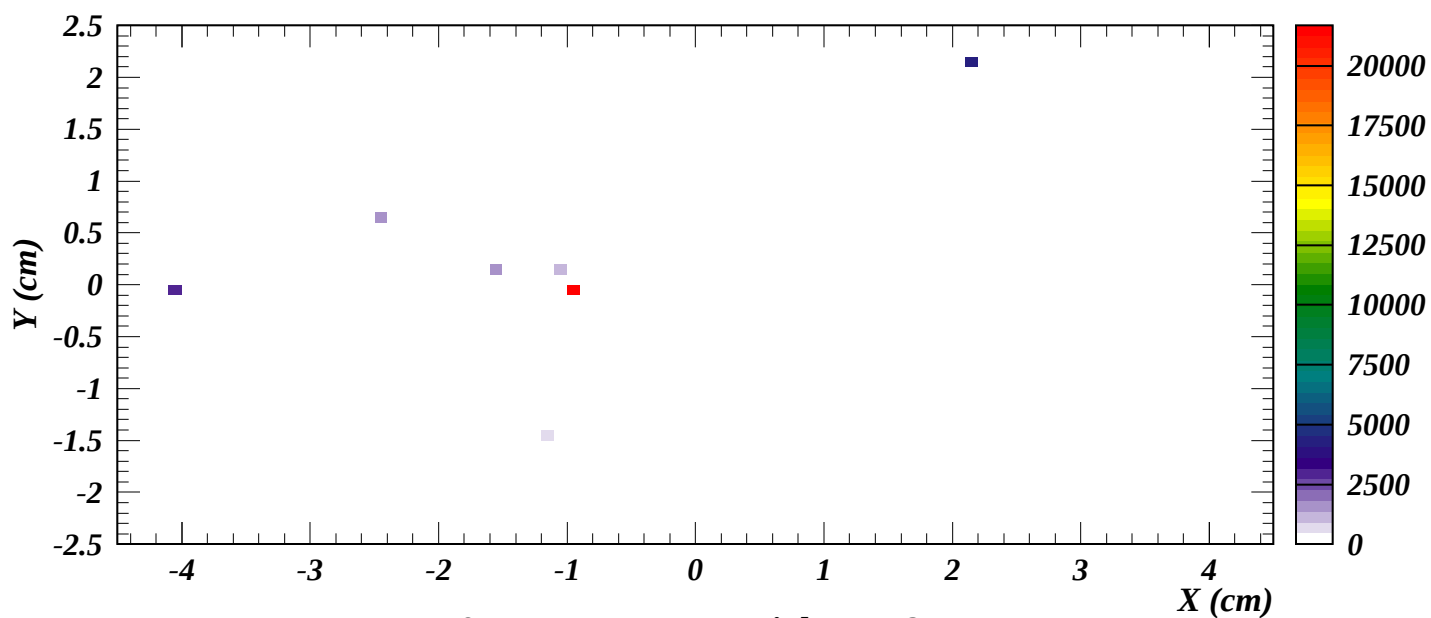
Cloud charge snapshot after bunch 248 at time = 3472 ns



No energy cut: 25286 macroparticles, 168851856 e-

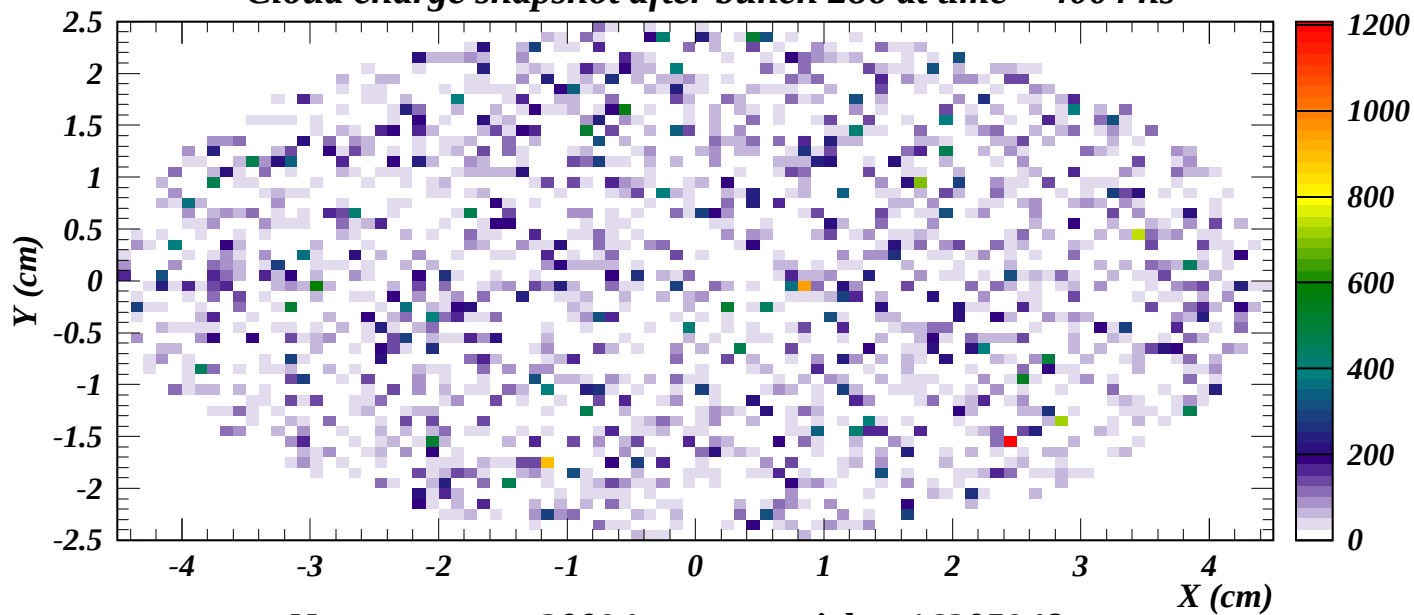


$E_{kin} > 10$ eV: 105 macroparticles, 1.37291e+06 e-

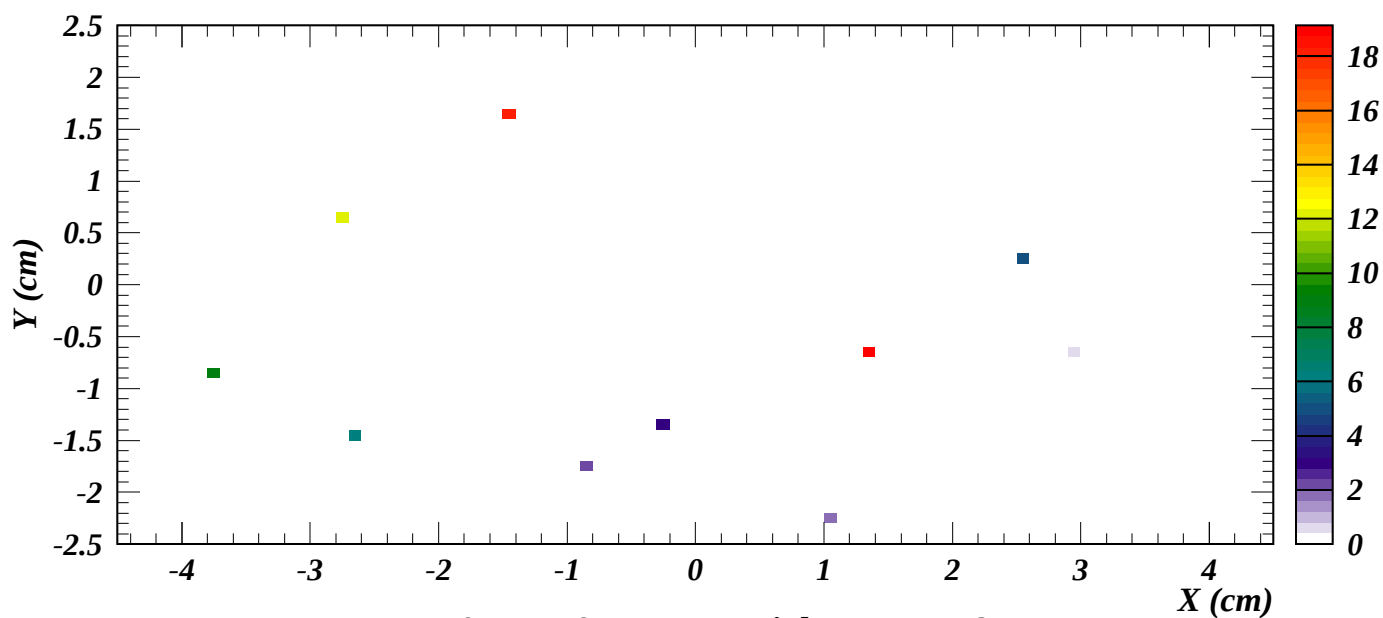
Cloud charge snapshot after bunch 267 at time = 3738 ns*No energy cut: 22691 macroparticles, 41649132 e-* *$E_{kin} > 10$ eV: 24 macroparticles, 35829.2 e-*

