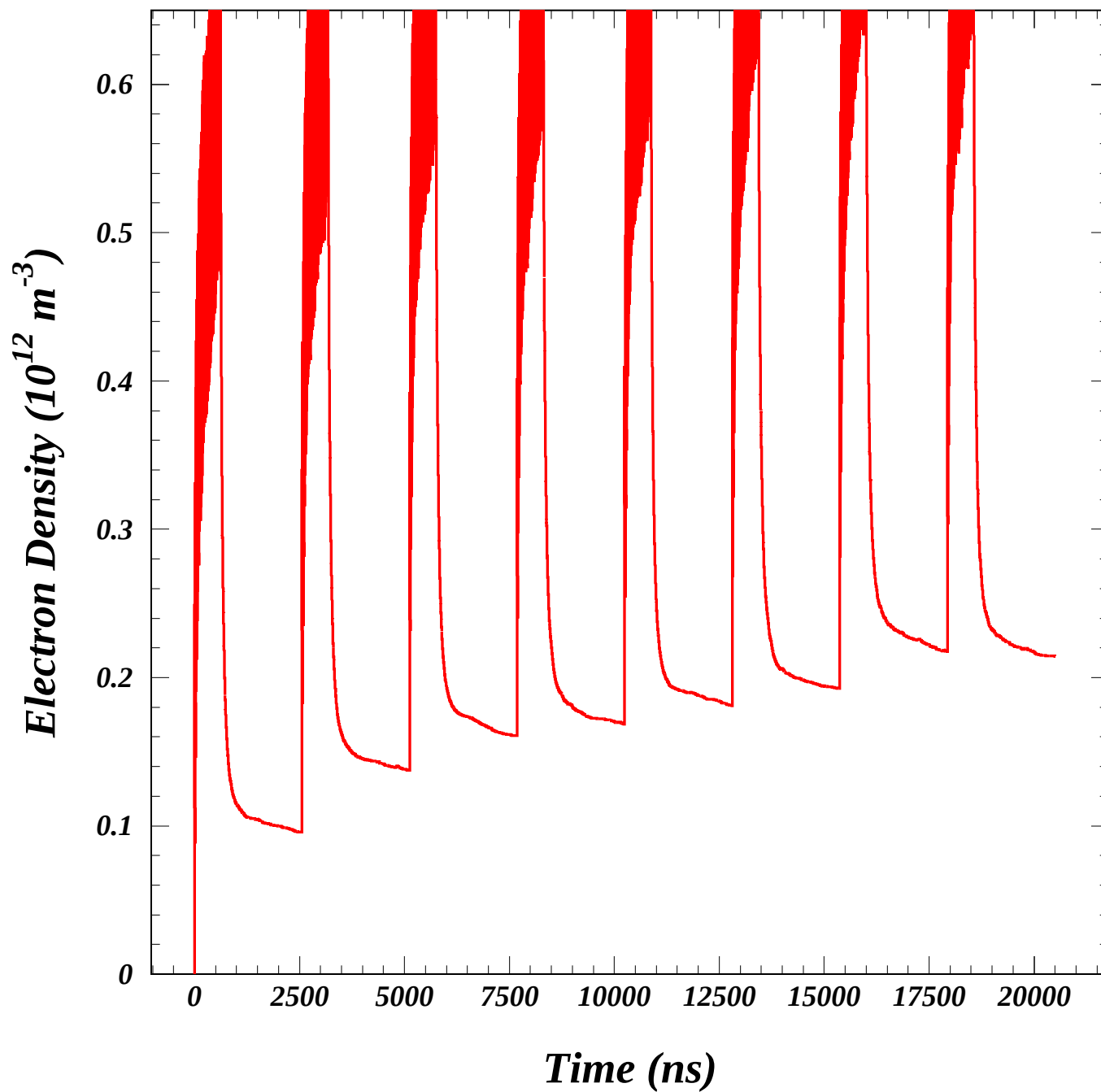
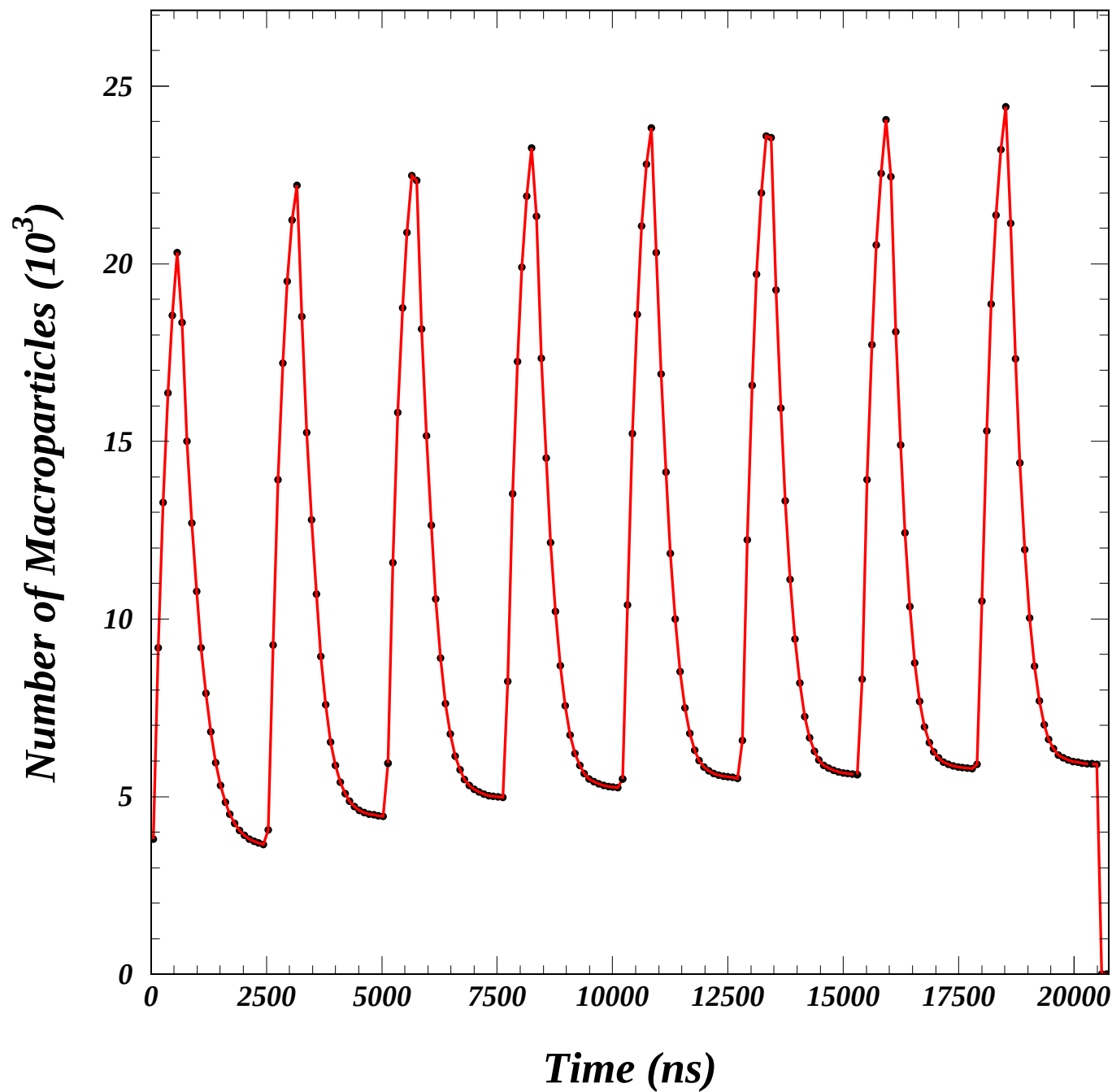
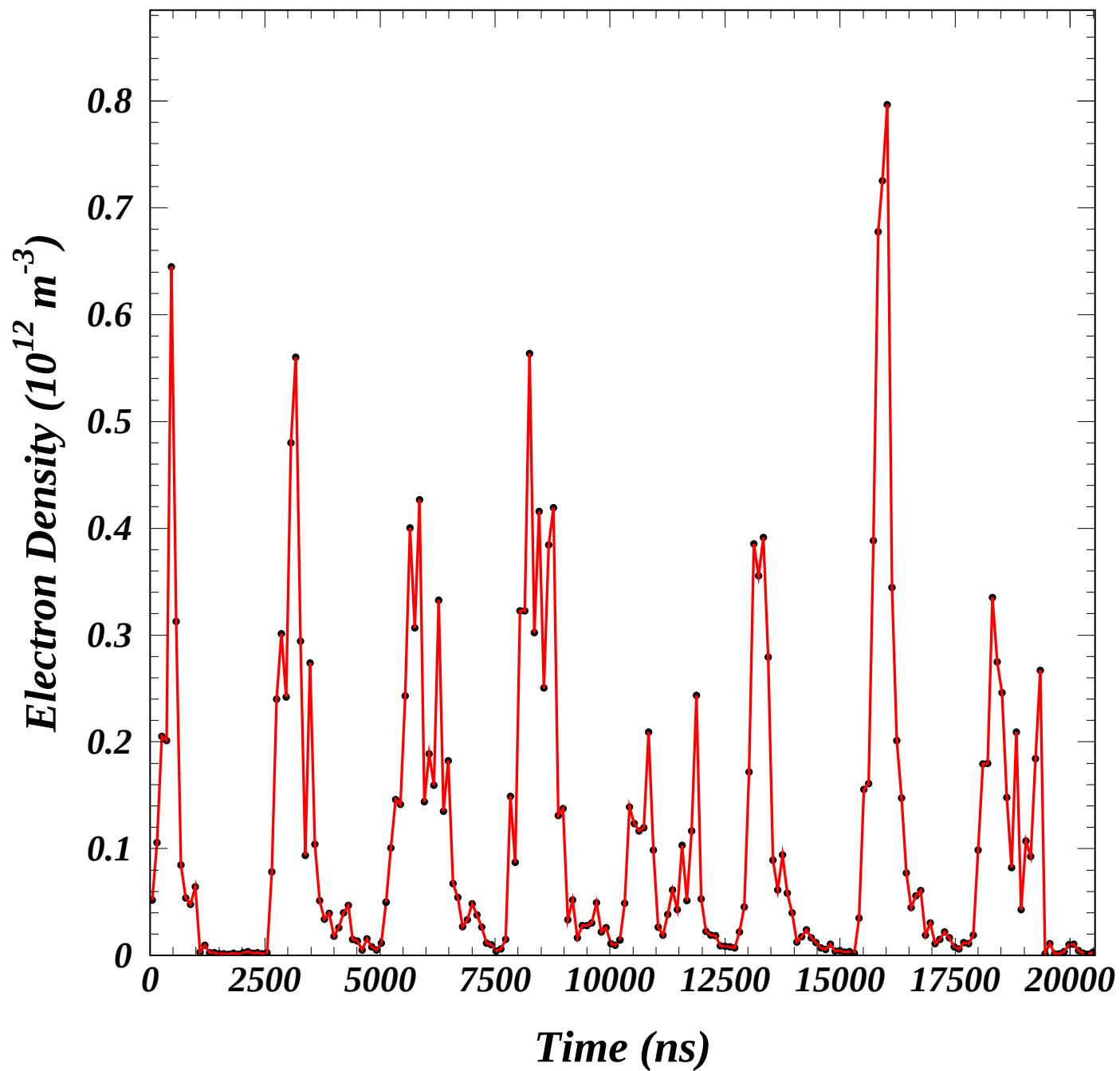


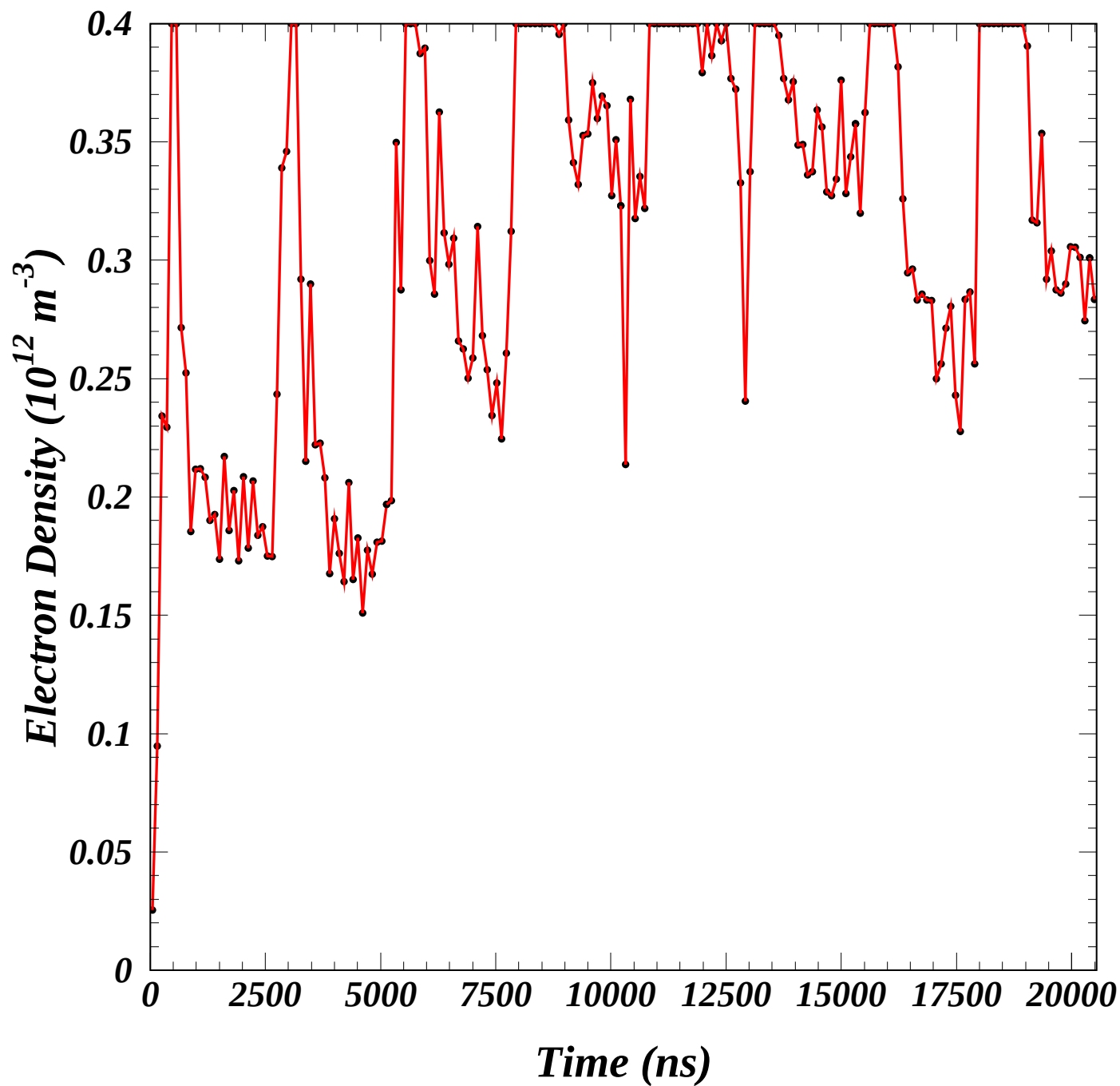
Beampipe-averaged Cloud Density (10^{12} m^{-3}) 10/03/08 09.35



Macroparticle Statistics

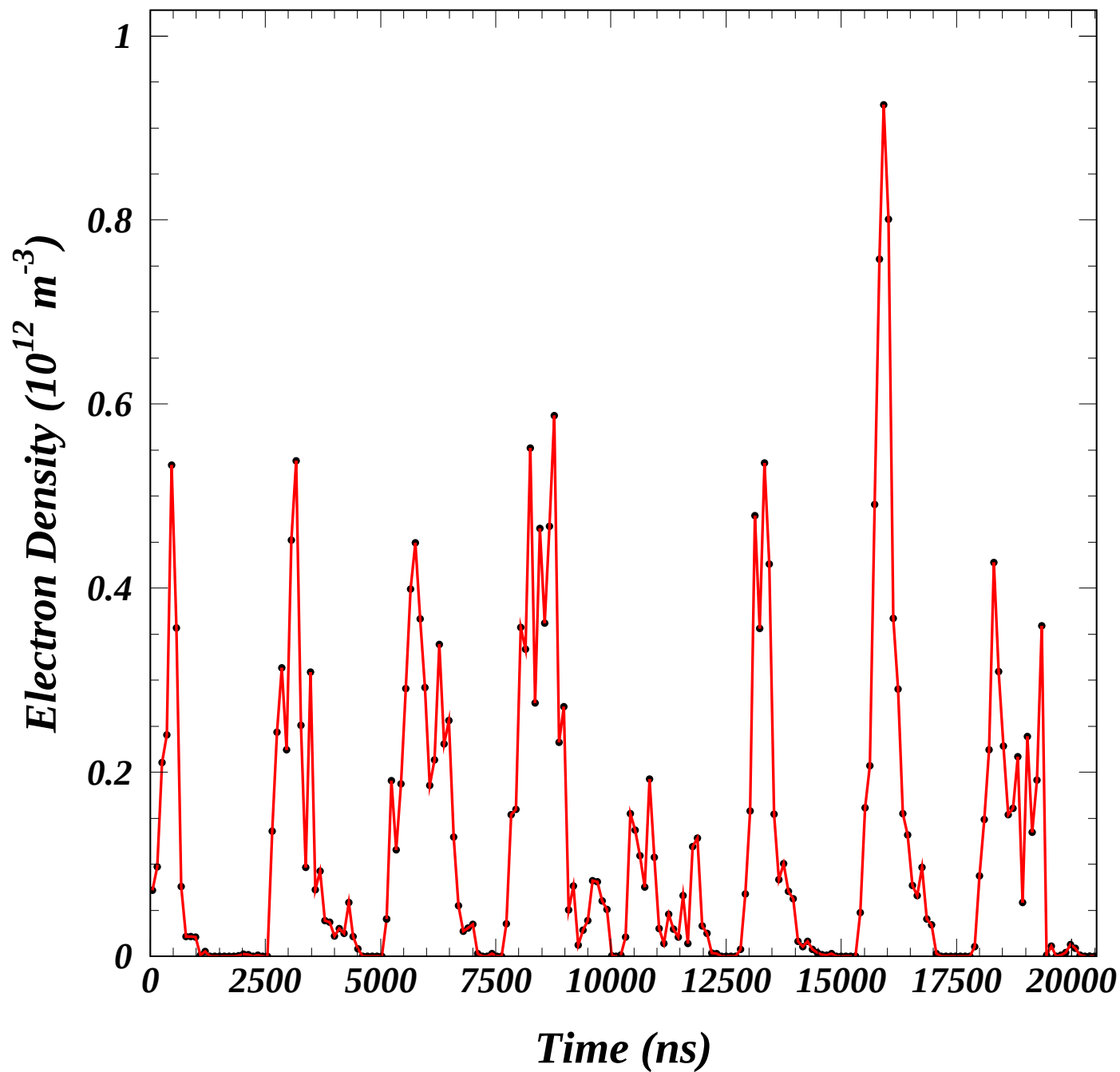


Beam-averaged Cloud Density (10^{12} m^{-3})

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

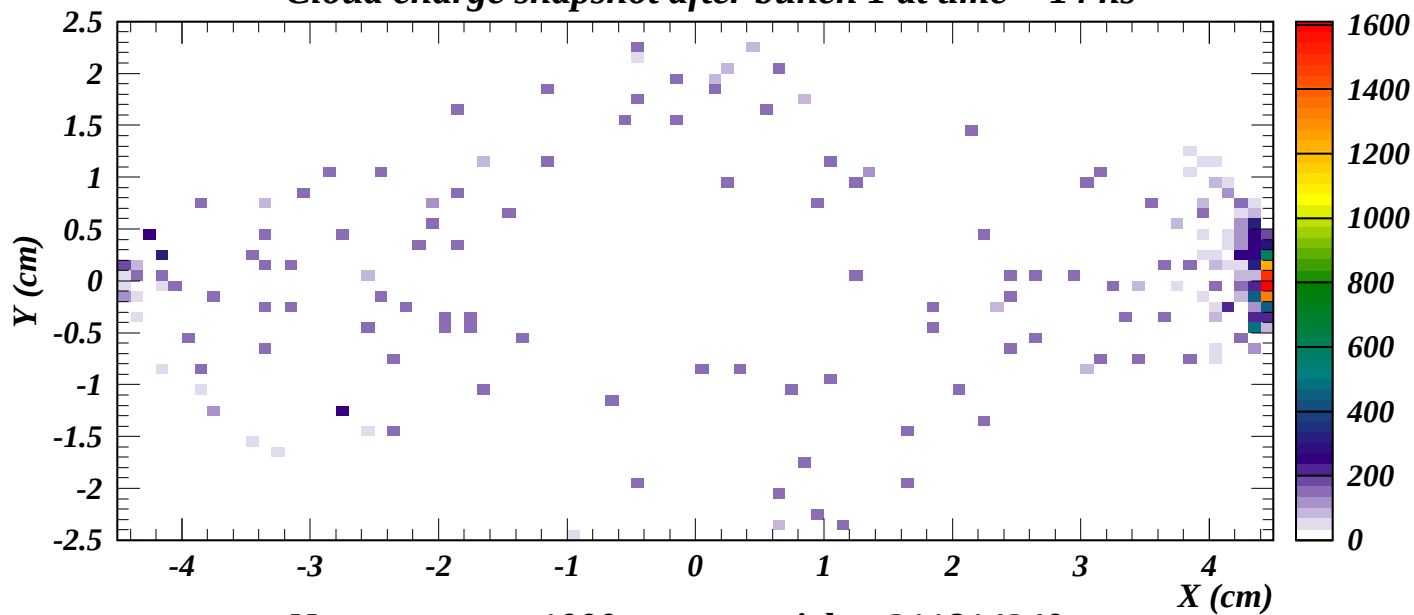
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ECLOUD-TS0608_SEY20_Epk310: Cloud Density in Central Grid Cell (10^{12} m^{-3})

