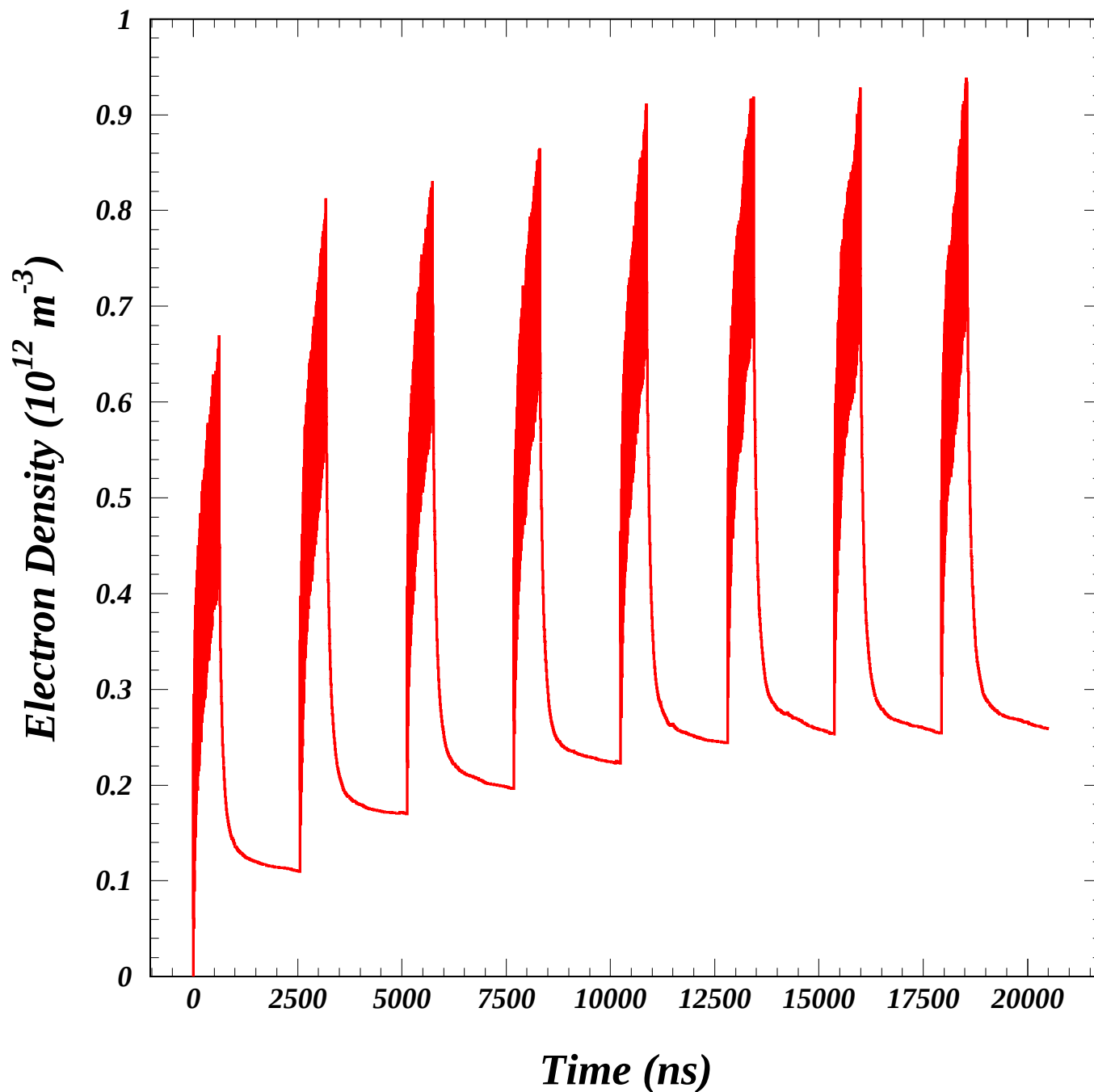
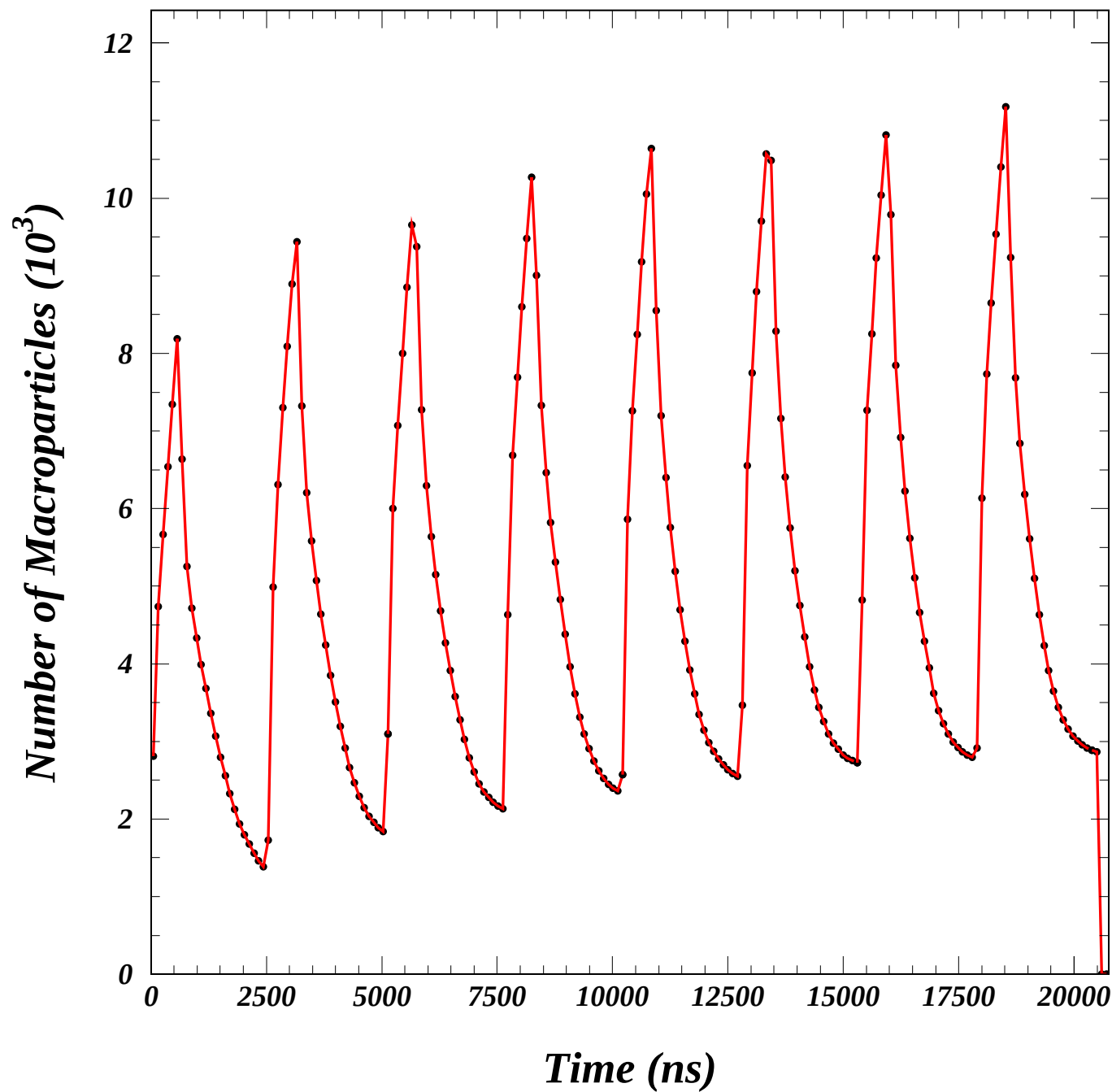
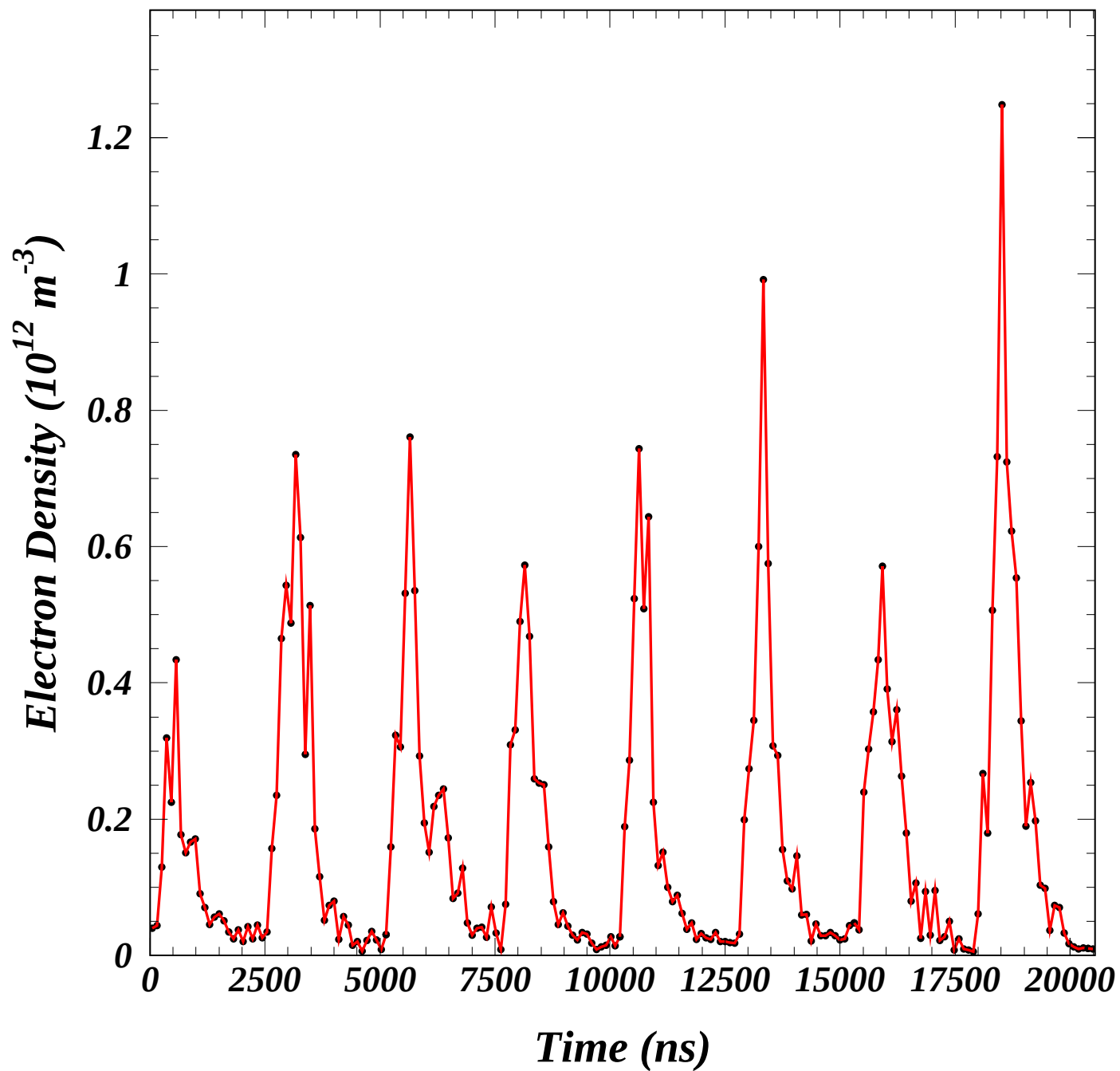


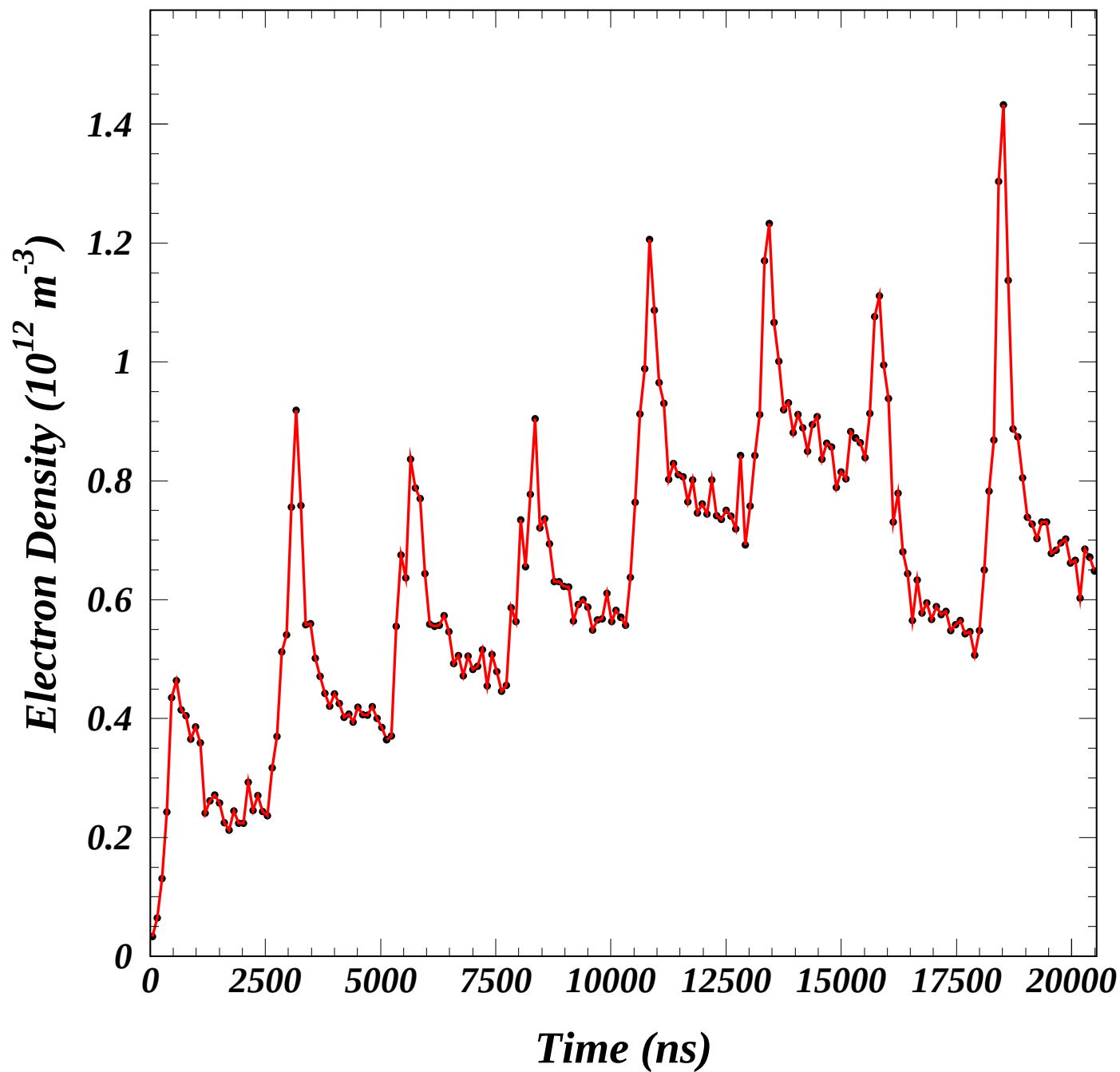
Beampipe-averaged Cloud Density (10^{12} m^{-3}) 10/03/17 09.47

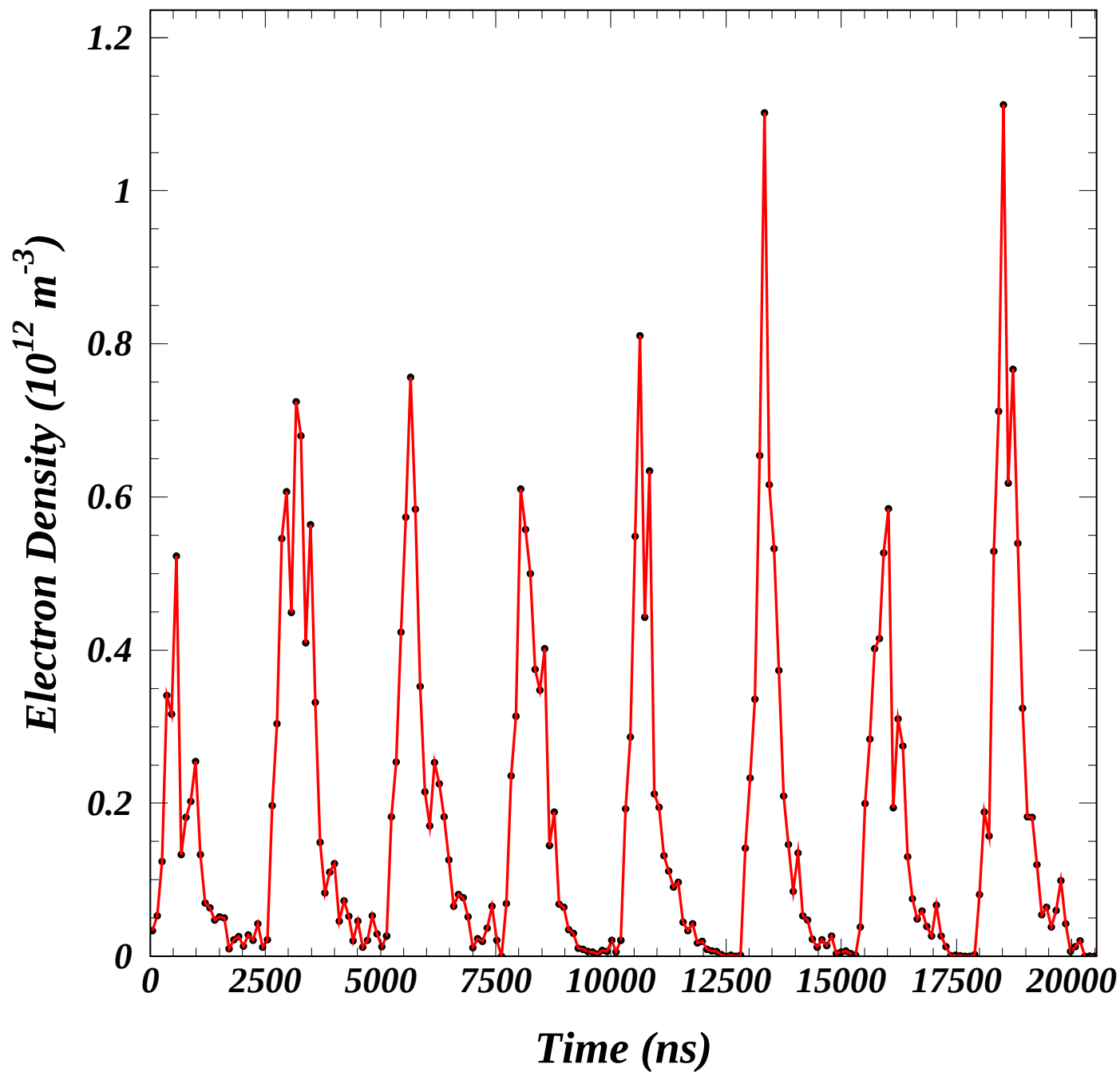


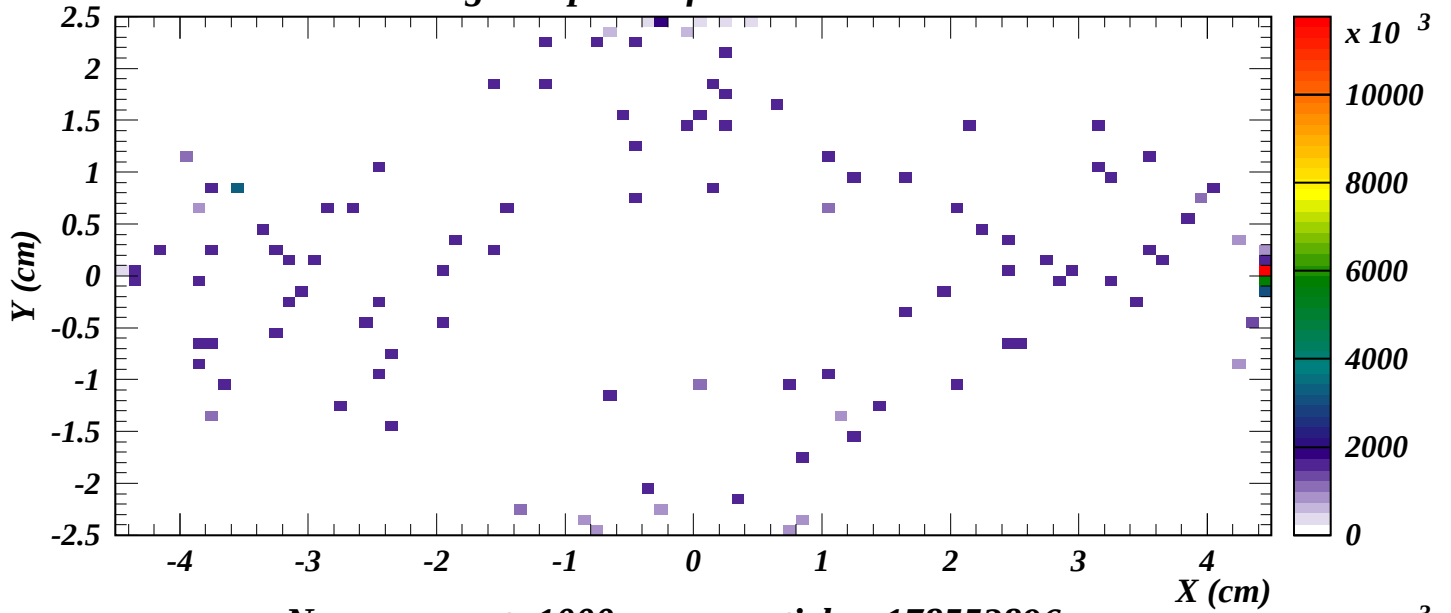
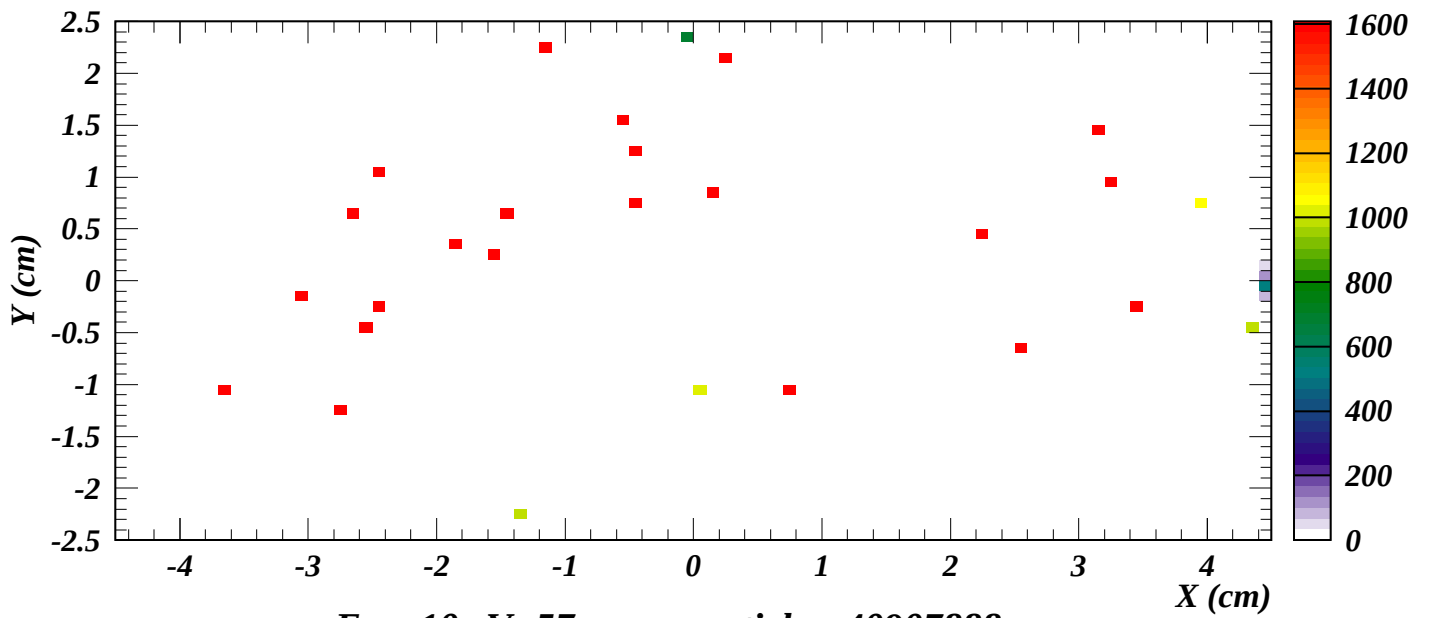
Macroparticle Statistics