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 $\times 10^2$

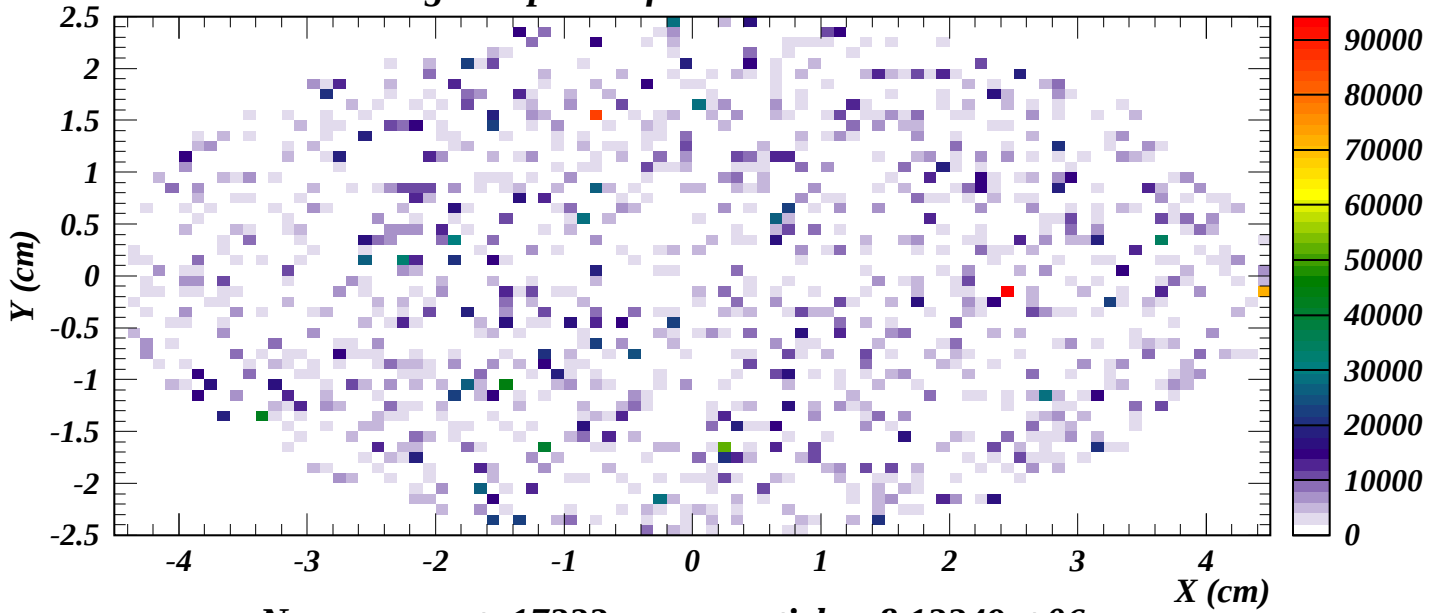
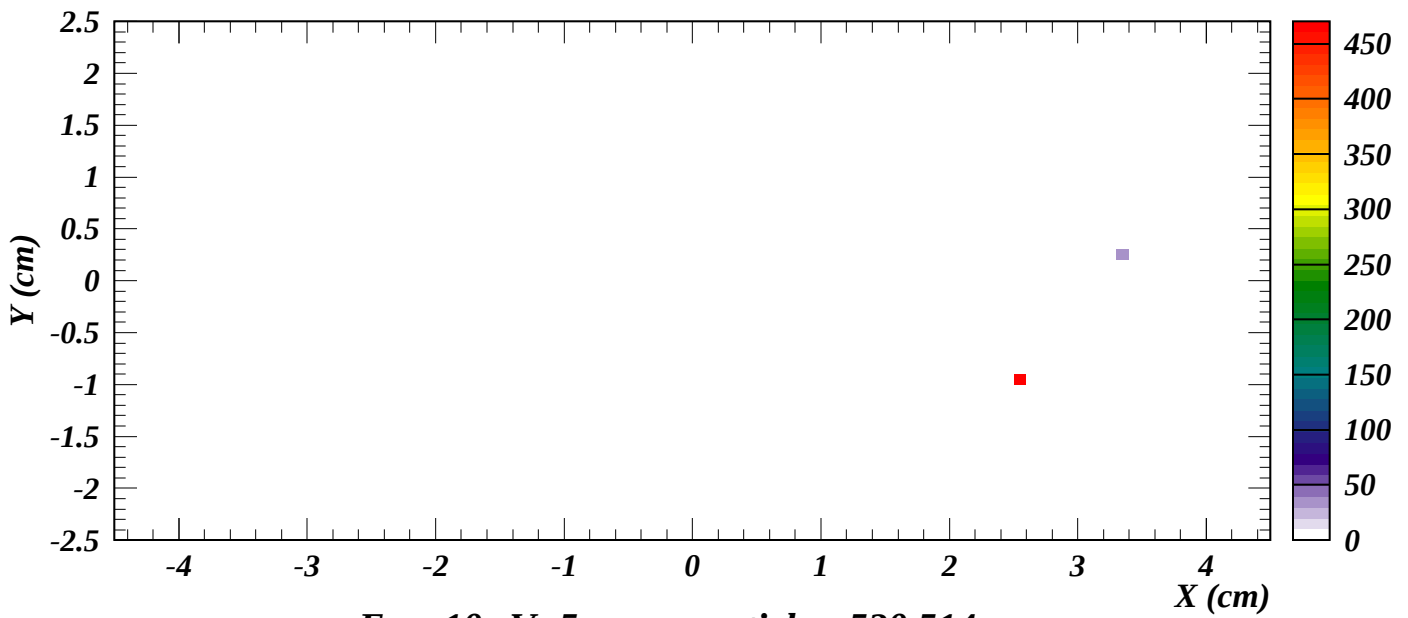
Cloud charge snapshot after bunch 286 at time = 4004 ns

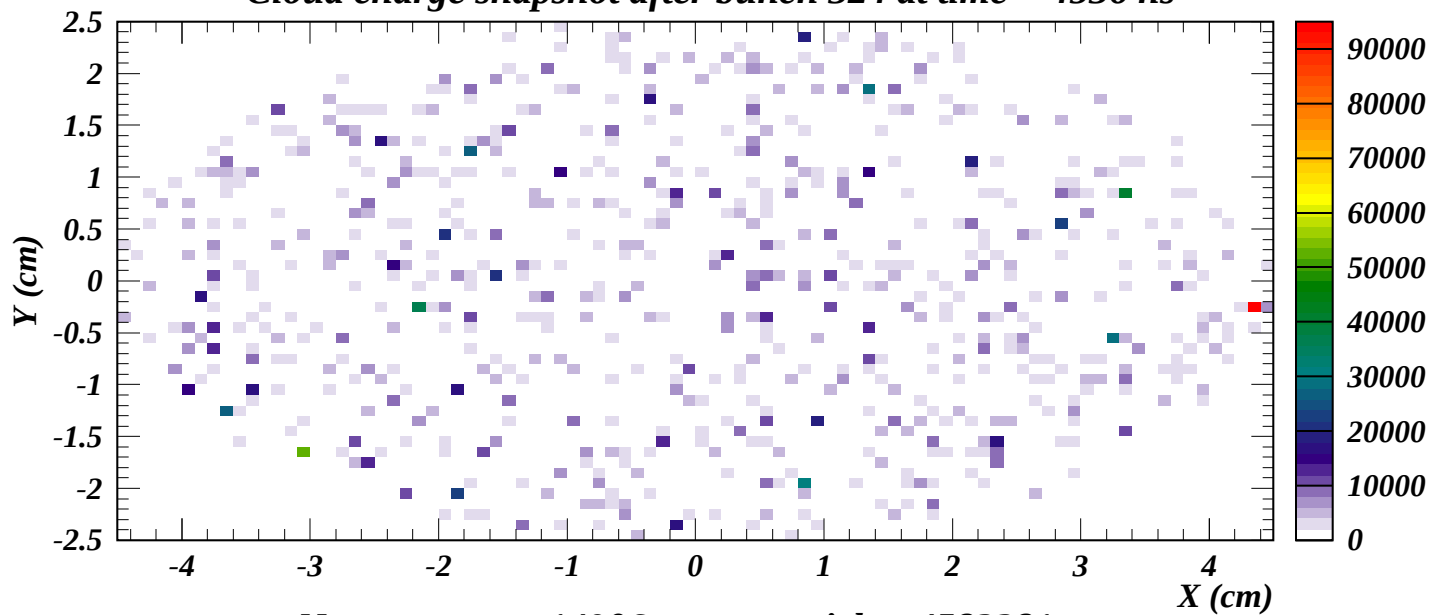
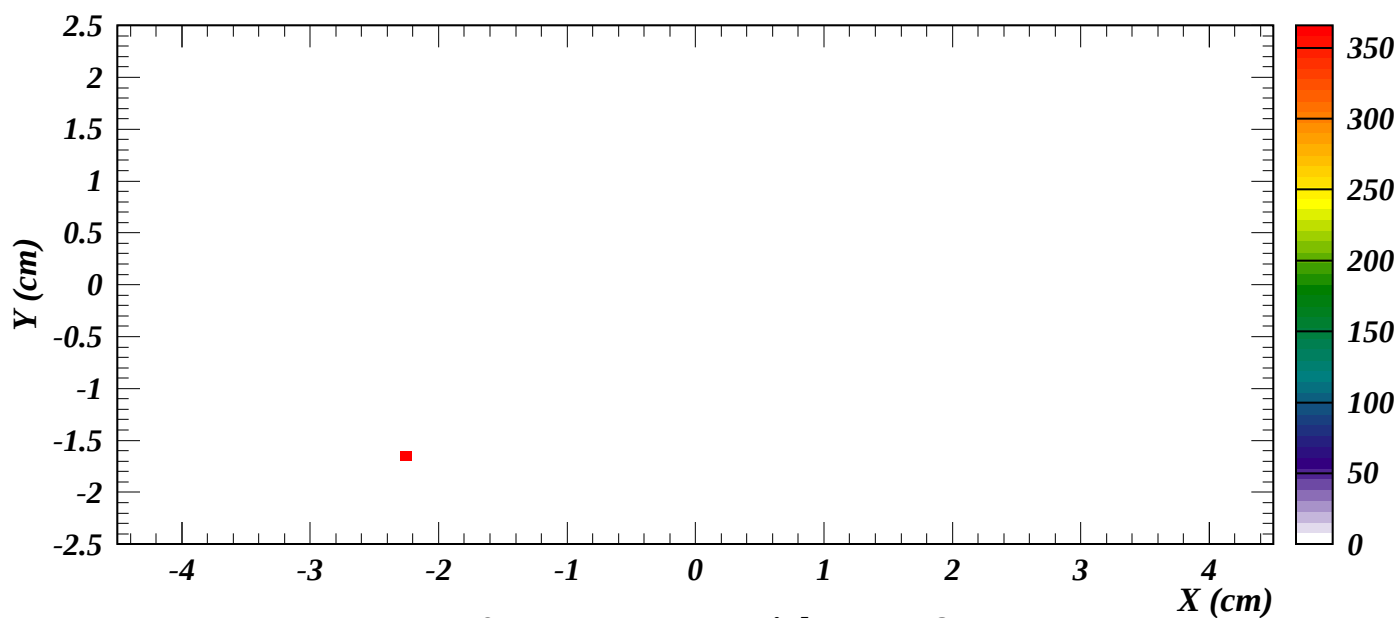