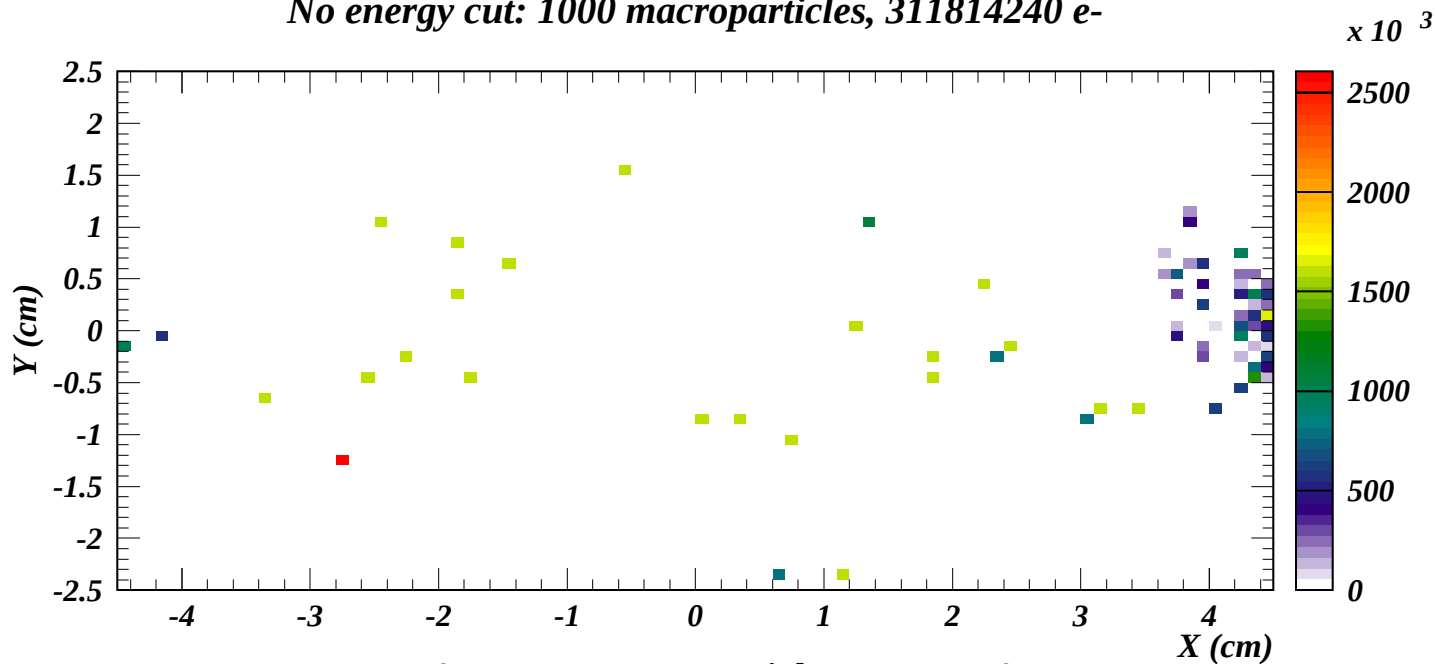


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 $\times 10^4$

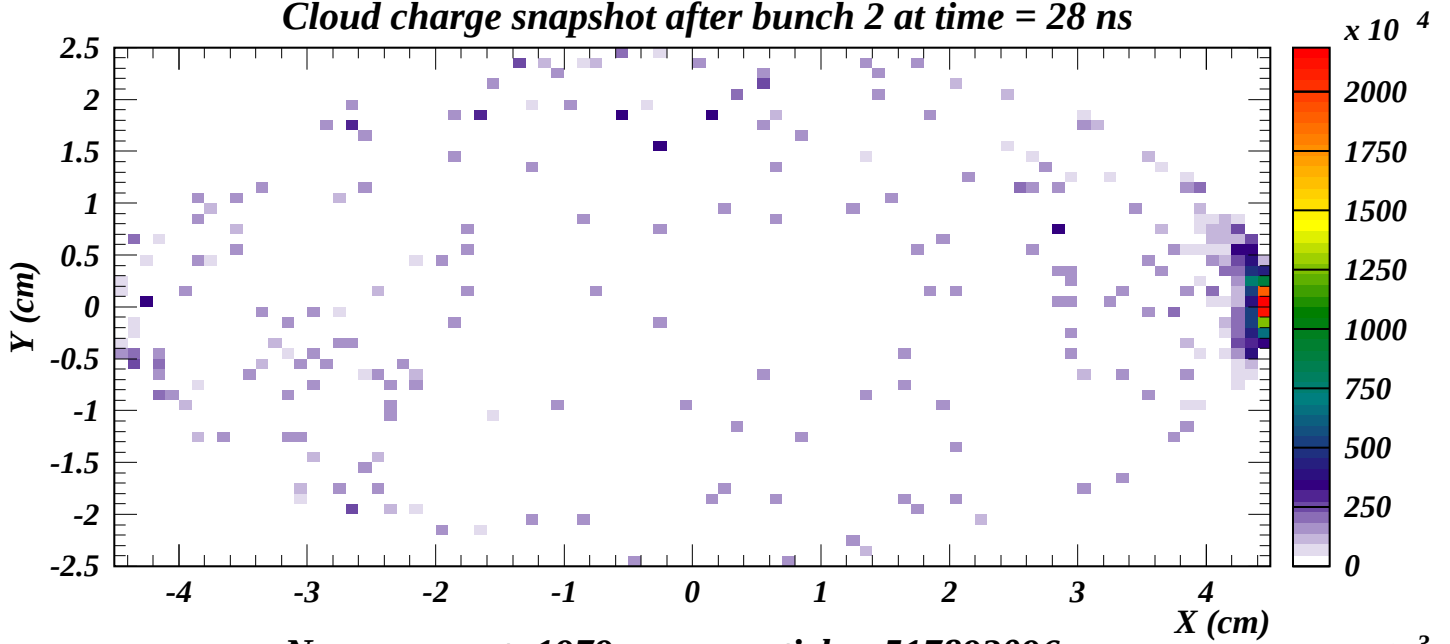
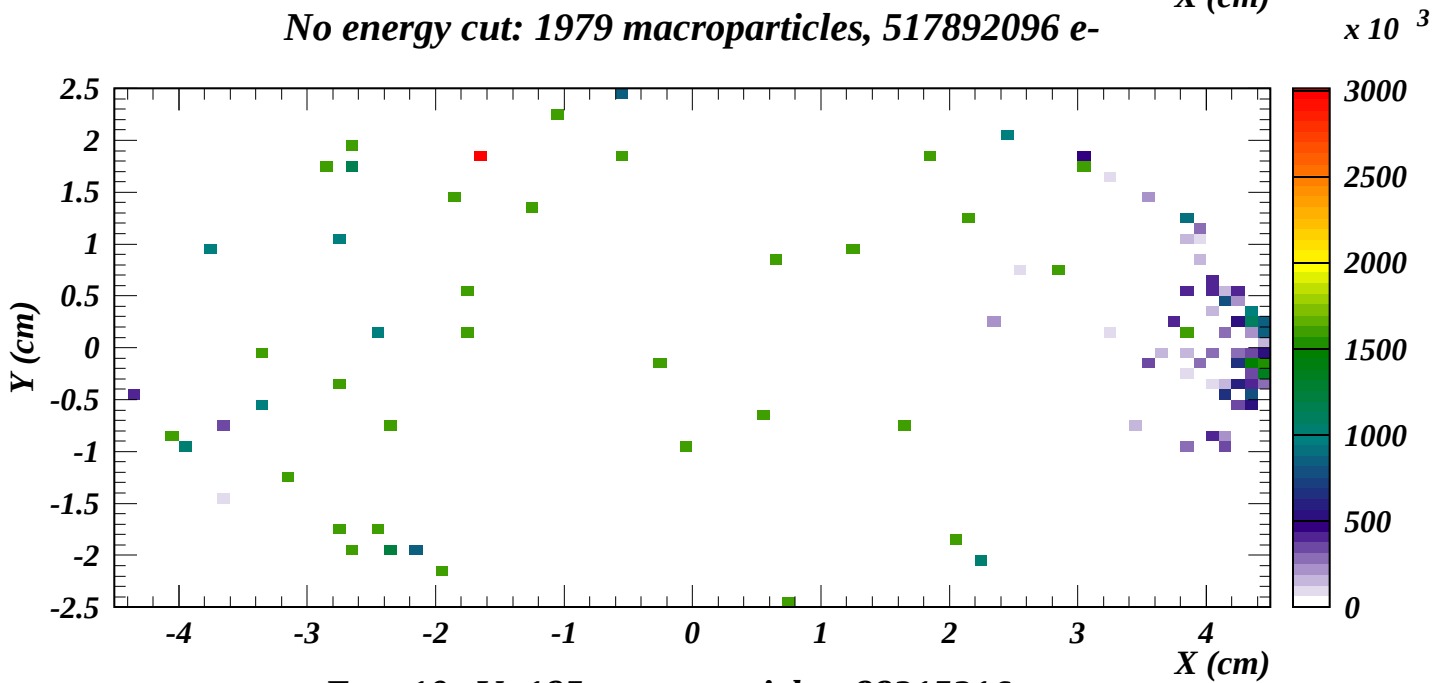
Cloud charge snapshot after bunch 1 at time = 14 ns



No energy cut: 1000 macroparticles, 311814240 e-

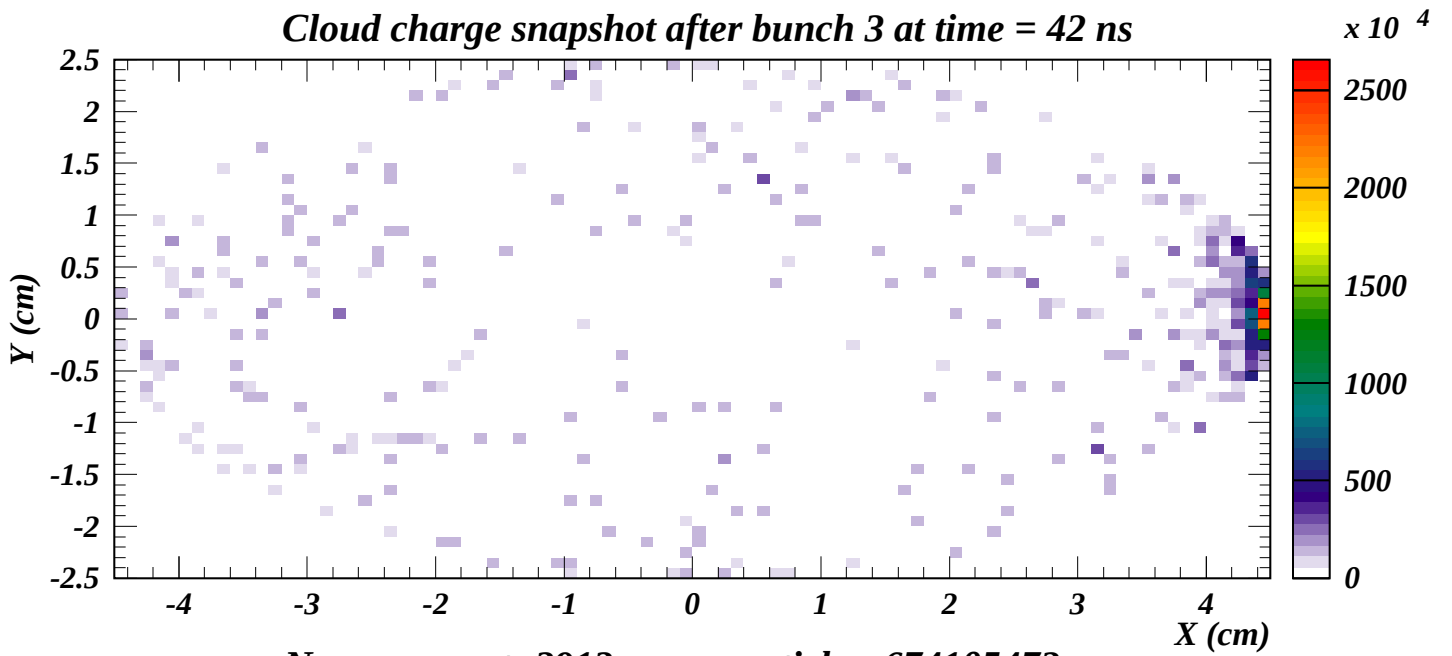


$E_{kin} > 10$ eV: 119 macroparticles, 59567520 e-

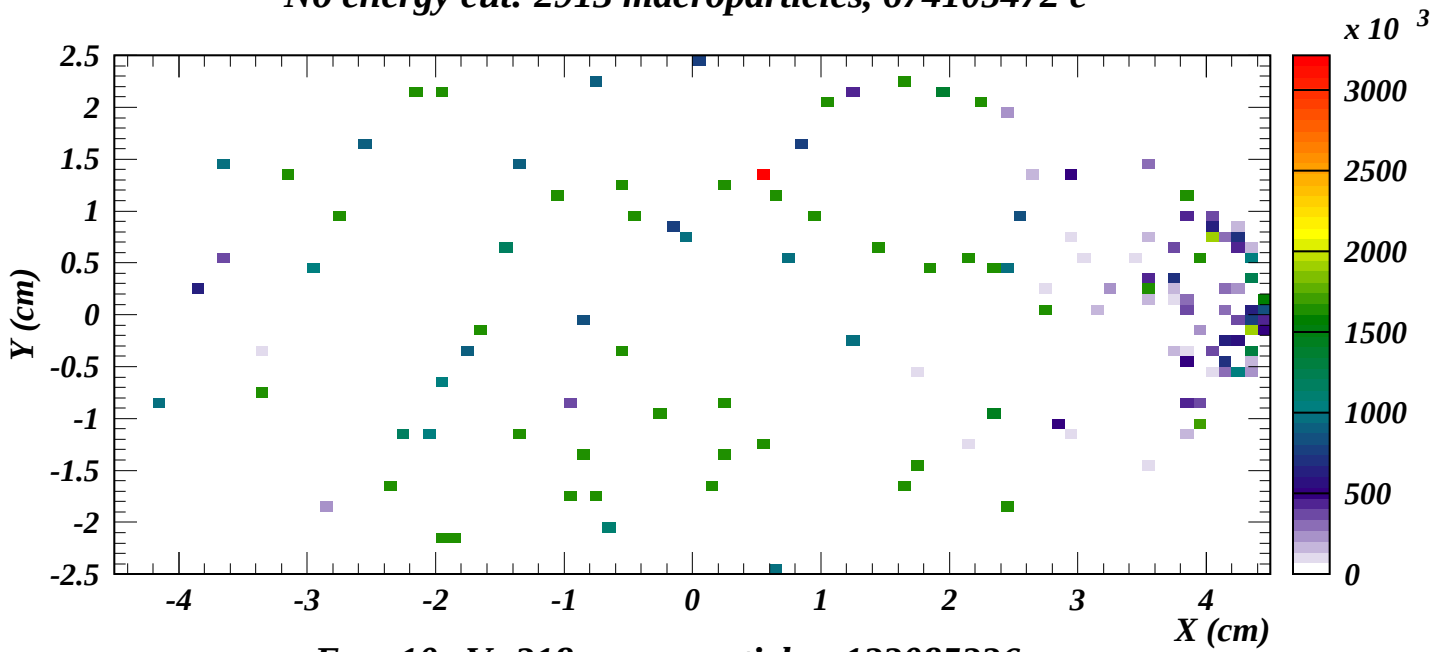
Cloud charge snapshot after bunch 2 at time = 28 ns*No energy cut: 1979 macroparticles, 517892096 e-* *$E_{kin} > 10 \text{ eV}$: 185 macroparticles, 88315216 e-*

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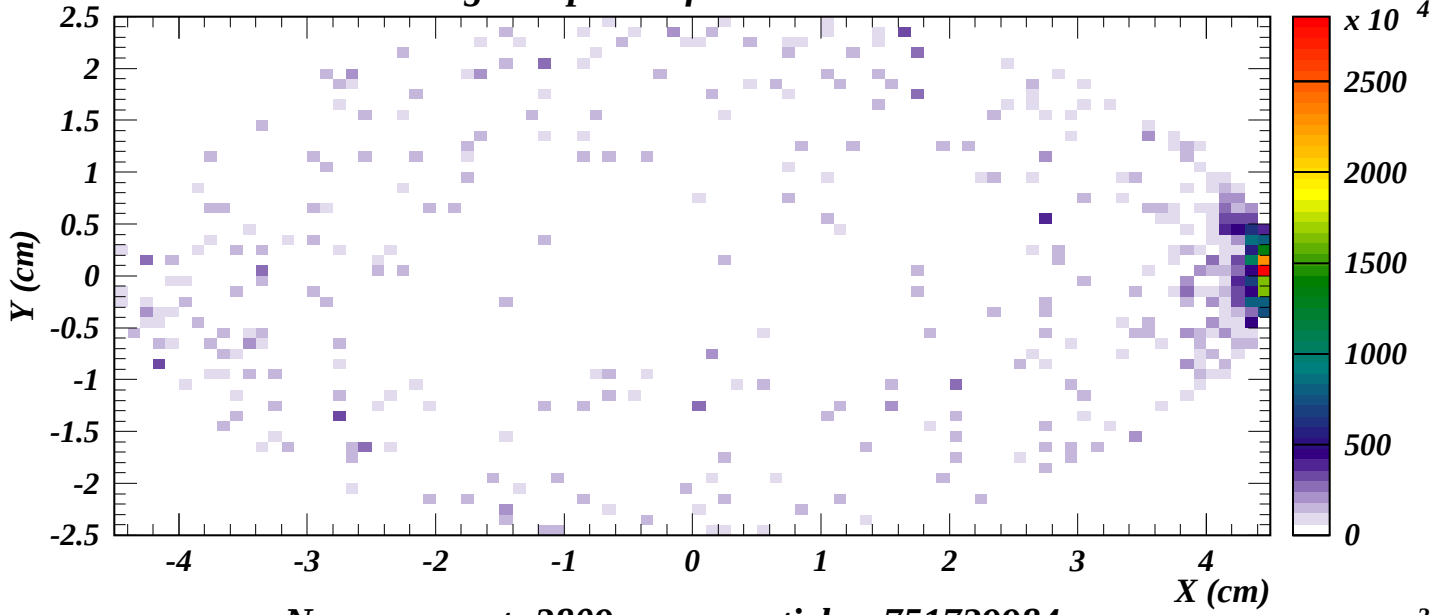
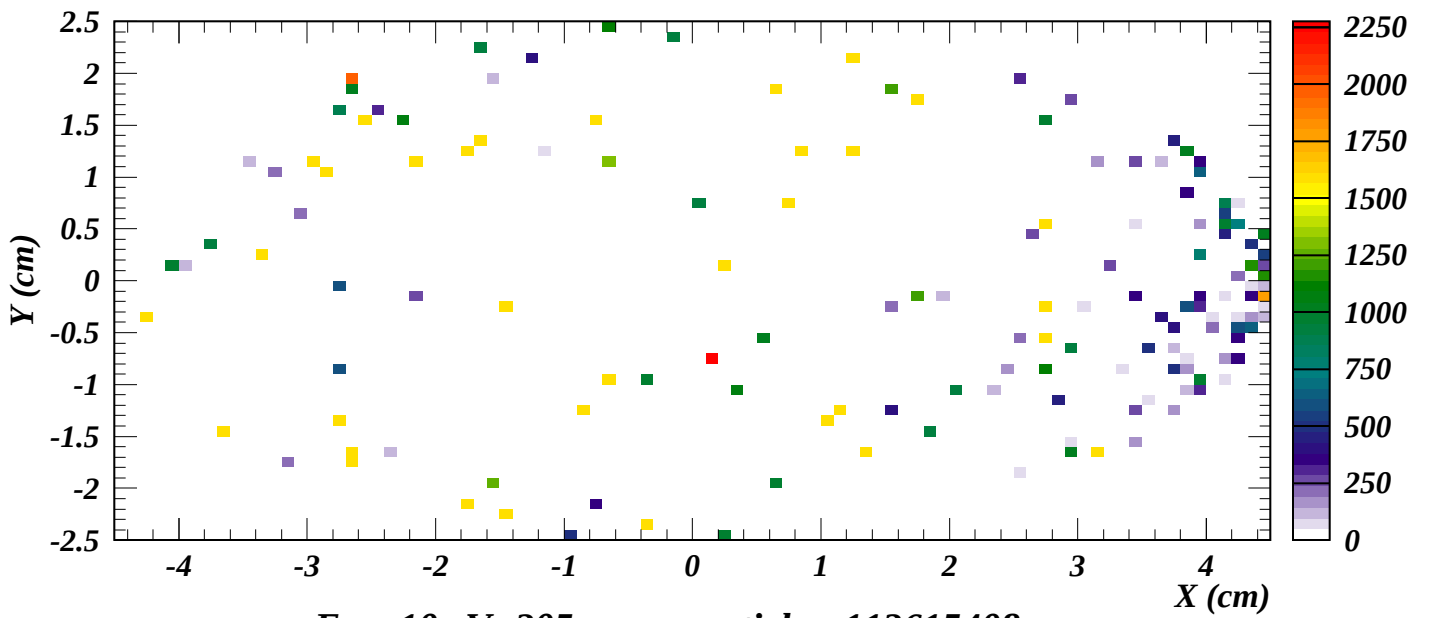
Cloud charge snapshot after bunch 3 at time = 42 ns