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

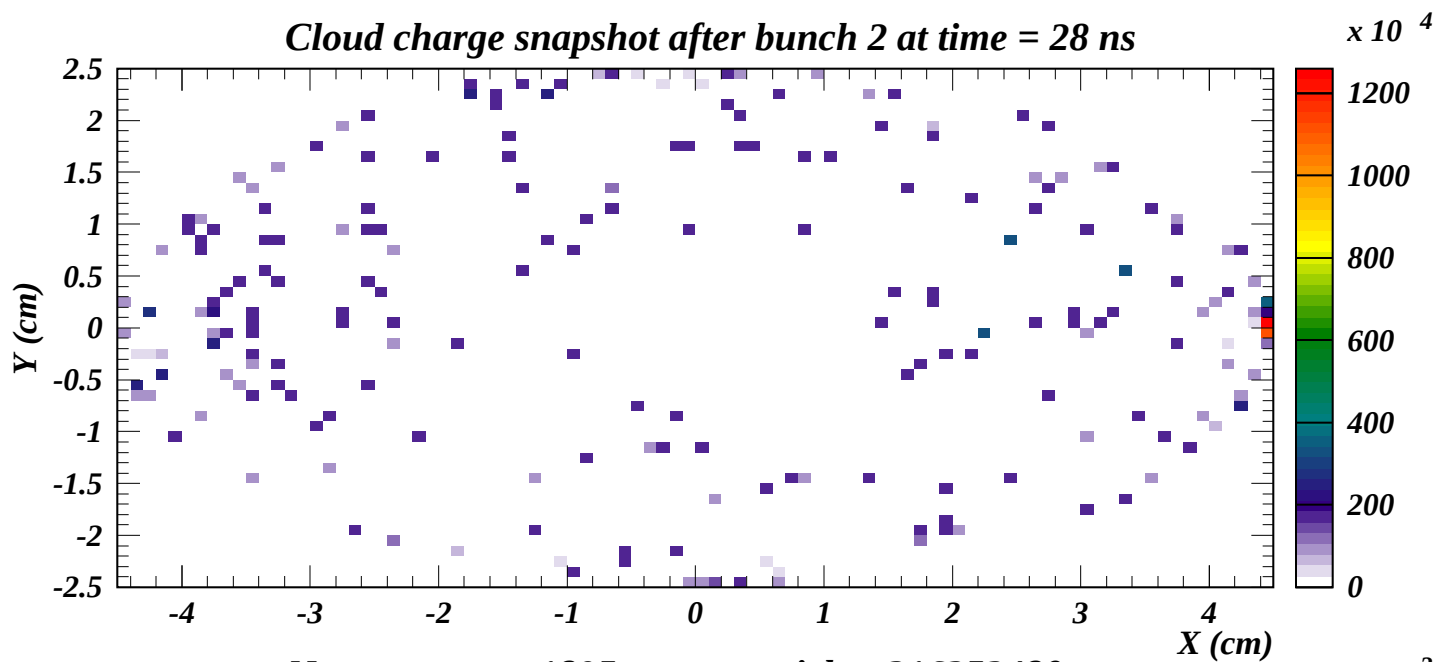
5-Sigma Cloud Density at Center of Pipe (10^{12} m^{-3})

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

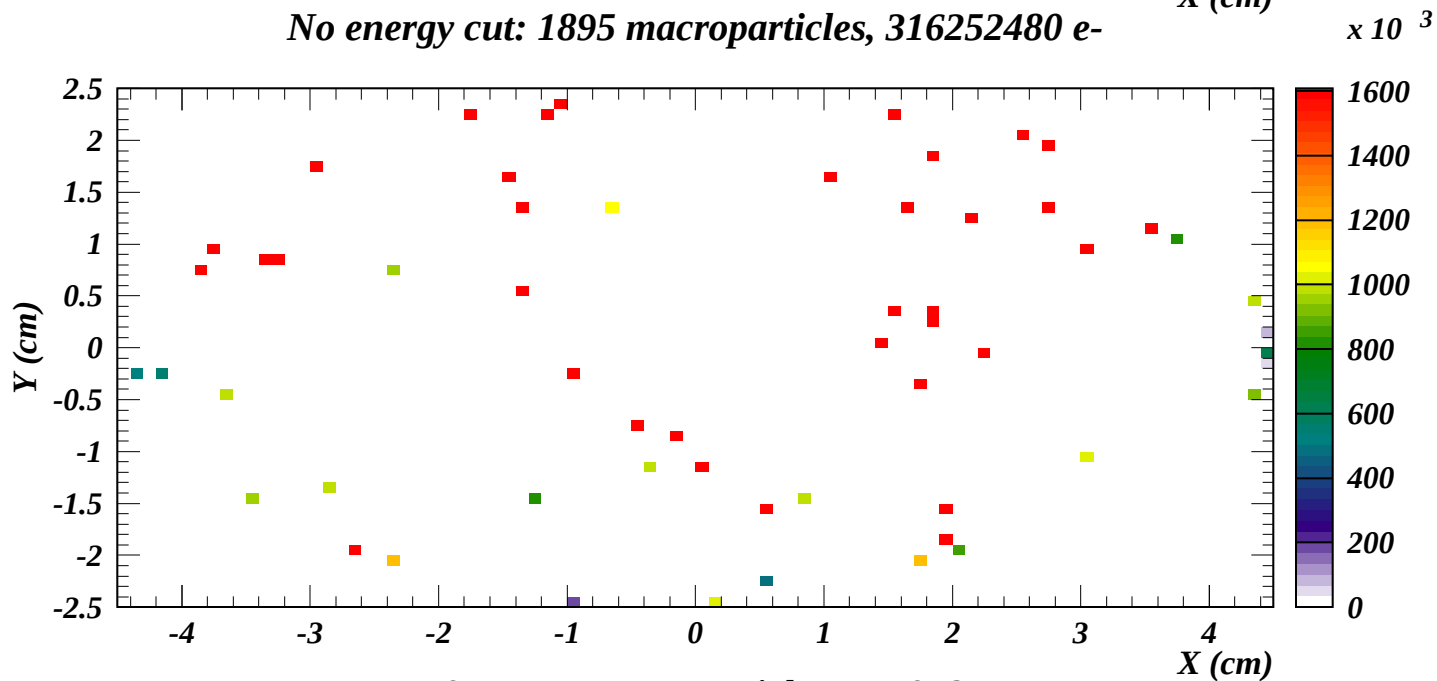
Cloud charge snapshot after bunch 1 at time = 14 ns*No energy cut: 1000 macroparticles, 178552896 e-* *$E_{\text{kin}} > 10 \text{ eV}$: 57 macroparticles, 40907888 e-*

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Cloud charge snapshot after bunch 2 at time = 28 ns



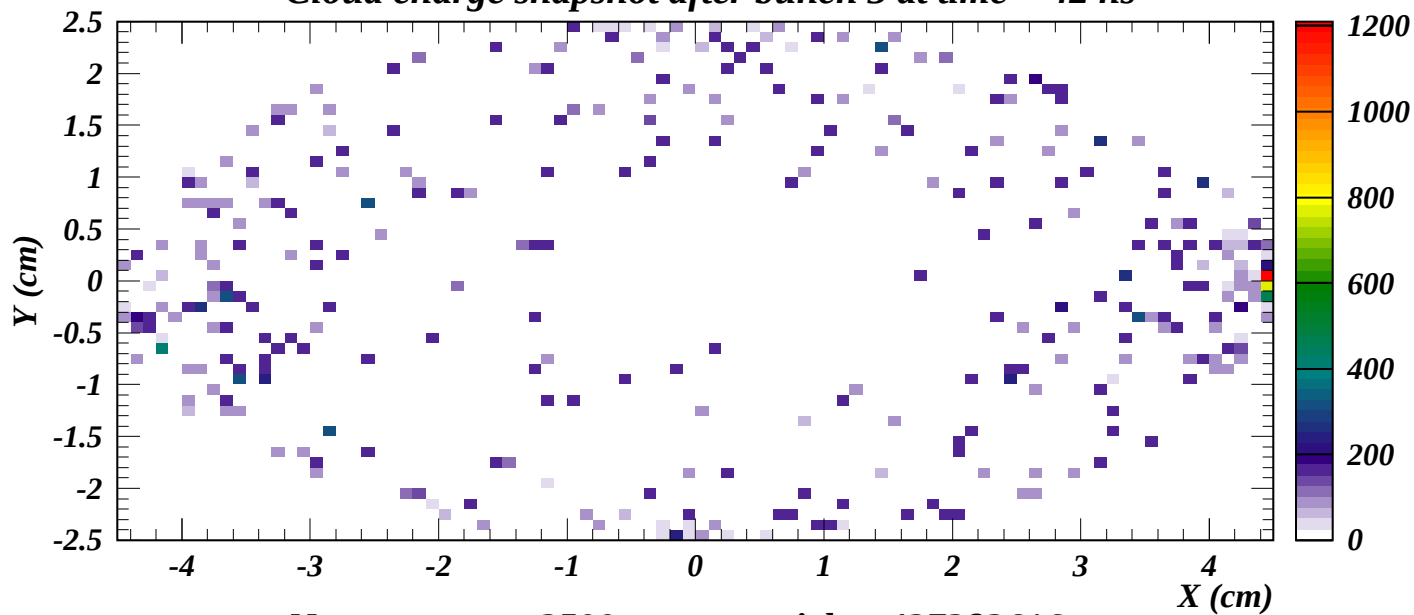
No energy cut: 1895 macroparticles, 316252480 e-



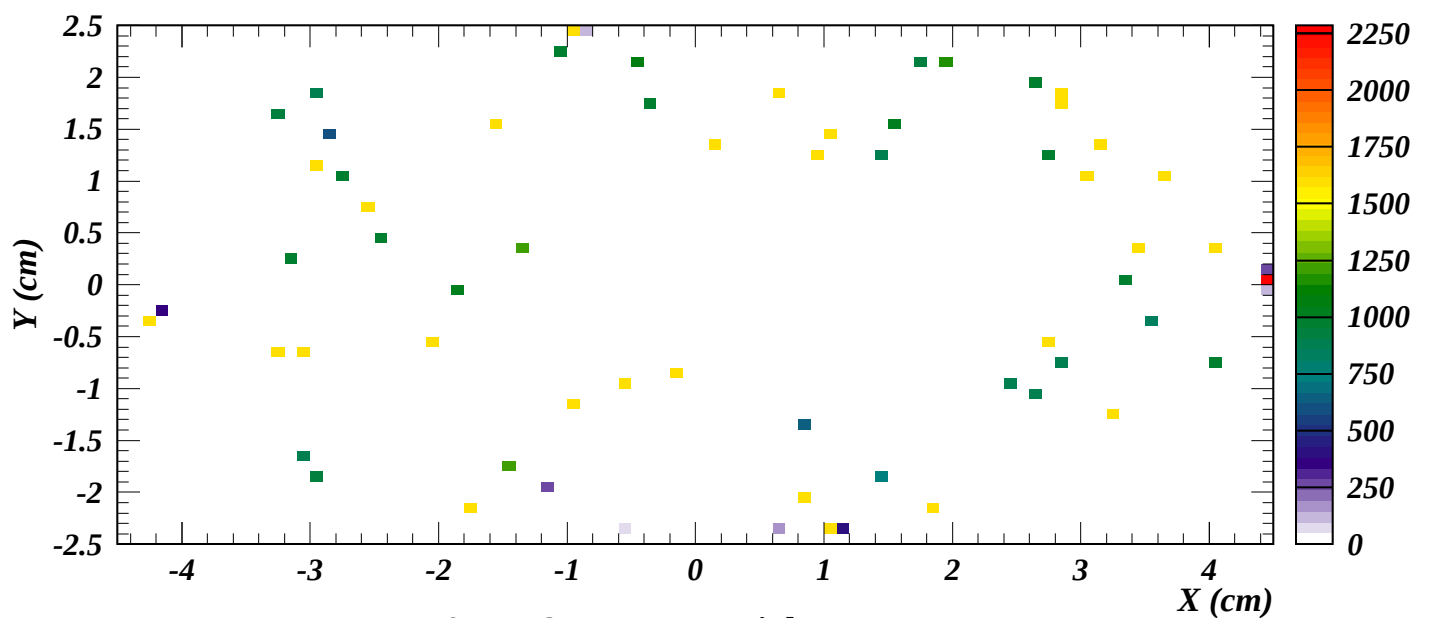
$E_{\text{kin}} > 10 \text{ eV}$: 77 macroparticles, 74601816 e-

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 $\times 10^{-4}$

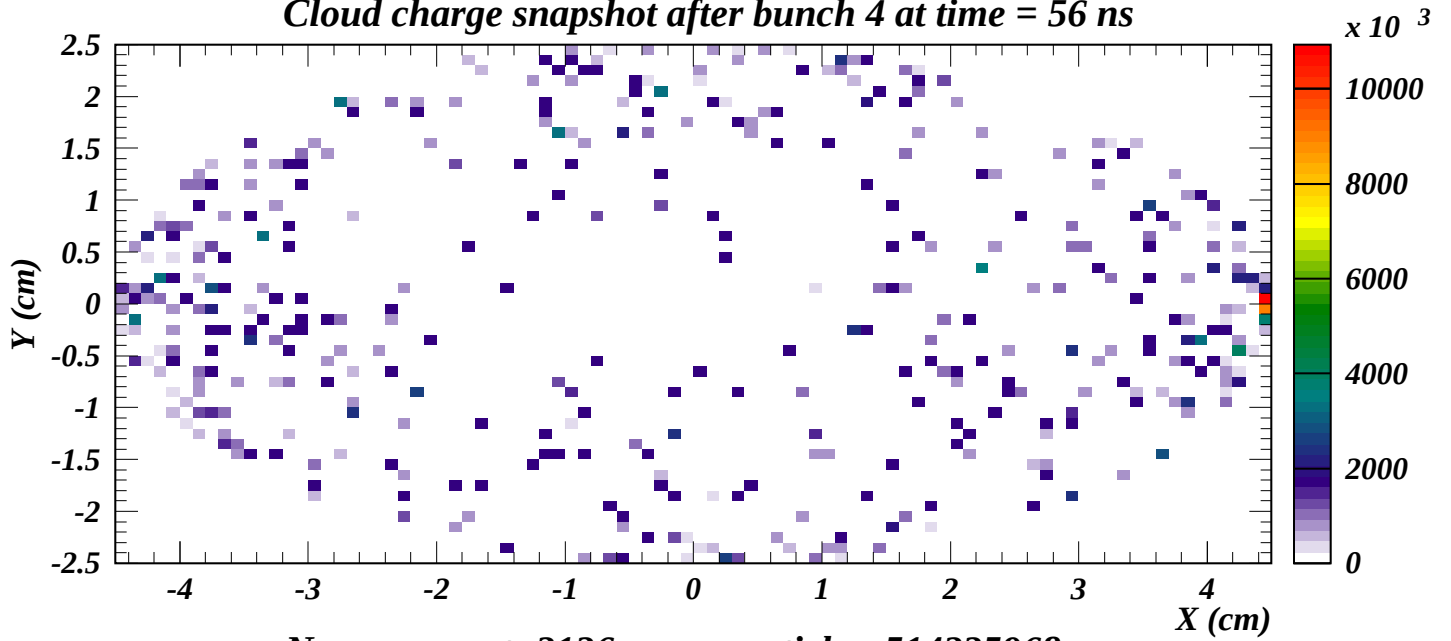
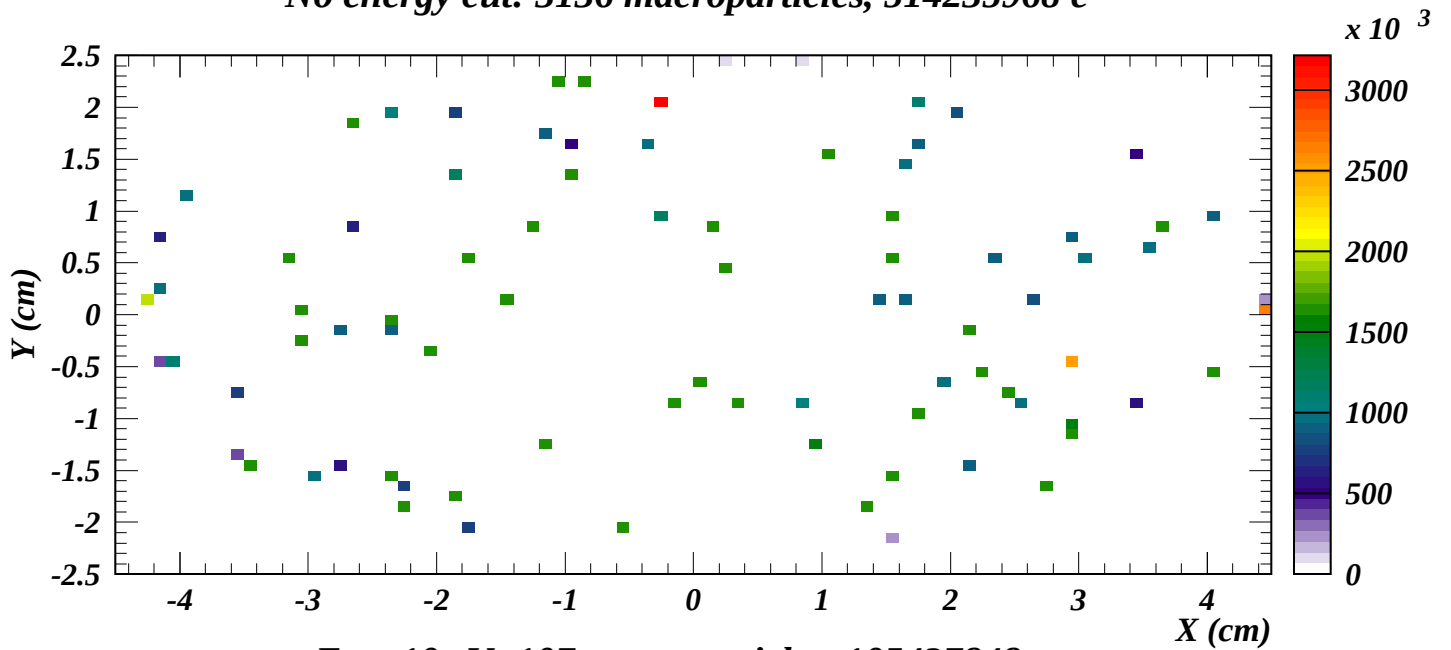
Cloud charge snapshot after bunch 3 at time = 42 ns