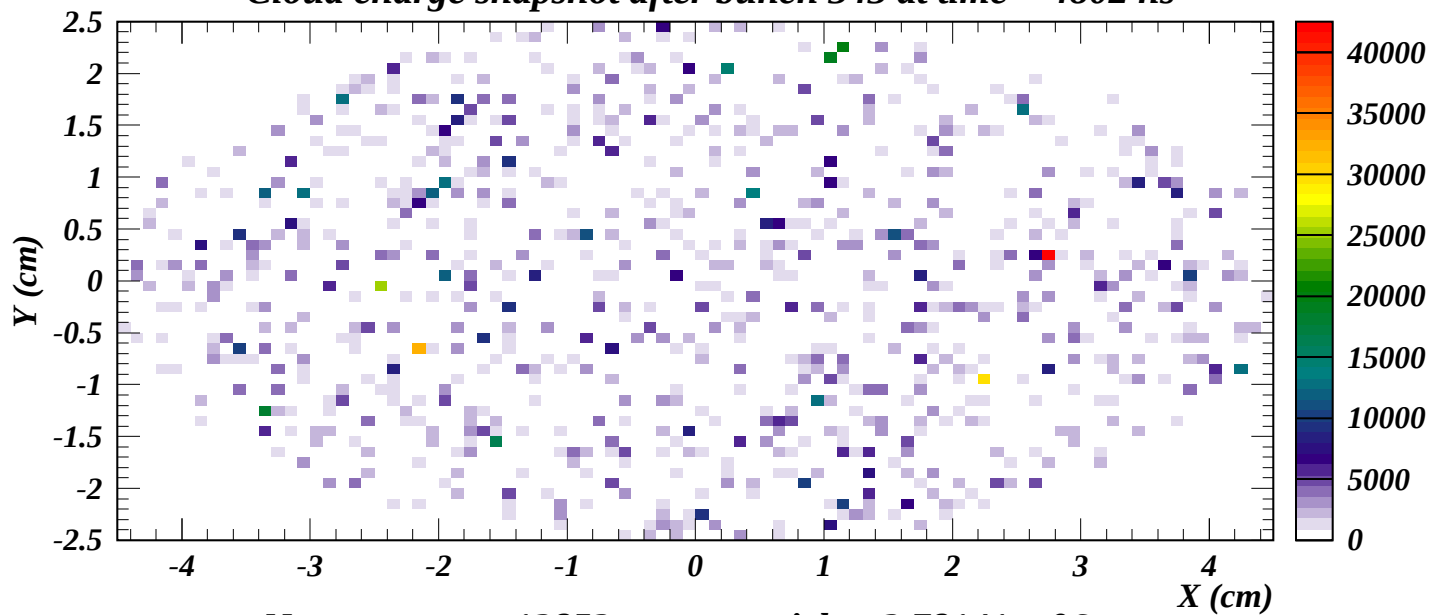
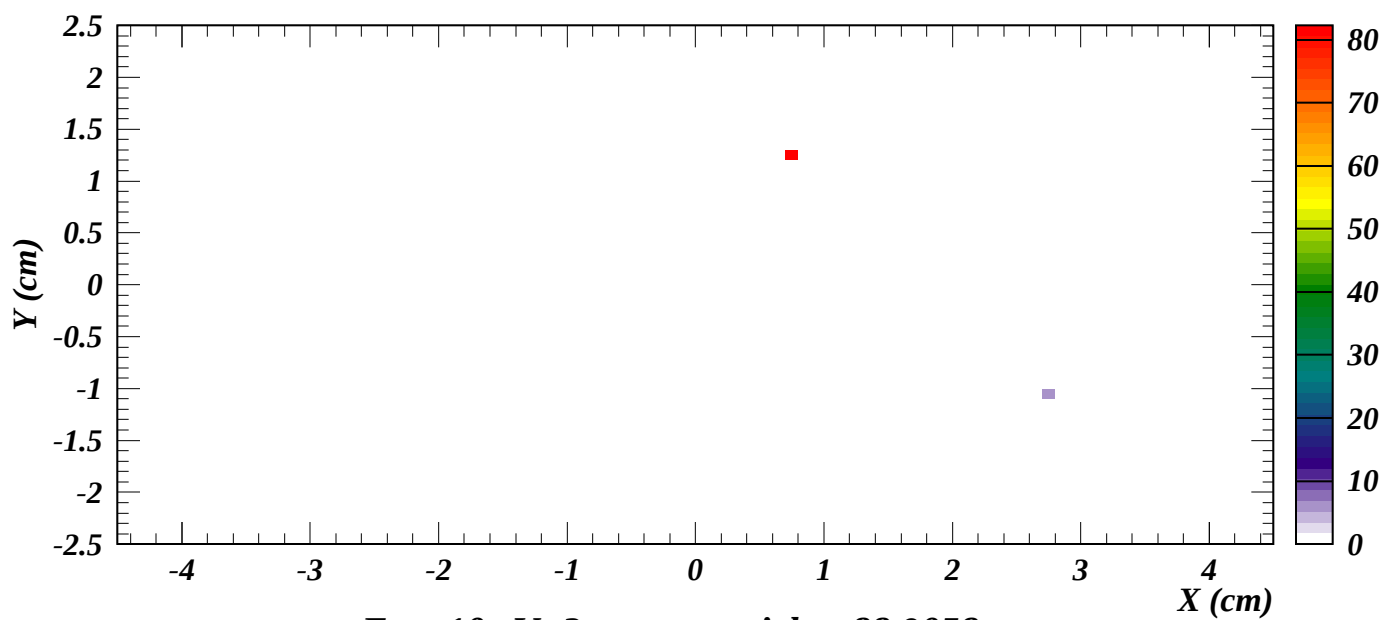
No energy cut: 20094 macroparticles, 16205948 e-

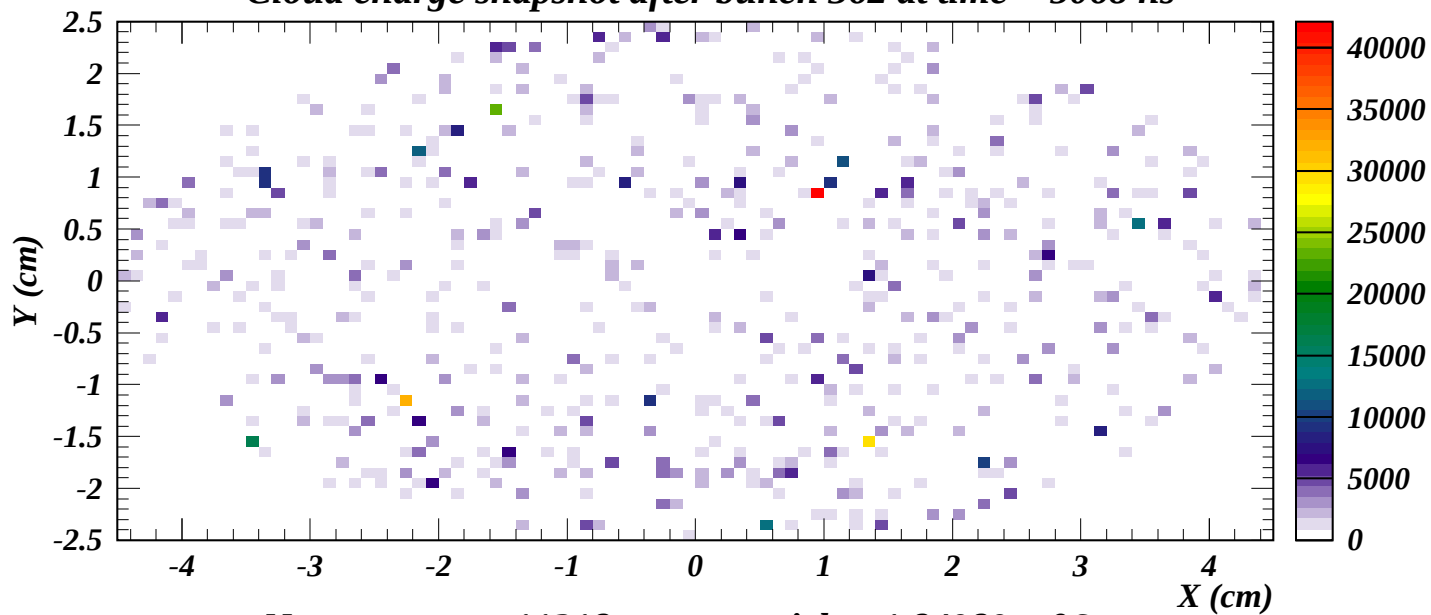
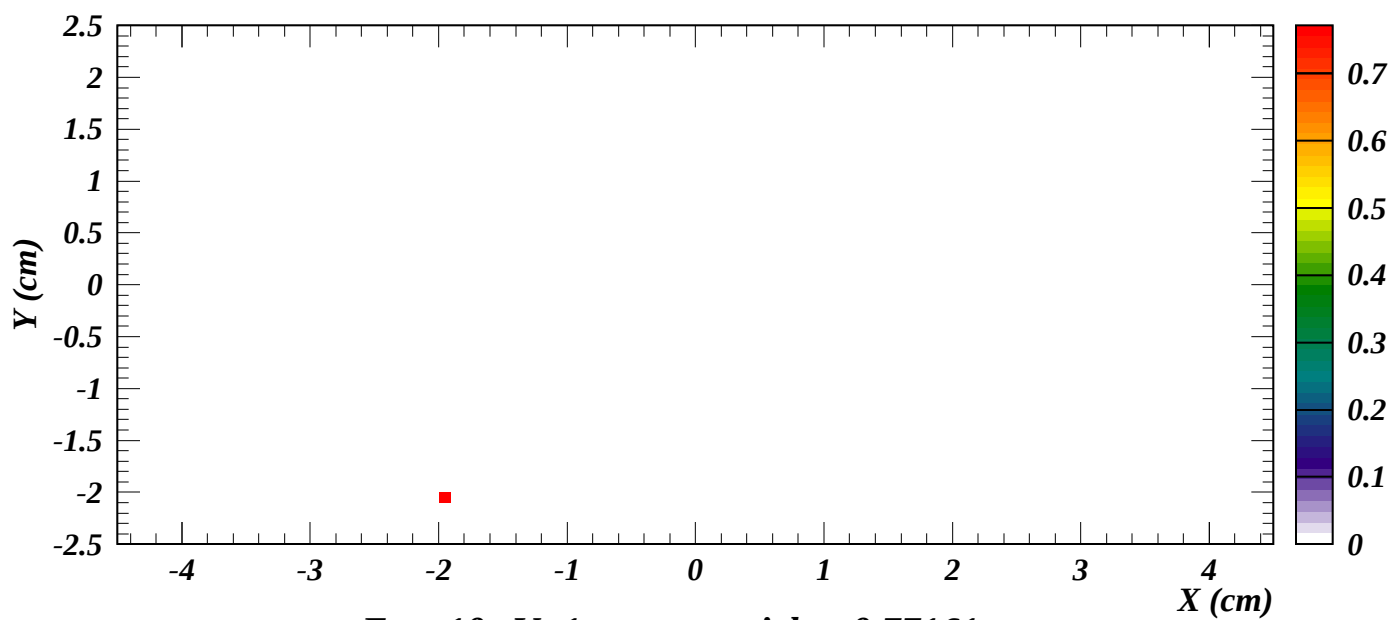


$E_{kin} > 10$ eV: 10 macroparticles, 76.9518 e-

Cloud charge snapshot after bunch 305 at time = 4270 ns*No energy cut: 17333 macroparticles, 8.13249e+06 e-* *$E_{kin} > 10$ eV: 5 macroparticles, 520.514 e-*