No energy cut: 2913 macroparticles, 674105472 e-

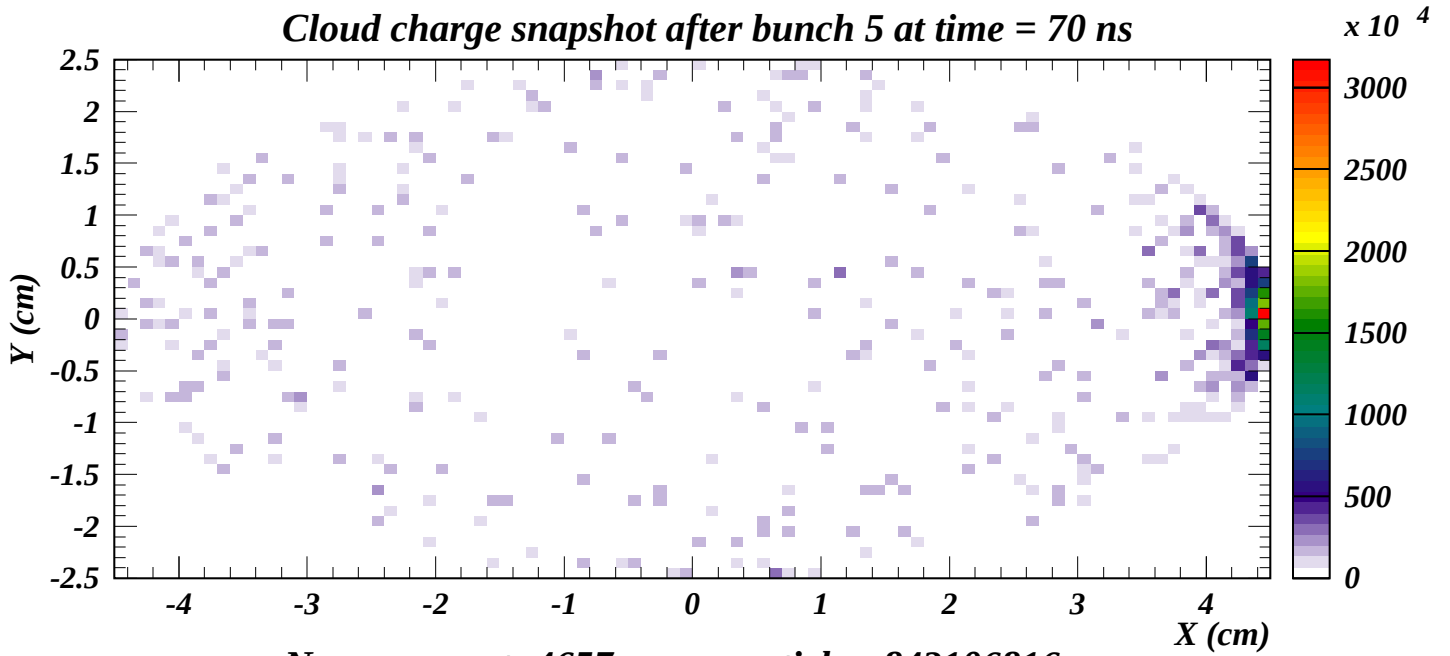


$E_{kin} > 10$ eV: 218 macroparticles, 123085336 e-

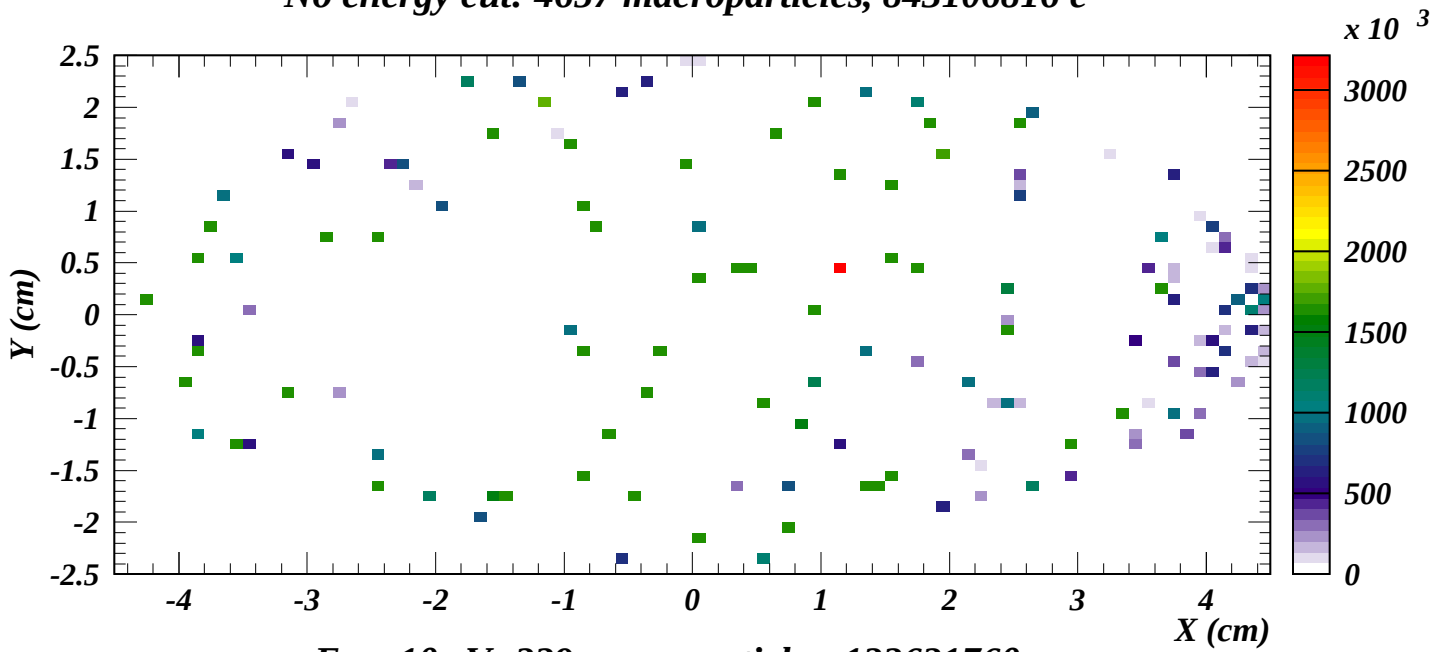
Cloud charge snapshot after bunch 4 at time = 56 ns*No energy cut: 3809 macroparticles, 751729984 e-* *$E_{kin} > 10 \text{ eV}$: 205 macroparticles, 113615408 e-*

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Cloud charge snapshot after bunch 5 at time = 70 ns



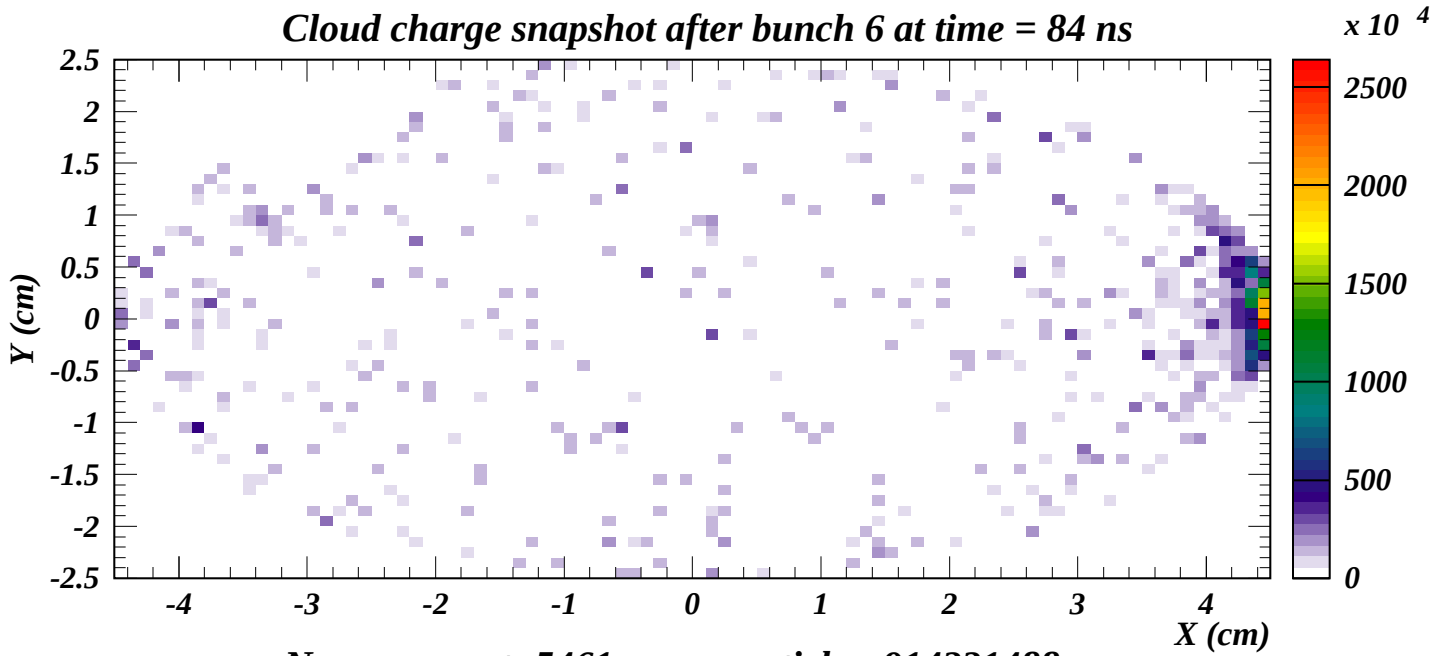
No energy cut: 4657 macroparticles, 843106816 e-



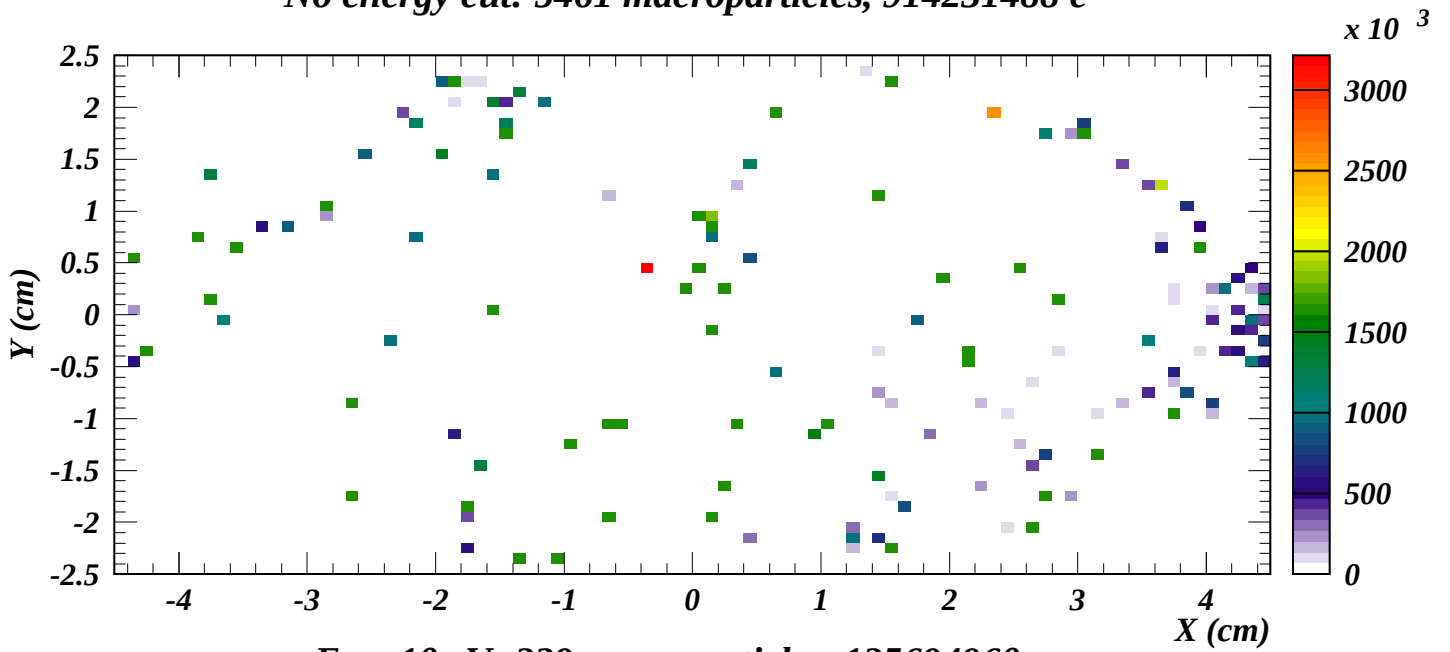
$E_{kin} > 10 \text{ eV}$: 229 macroparticles, 132621760 e-

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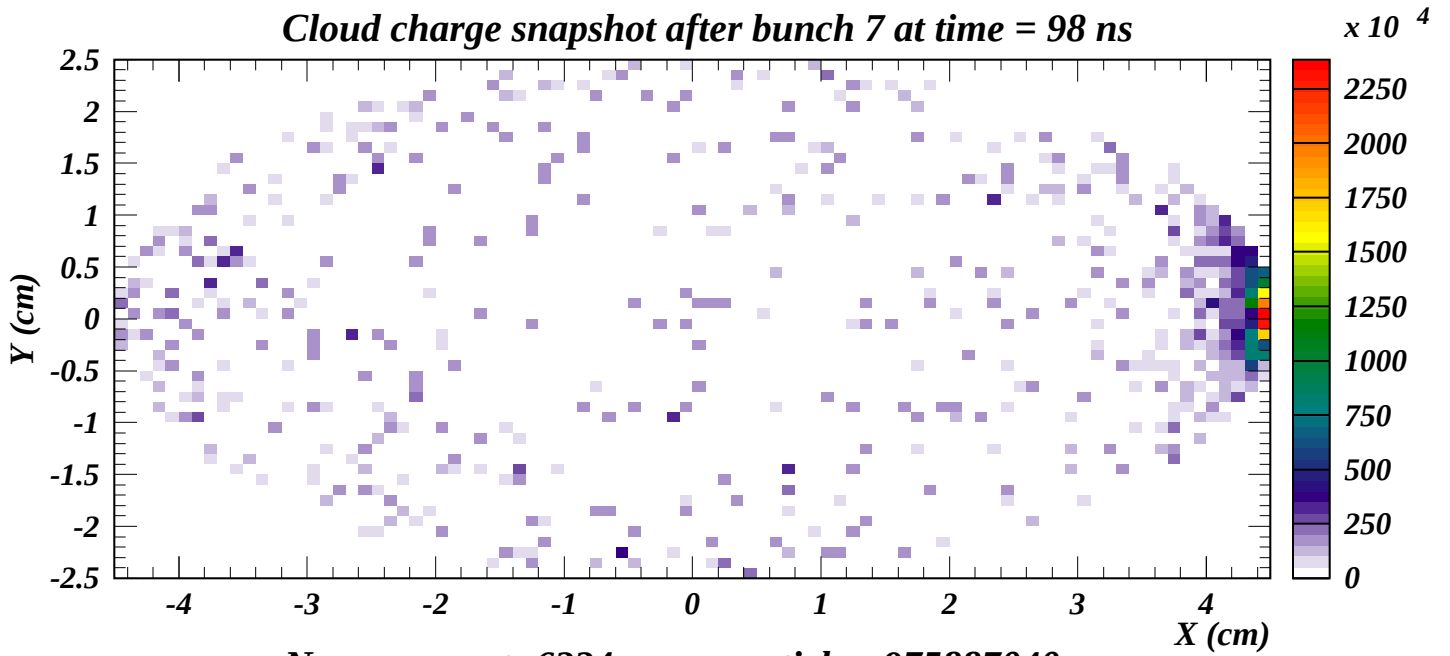
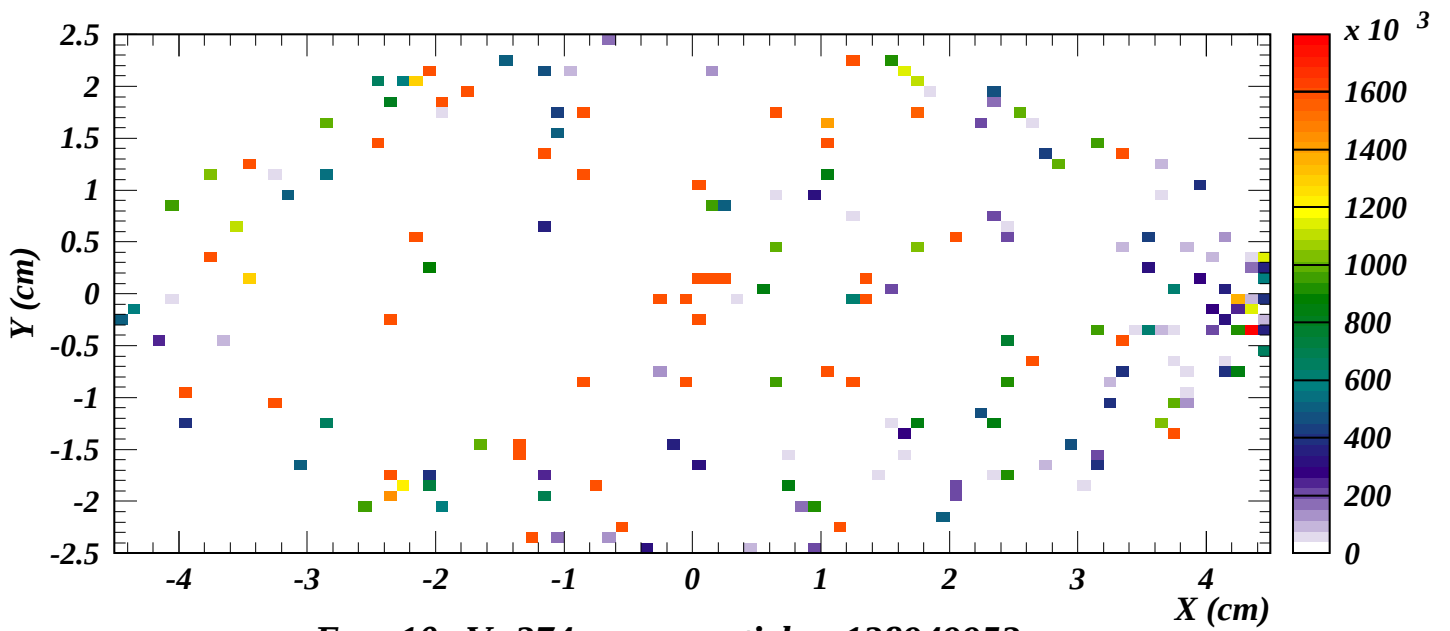
Cloud charge snapshot after bunch 6 at time = 84 ns

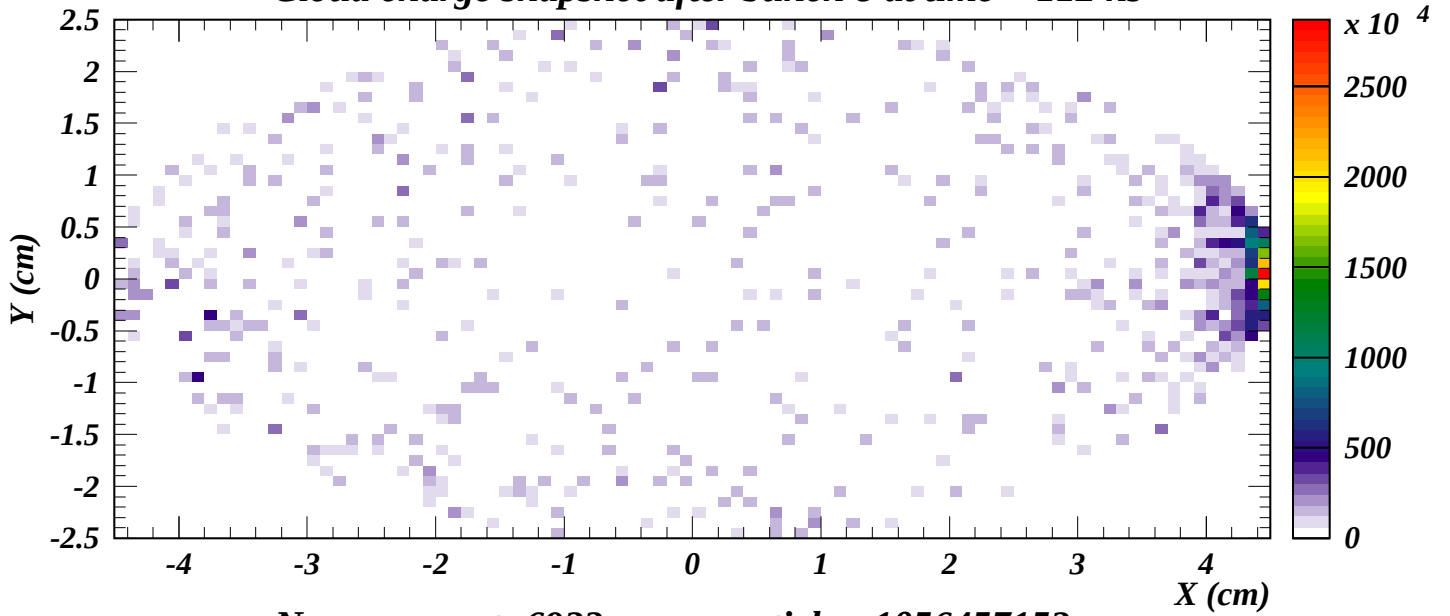
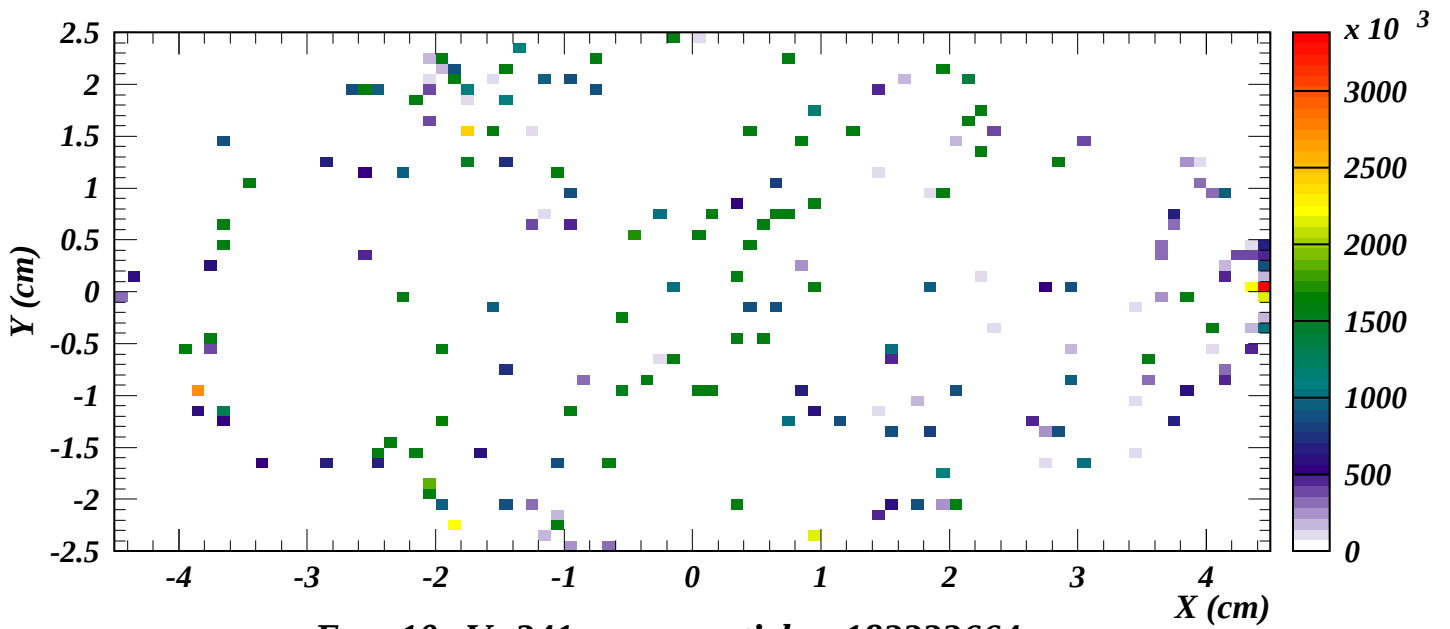