No energy cut: 2599 macroparticles, 427383616 e-

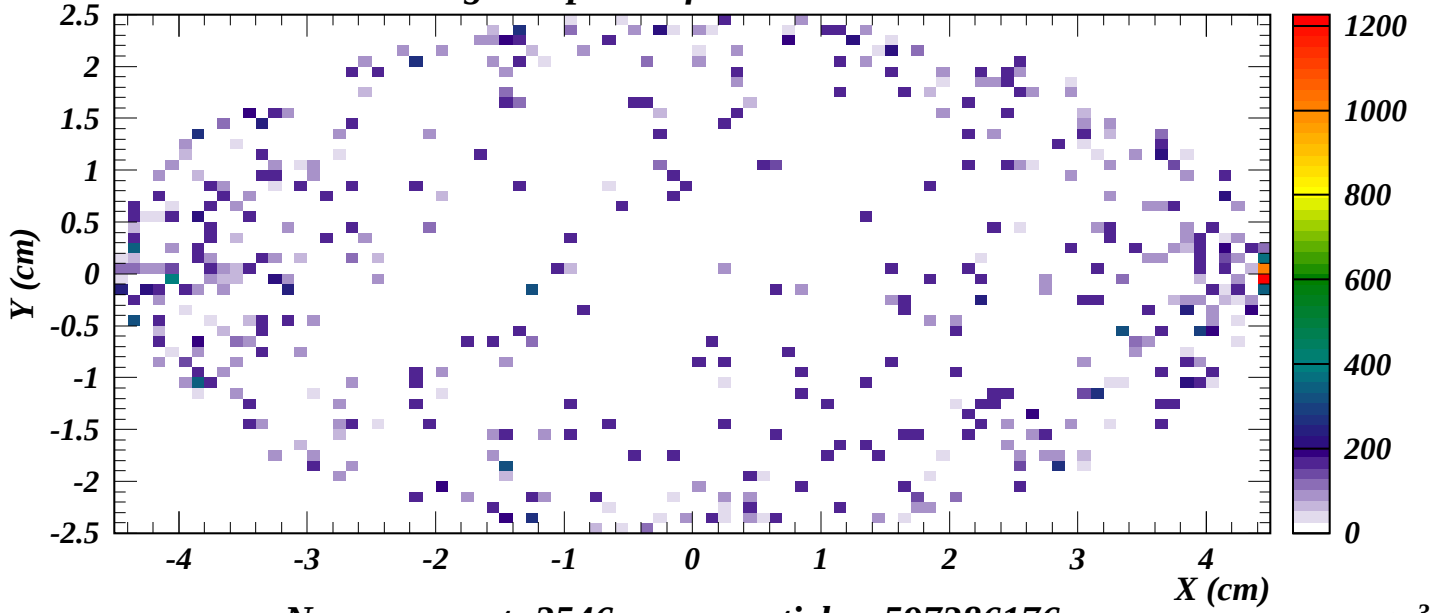


$E_{kin} > 10$ eV: 86 macroparticles, 75599752 e-

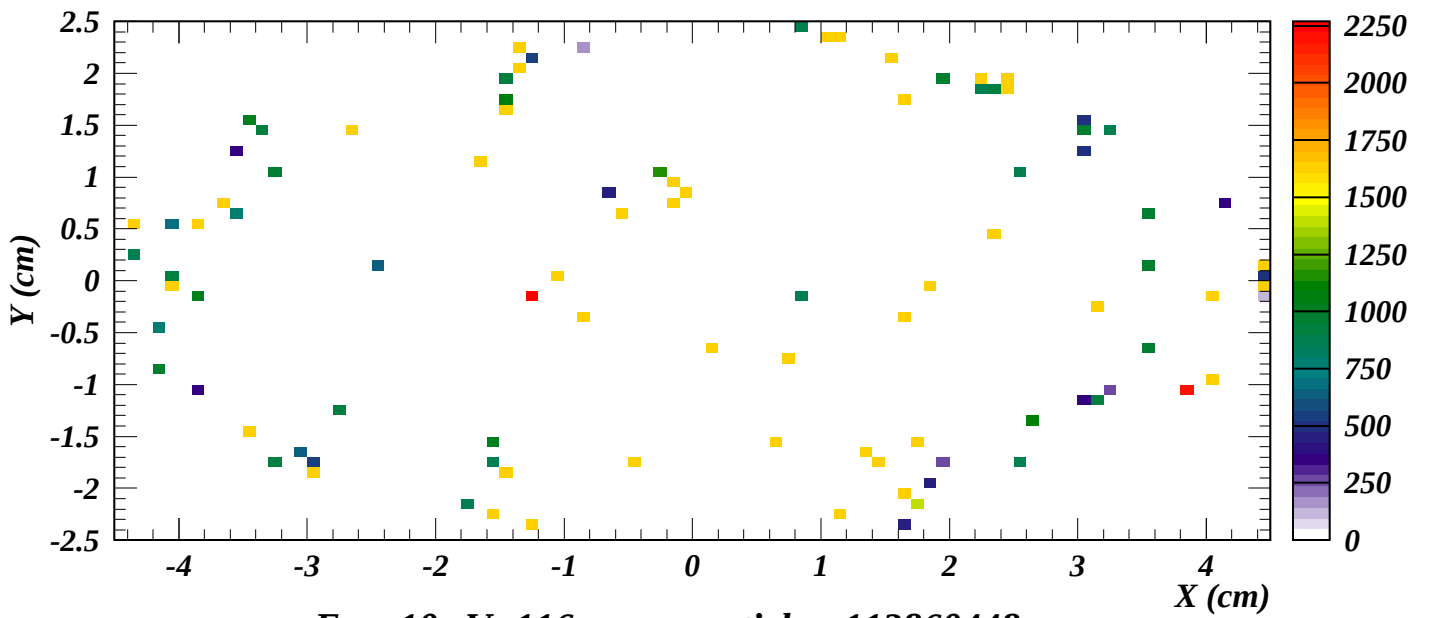
Cloud charge snapshot after bunch 4 at time = 56 ns*No energy cut: 3136 macroparticles, 514235968 e-* *$E_{kin} > 10$ eV: 107 macroparticles, 105437848 e-*

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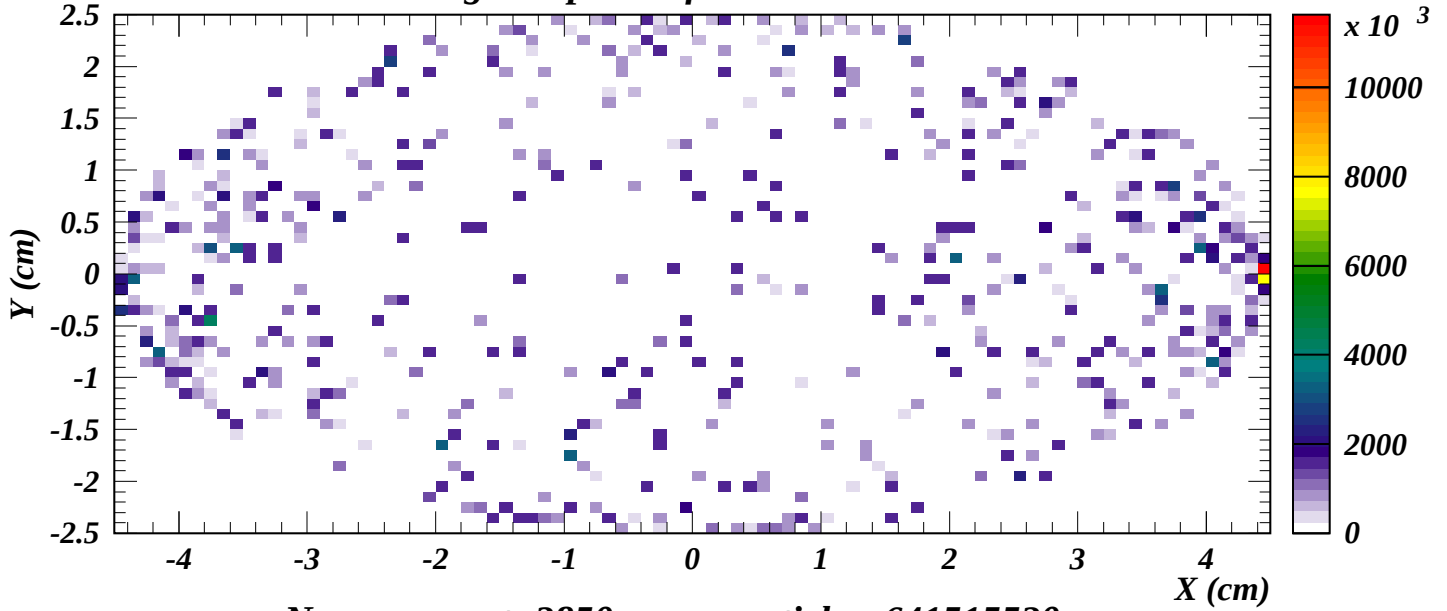
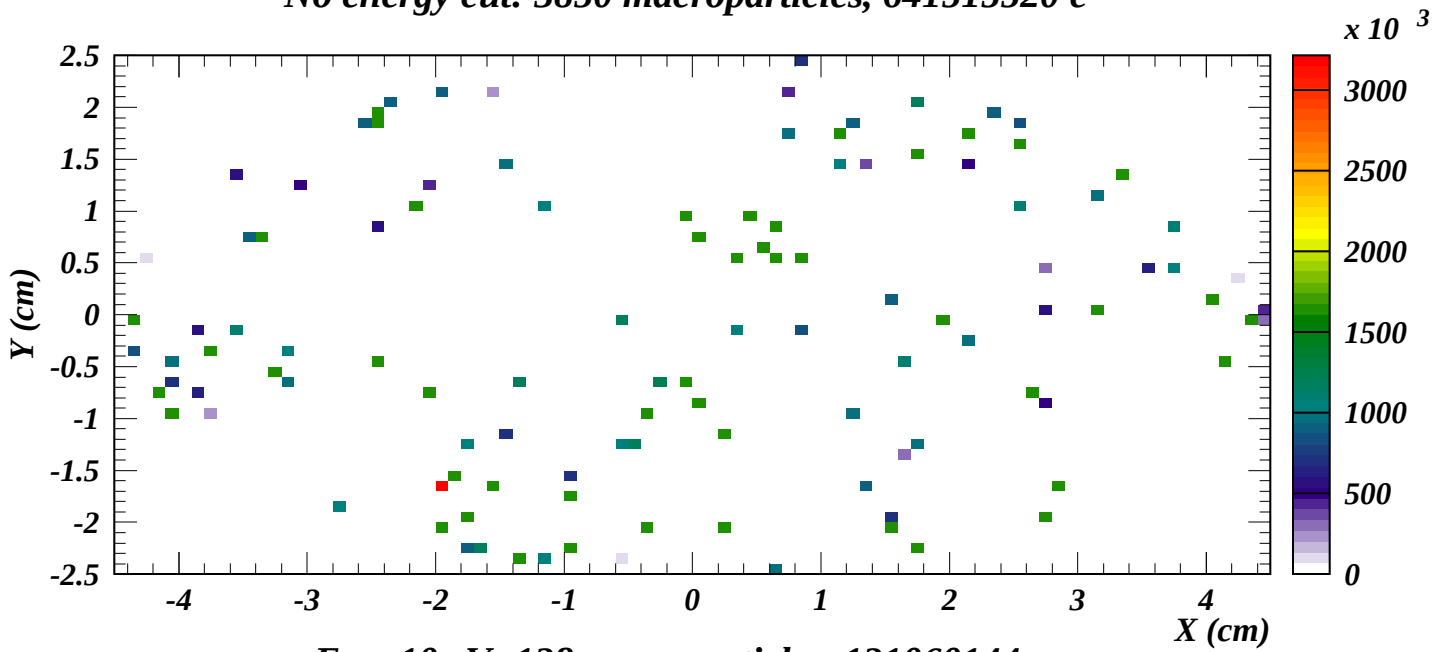
Cloud charge snapshot after bunch 5 at time = 70 ns



No energy cut: 3546 macroparticles, 597386176 e-

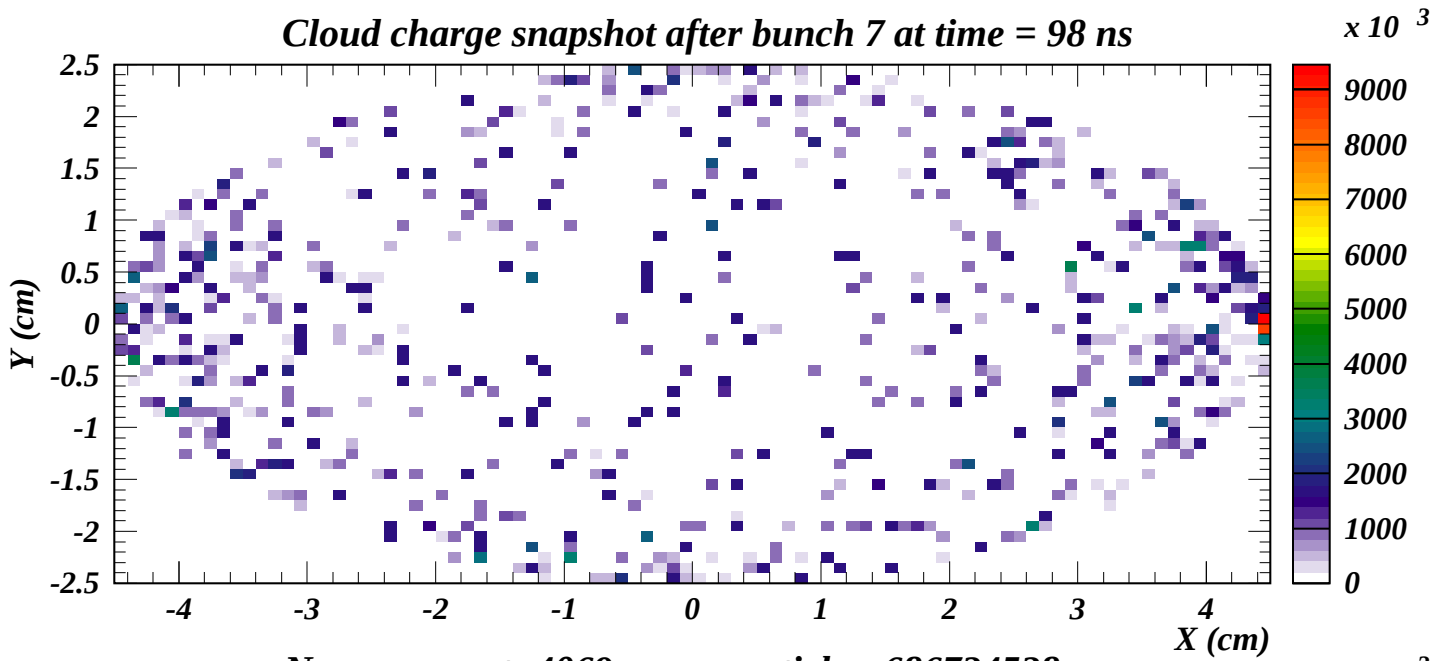


$E_{kin} > 10 \text{ eV}$: 116 macroparticles, 113860448 e-

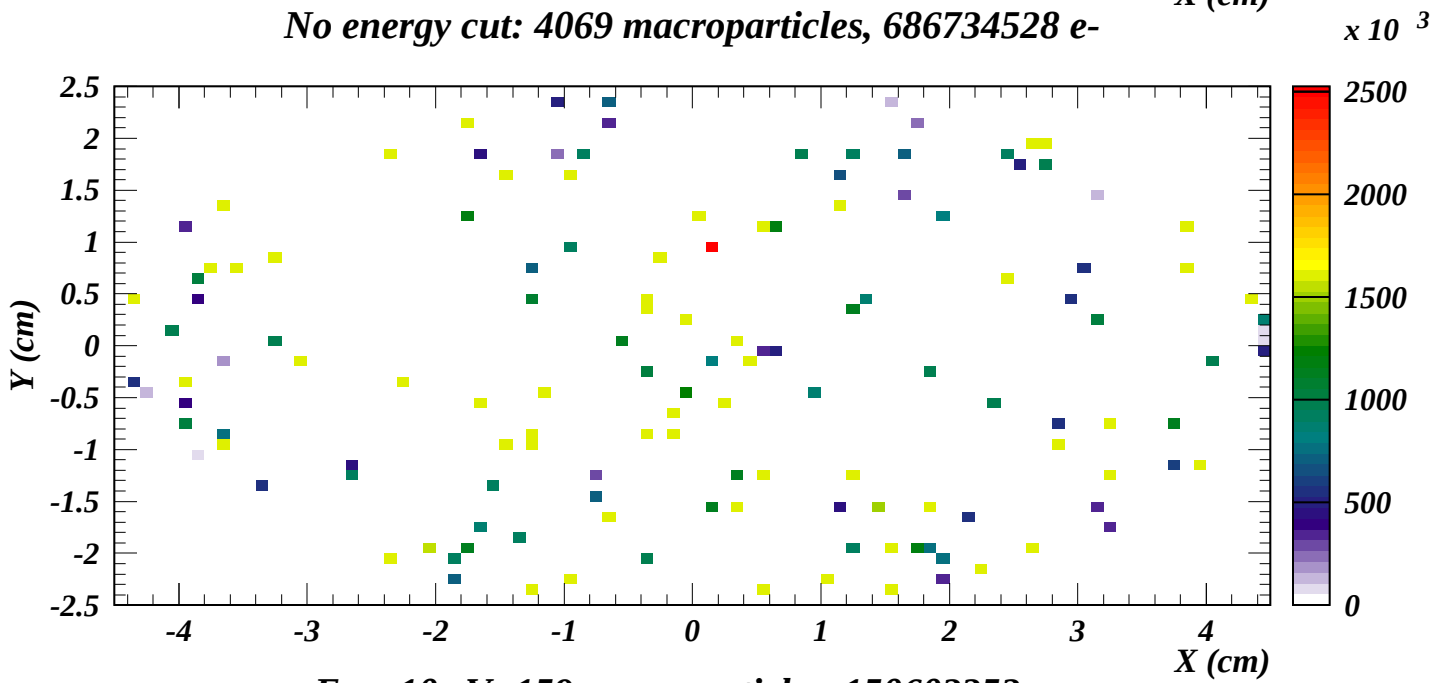
Cloud charge snapshot after bunch 6 at time = 84 ns*No energy cut: 3850 macroparticles, 641515520 e-* *$E_{kin} > 10 \text{ eV}$: 128 macroparticles, 131060144 e-*

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Cloud charge snapshot after bunch 7 at time = 98 ns



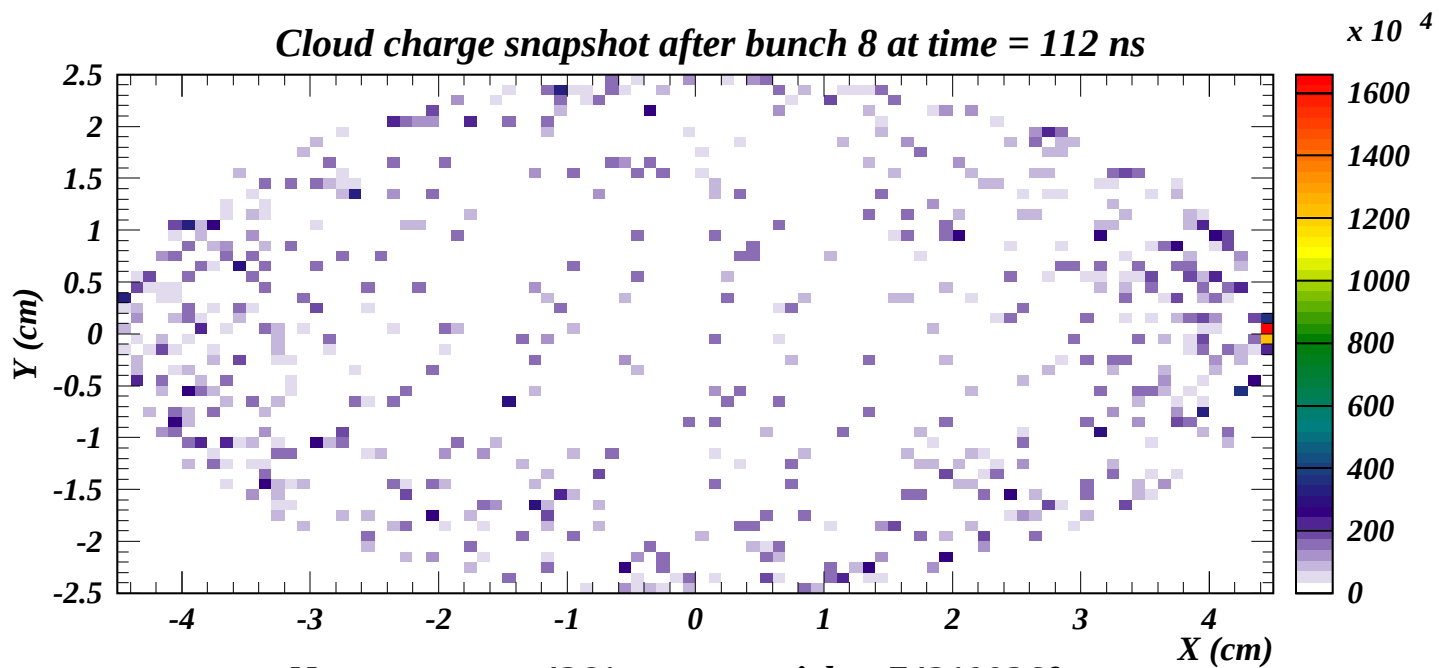
No energy cut: 4069 macroparticles, 686734528 e-