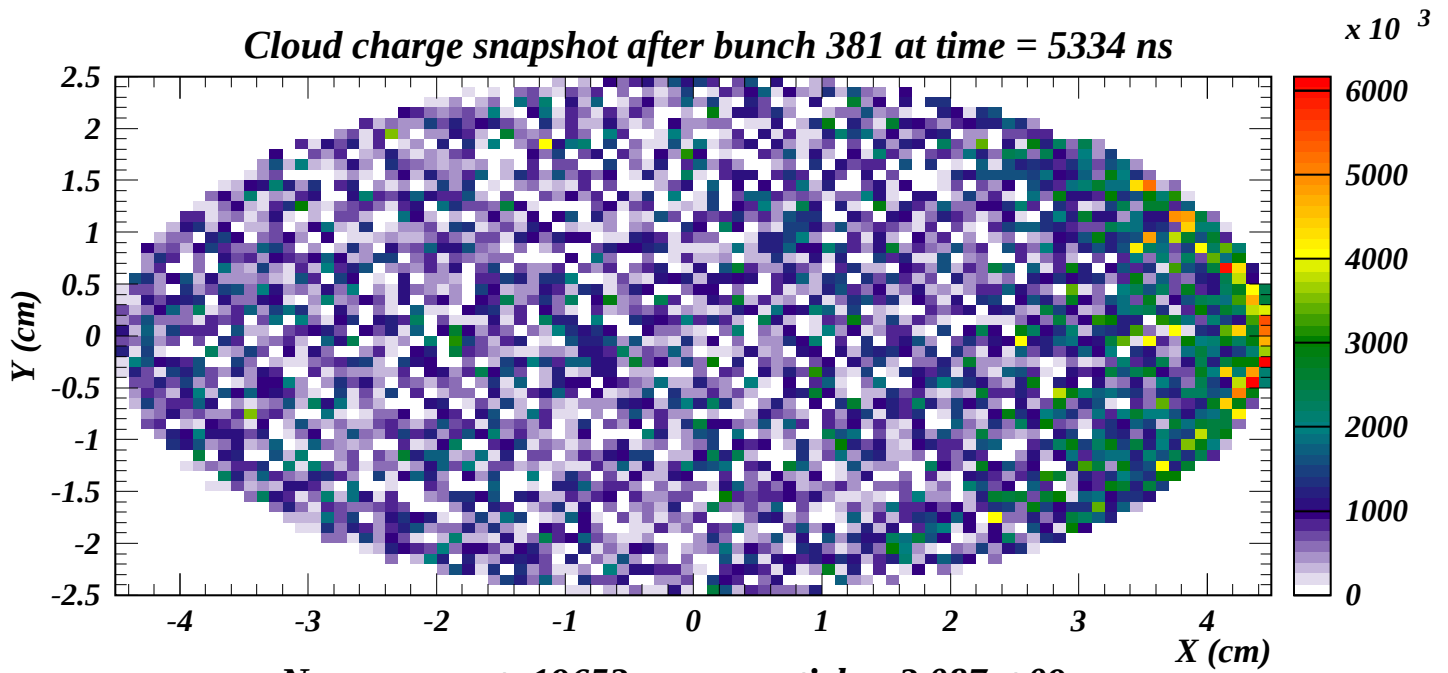
Cloud charge snapshot after bunch 324 at time = 4536 ns*No energy cut: 14906 macroparticles, 4583281 e-* *$E_{\text{kin}} > 10$ eV: 1 macroparticles, 365.82 e-*

Cloud charge snapshot after bunch 343 at time = 4802 ns*No energy cut: 12853 macroparticles, 2.78141e+06 e-* *$E_{kin} > 10$ eV: 2 macroparticles, 88.9058 e-*

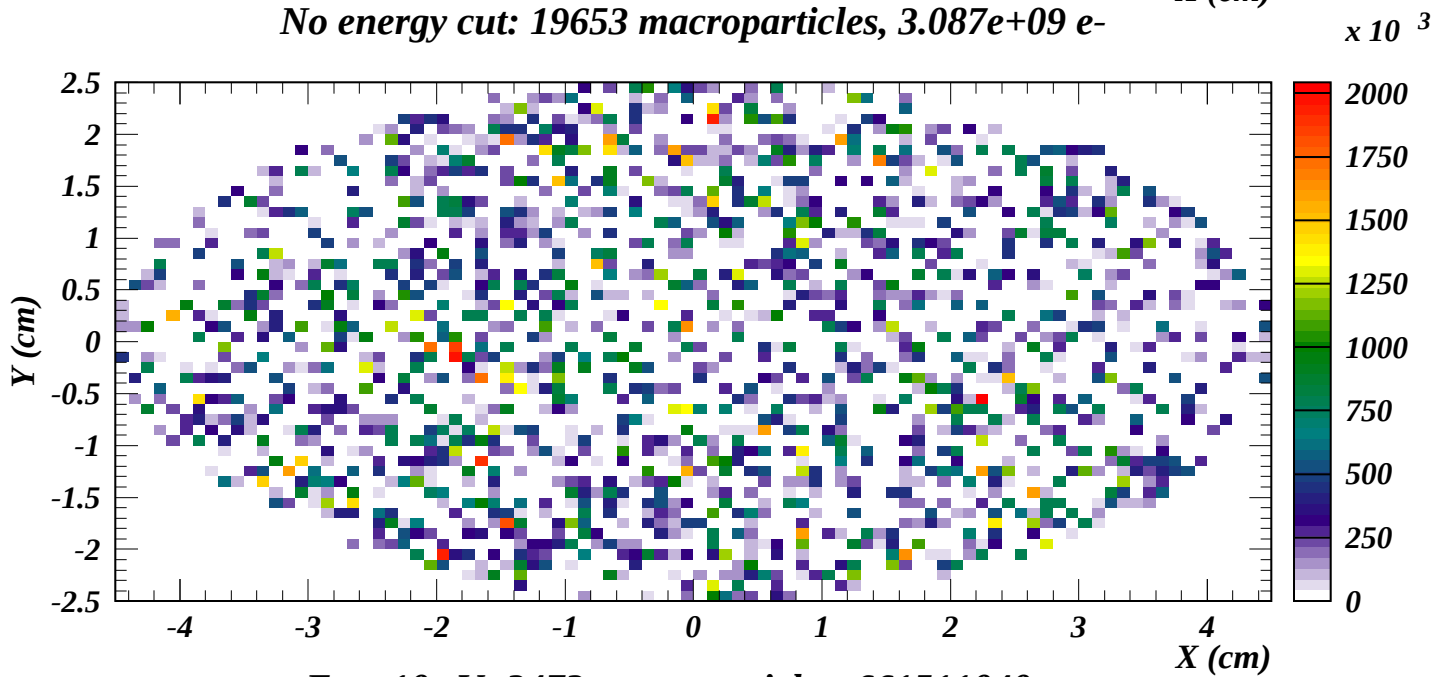
Cloud charge snapshot after bunch 362 at time = 5068 ns*No energy cut: 11218 macroparticles, 1.84989e+06 e-* *$E_{kin} > 10$ eV: 1 macroparticles, 0.77161 e-*

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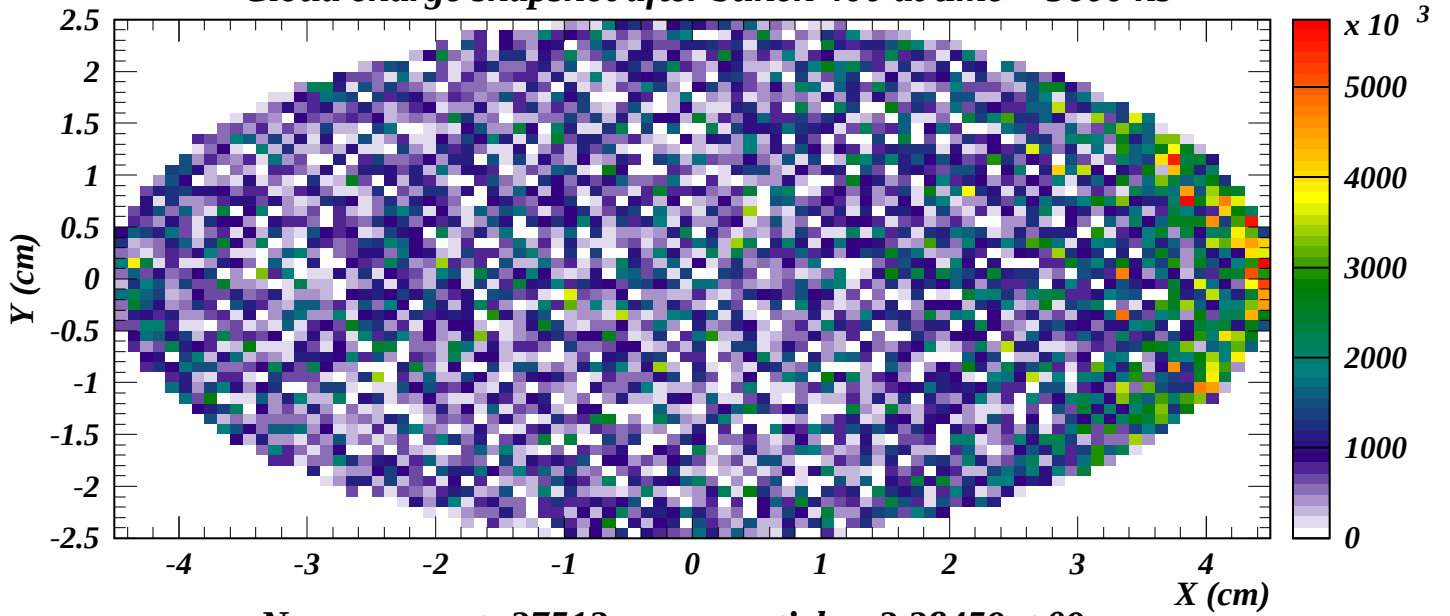
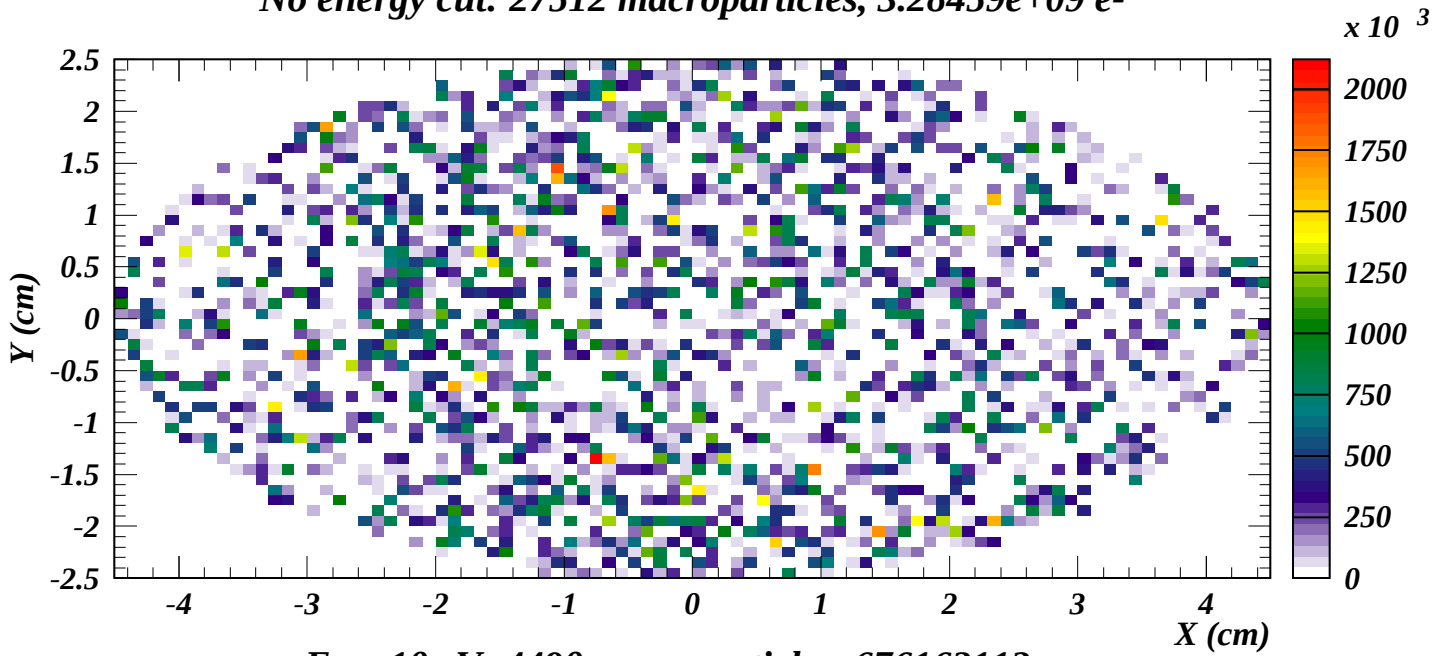
Cloud charge snapshot after bunch 381 at time = 5334 ns