No energy cut: 5461 macroparticles, 914231488 e-

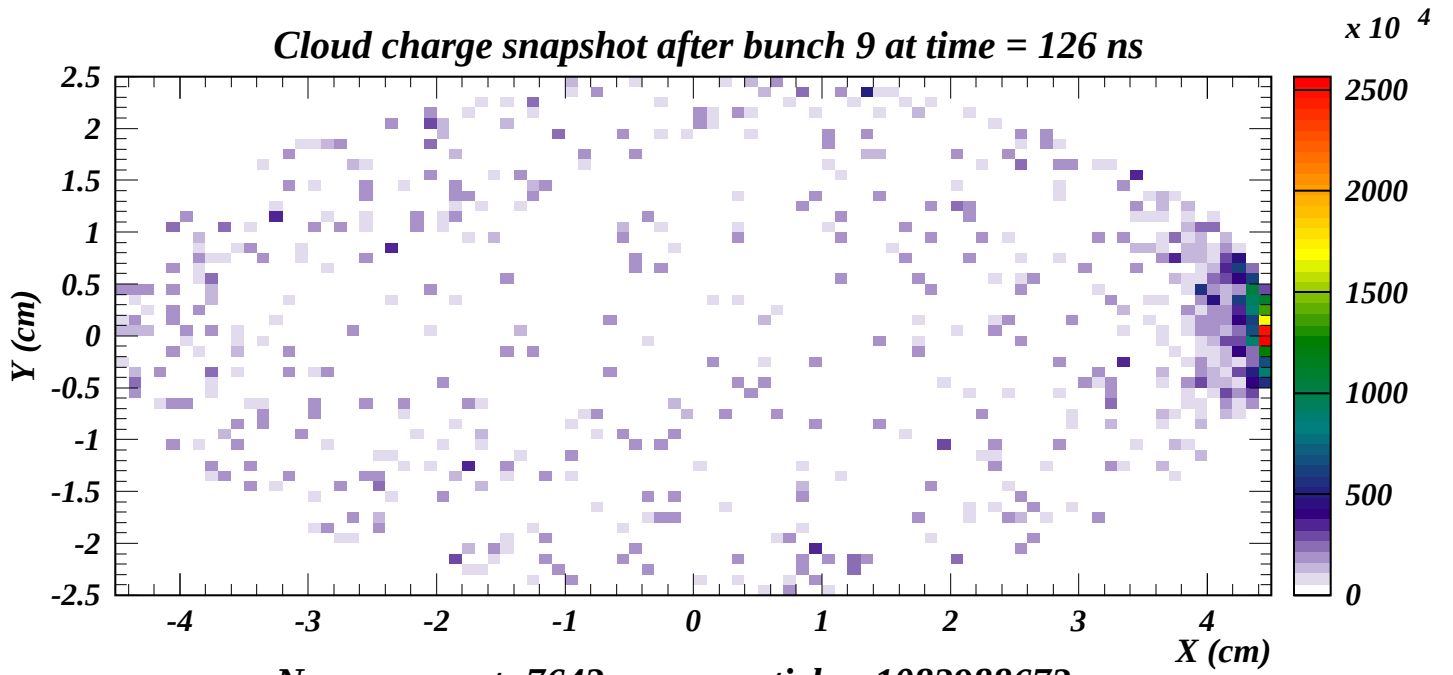


$E_{kin} > 10 \text{ eV}$: 229 macroparticles, 135694960 e-

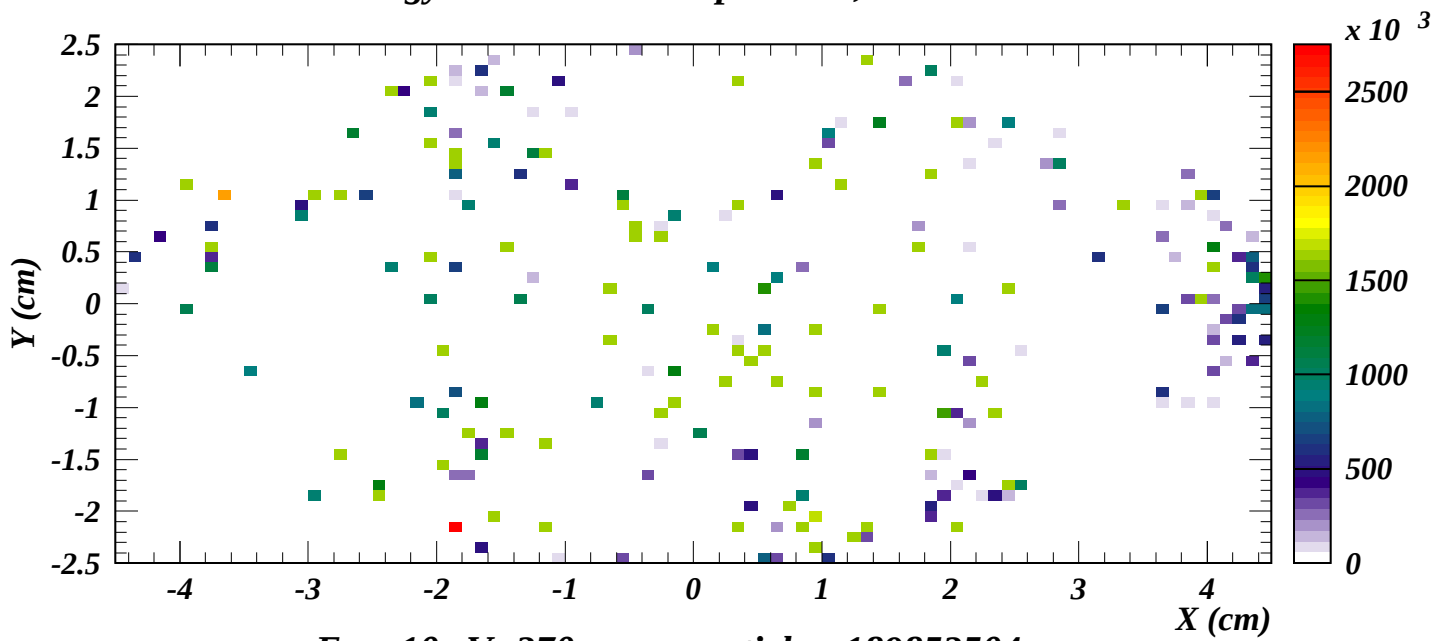
Cloud charge snapshot after bunch 7 at time = 98 ns*No energy cut: 6224 macroparticles, 975887040 e⁻* *$E_{kin} > 10$ eV: 274 macroparticles, 138949952 e⁻*

Cloud charge snapshot after bunch 8 at time = 112 ns*No energy cut: 6923 macroparticles, 1056457152 e-* *$E_{kin} > 10 \text{ eV}$: 341 macroparticles, 182333664 e-*

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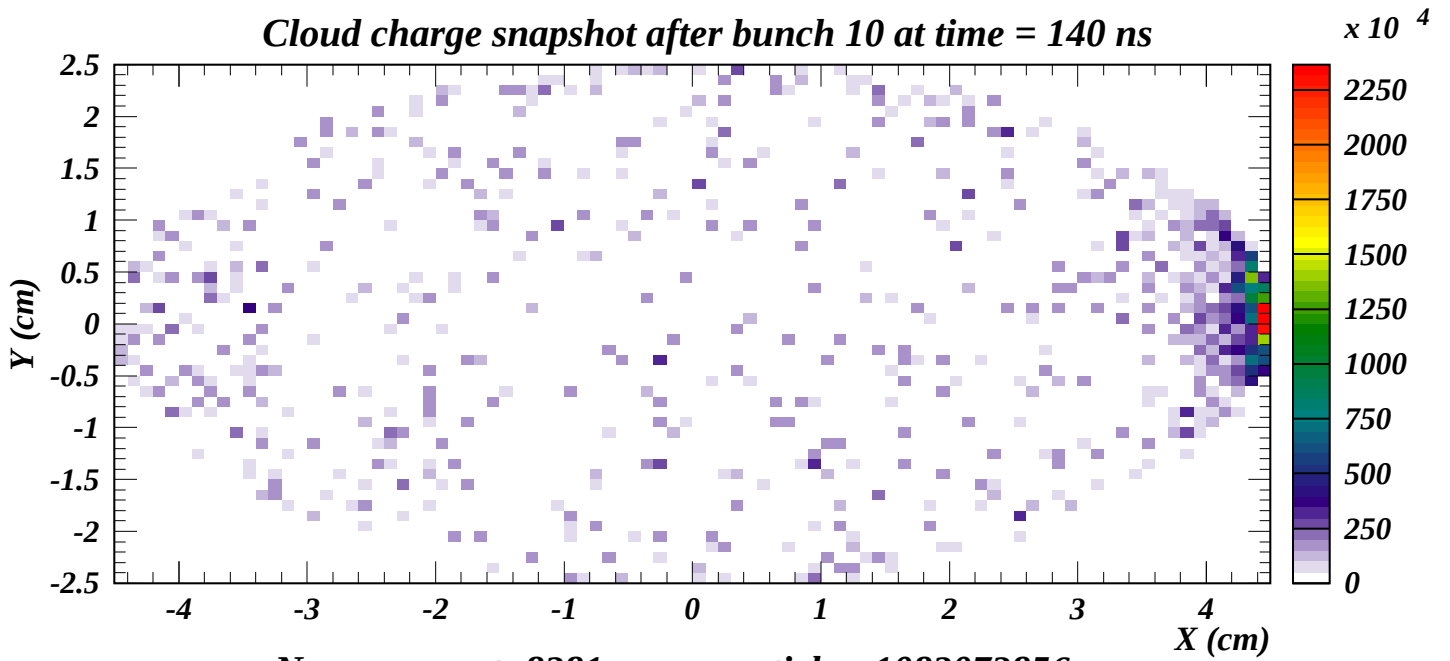
No energy cut: 7643 macroparticles, 1082988672 e-



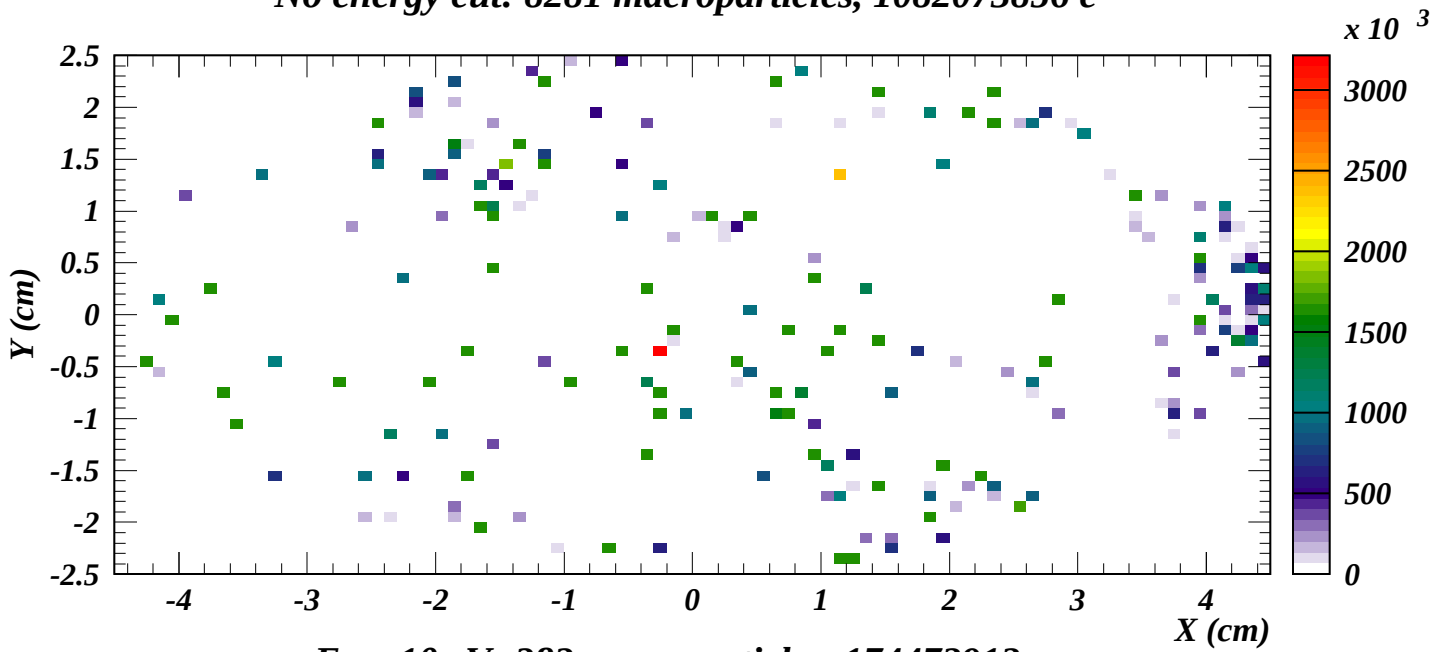
$E_{kin} > 10 \text{ eV}$: 370 macroparticles, 189853504 e-

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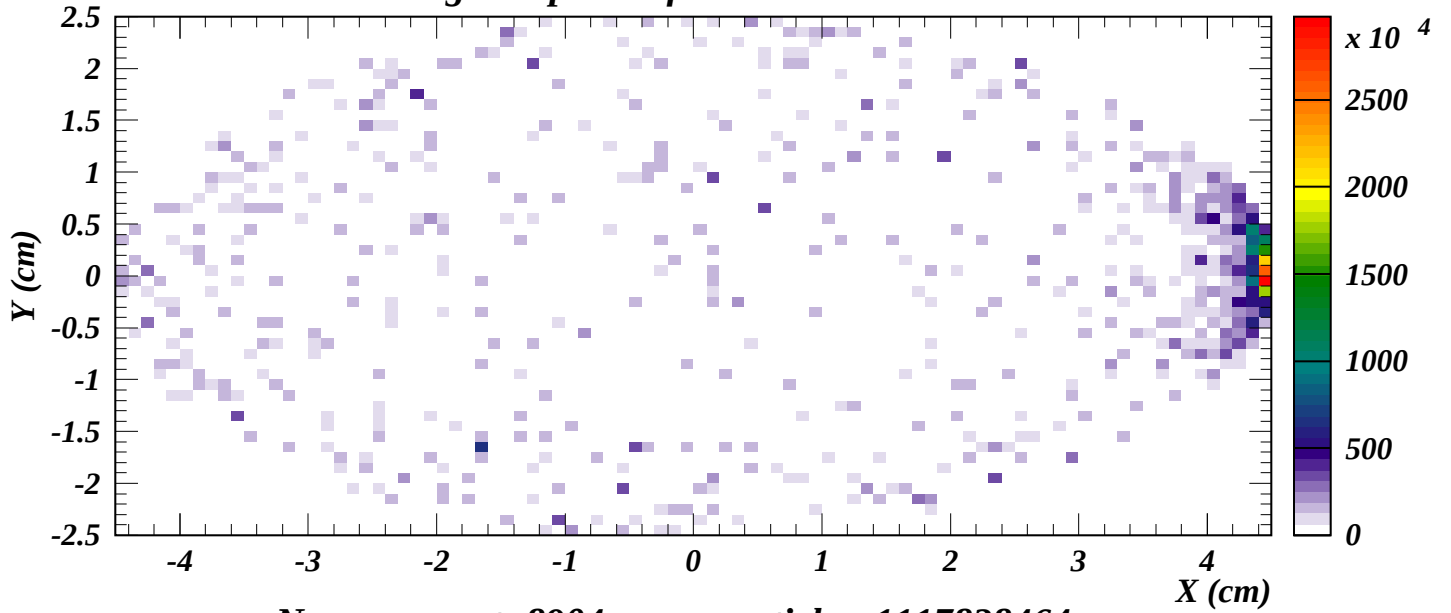
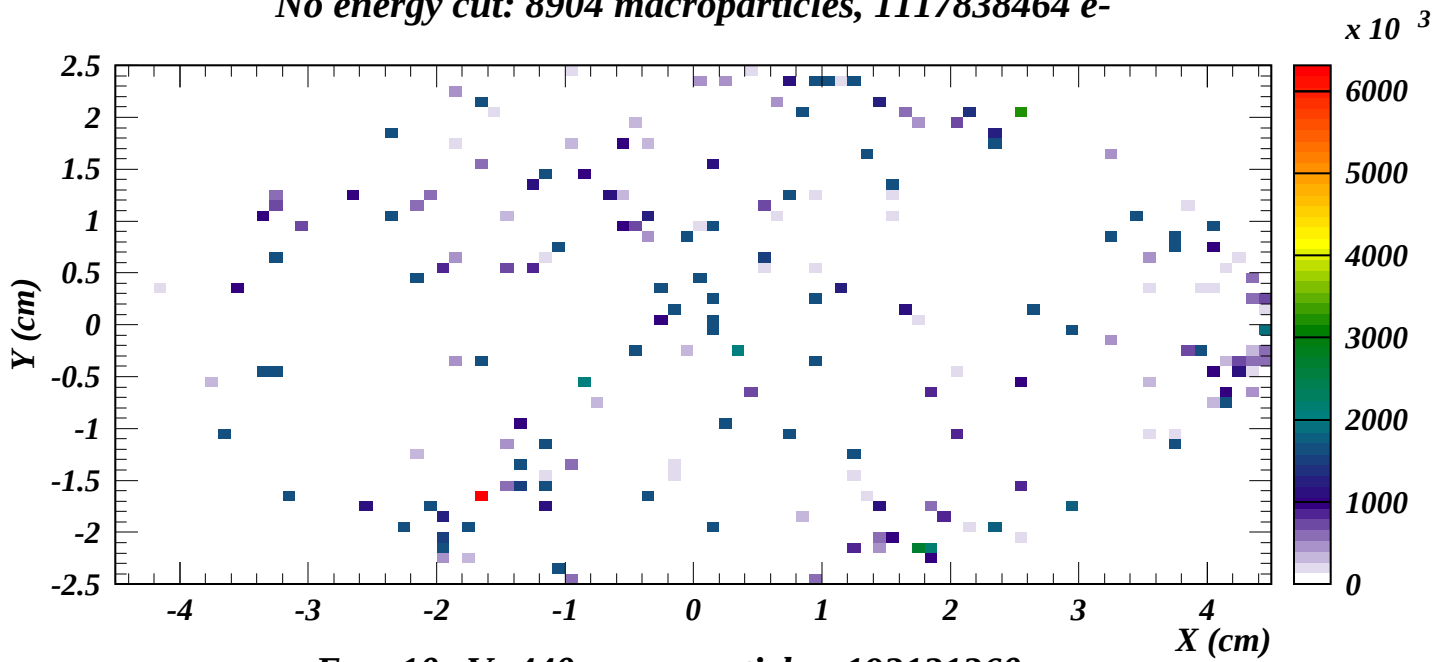
Cloud charge snapshot after bunch 10 at time = 140 ns

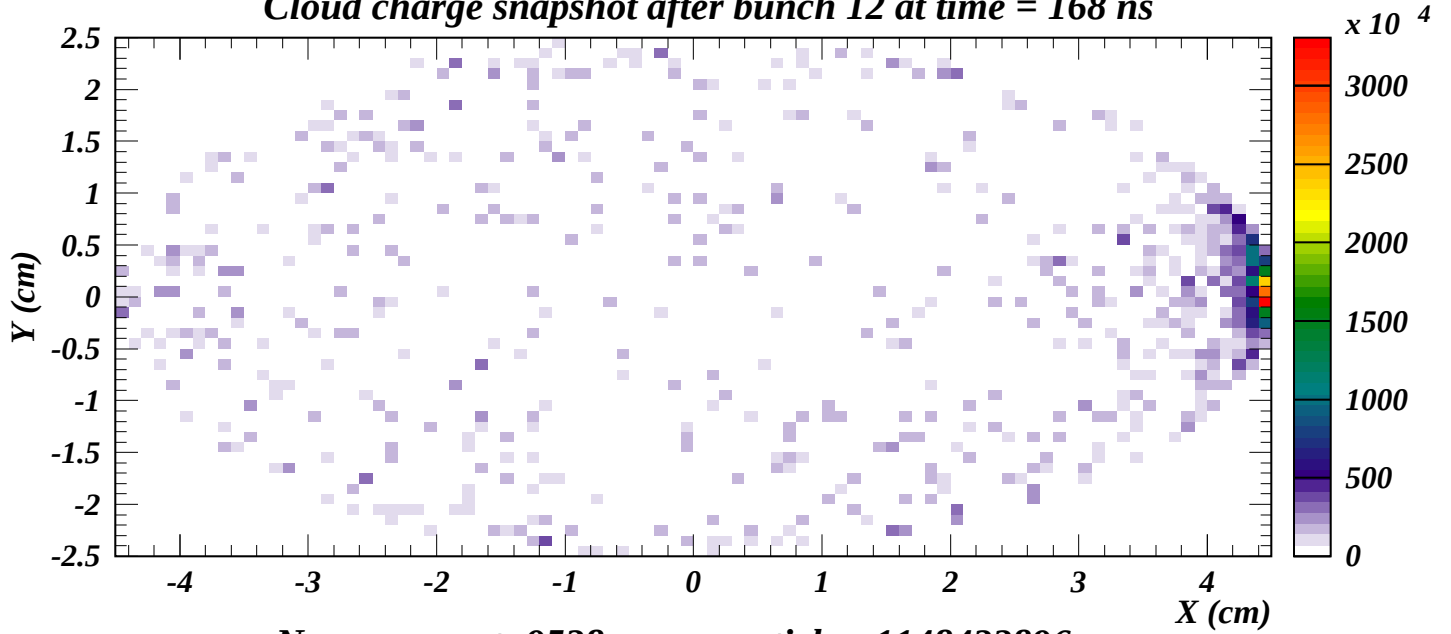
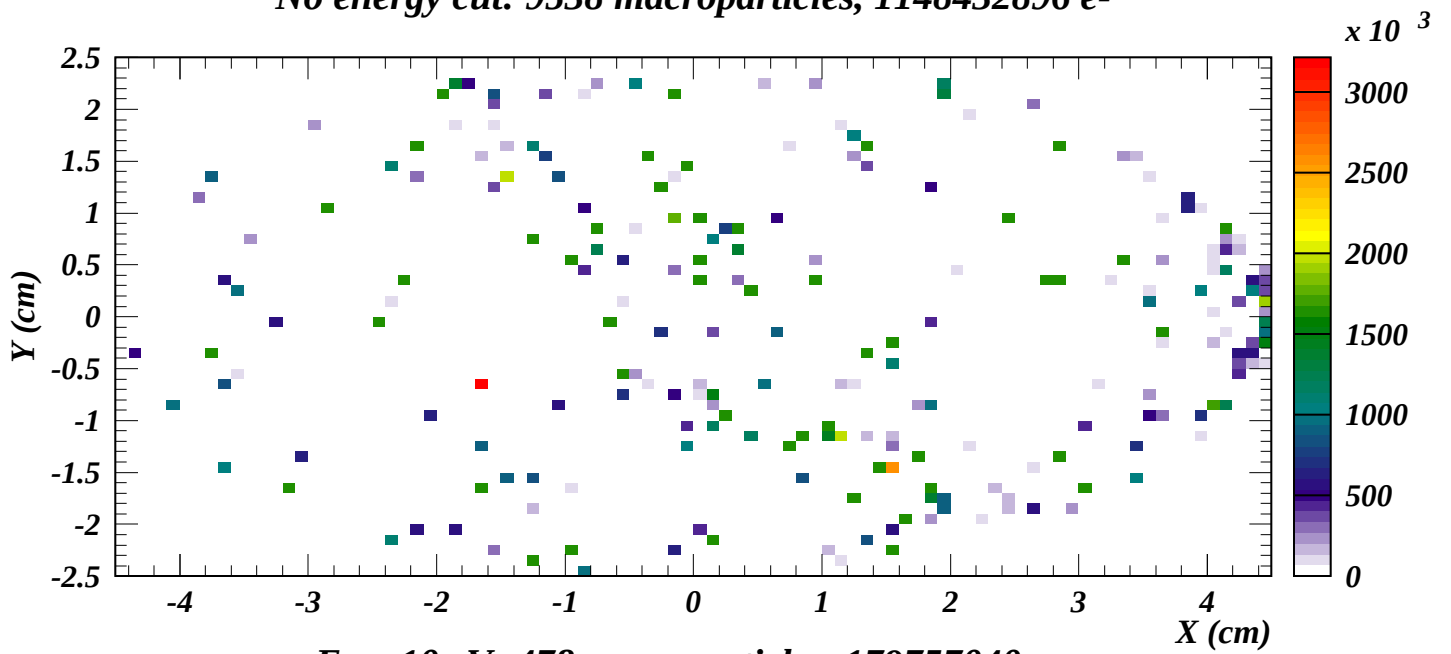