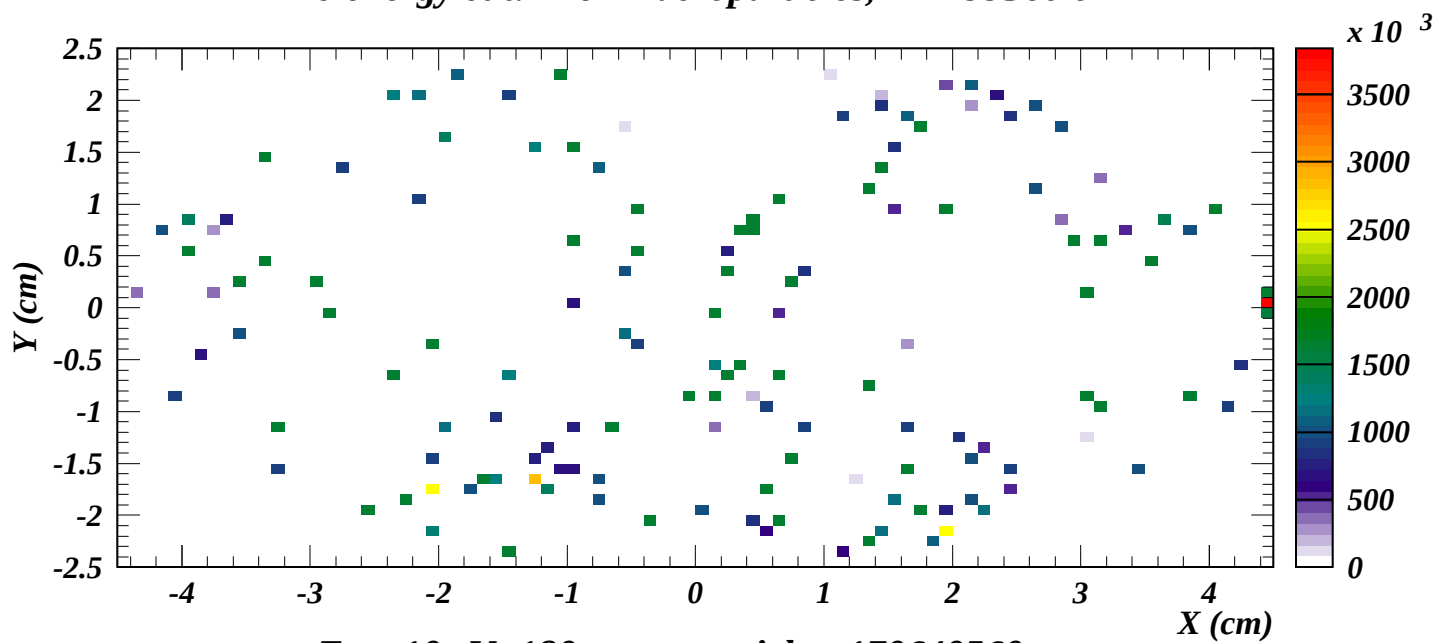
$E_{kin} > 10 \text{ eV}$: 159 macroparticles, 150602352 e-

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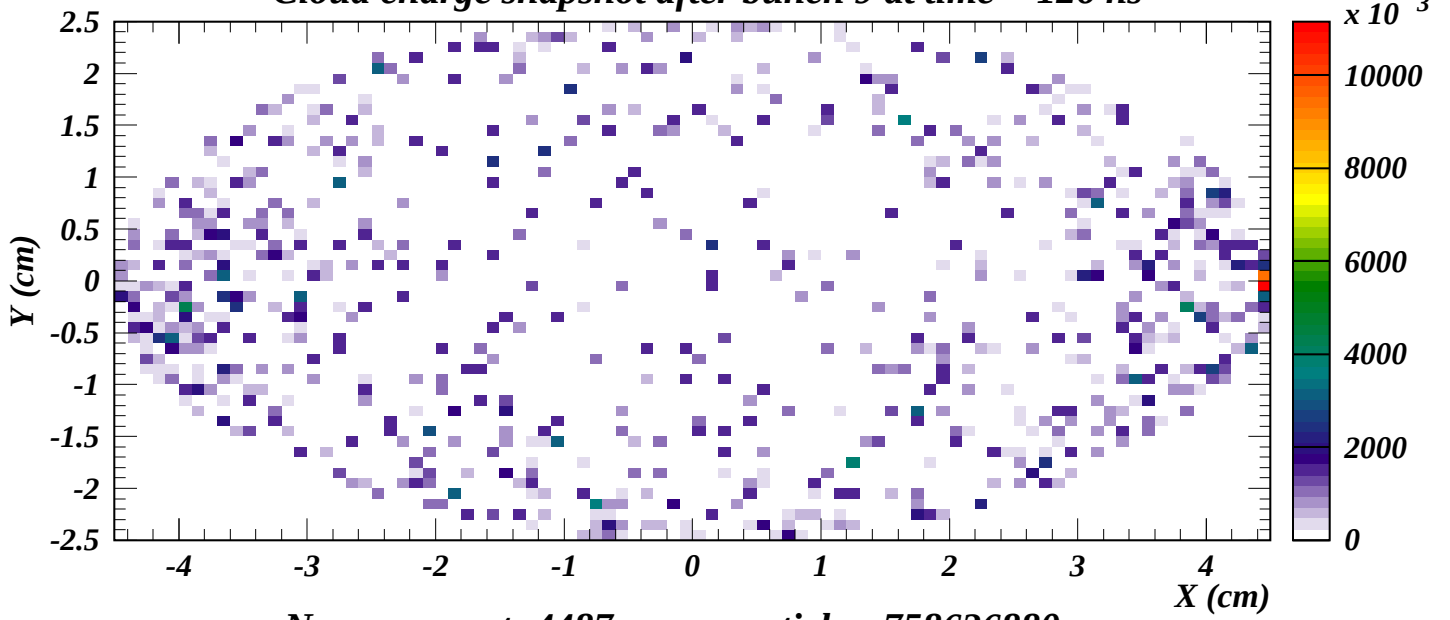
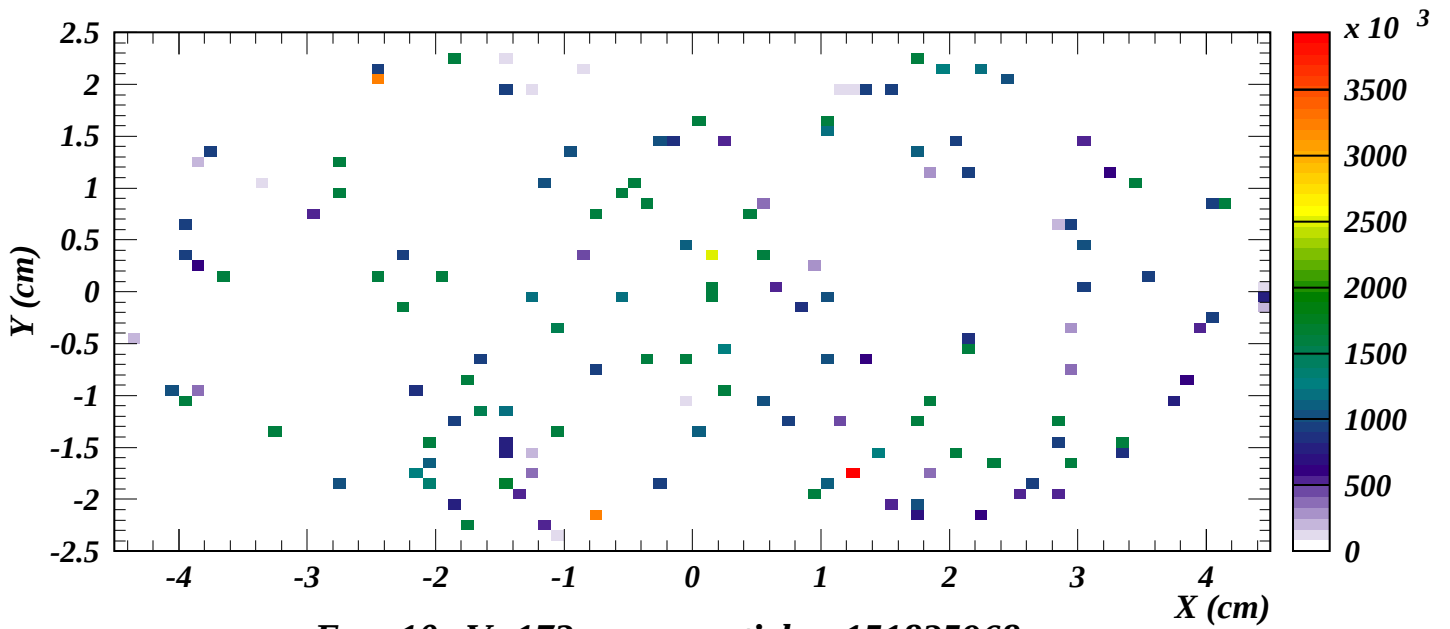
Cloud charge snapshot after bunch 8 at time = 112 ns



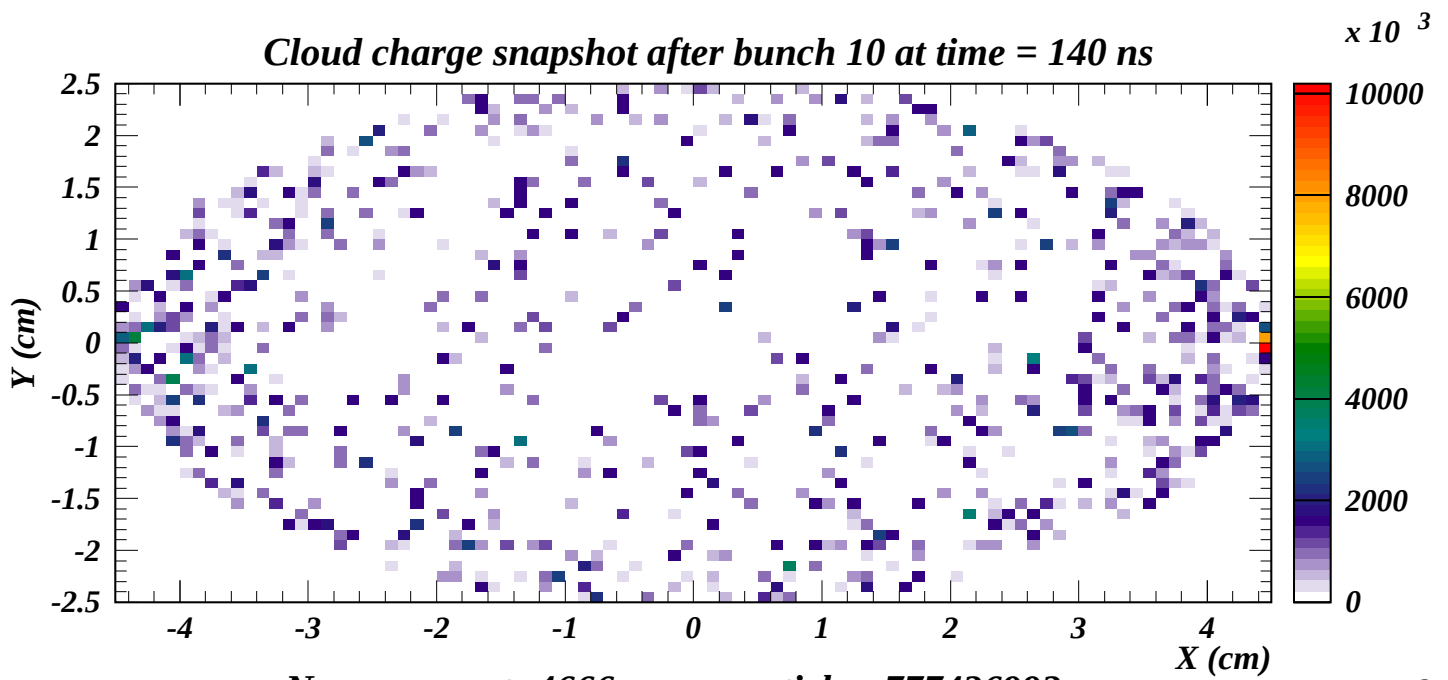
No energy cut: 4261 macroparticles, 742199360 e-



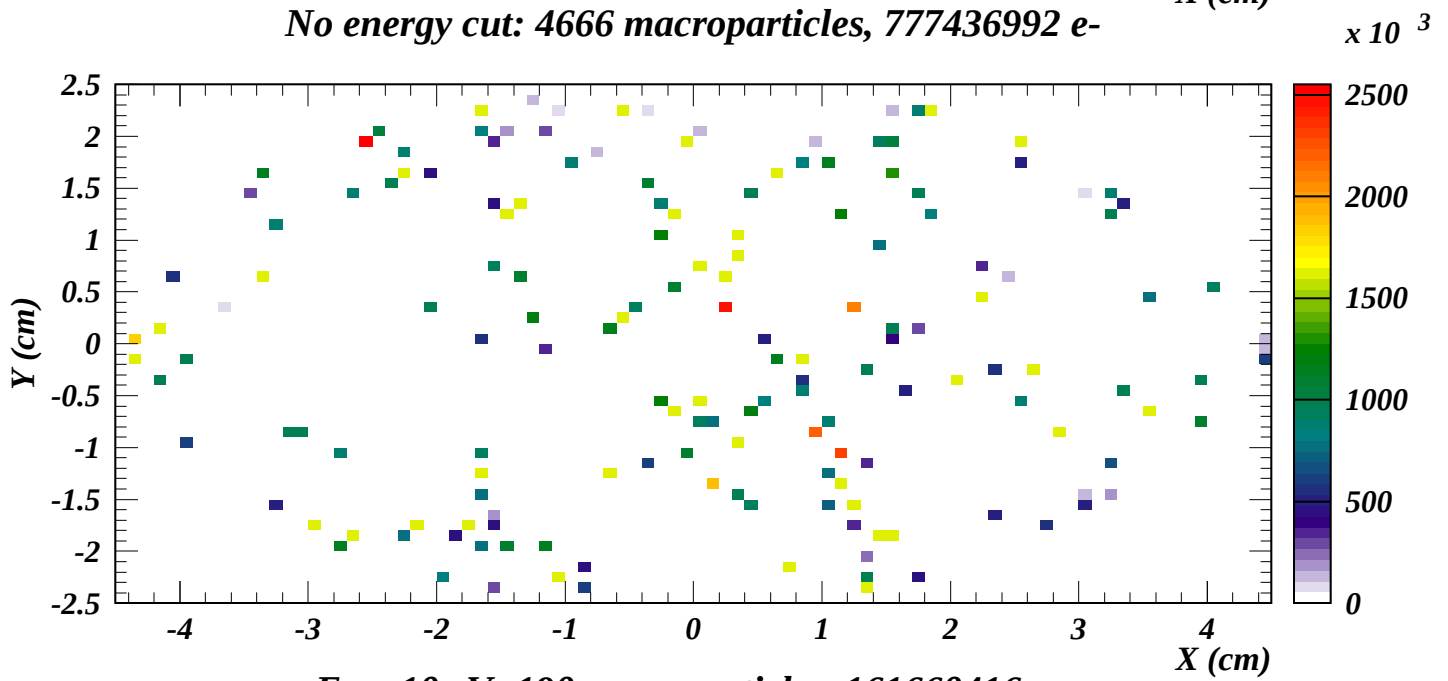
$E_{kin} > 10 \text{ eV}$: 180 macroparticles, 170640560 e-

Cloud charge snapshot after bunch 9 at time = 126 ns*No energy cut: 4487 macroparticles, 758626880 e-* *$E_{kin} > 10$ eV: 172 macroparticles, 151825968 e-*

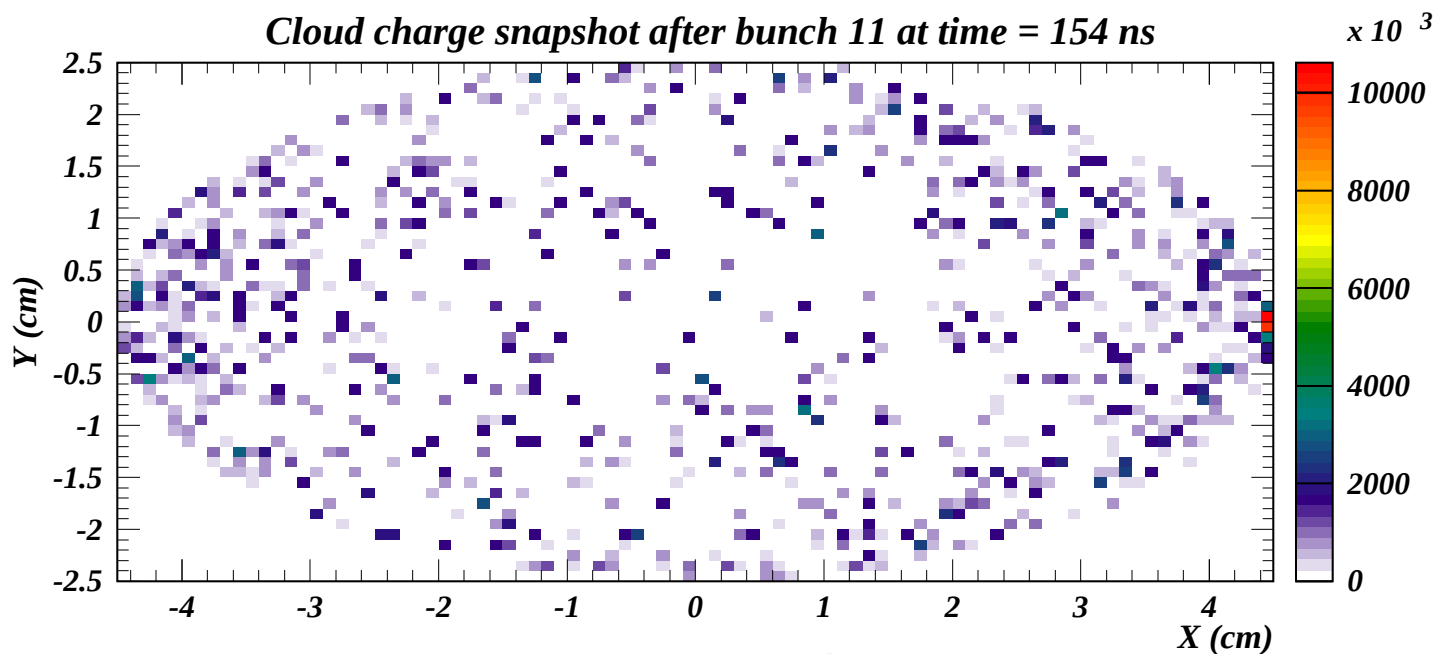
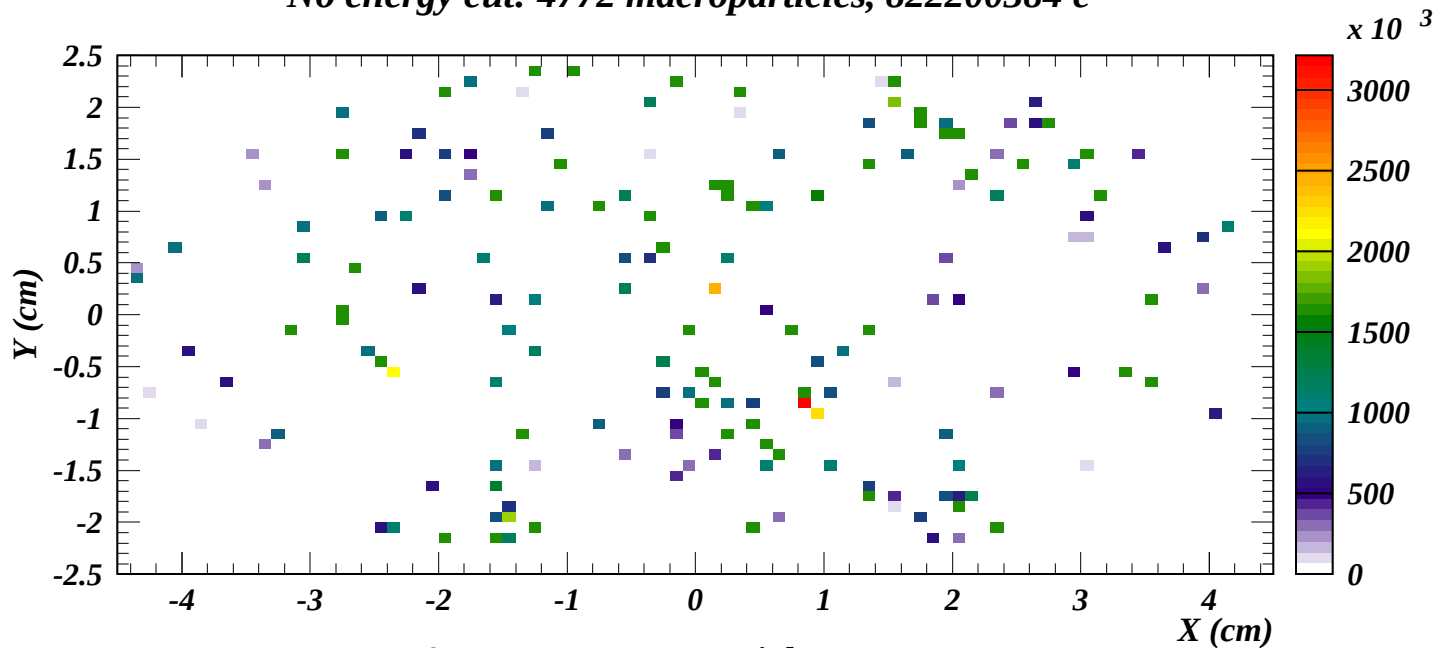
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No energy cut: 4666 macroparticles, 777436992 e-