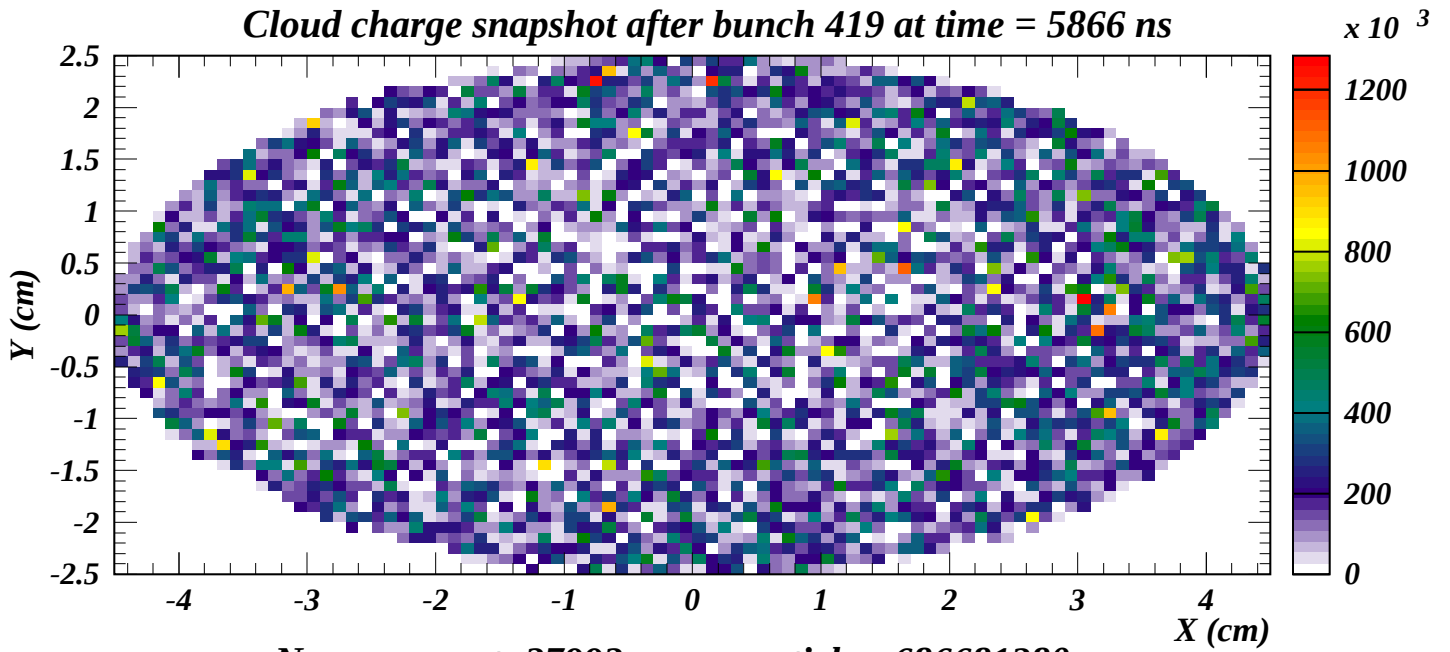
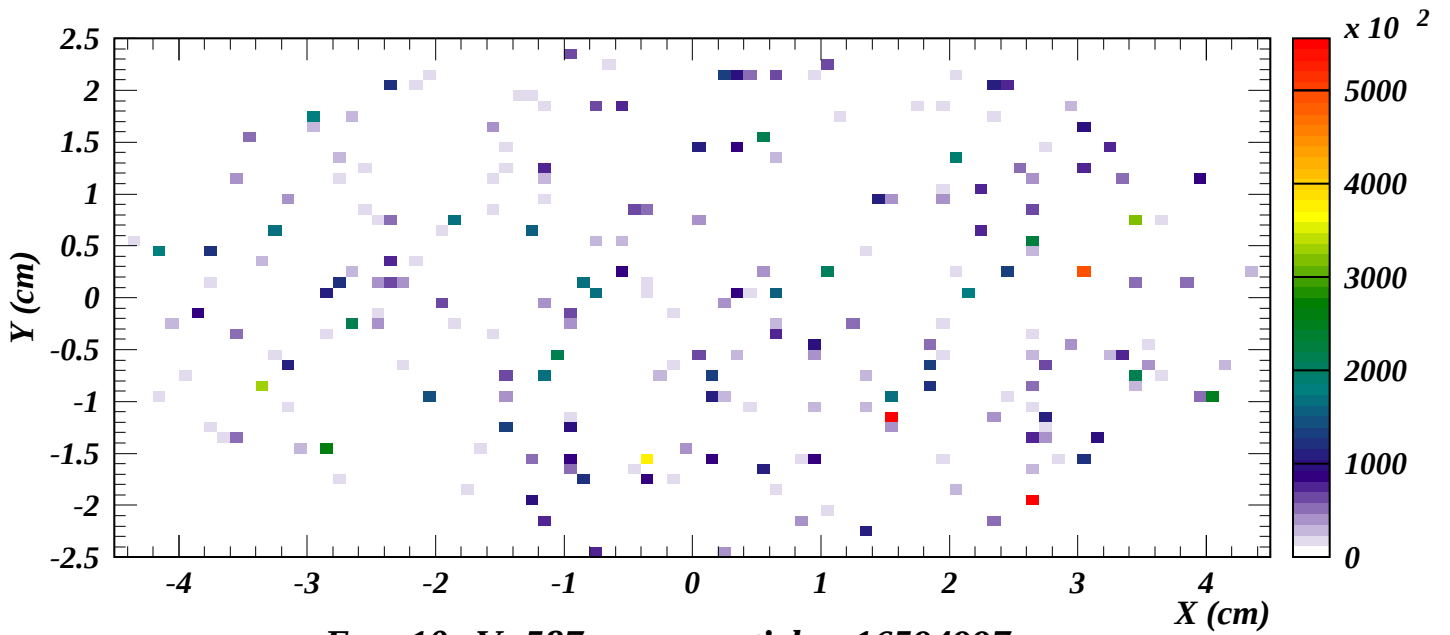


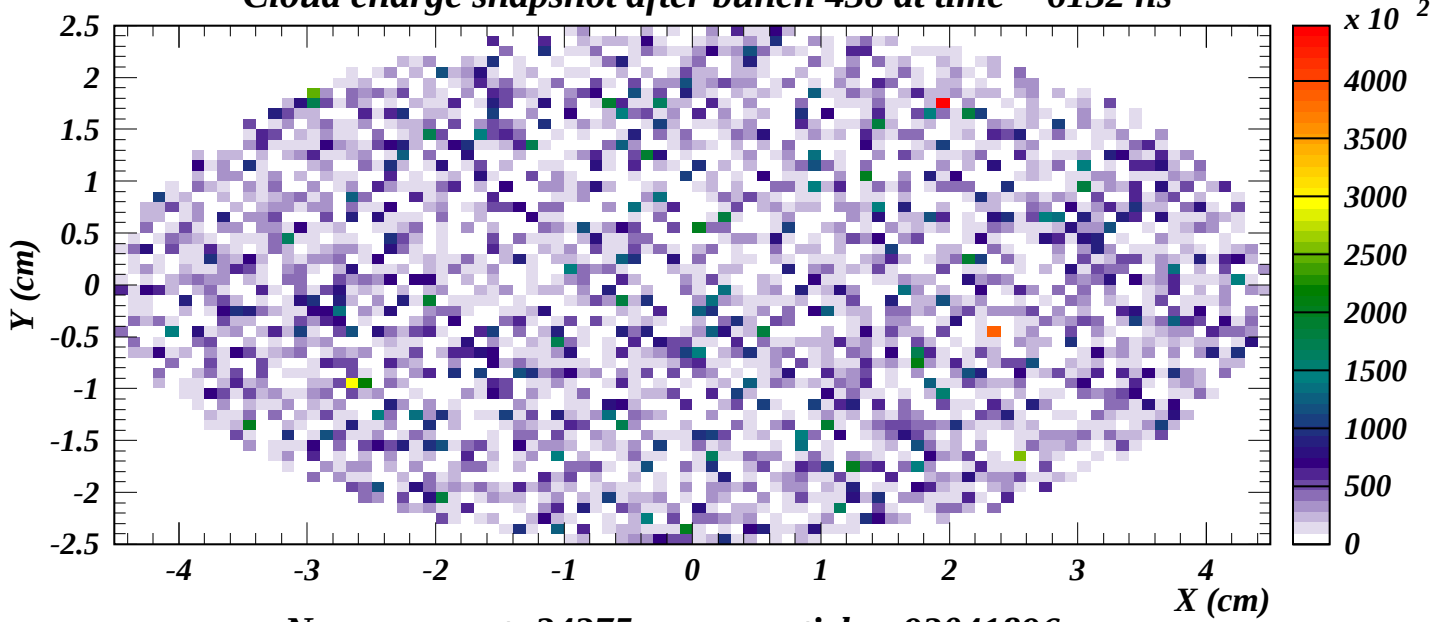
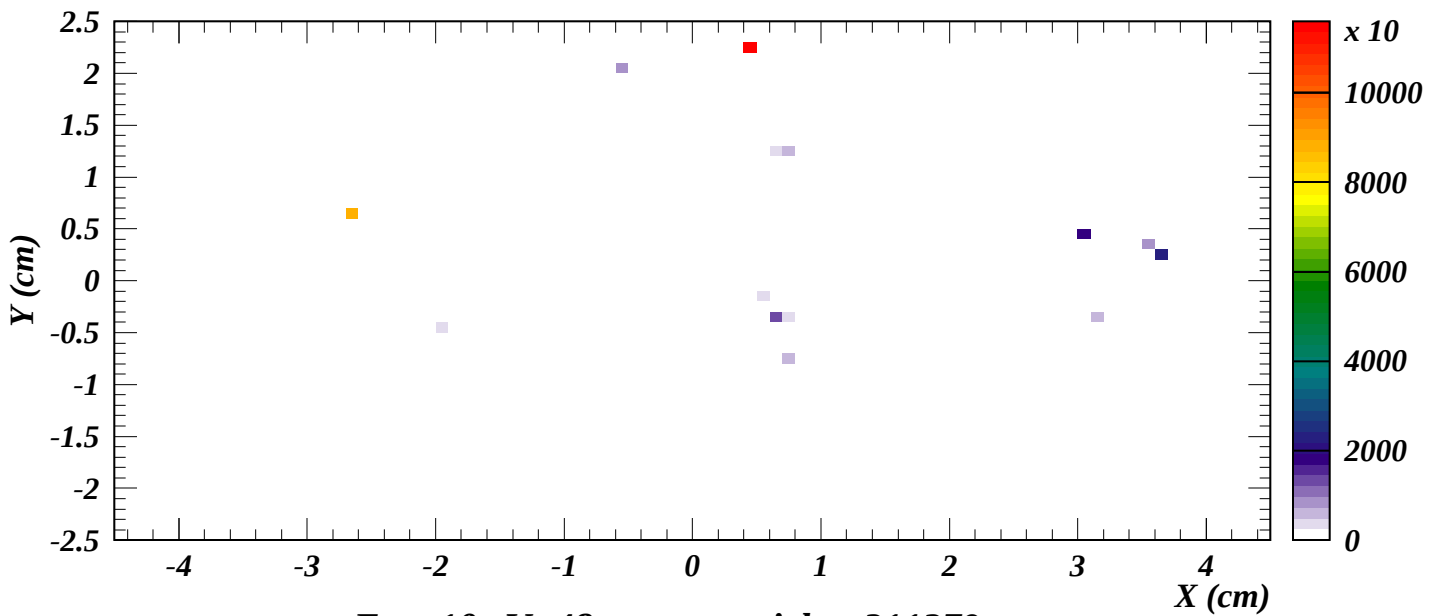
No energy cut: 19653 macroparticles, $3.087e+09 e^-$