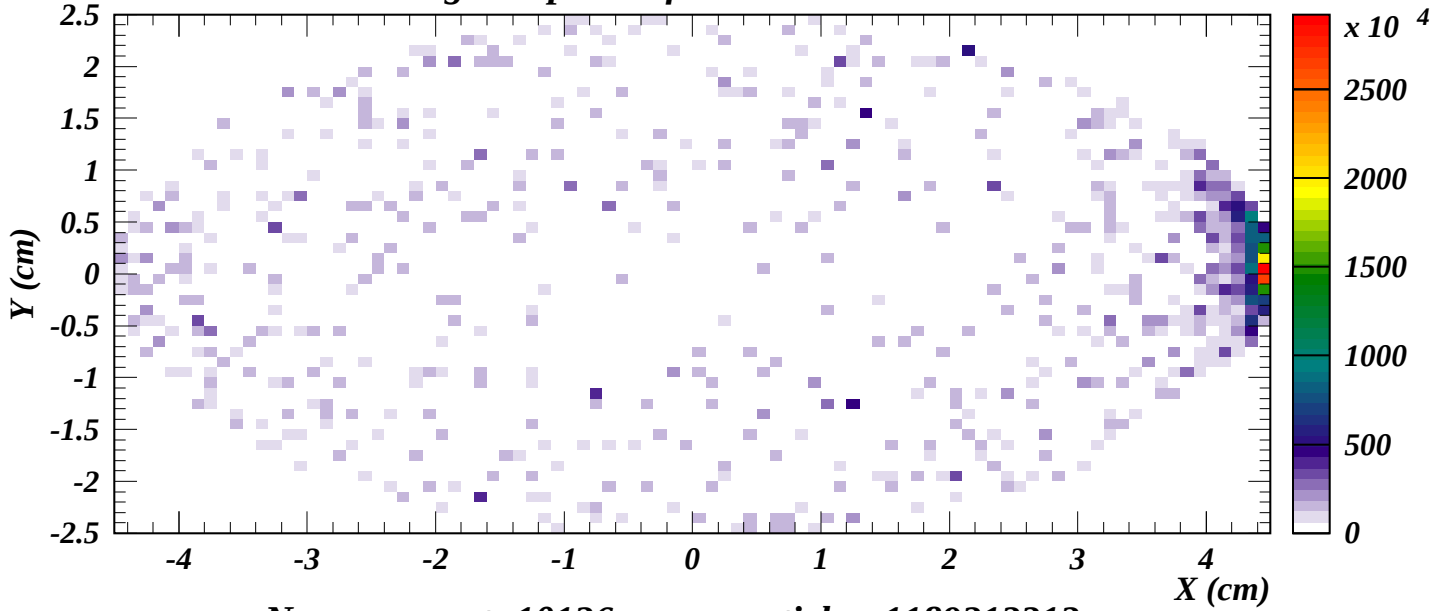
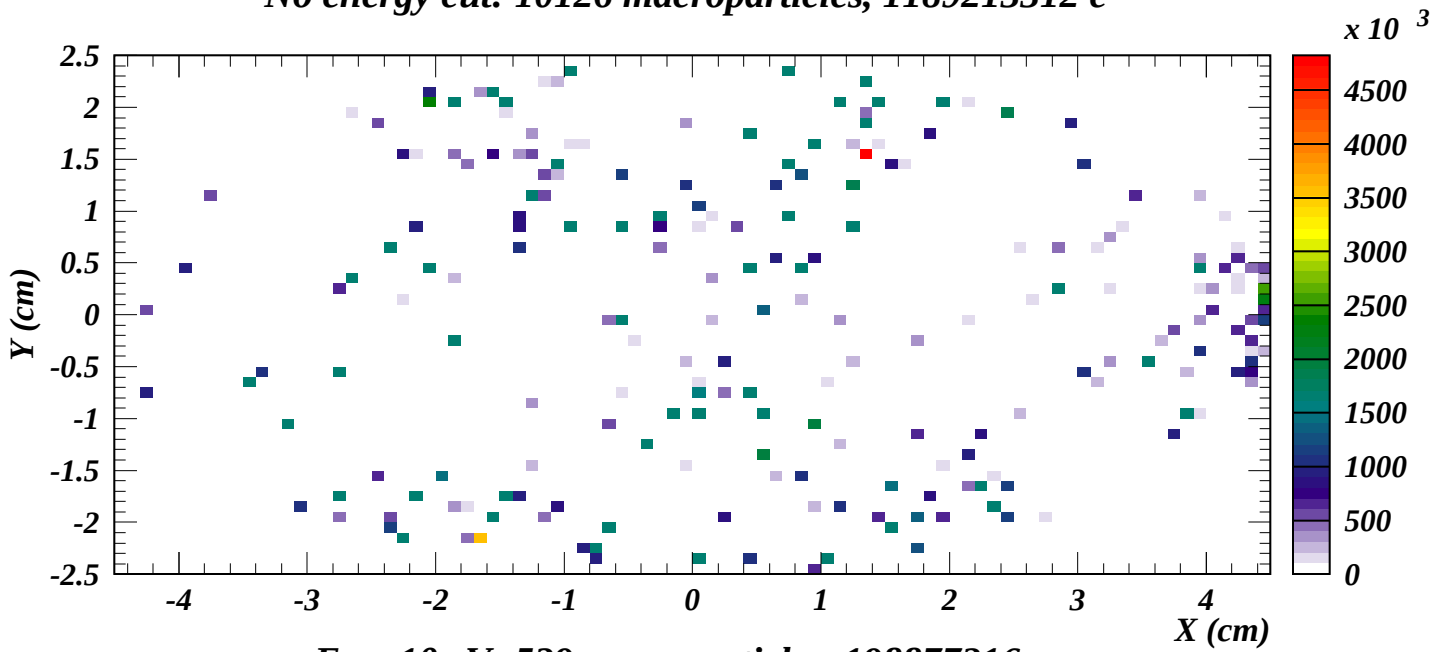
No energy cut: 8281 macroparticles, 1082073856 e-



$E_{kin} > 10 \text{ eV}$: 382 macroparticles, 174472912 e-

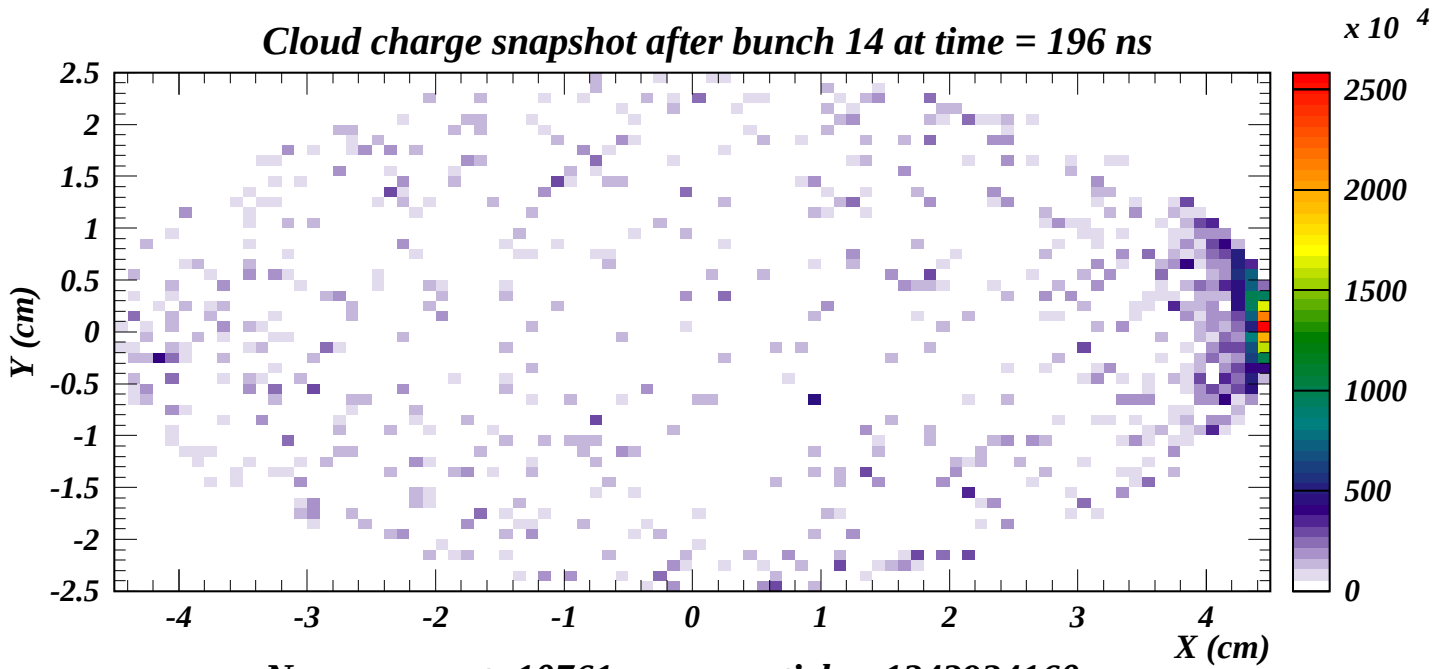
Cloud charge snapshot after bunch 11 at time = 154 ns*No energy cut: 8904 macroparticles, 1117838464 e-* *$E_{kin} > 10 \text{ eV}$: 440 macroparticles, 193121360 e-*

Cloud charge snapshot after bunch 12 at time = 168 ns*No energy cut: 9538 macroparticles, 1148432896 e-* *$E_{kin} > 10 \text{ eV}$: 478 macroparticles, 179757040 e-*

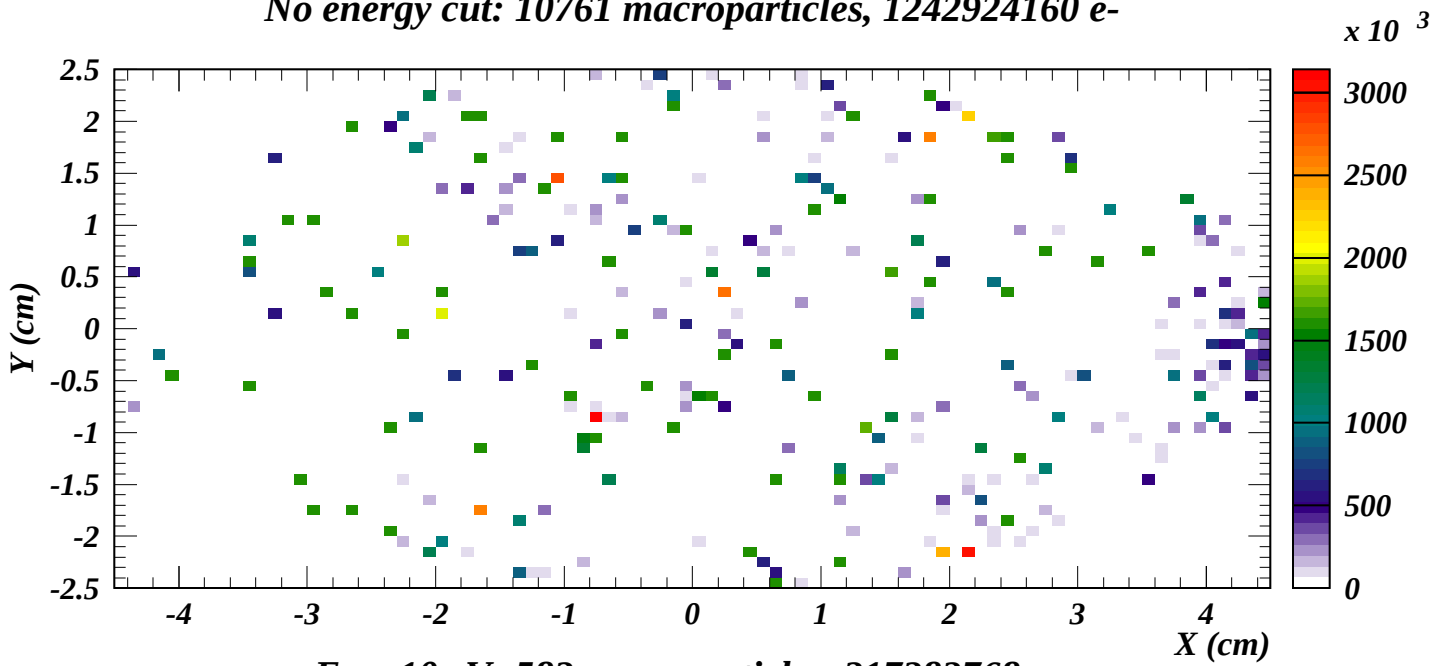
Cloud charge snapshot after bunch 13 at time = 182 ns*No energy cut: 10126 macroparticles, 1189213312 e-* *$E_{kin} > 10 \text{ eV}$: 539 macroparticles, 198877216 e-*

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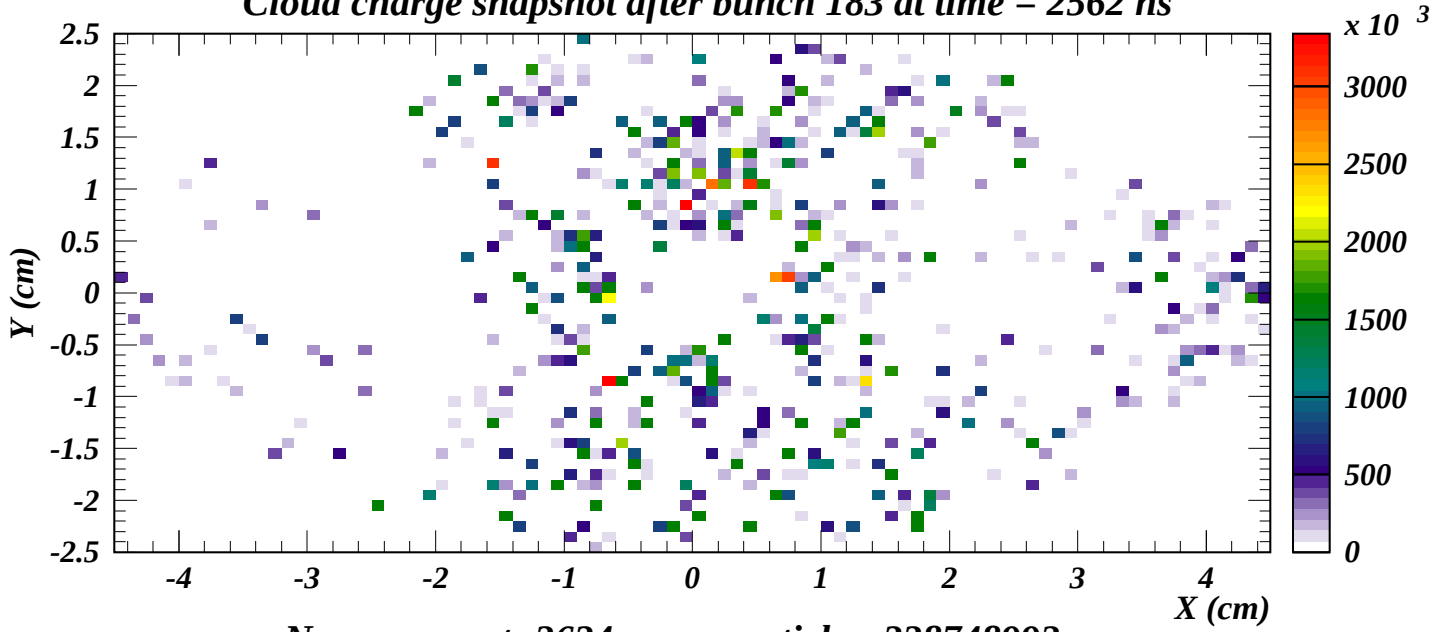
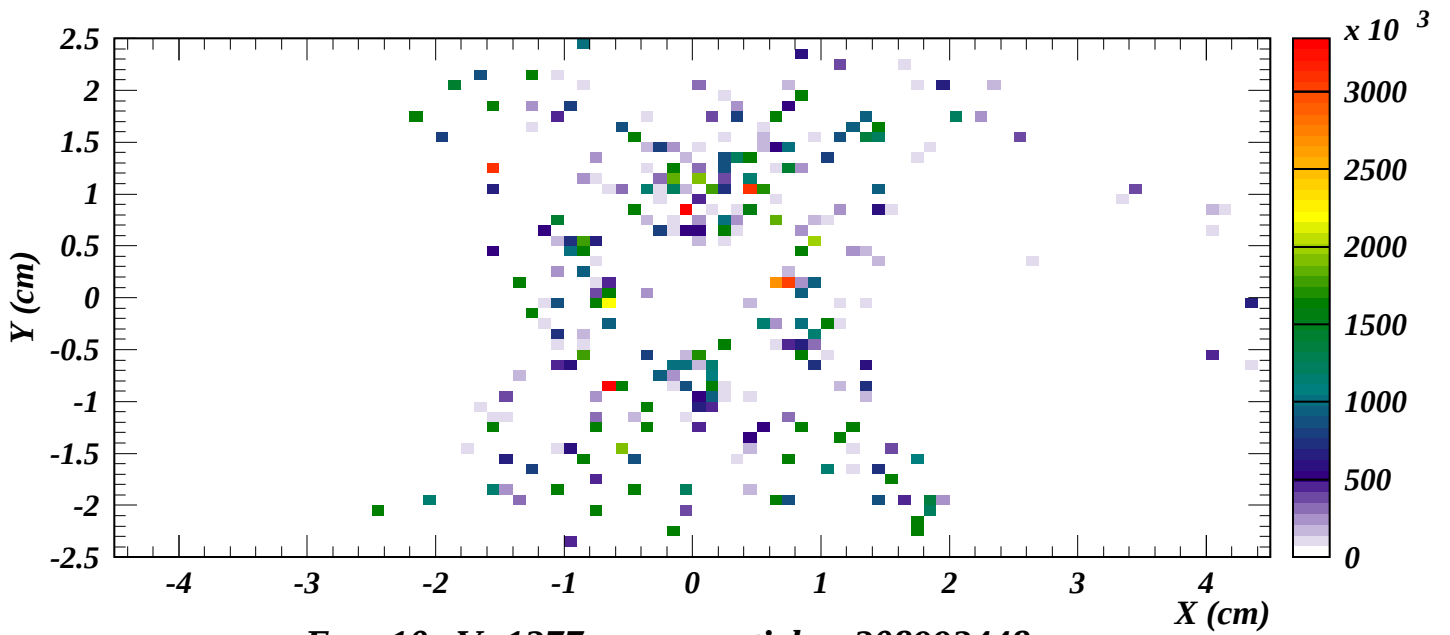
Cloud charge snapshot after bunch 14 at time = 196 ns

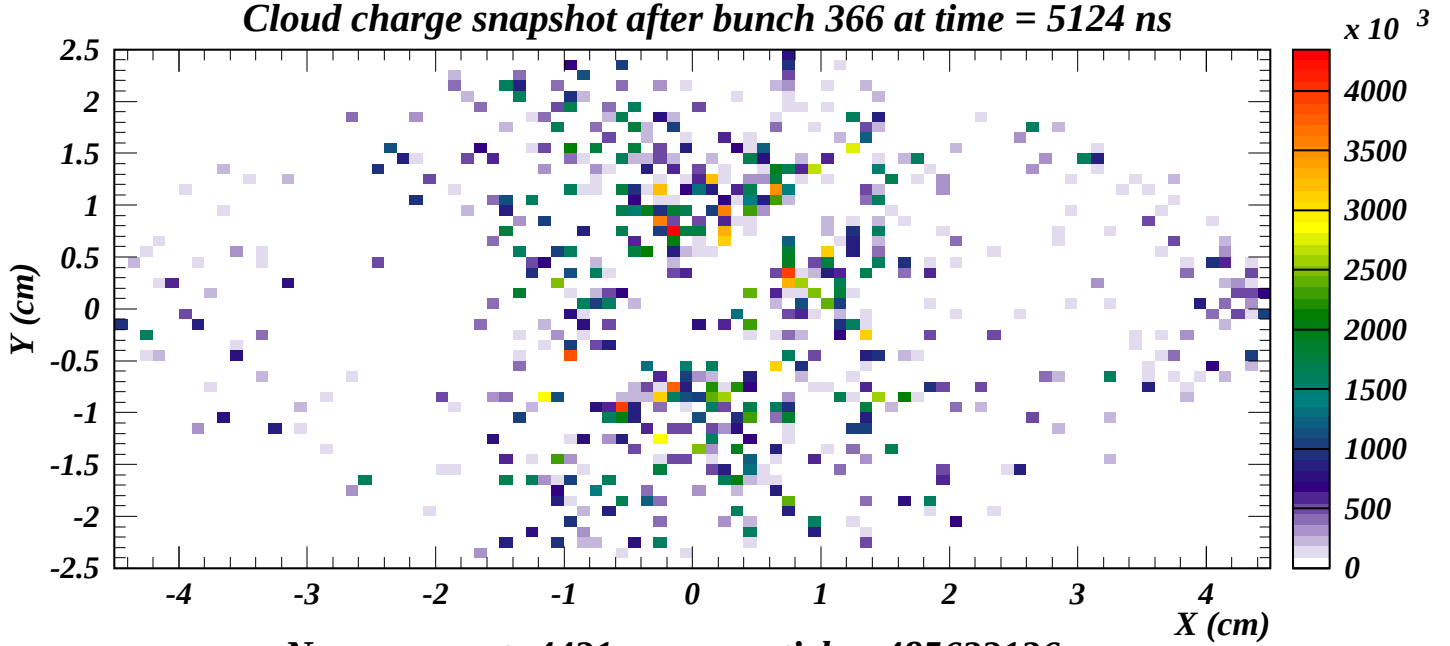
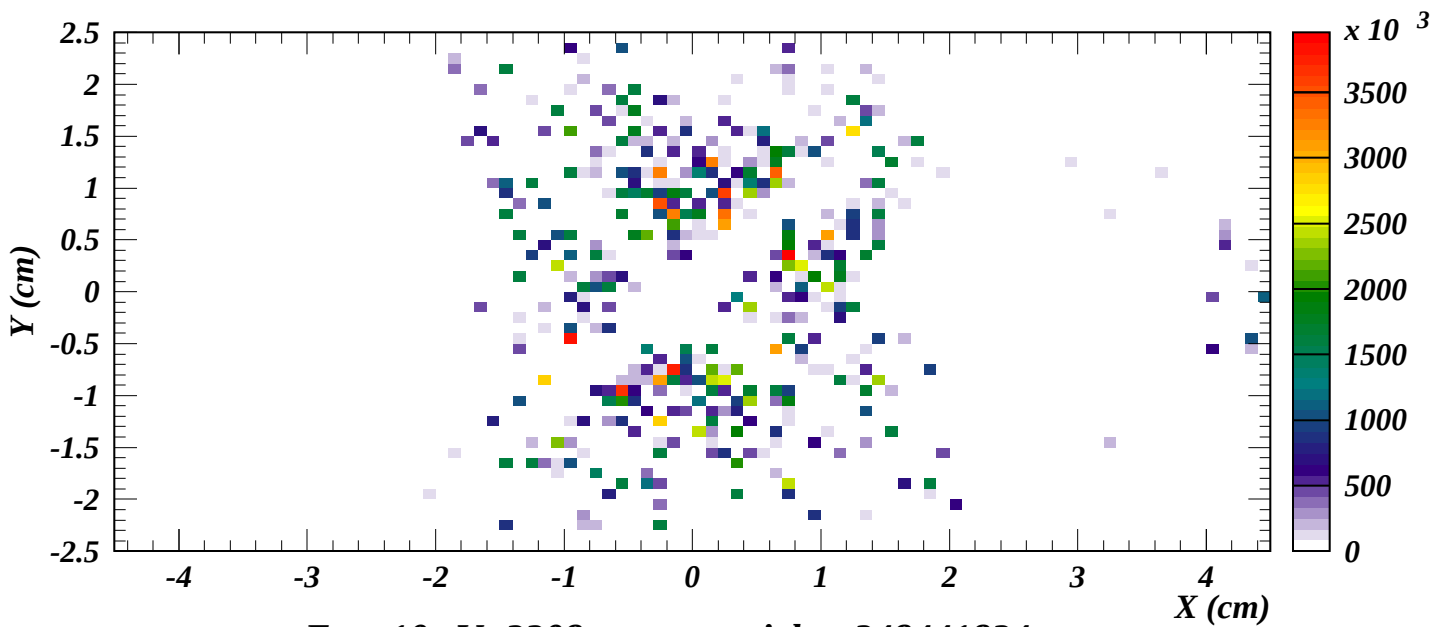