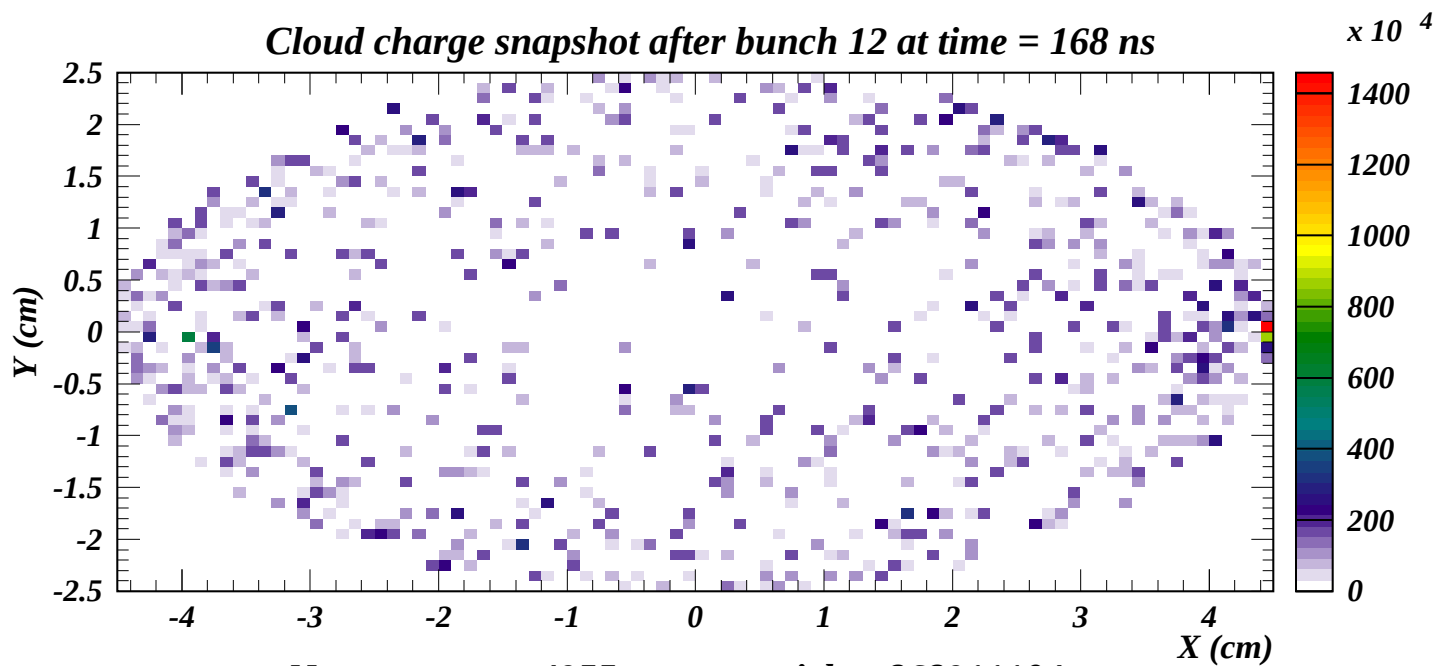


$E_{kin} > 10$ eV: 190 macroparticles, 161660416 e-

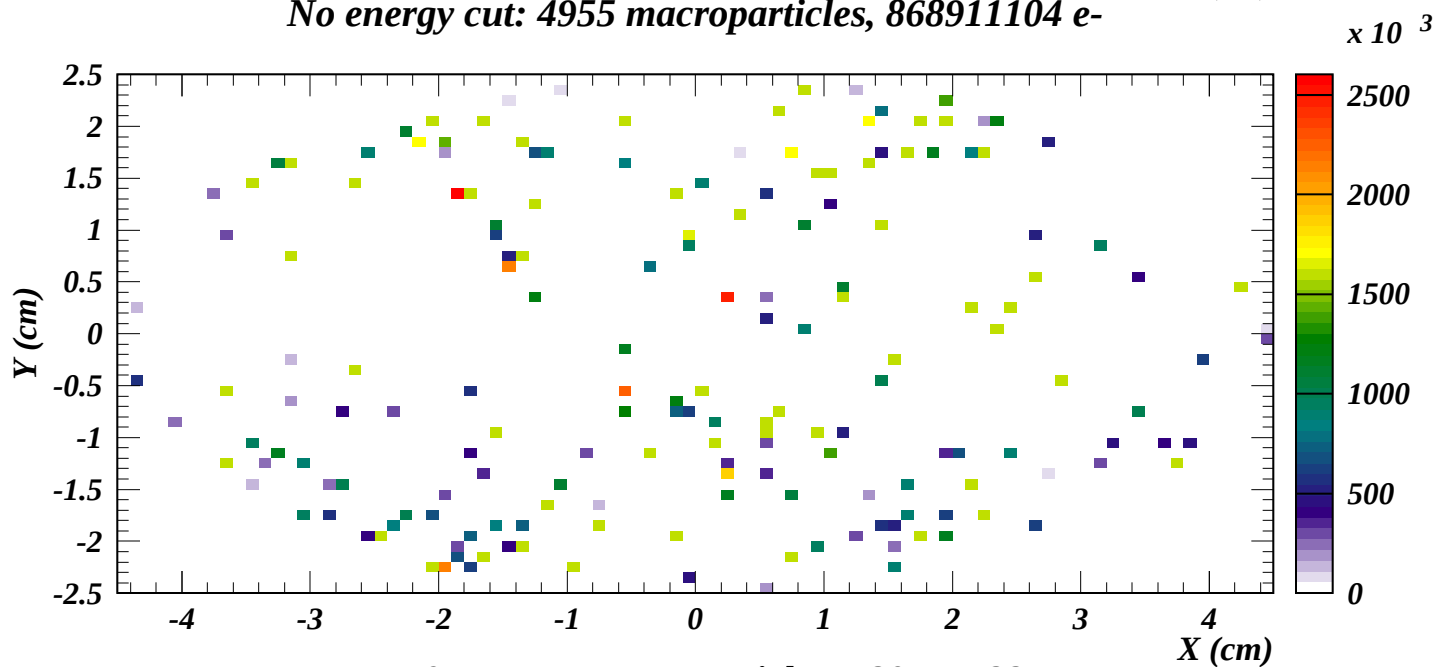
Cloud charge snapshot after bunch 11 at time = 154 ns*No energy cut: 4772 macroparticles, 822200384 e-* *$E_{kin} > 10 \text{ eV}$: 195 macroparticles, 176693632 e-*

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Cloud charge snapshot after bunch 12 at time = 168 ns



No energy cut: 4955 macroparticles, 868911104 e-

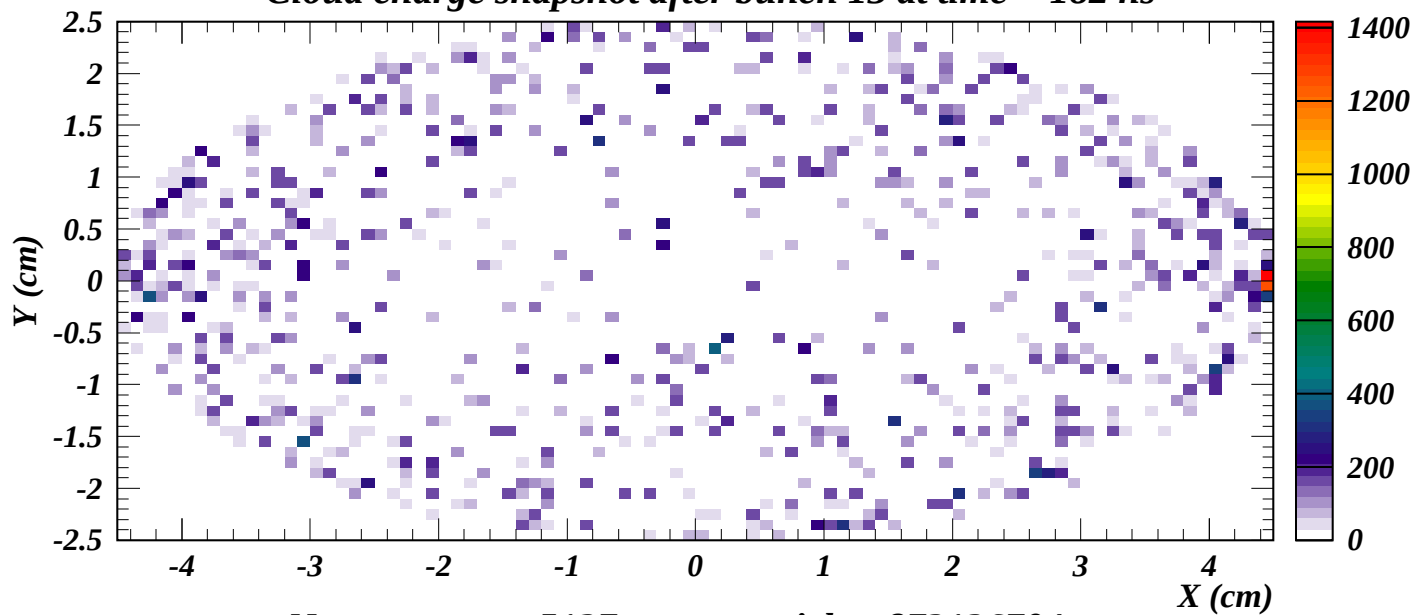


$E_{kin} > 10 \text{ eV}$: 219 macroparticles, 180721488 e-

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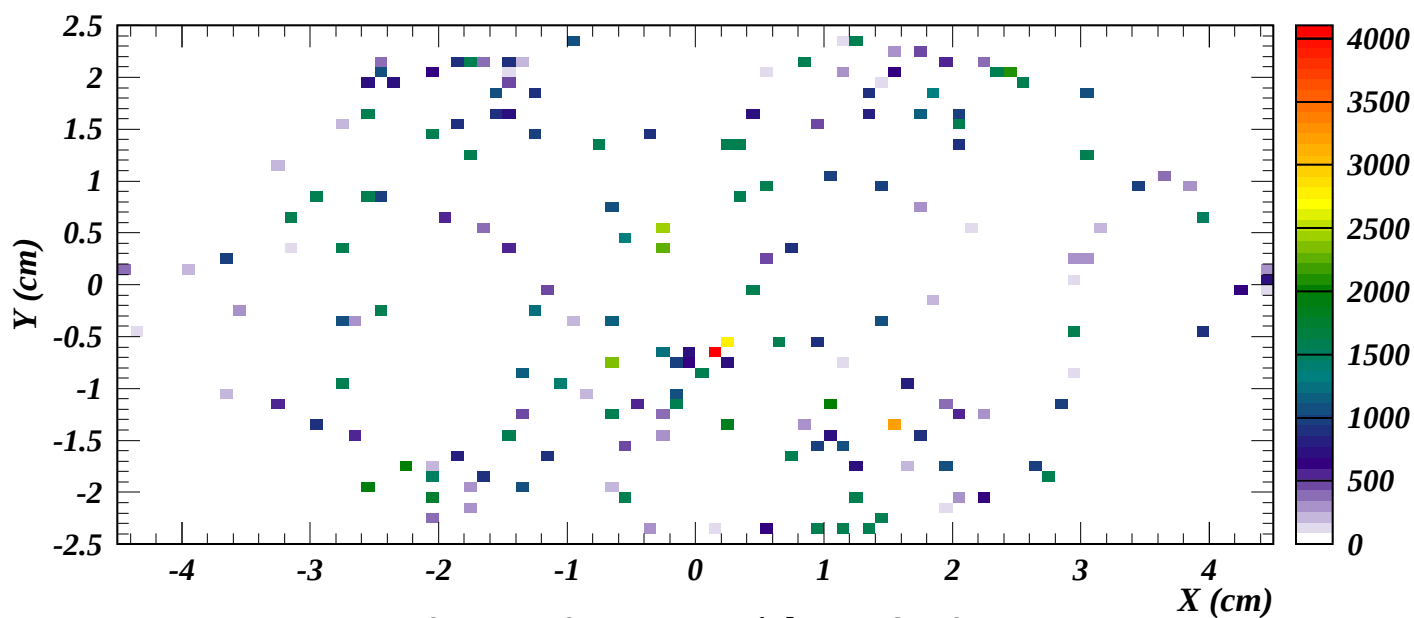
$\times 10^4$

Cloud charge snapshot after bunch 13 at time = 182 ns

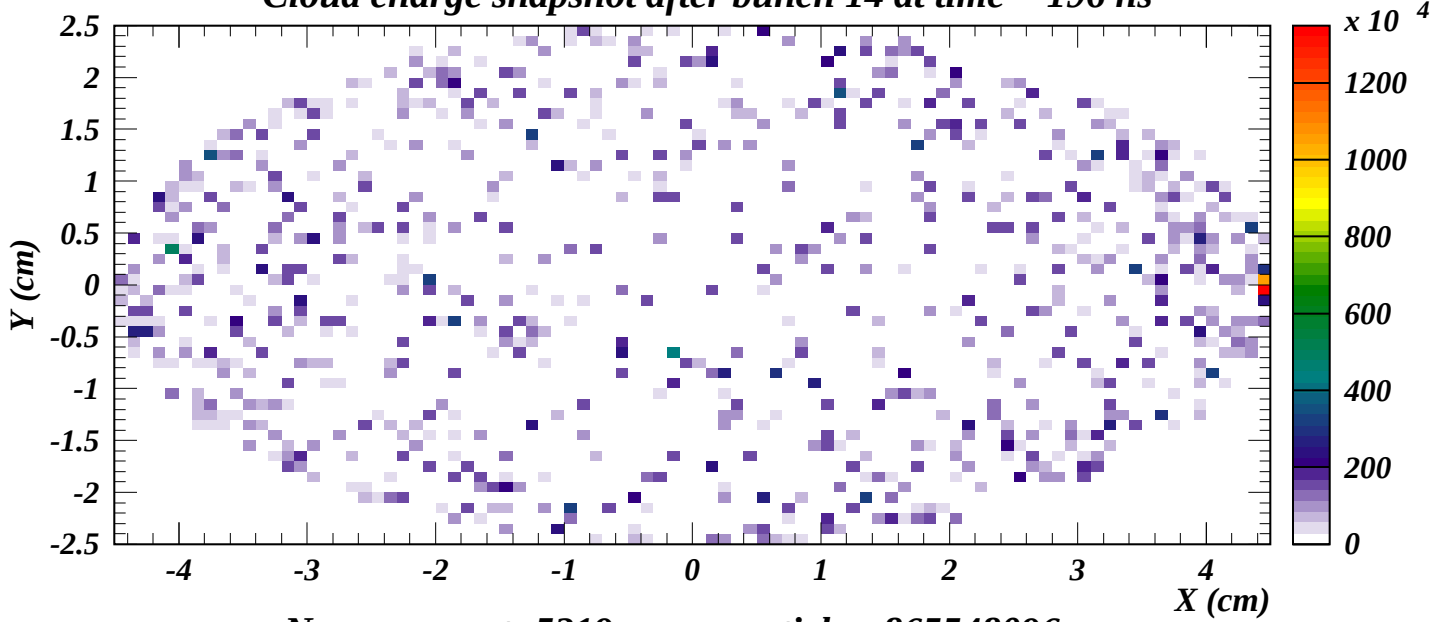
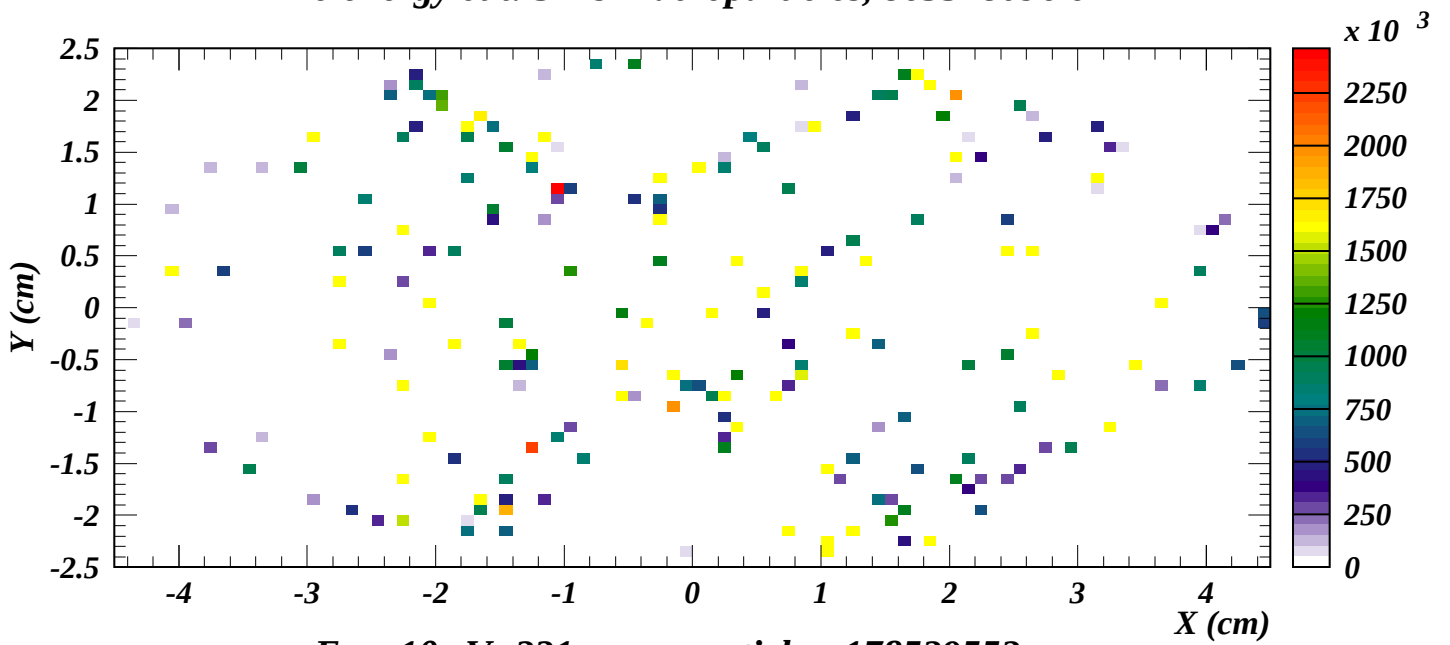


No energy cut: 5127 macroparticles, 873136704 e-

$\times 10^3$

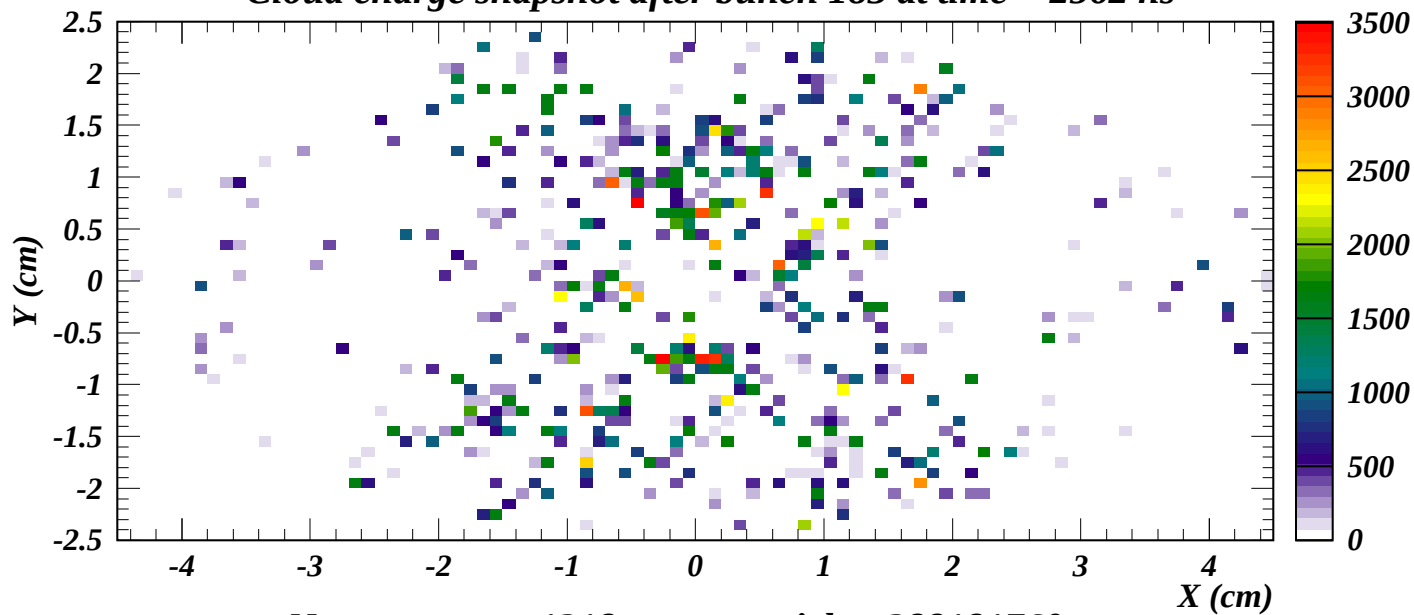


$E_{kin} > 10$ eV: 230 macroparticles, 168310144 e-

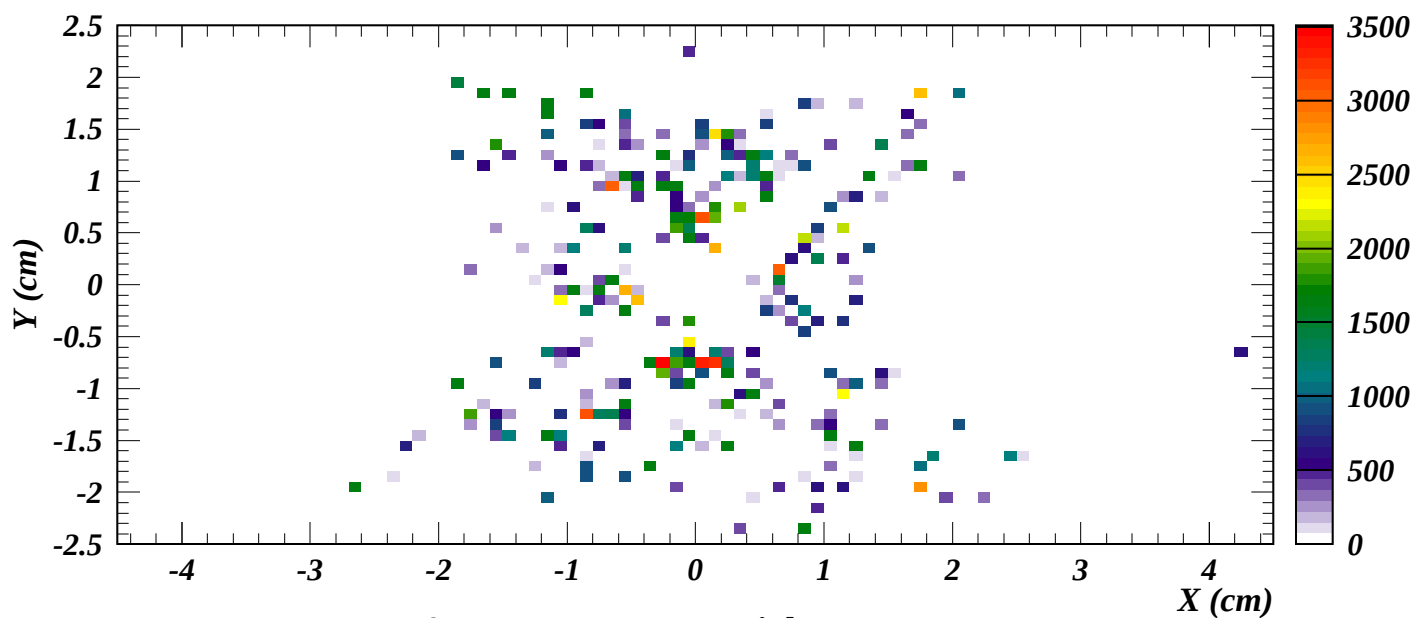
Cloud charge snapshot after bunch 14 at time = 196 ns*No energy cut: 5219 macroparticles, 865548096 e-* *$E_{kin} > 10$ eV: 231 macroparticles, 178529552 e-*