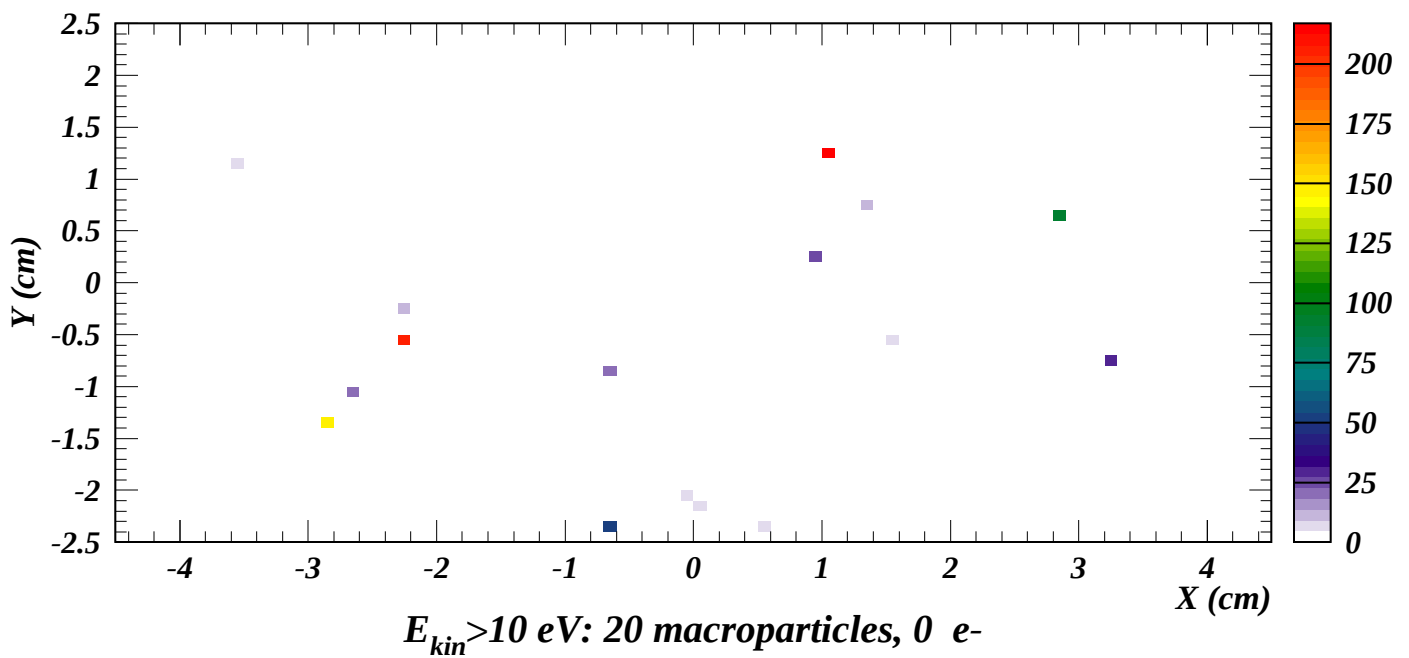
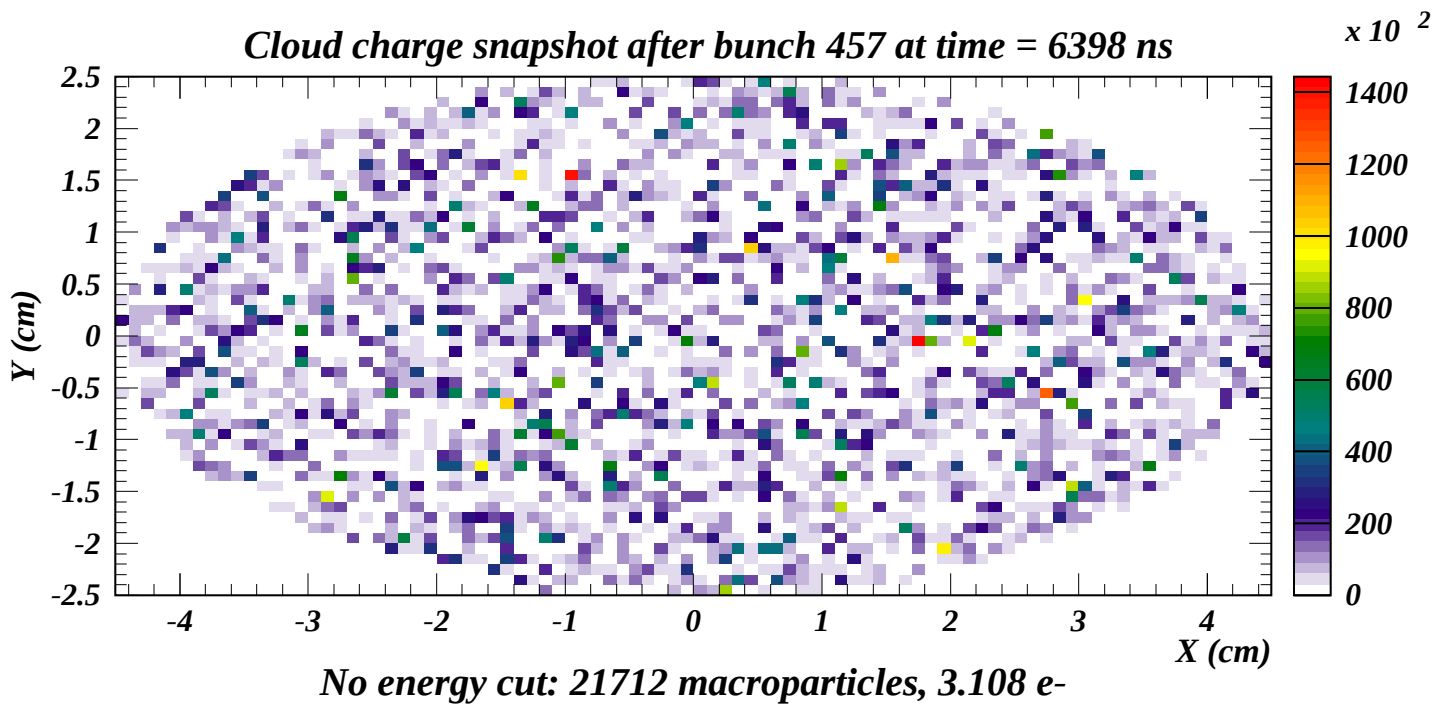
$E_{\text{kin}} > 10 \text{ eV}$: 3473 macroparticles, $661511040 e^-$

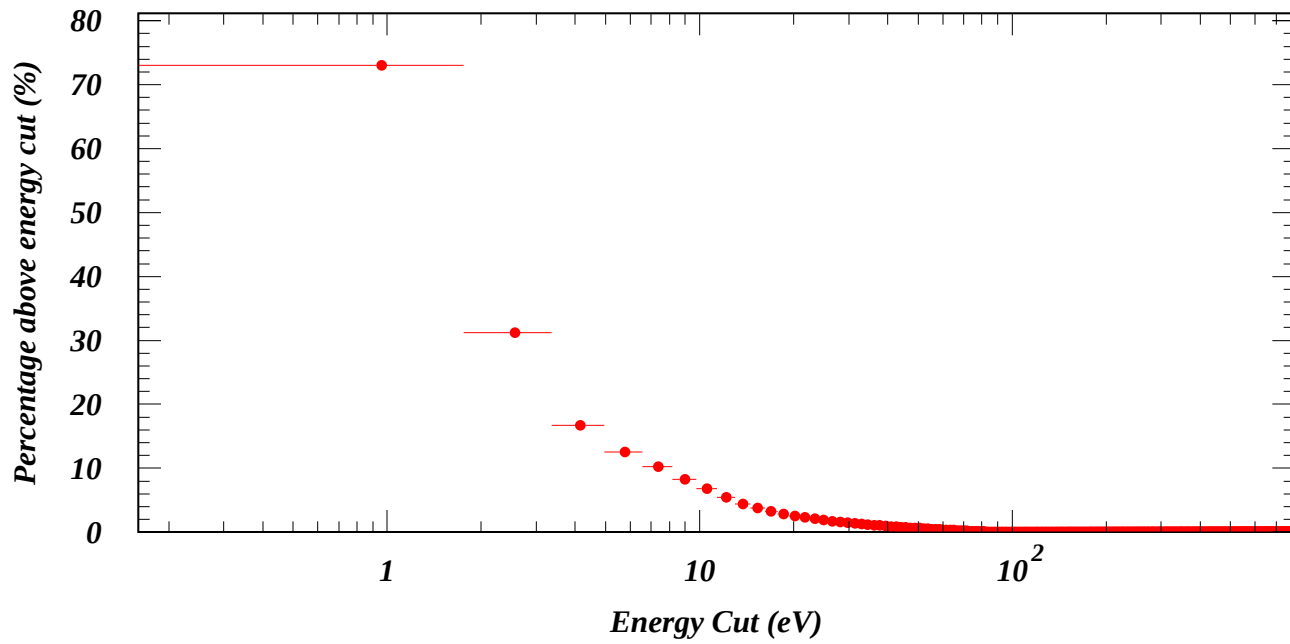
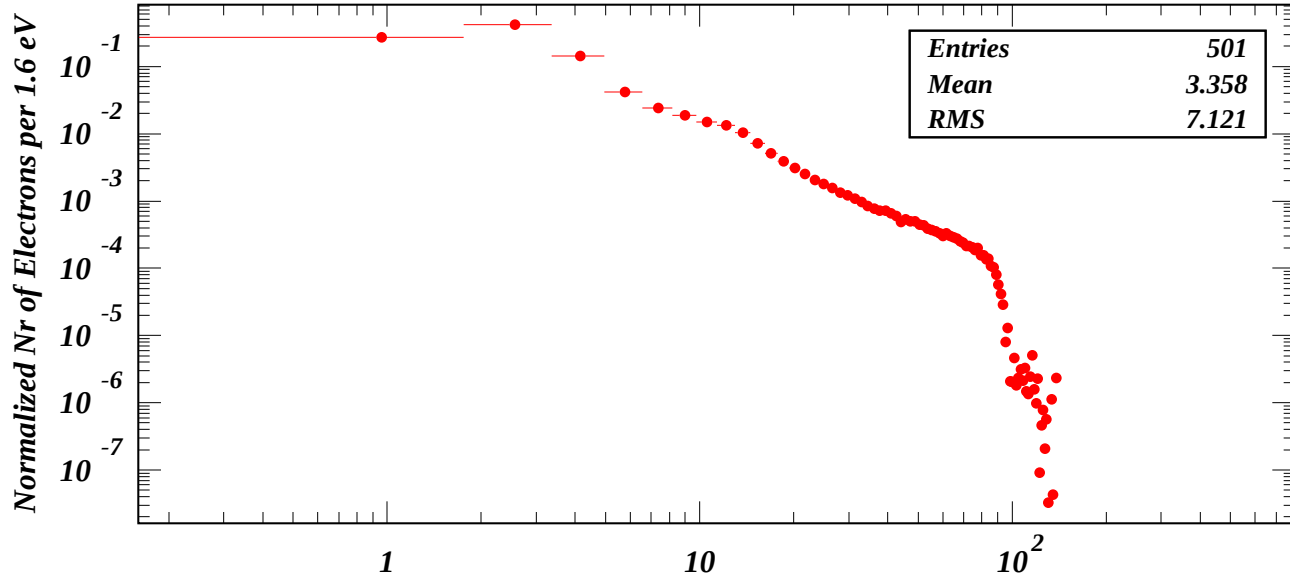
Cloud charge snapshot after bunch 400 at time = 5600 ns*No energy cut: 27512 macroparticles, 3.28459e+09 e-* *$E_{\text{kin}} > 10$ eV: 4490 macroparticles, 676162112 e-*