No energy cut: 10761 macroparticles, 1242924160 e-



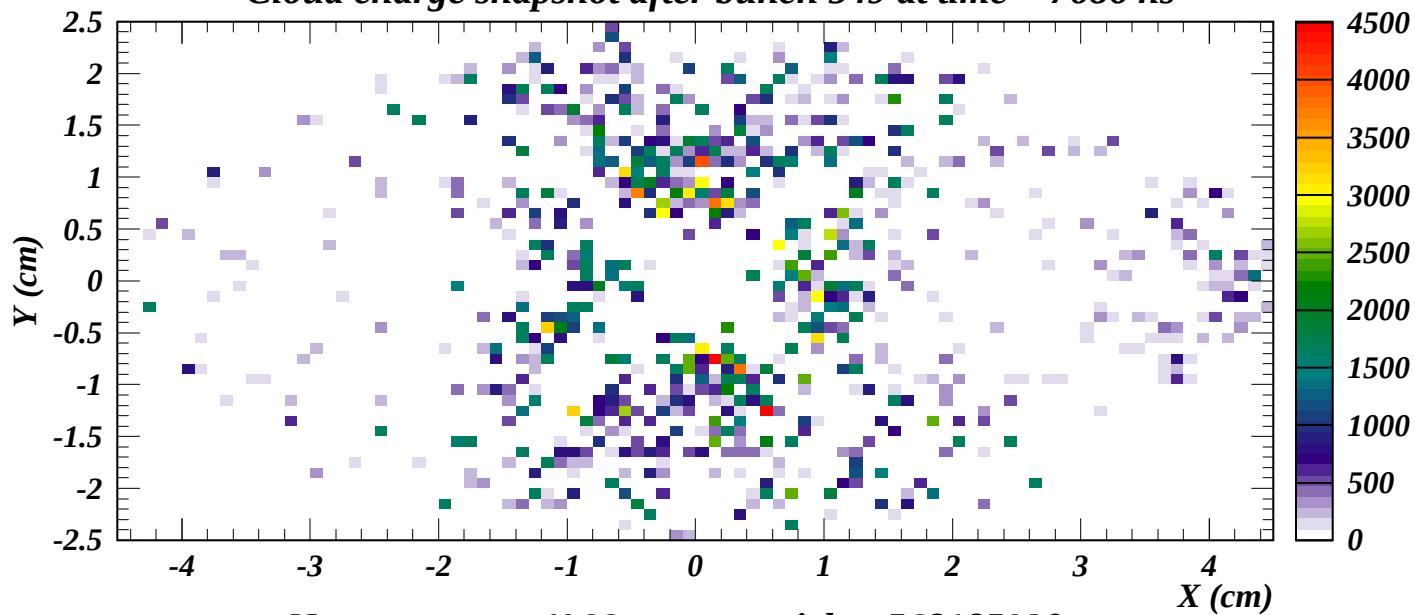
$E_{kin} > 10$ eV: 582 macroparticles, 217282768 e-

Cloud charge snapshot after bunch 183 at time = 2562 ns*No energy cut: 3624 macroparticles, 338748992 e-* *$E_{\text{kin}} > 10$ eV: 1277 macroparticles, 208992448 e-*

Cloud charge snapshot after bunch 366 at time = 5124 ns*No energy cut: 4431 macroparticles, 485623136 e-* *$E_{\text{kin}} > 10$ eV: 2208 macroparticles, 348441824 e-*

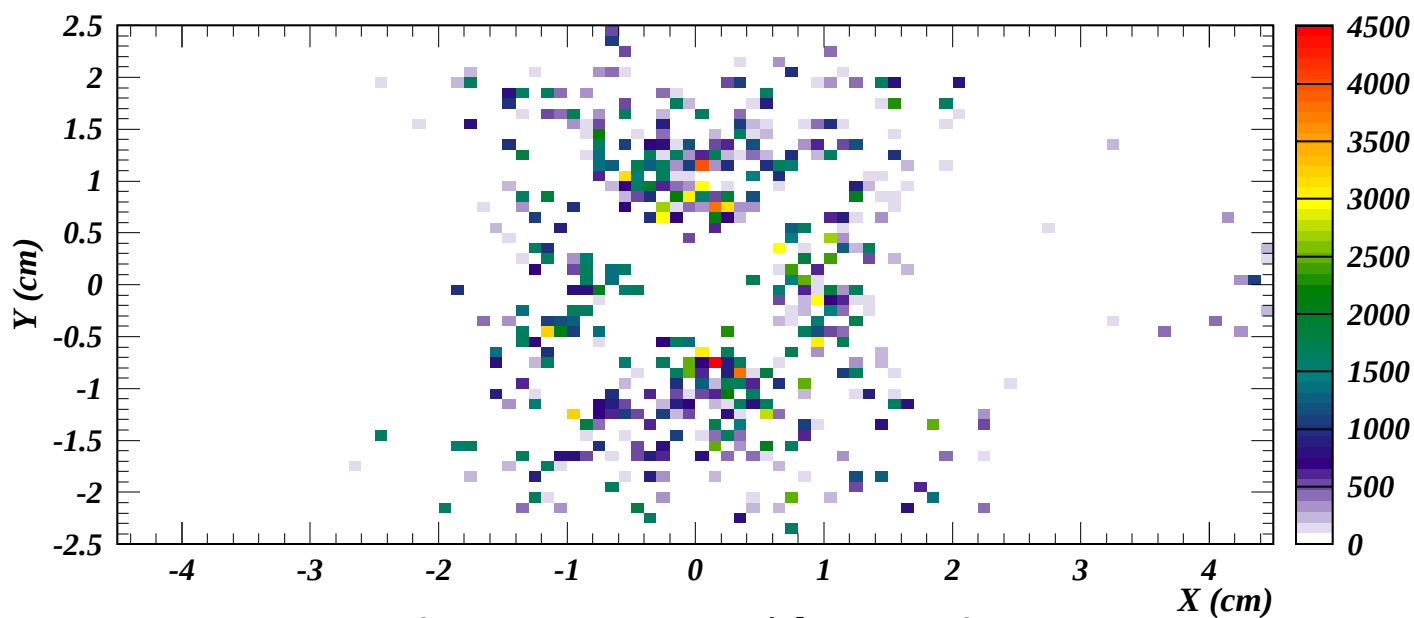
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 $\times 10^3$

Cloud charge snapshot after bunch 549 at time = 7686 ns

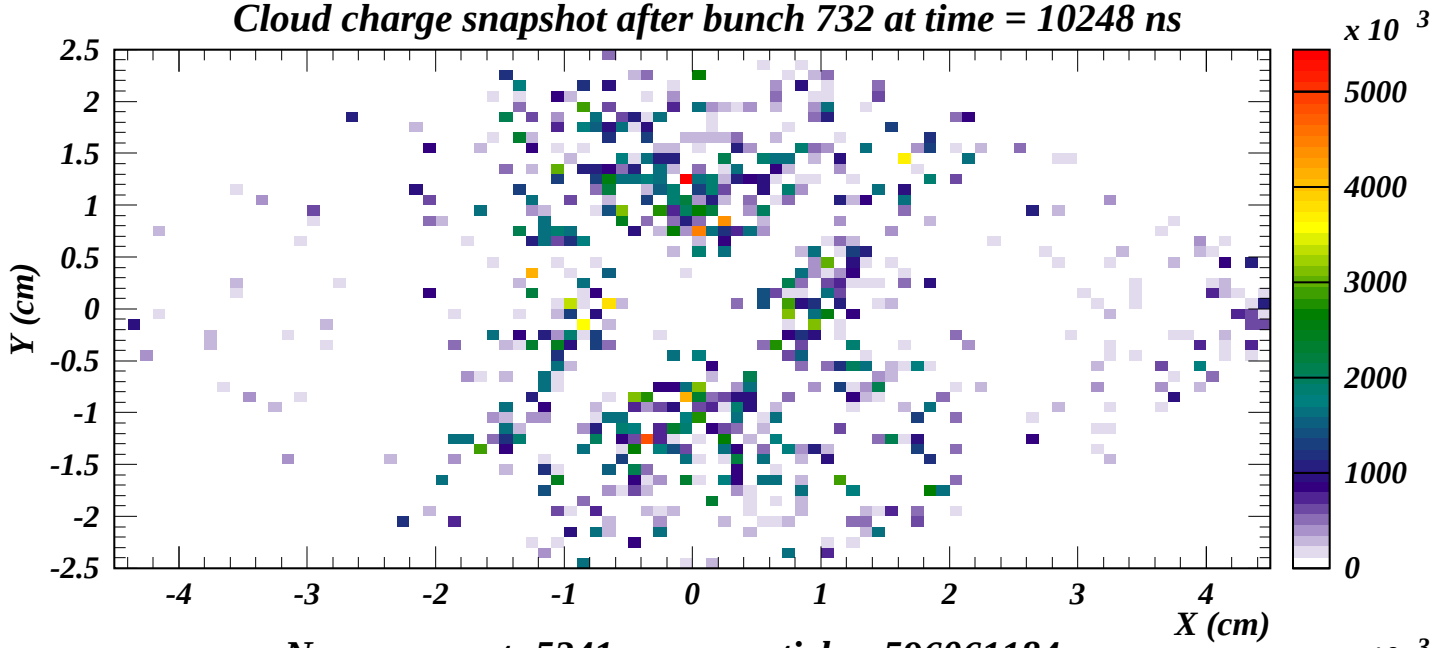
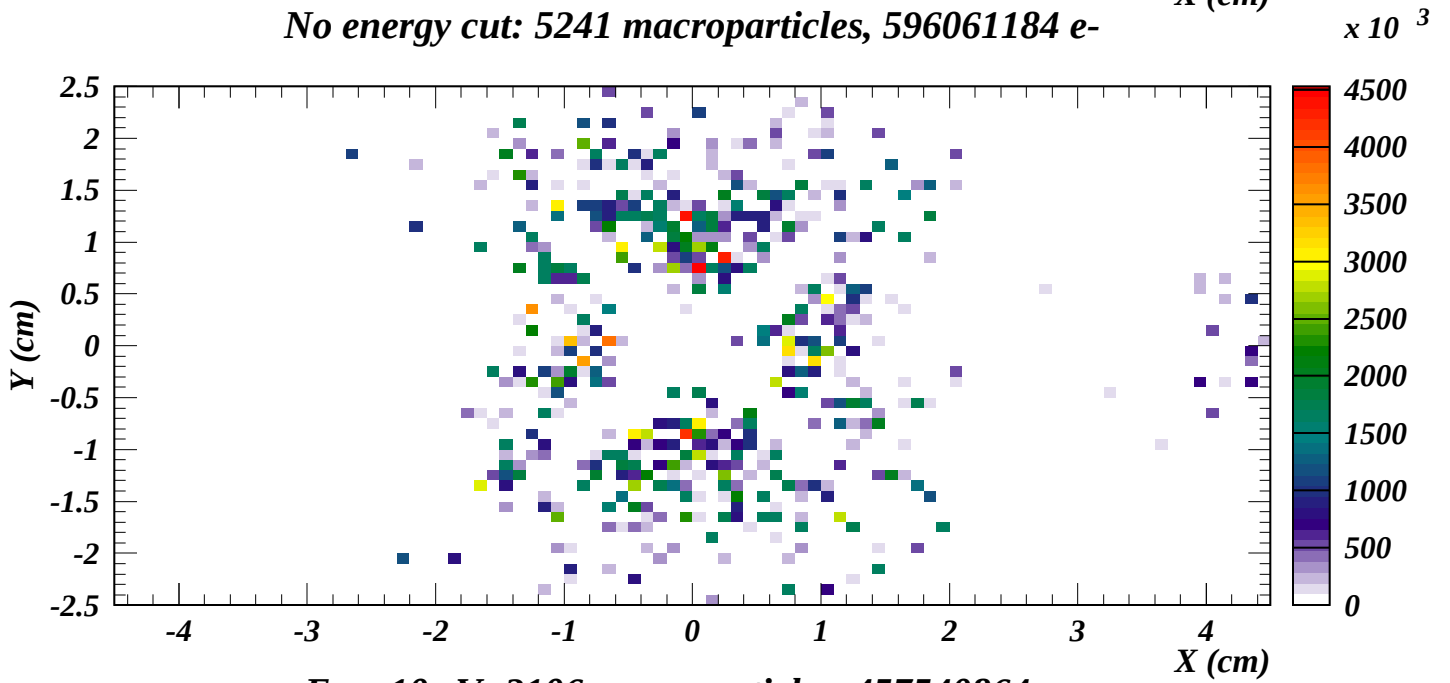


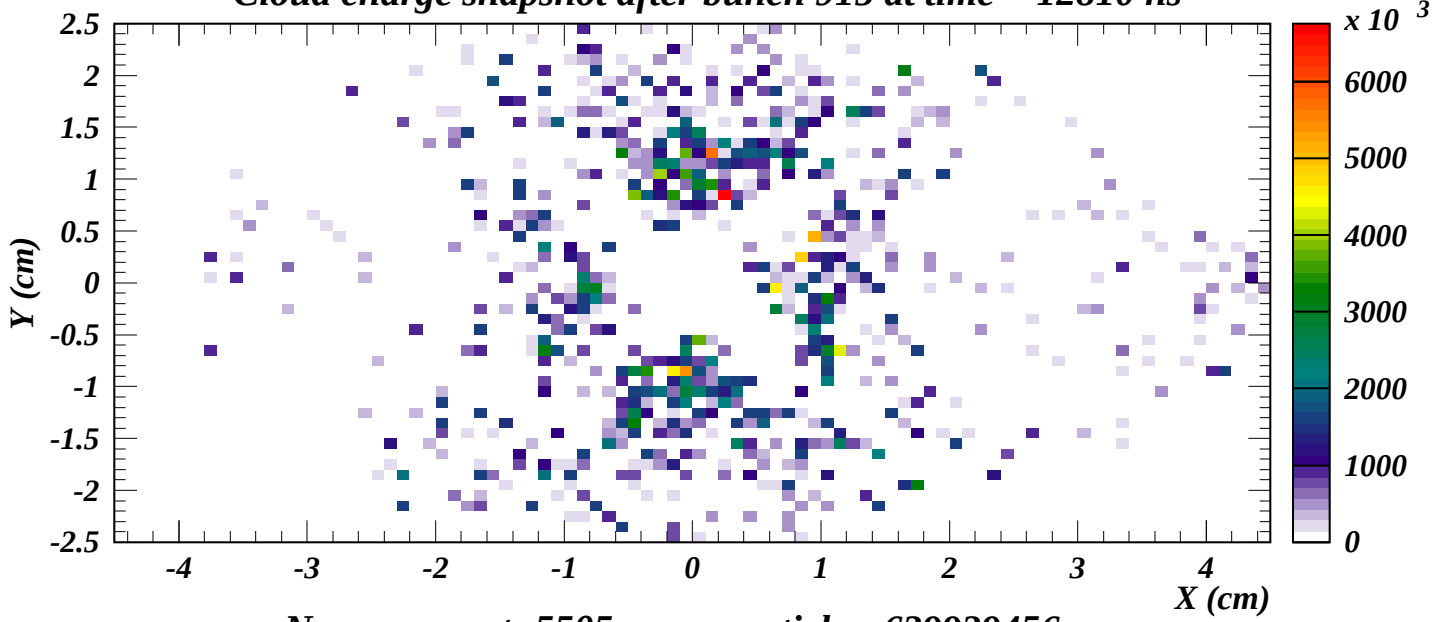
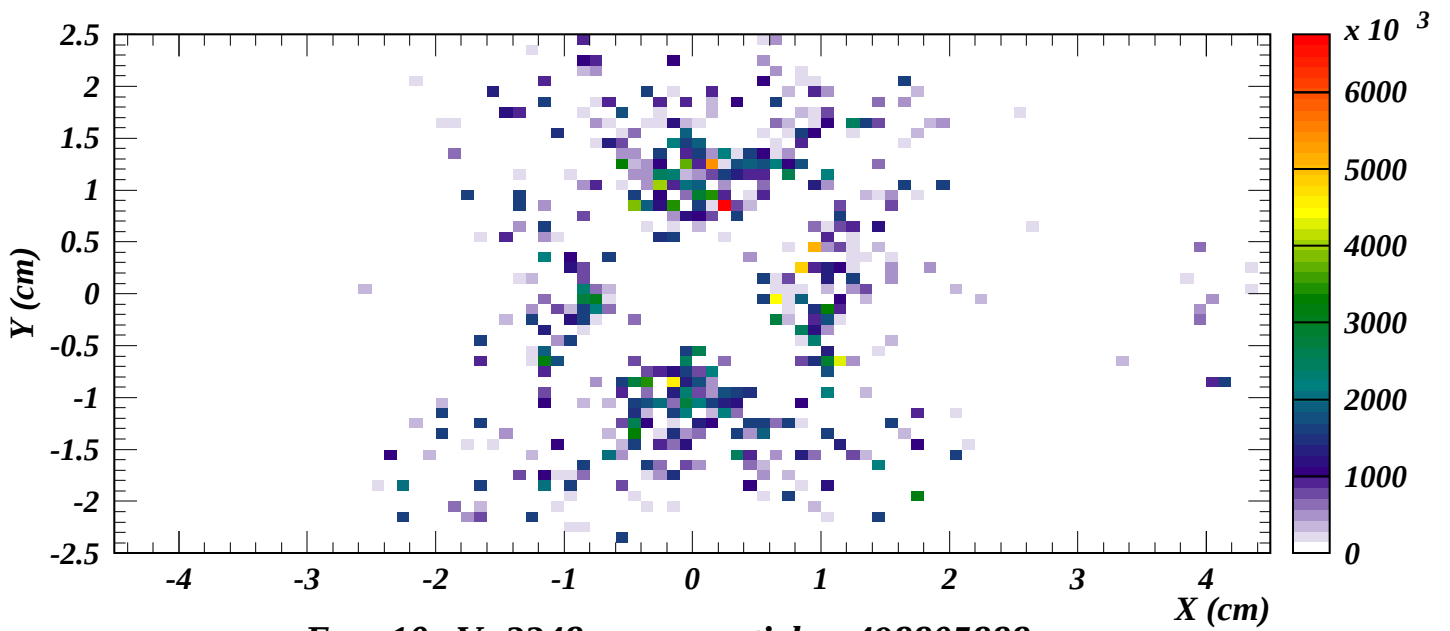
No energy cut: 4966 macroparticles, 568185920 e-