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 $\times 10^3$

Cloud charge snapshot after bunch 183 at time = 2562 ns



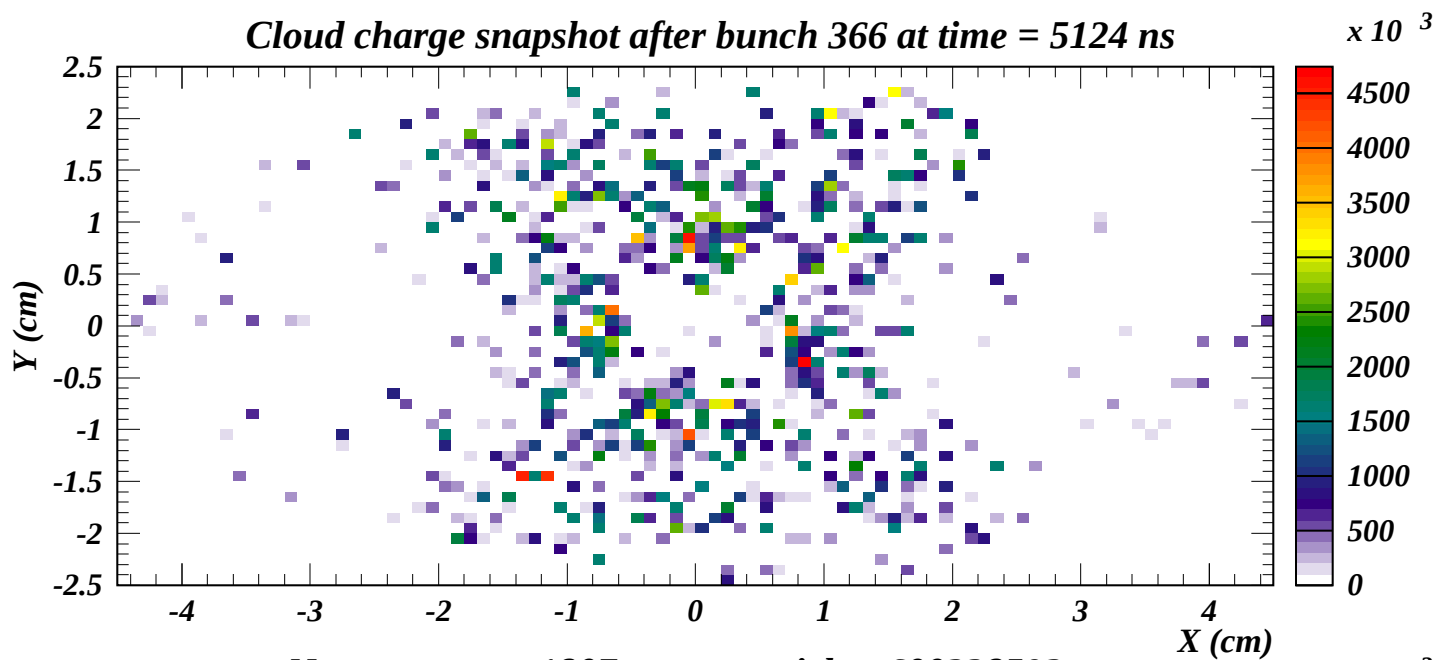
No energy cut: 1318 macroparticles, 388181760 e-



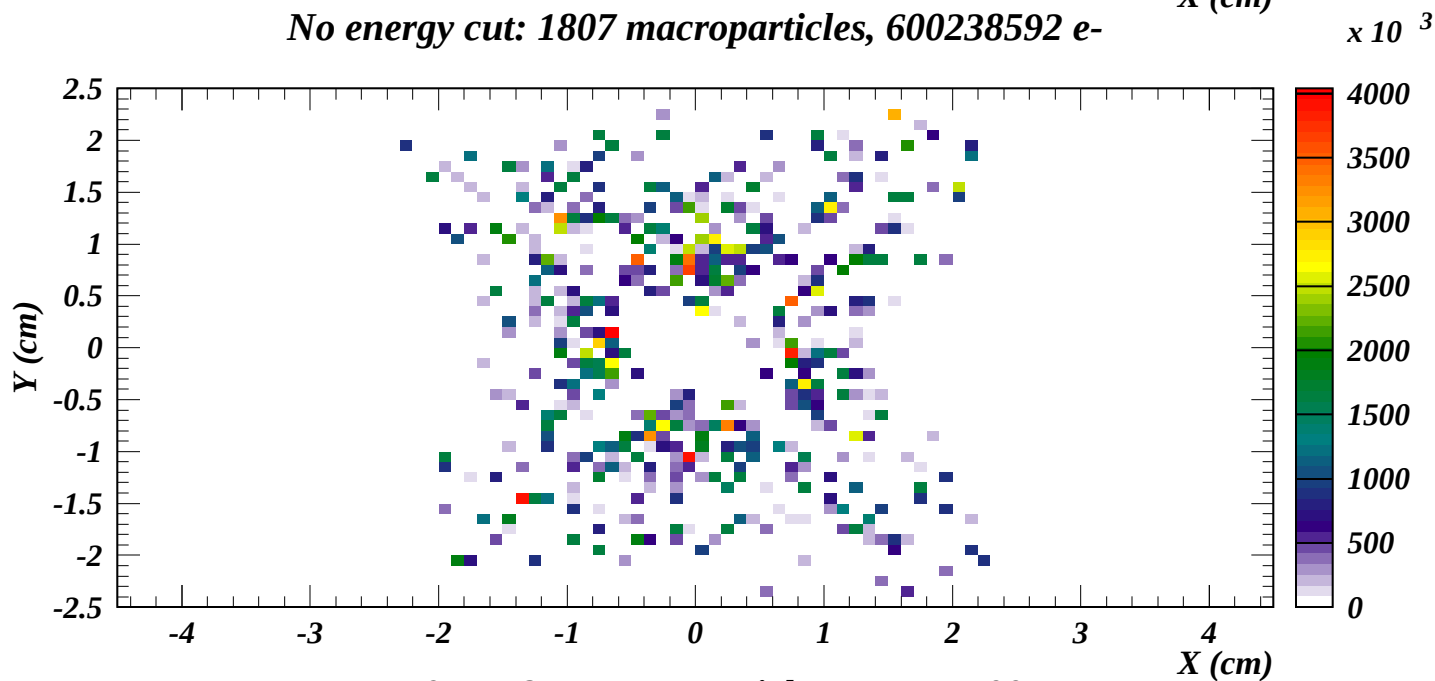
$E_{kin} > 10$ eV: 369 macroparticles, 241124464 e-

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Cloud charge snapshot after bunch 366 at time = 5124 ns



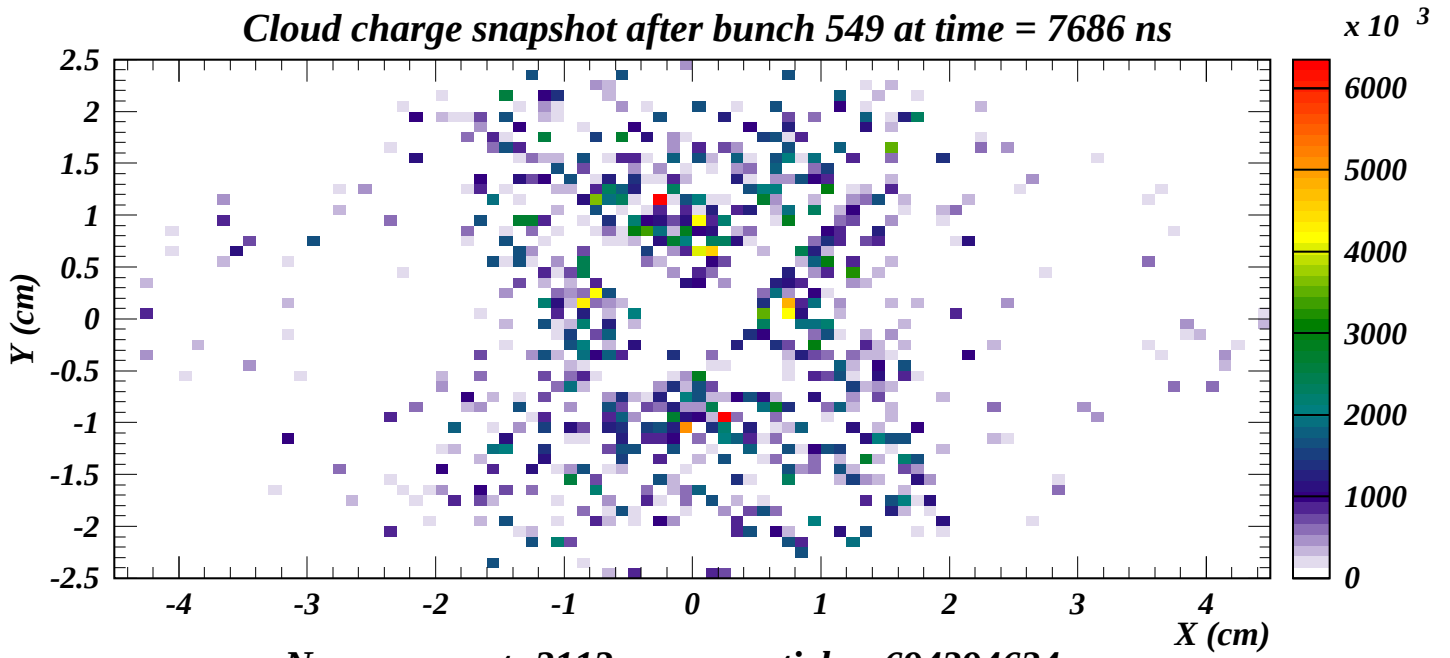
No energy cut: 1807 macroparticles, 600238592 e-



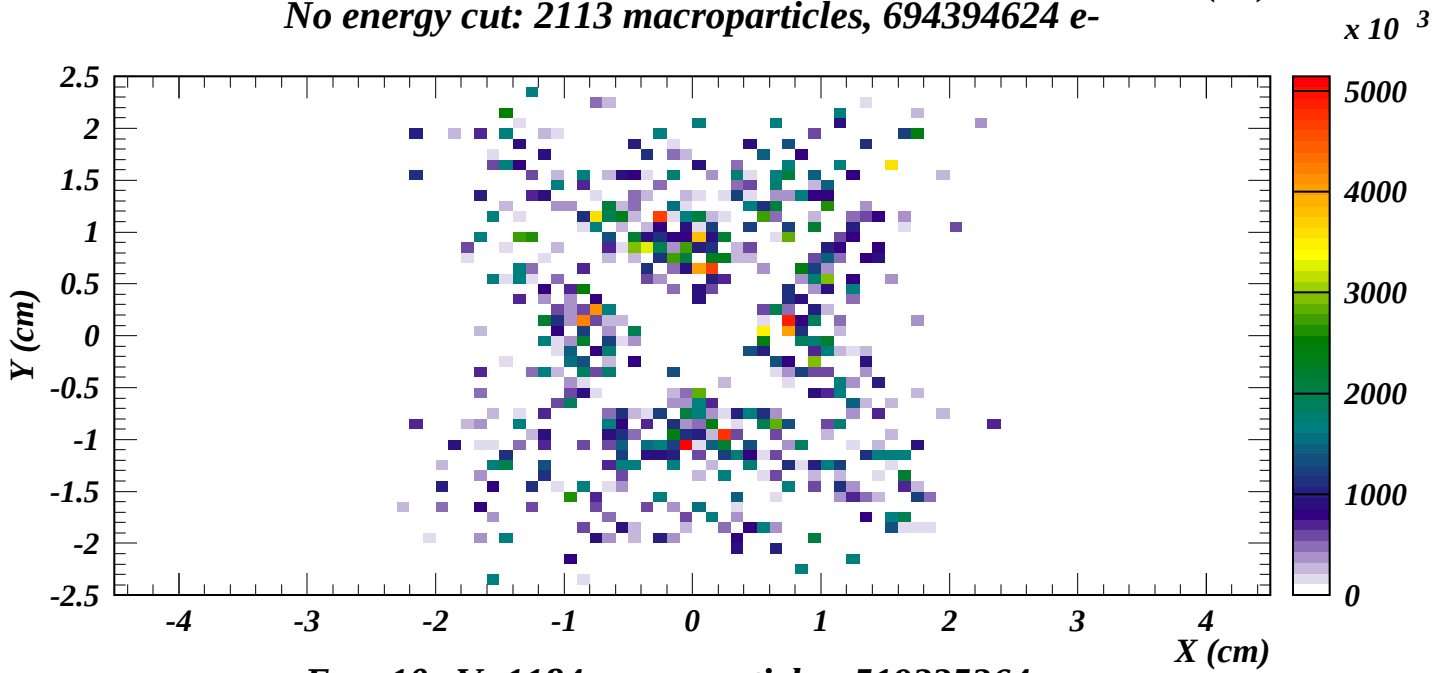
$E_{kin} > 10$ eV: 833 macroparticles, 413566400 e-

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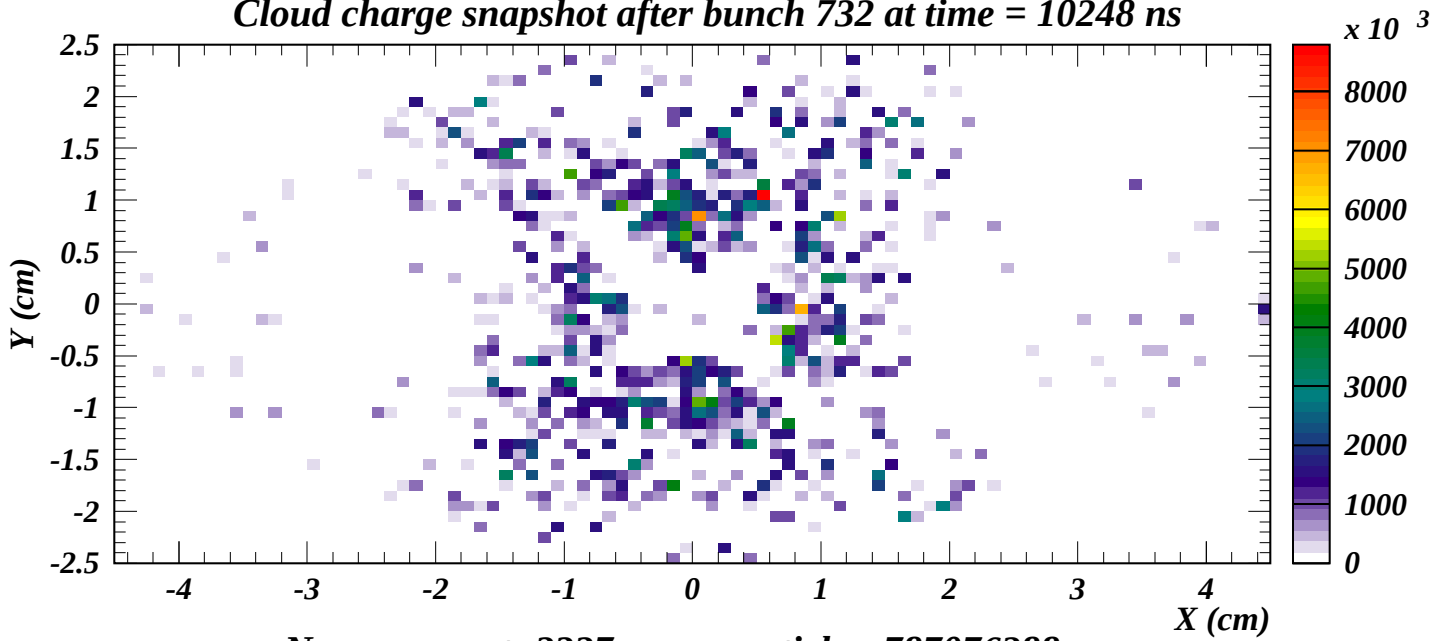
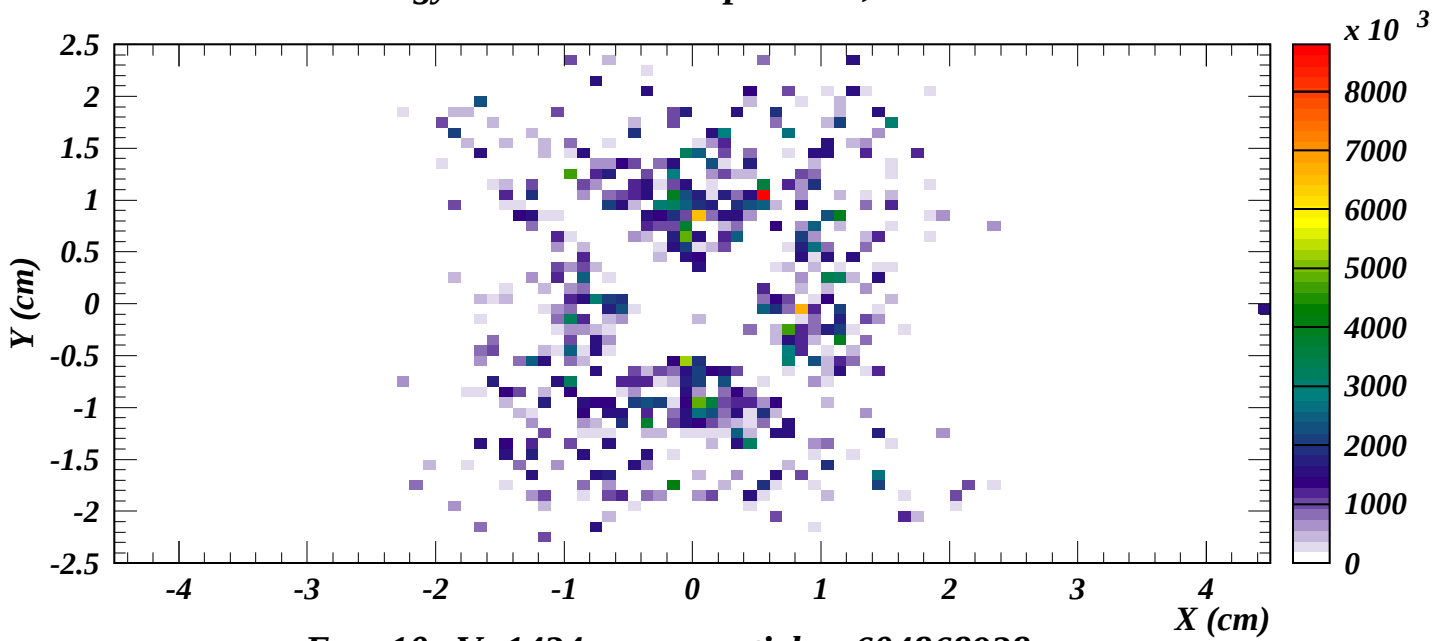
Cloud charge snapshot after bunch 549 at time = 7686 ns