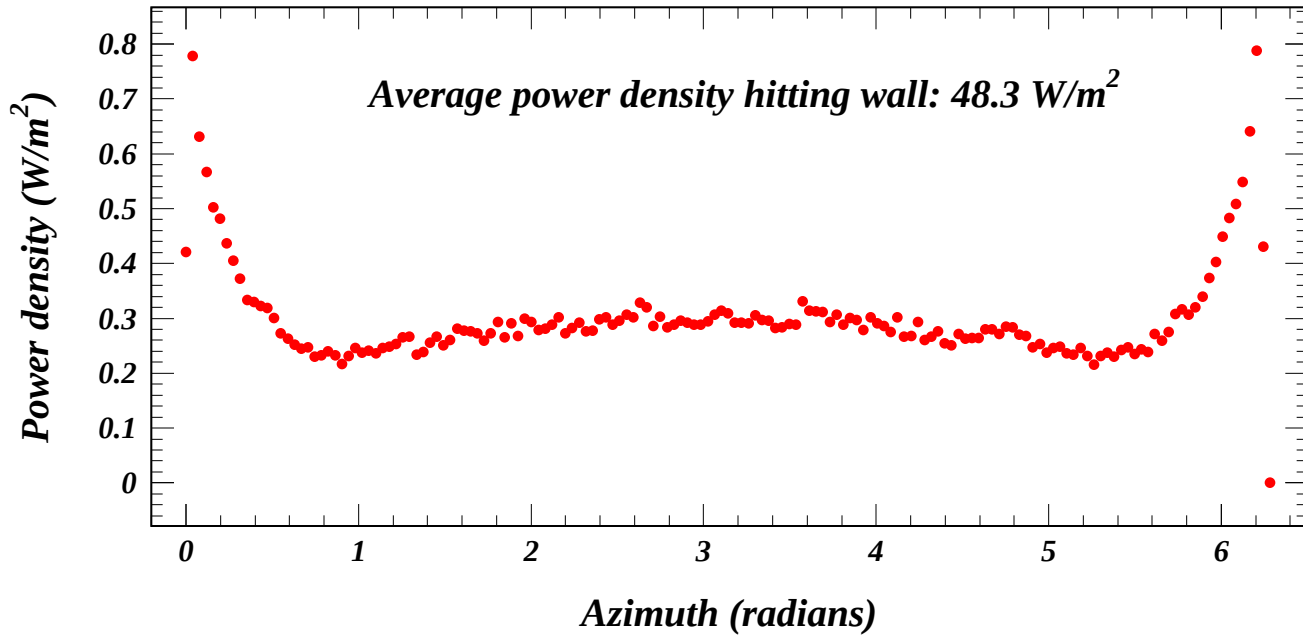
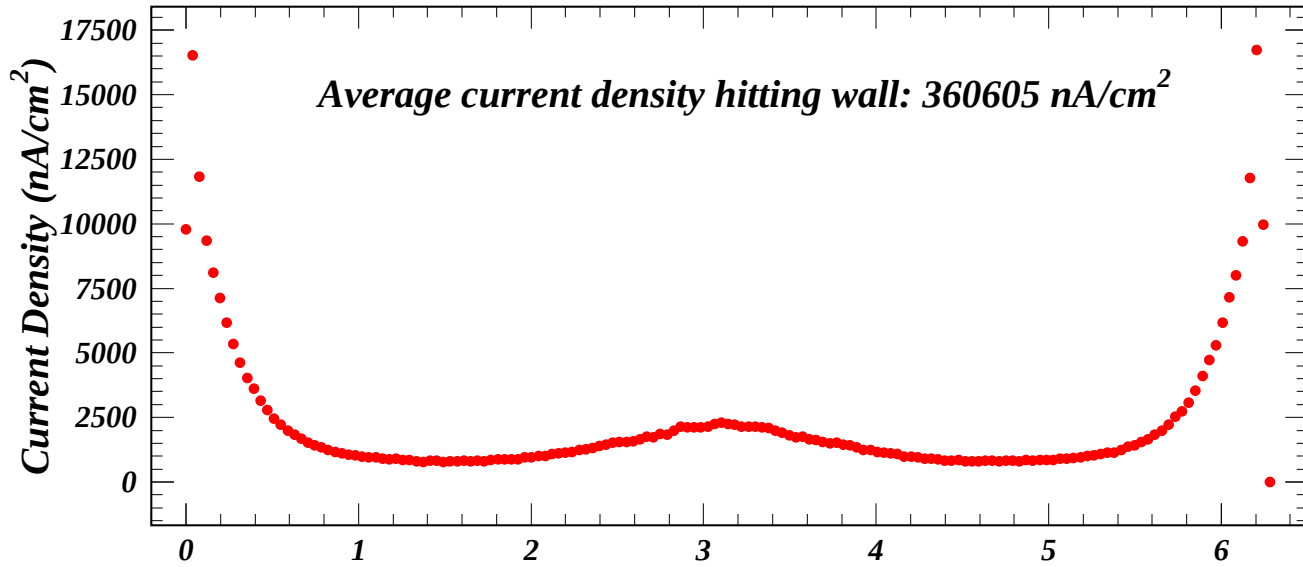
Cloud charge snapshot after bunch 419 at time = 5866 ns*No energy cut: 27992 macroparticles, 686681280 e-* *$E_{kin} > 10$ eV: 587 macroparticles, 16594997 e-*

Cloud charge snapshot after bunch 438 at time = 6132 ns*No energy cut: 24275 macroparticles, 93041896 e-* *$E_{kin} > 10$ eV: 48 macroparticles, 311279 e-*

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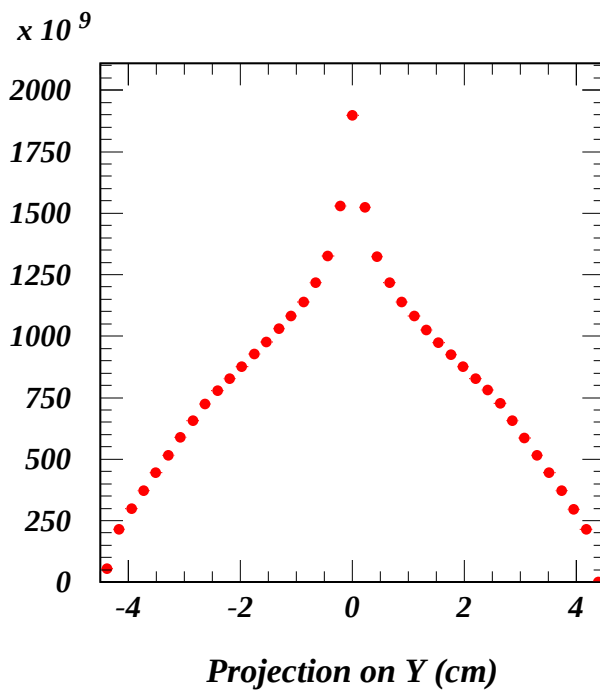
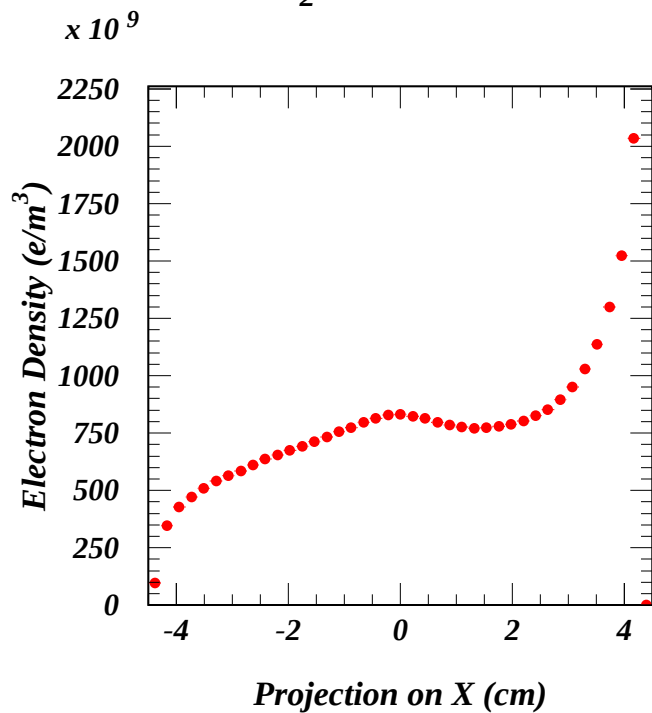
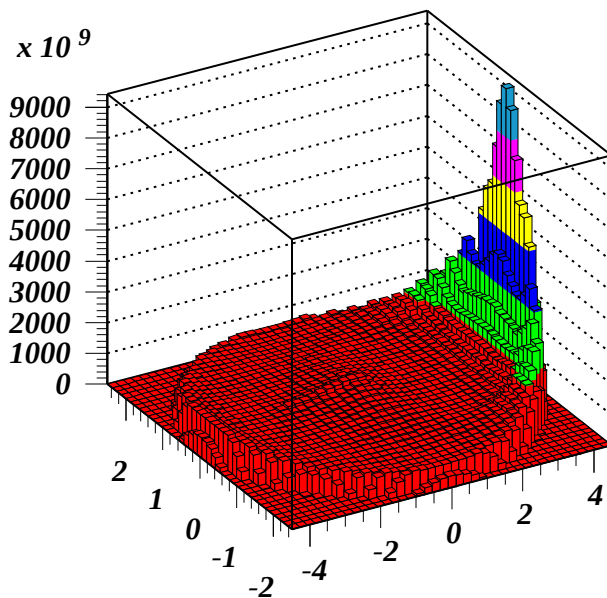
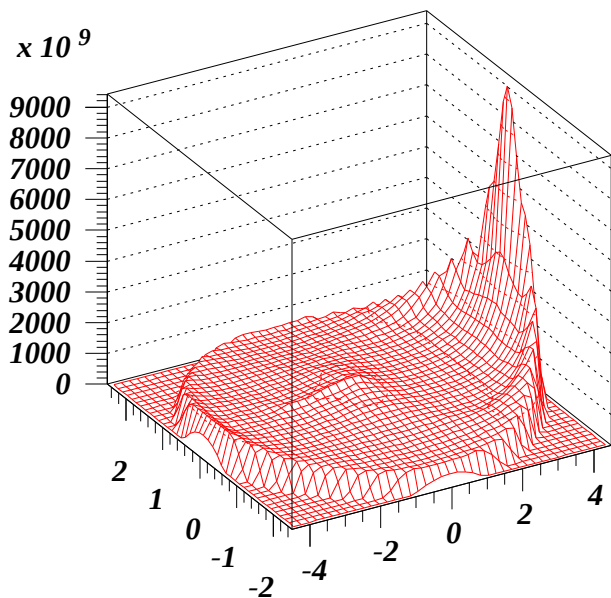