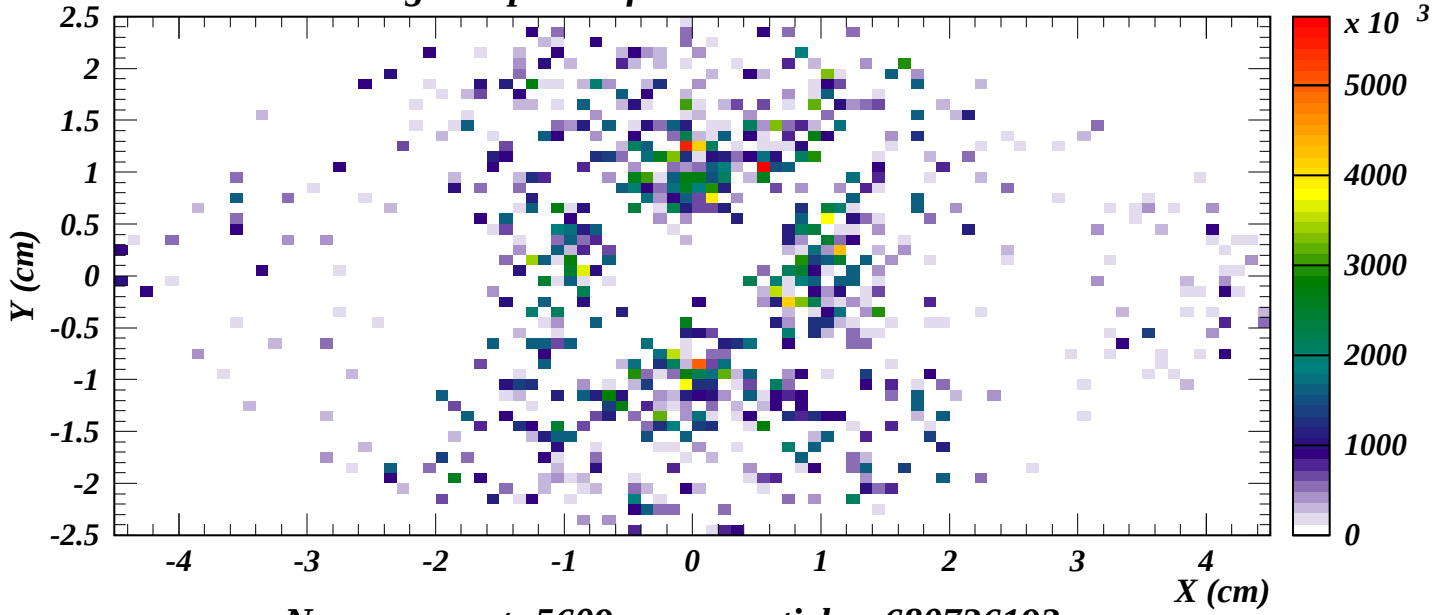
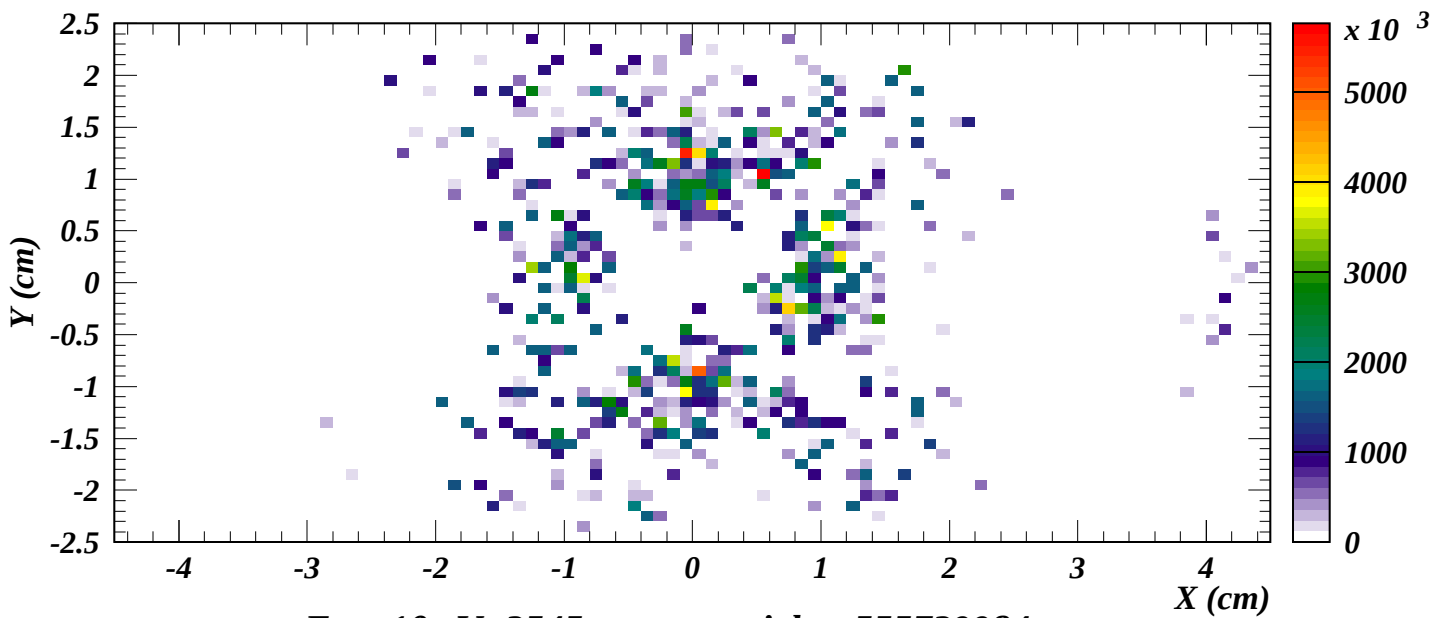
$\times 10^3$

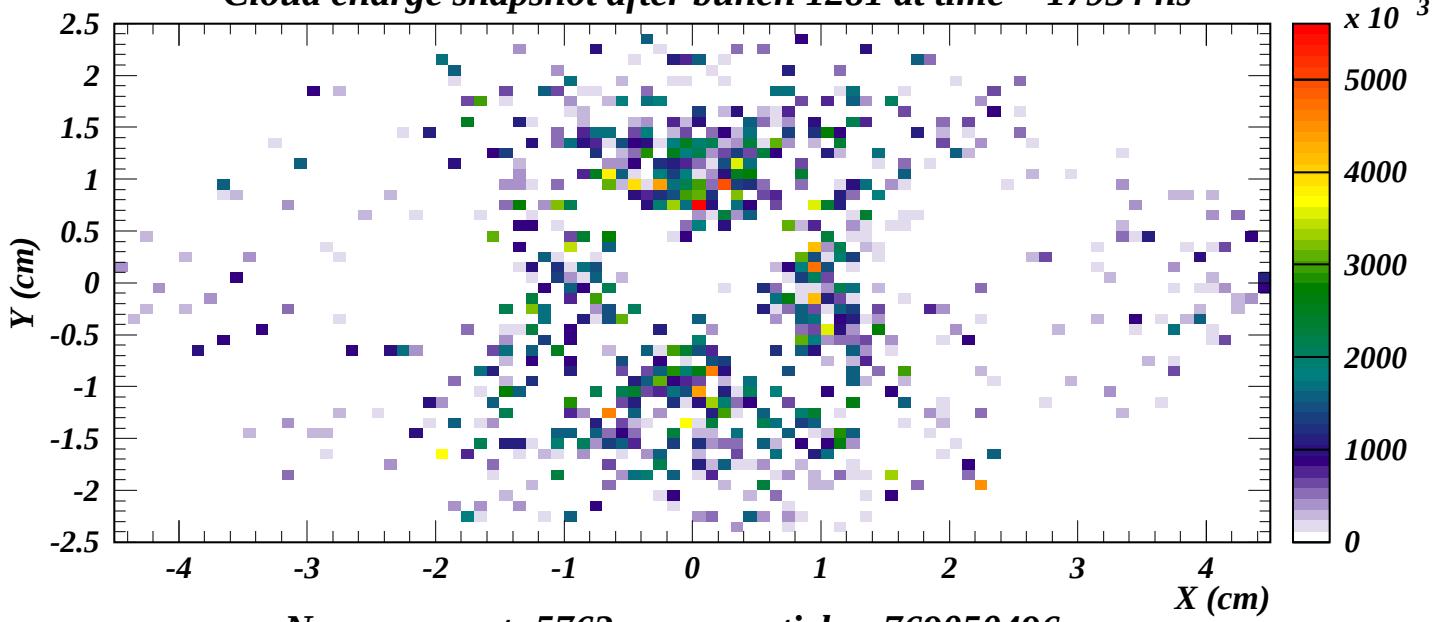
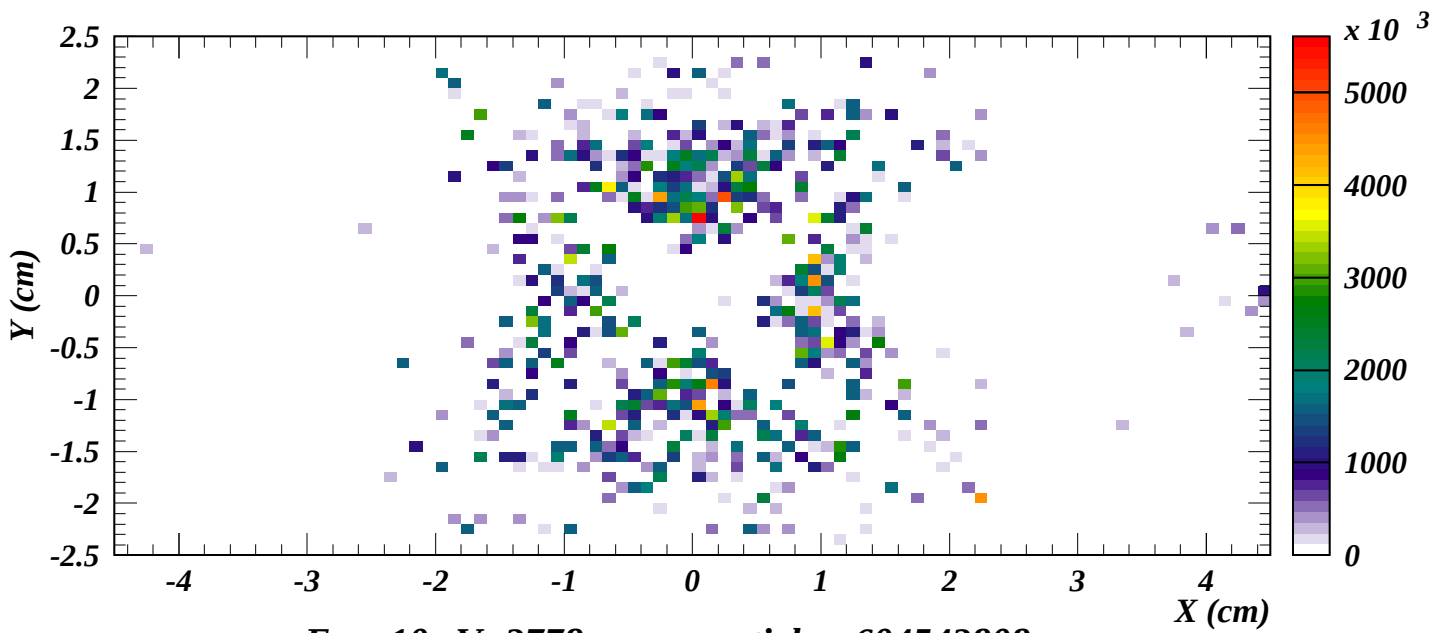


$E_{\text{kin}} > 10$ eV: 2719 macroparticles, 423270176 e-

Cloud charge snapshot after bunch 732 at time = 10248 ns*No energy cut: 5241 macroparticles, 596061184 e-* *$E_{kin} > 10$ eV: 3106 macroparticles, 457540864 e-*

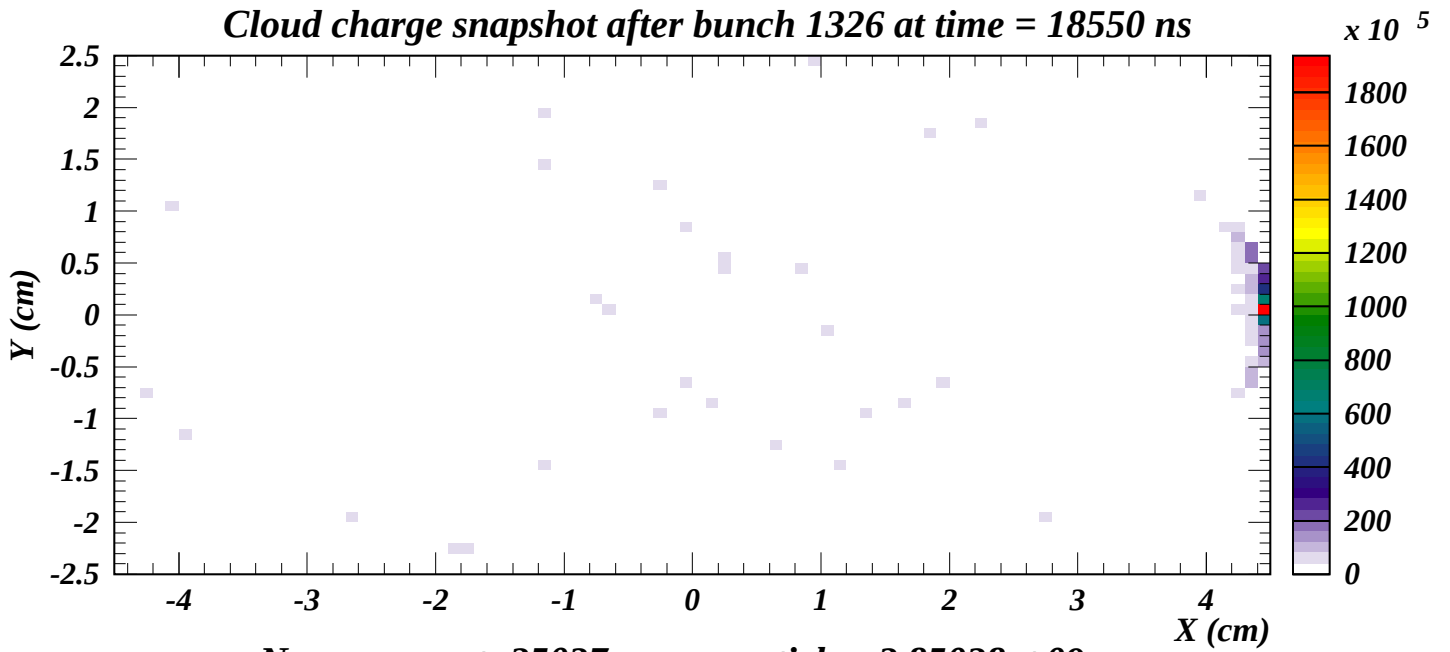
Cloud charge snapshot after bunch 915 at time = 12810 ns*No energy cut: 5505 macroparticles, 639939456 e-* *$E_{\text{kin}} > 10$ eV: 3348 macroparticles, 498805888 e-*

Cloud charge snapshot after bunch 1098 at time = 15372 ns*No energy cut: 5609 macroparticles, 680736192 e-* *$E_{\text{kin}} > 10$ eV: 3545 macroparticles, 555729984 e-*

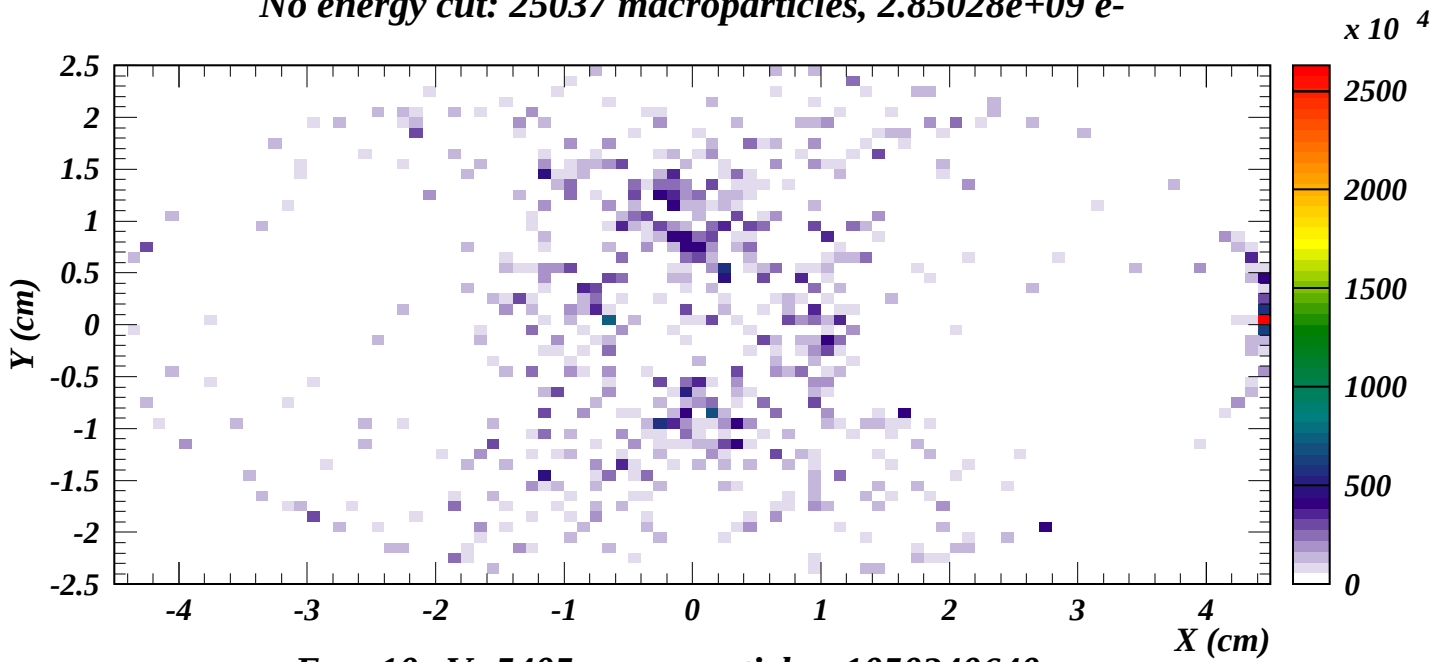
Cloud charge snapshot after bunch 1281 at time = 17934 ns*No energy cut: 5763 macroparticles, 769050496 e-* *$E_{kin} > 10$ eV: 3778 macroparticles, 604543808 e-*

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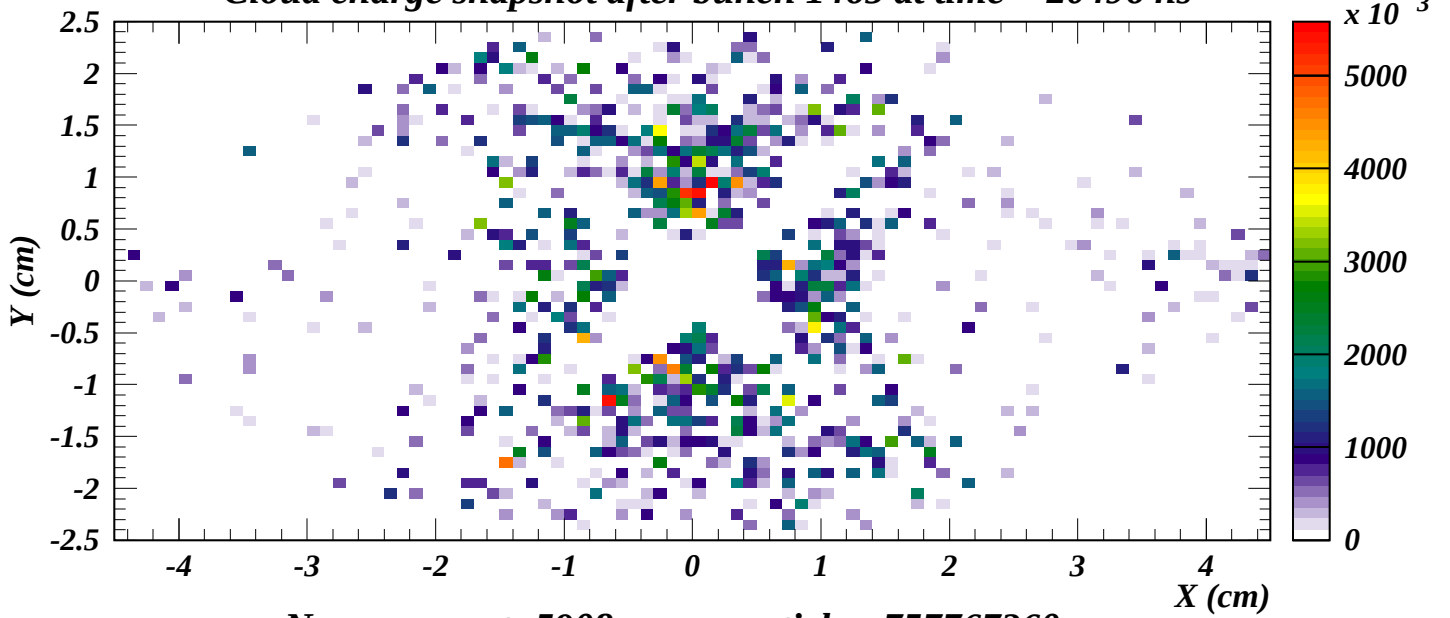
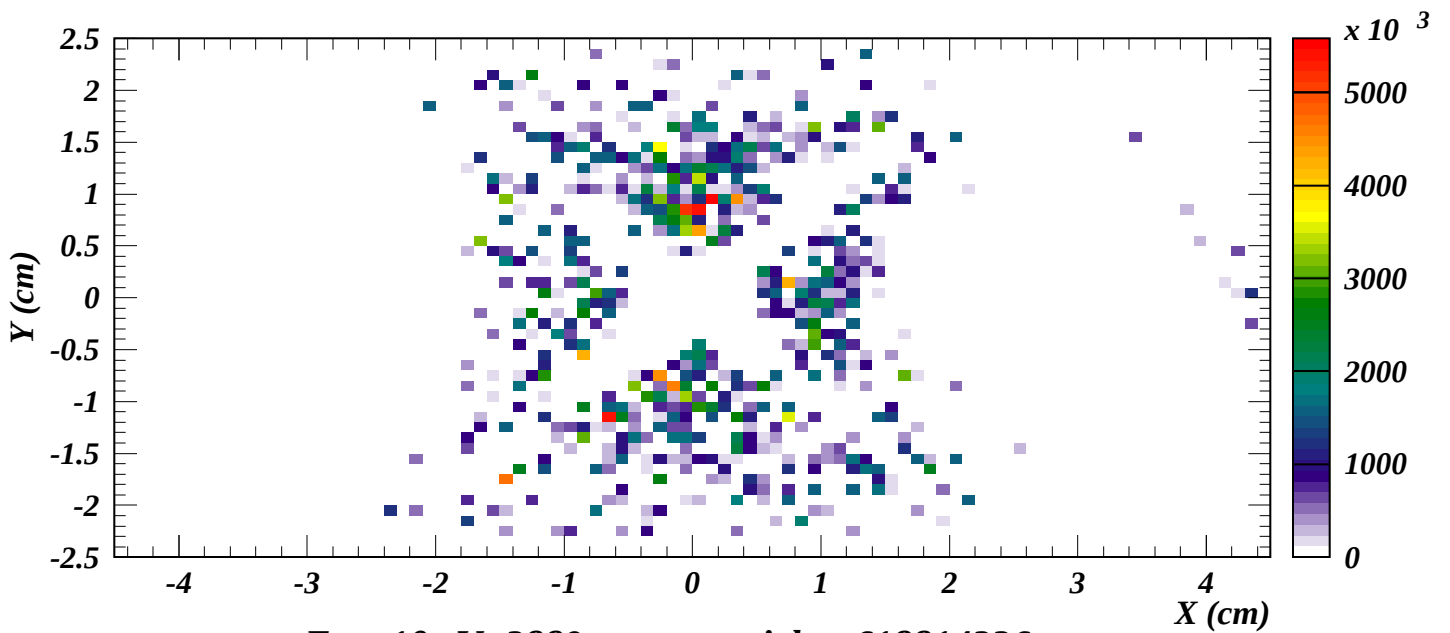
Cloud charge snapshot after bunch 1326 at time = 18550 ns