No energy cut: 2113 macroparticles, 694394624 e-

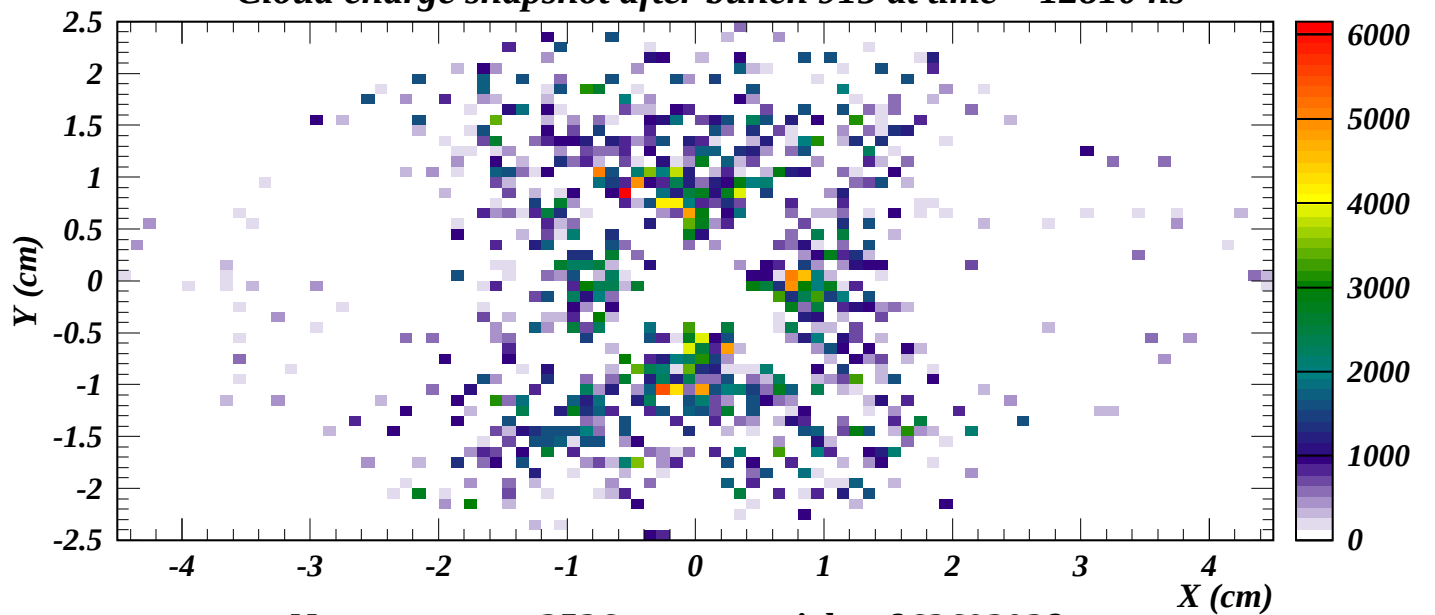


$E_{\text{kin}} > 10$ eV: 1184 macroparticles, 519235264 e-

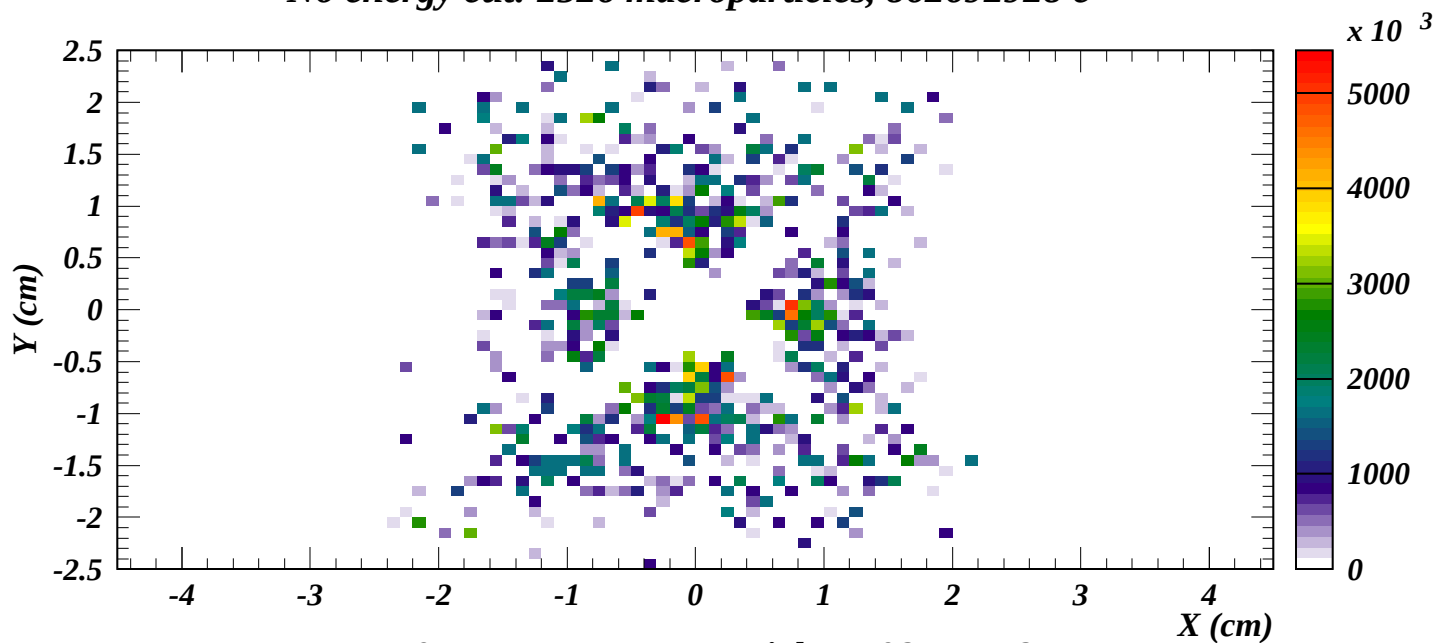
Cloud charge snapshot after bunch 732 at time = 10248 ns*No energy cut: 2327 macroparticles, 787076288 e-* *$E_{\text{kin}} > 10 \text{ eV}$: 1434 macroparticles, 604868928 e-*

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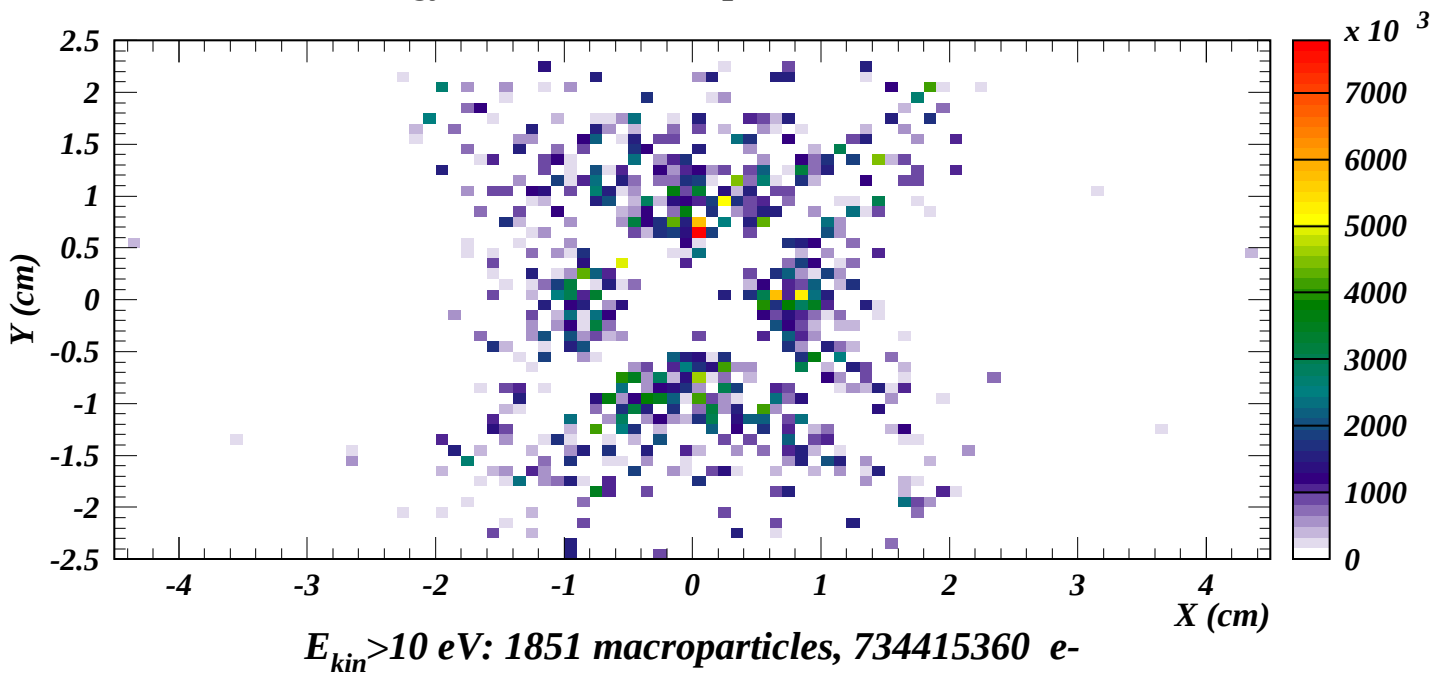
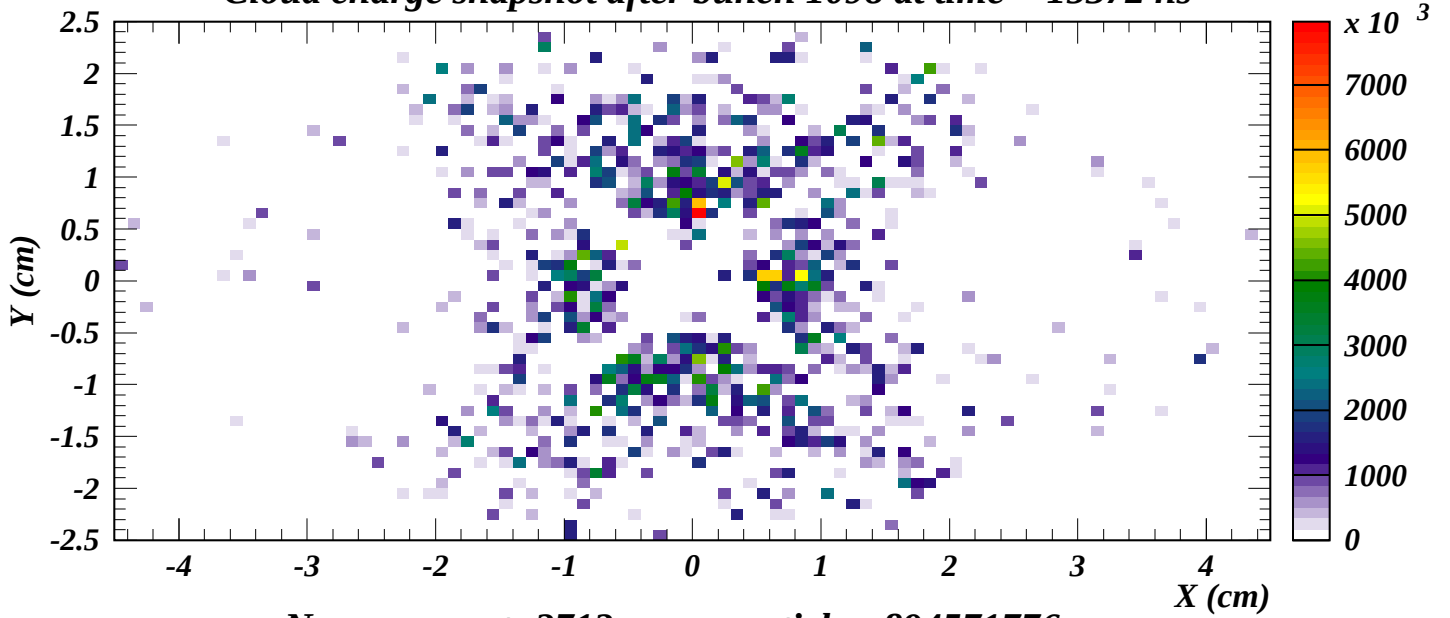
Cloud charge snapshot after bunch 915 at time = 12810 ns

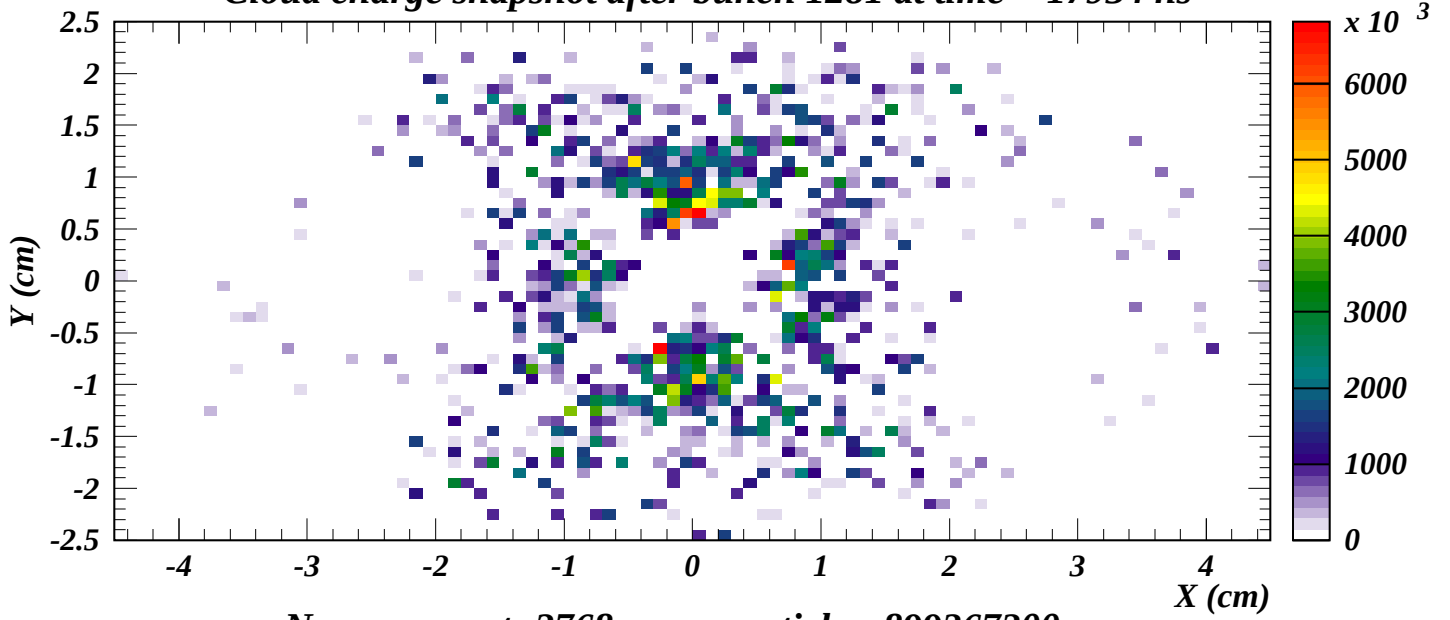
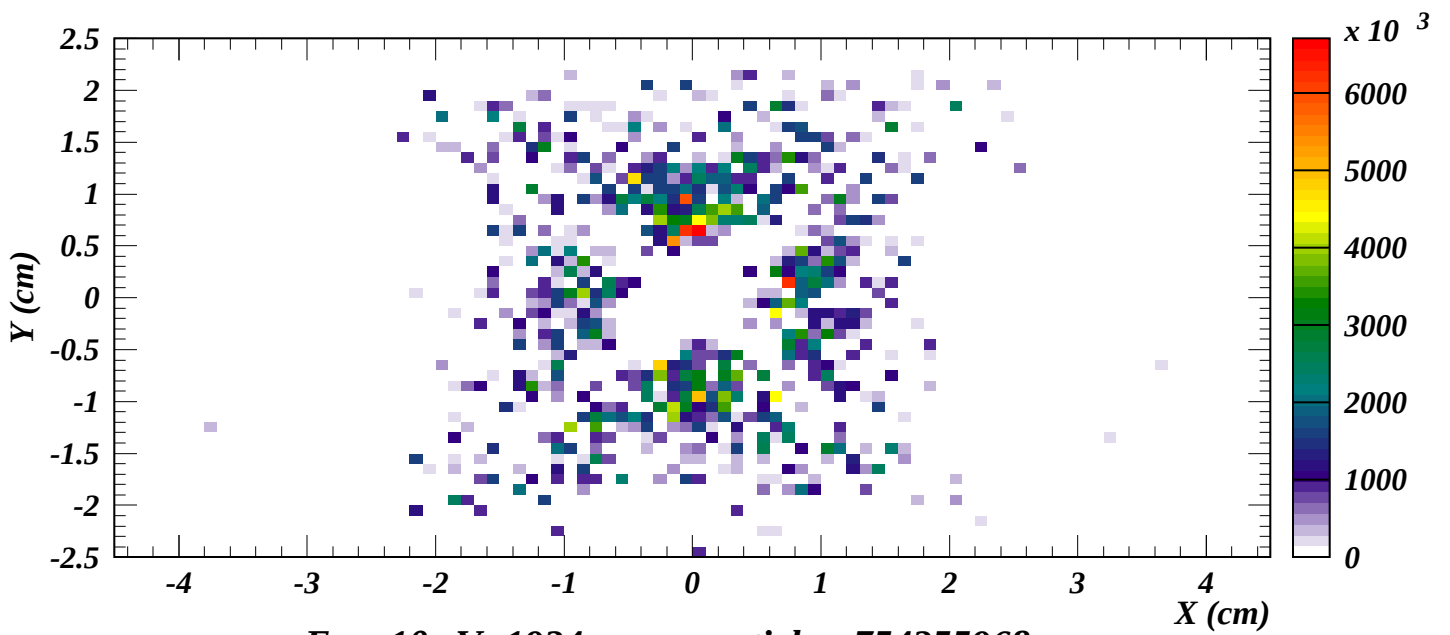


No energy cut: 2526 macroparticles, 862692928 e-

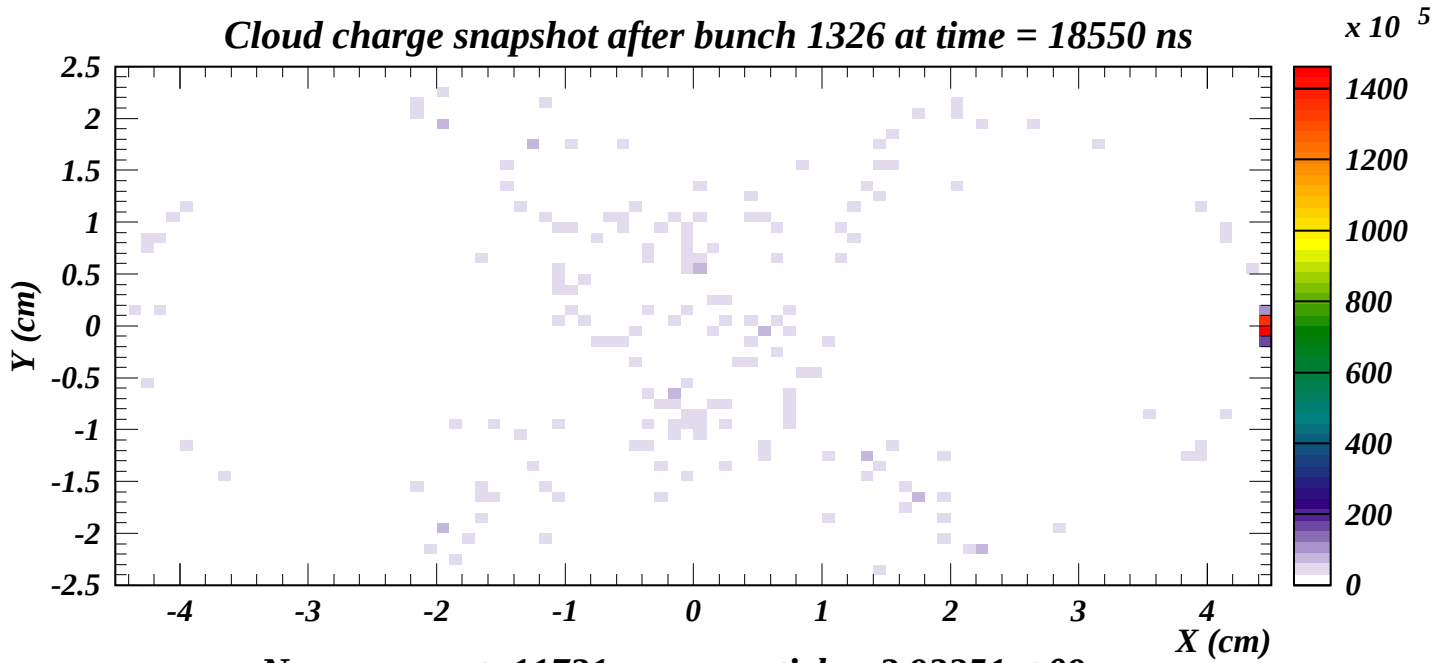


$E_{kin} > 10$ eV: 1645 macroparticles, 708672768 e-

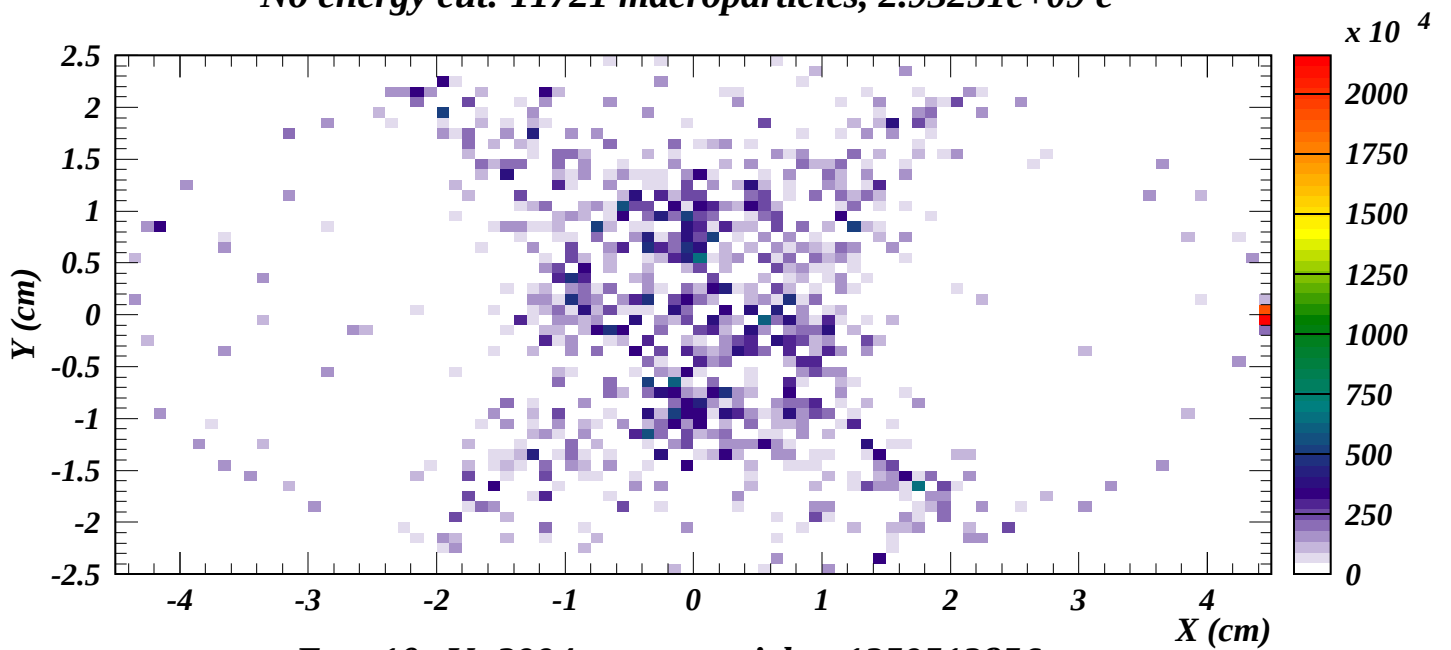
Cloud charge snapshot after bunch 1098 at time = 15372 ns