ECLLOUD-TS0608_SEY20_Epk310: Time-Integrated Energies of Electrons Hitting Wall

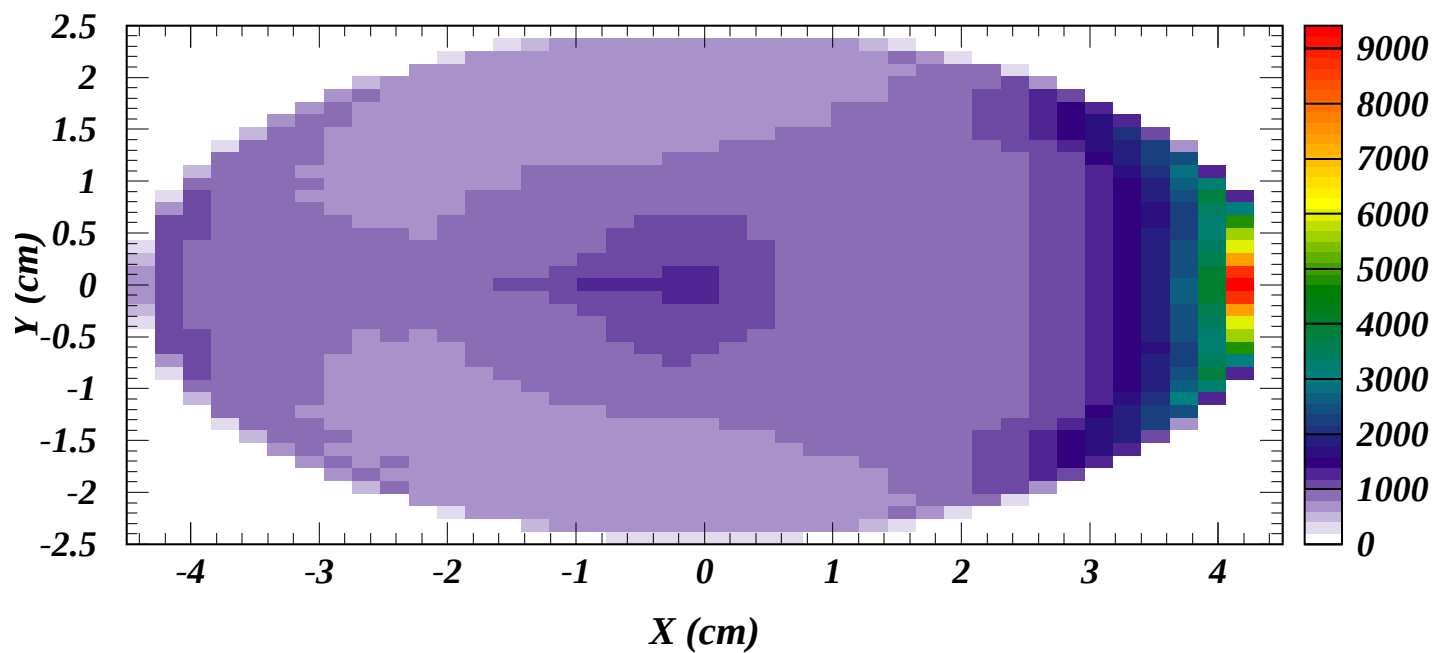
ECLOUD-TS0608_SEY20_Epk310: Time-Integrated Energies of Electrons Hitting Wall

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ECLOUD-TS0608_SEY20_Epk310: Cloud Density (e/m^3) Averaged Over 20510 ns

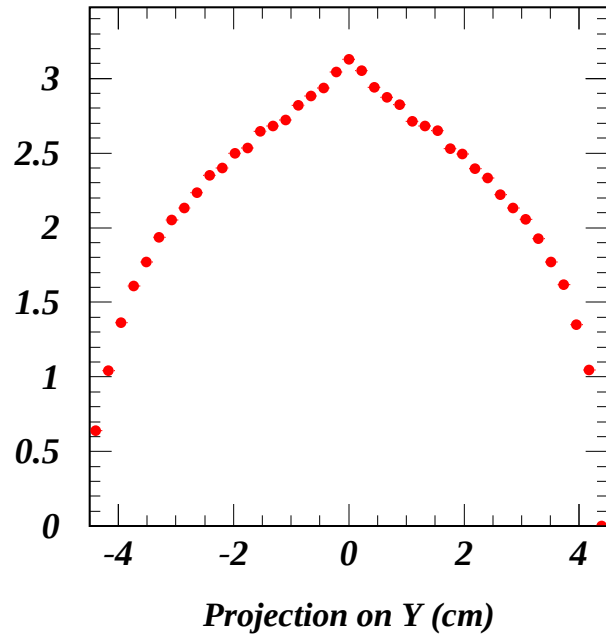
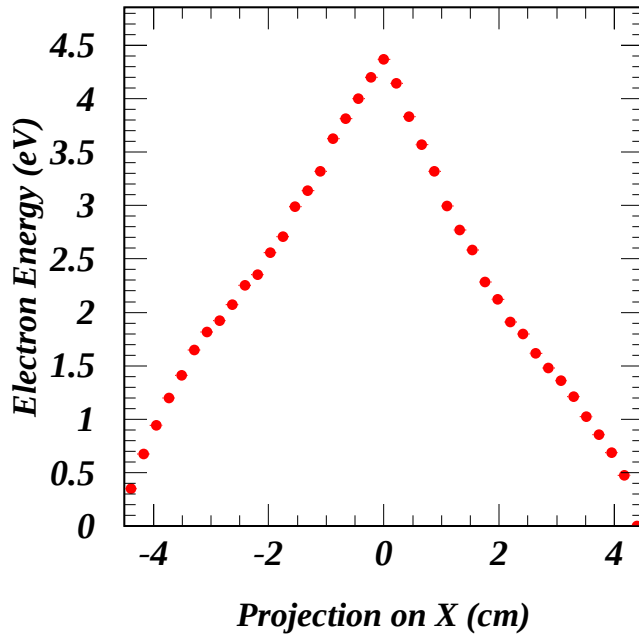
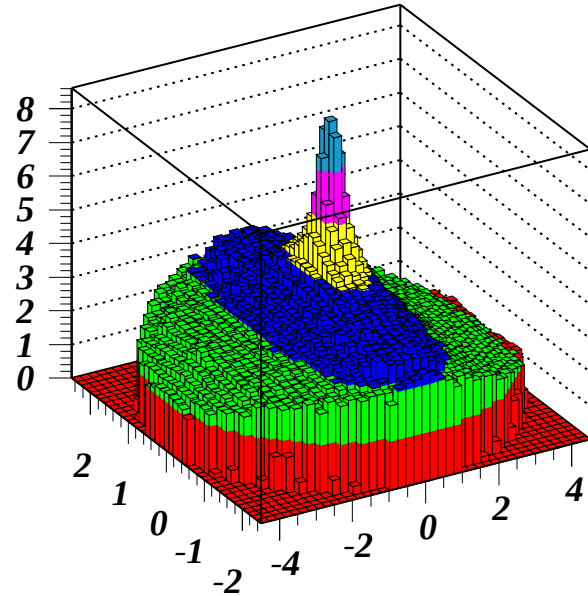
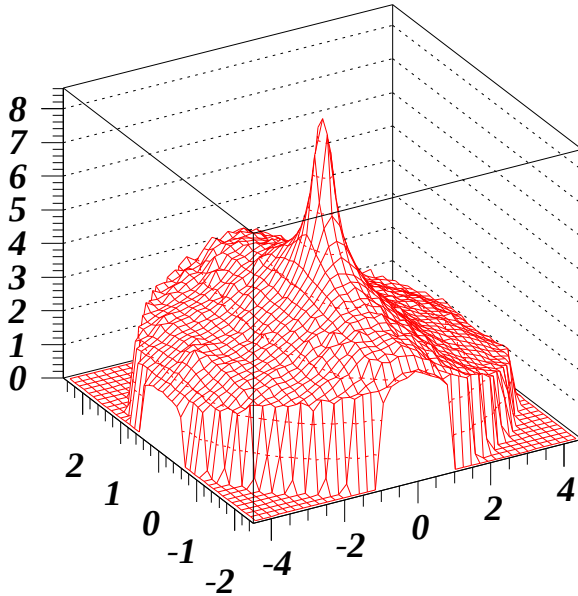


10/03/08 12.40
ECLOUD-TS0608_SEY20_Epk310: Cloud Density (e/m^3) Averaged Over 20510 ns $\times 10^9$



10/03/08 12.40

ECLOUD-TS0608_SEY20_Epk310: Electron Energies (eV) Averaged Over 20510 ns



ECLOUD-TS0608_SEY20_Epk310: Electron Energies (eV) Averaged Over 20510 ns 10/03/08 12.40