No energy cut: 25037 macroparticles, $2.85028e+09$ e-

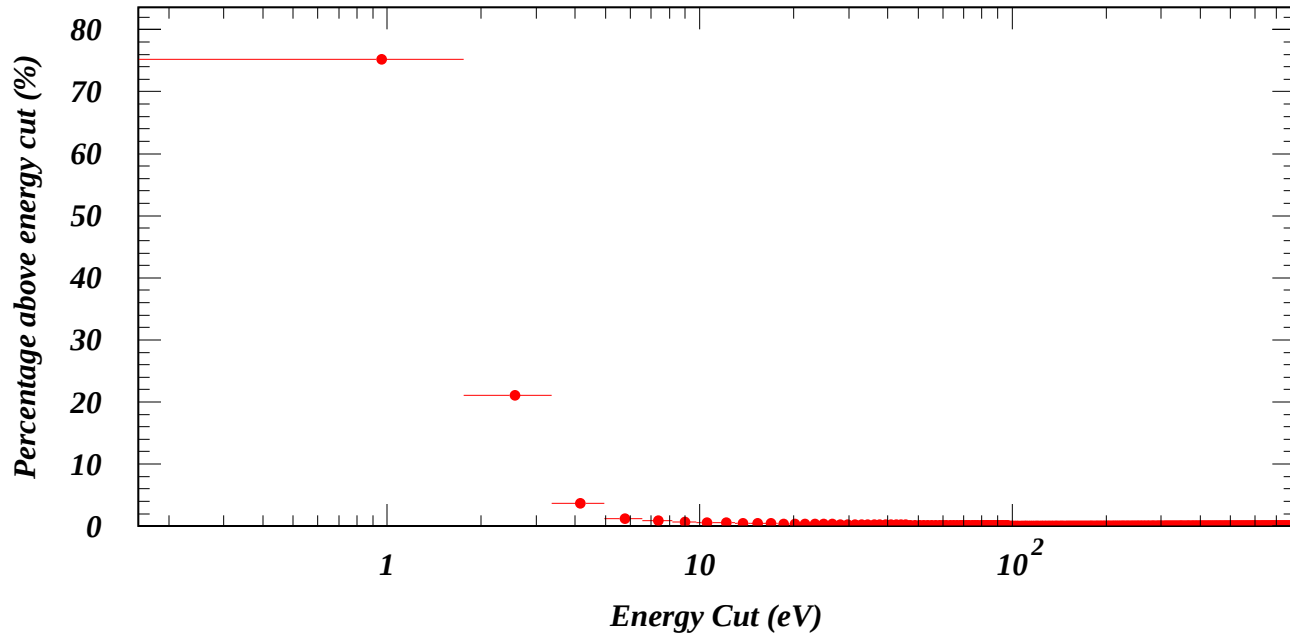
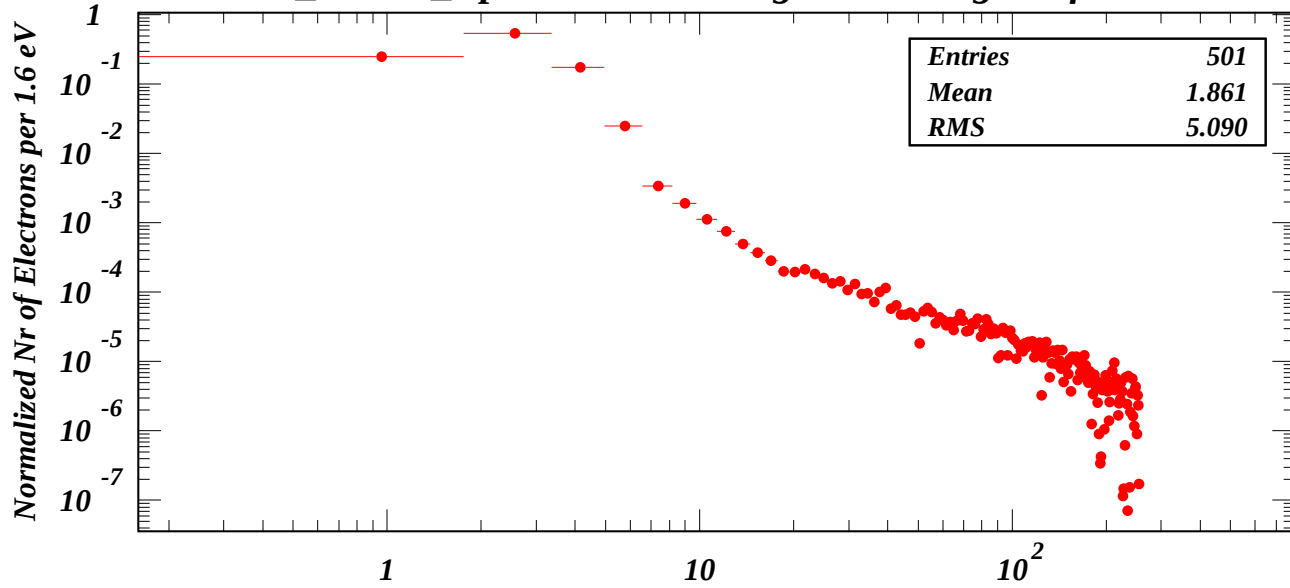


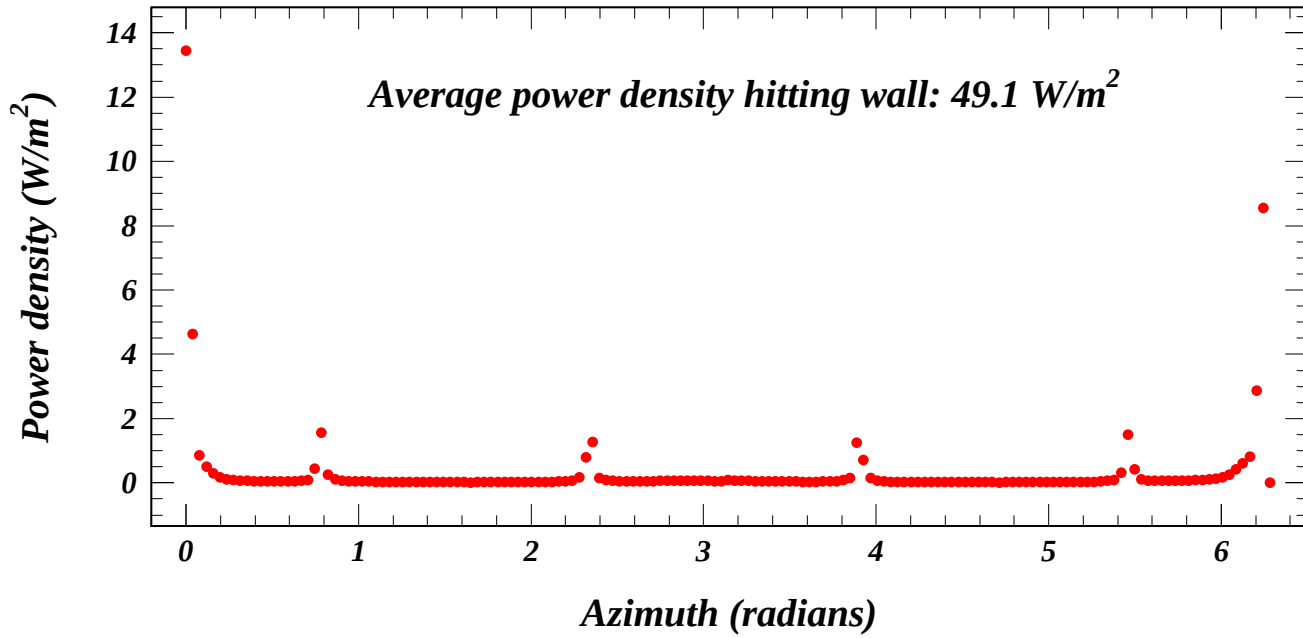
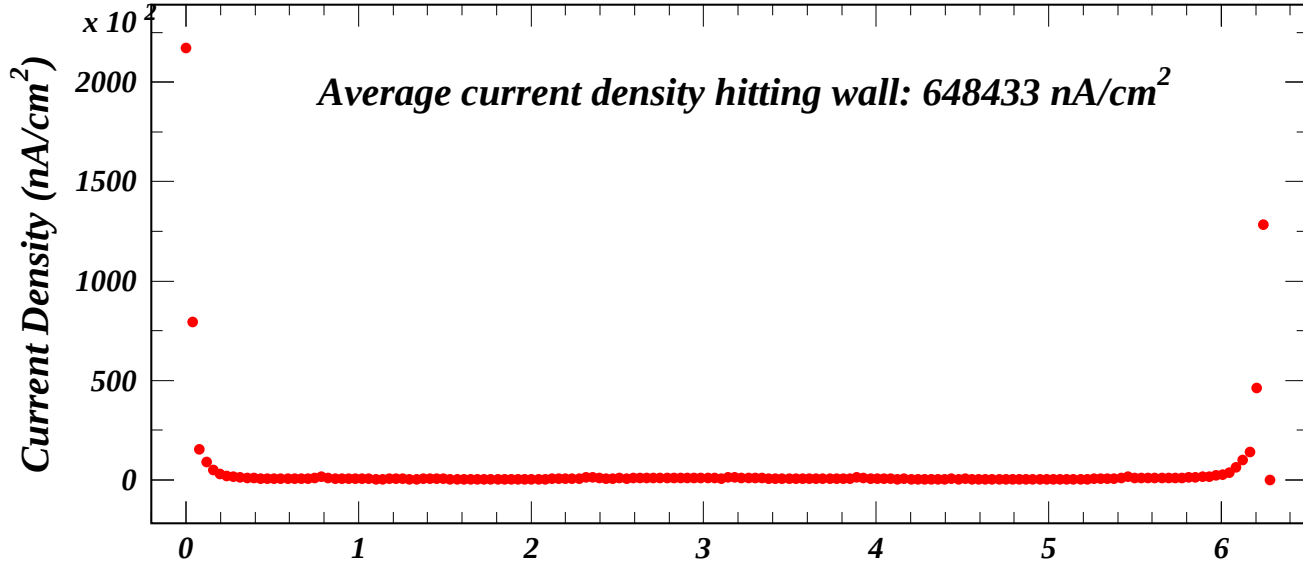
$E_{kin} > 10$ eV: 5405 macroparticles, 1050240640 e-

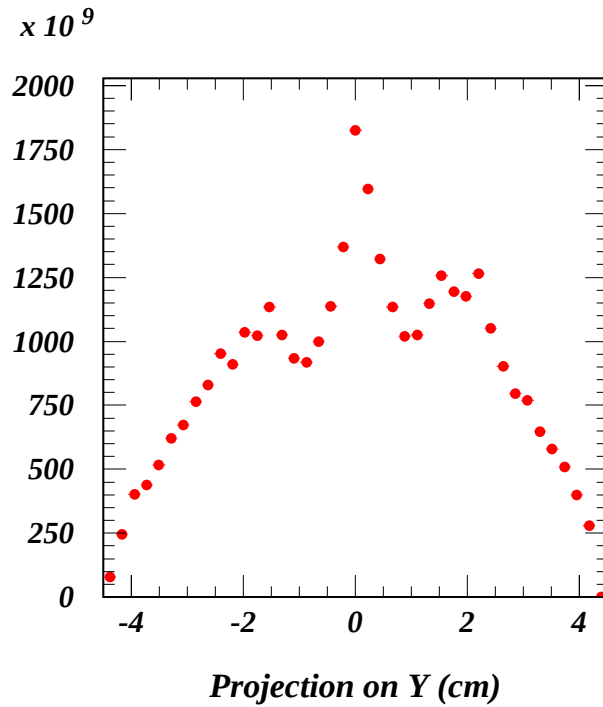
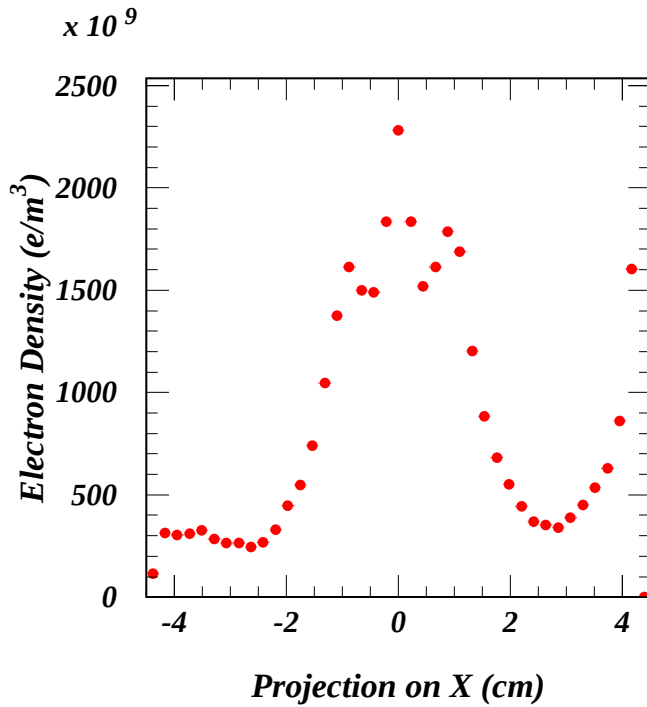
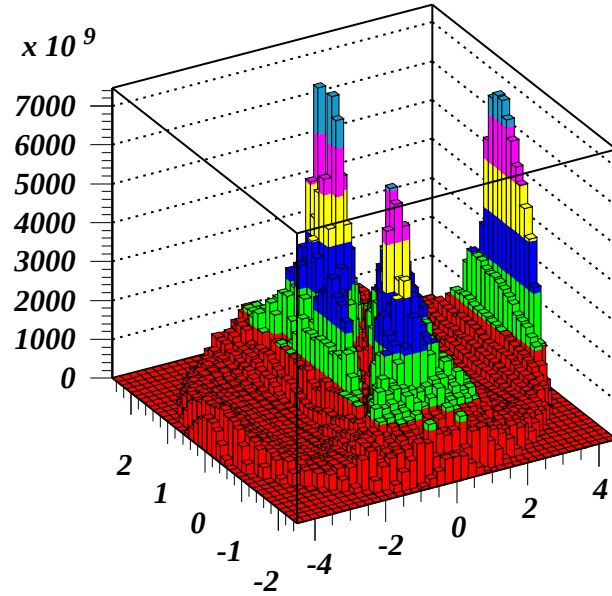
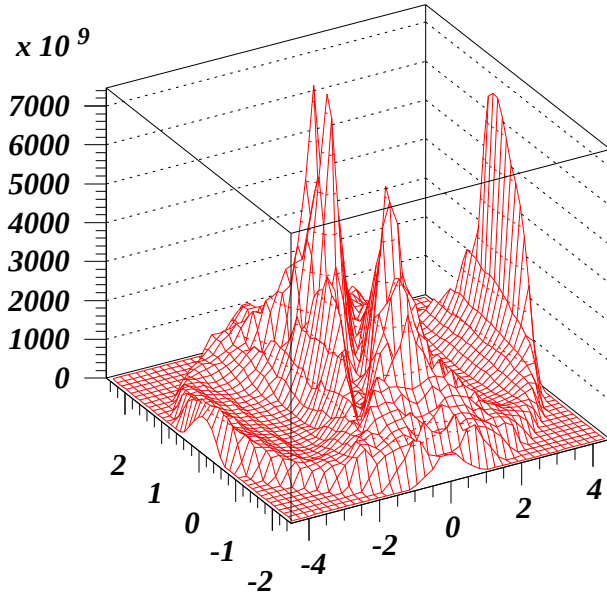
Cloud charge snapshot after bunch 1465 at time = 20496 ns*No energy cut: 5908 macroparticles, 757767360 e-* *$E_{\text{kin}} > 10$ eV: 3889 macroparticles, 618814336 e-*

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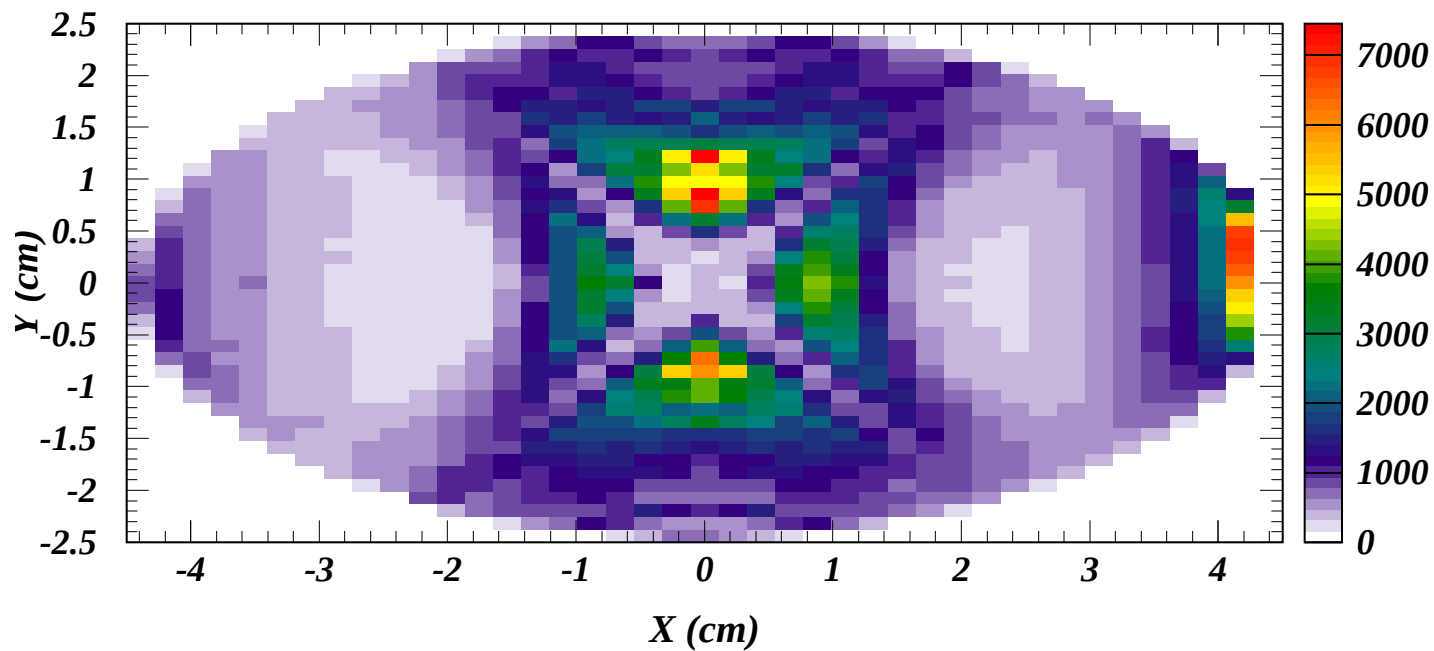
ECLOUD-TS0608_SEY20_Epk310: Time-Integrated Energies of Electrons Hitting Wall



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

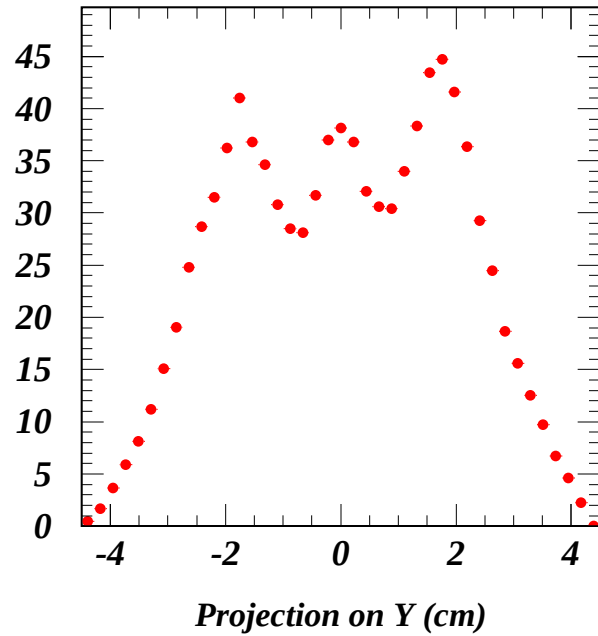
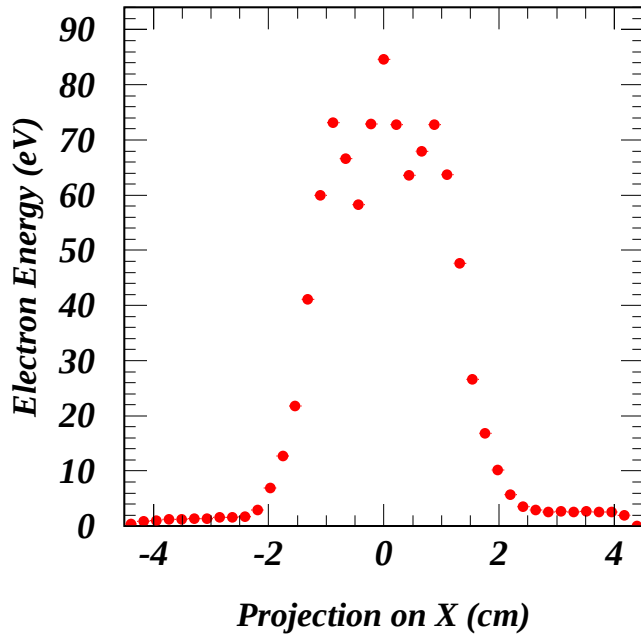
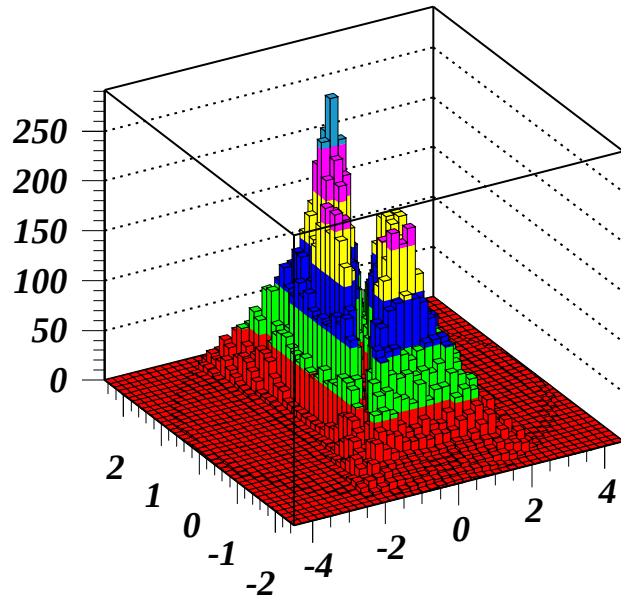
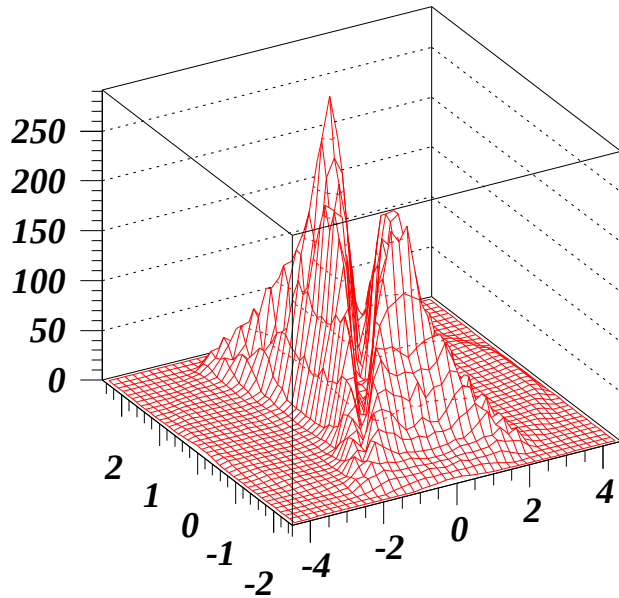
ECLOUD-TS0608_SEY20_Epk310: Cloud Density (e/m^3) Averaged Over 20510 ns

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



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



10/03/08 09.36

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