Cloud charge snapshot after bunch 1281 at time = 17934 ns*No energy cut: 2768 macroparticles, 899267200 e-* *$E_{\text{kin}} > 10$ eV: 1934 macroparticles, 754355968 e-*

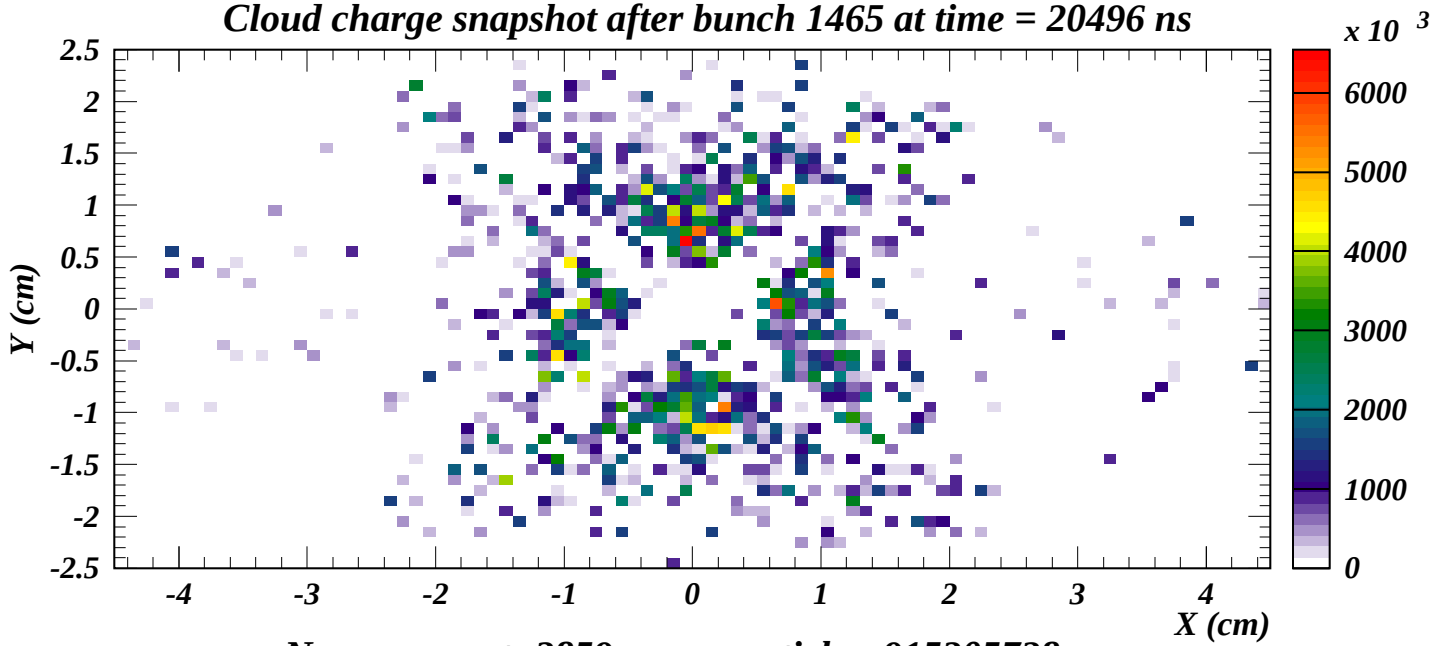
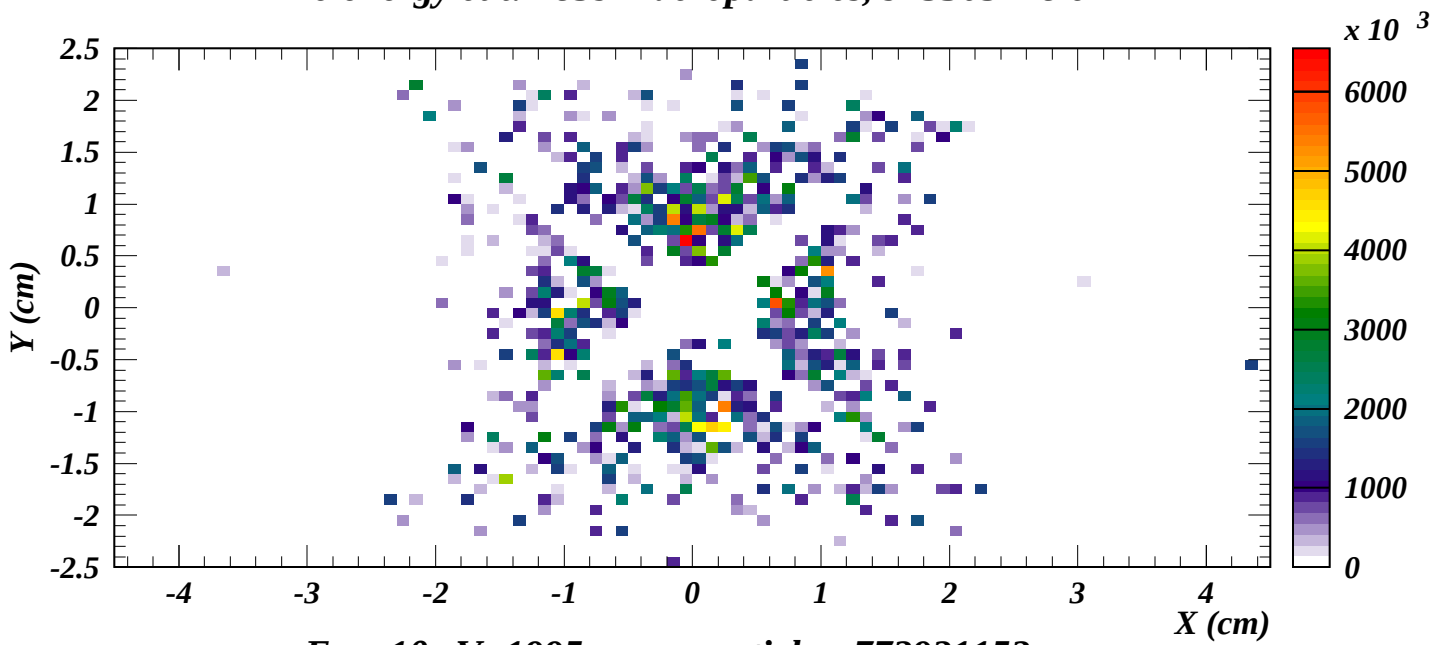
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No energy cut: 11721 macroparticles, $2.93251e+09 \text{ e-}$

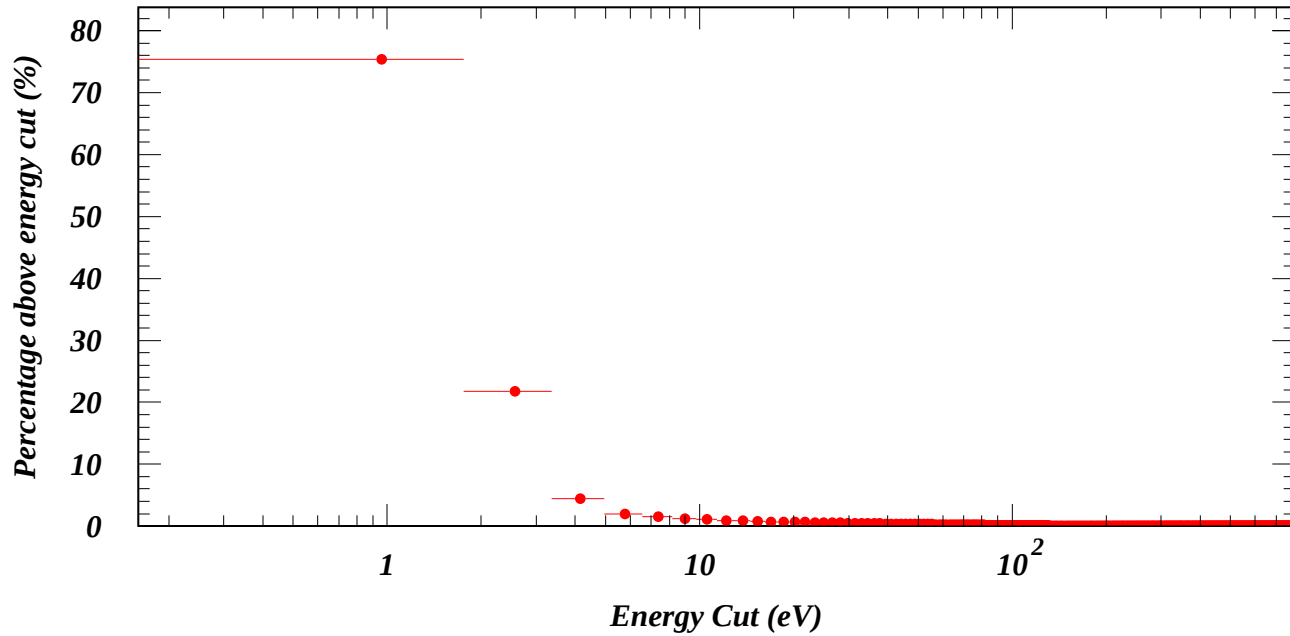
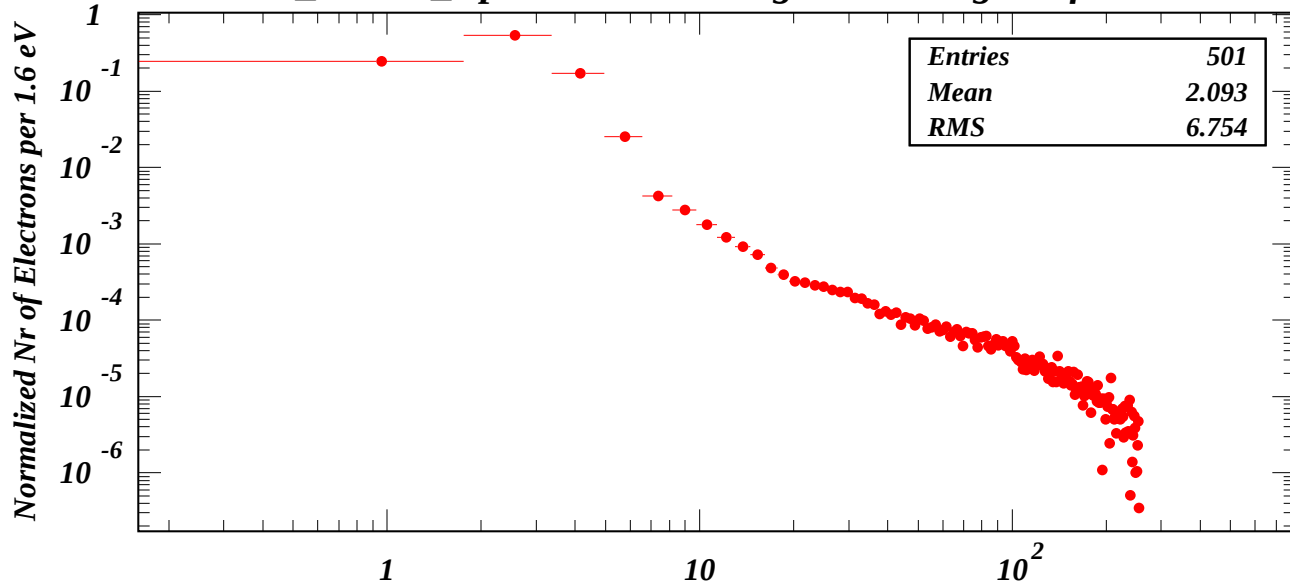


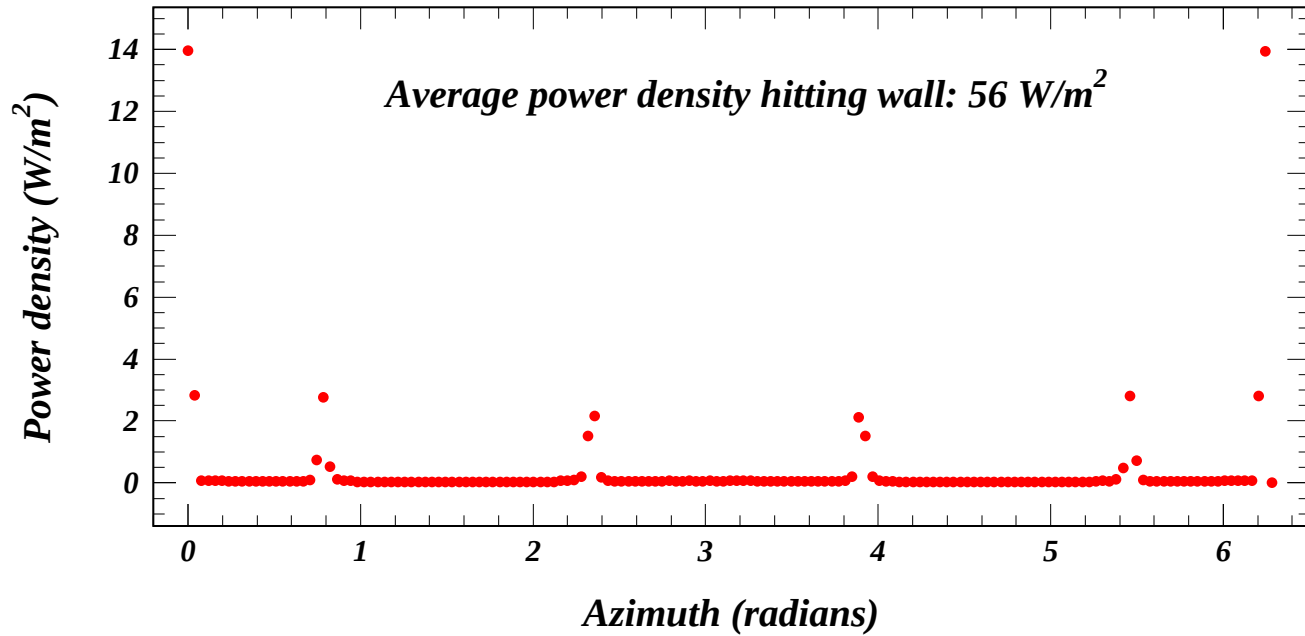
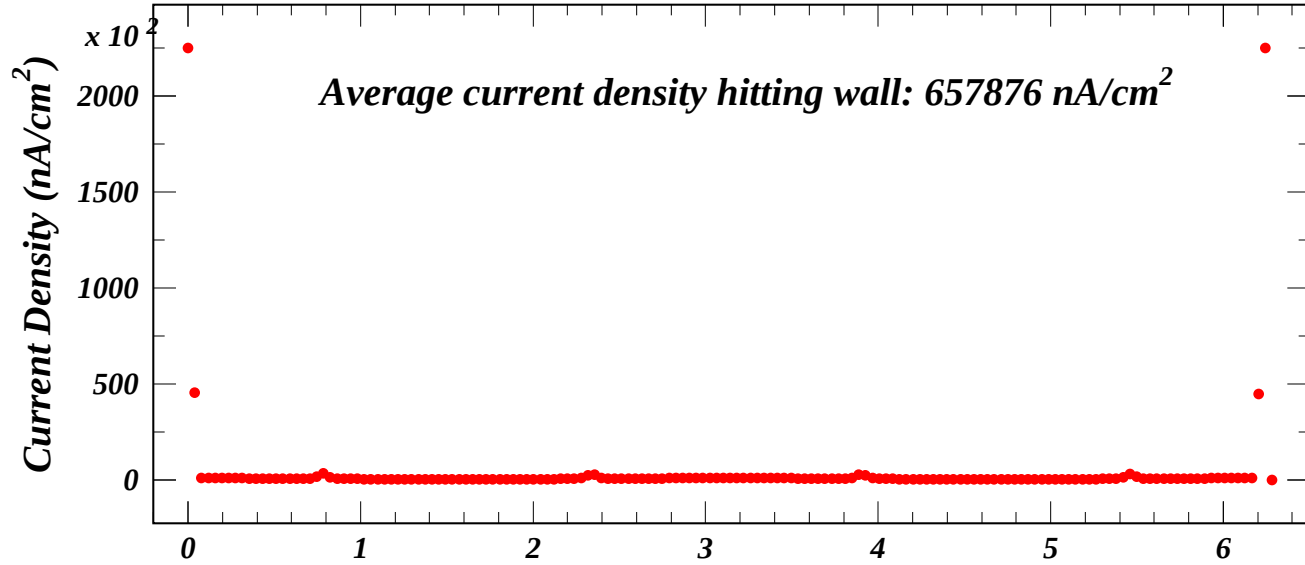
$E_{kin} > 10 \text{ eV}$: 2994 macroparticles, 1359513856 e-

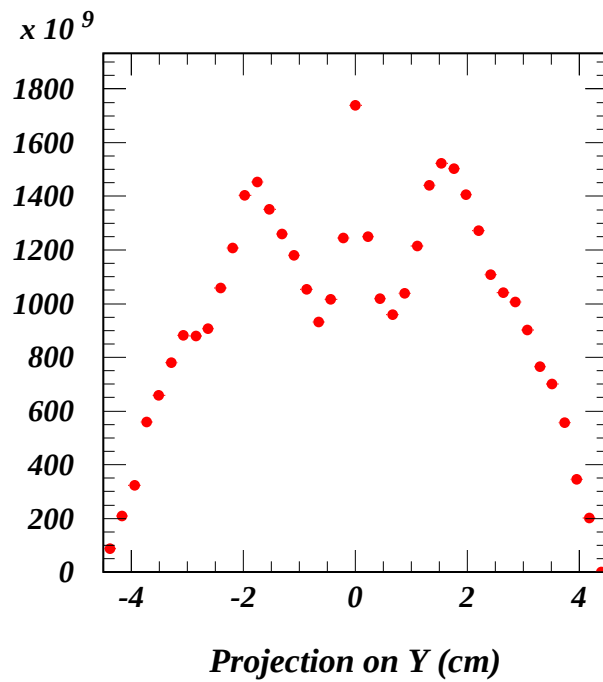
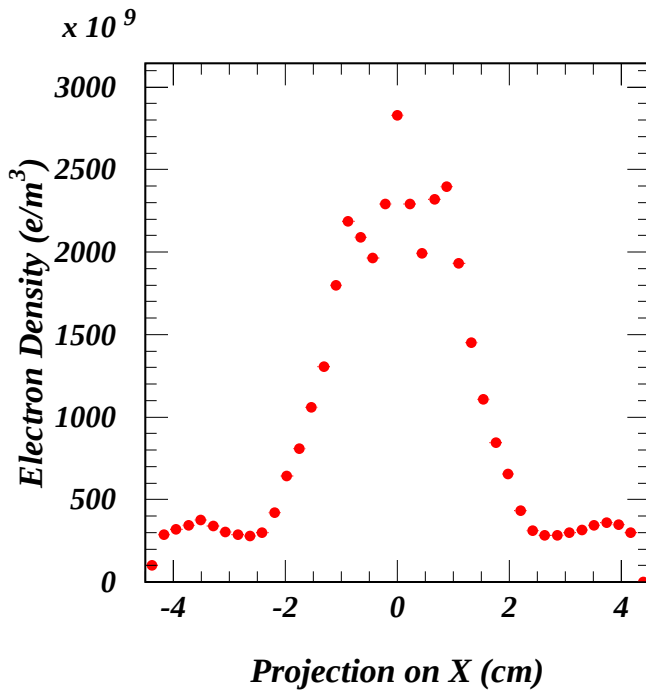
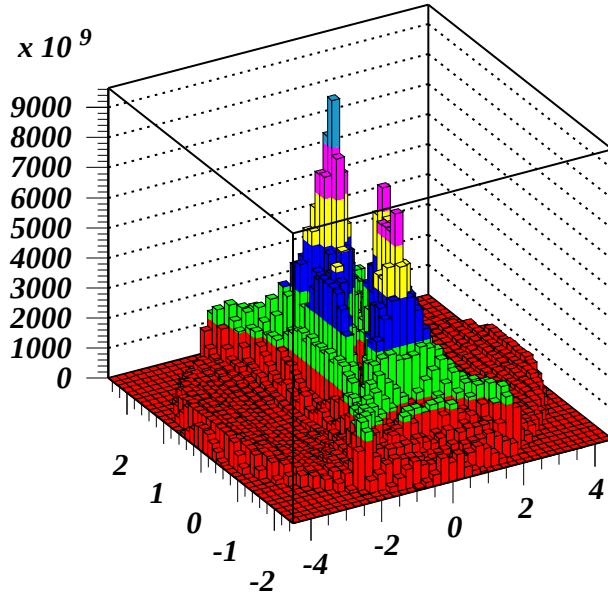
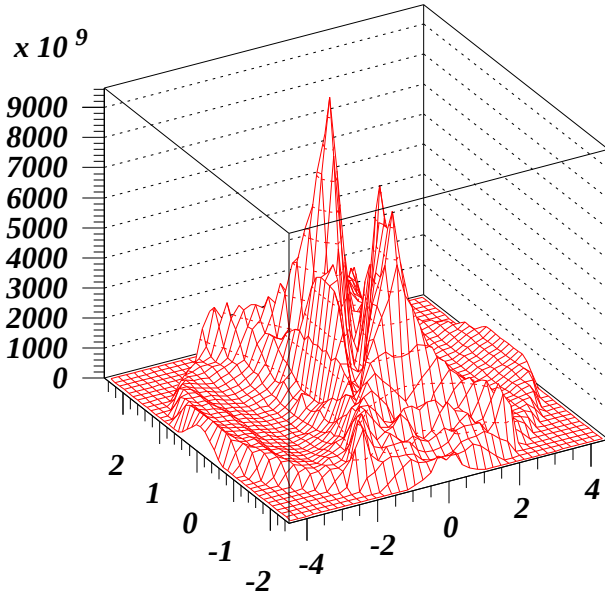
Cloud charge snapshot after bunch 1465 at time = 20496 ns*No energy cut: 2859 macroparticles, 915305728 e-* *$E_{\text{kin}} > 10$ eV: 1995 macroparticles, 772921152 e-*

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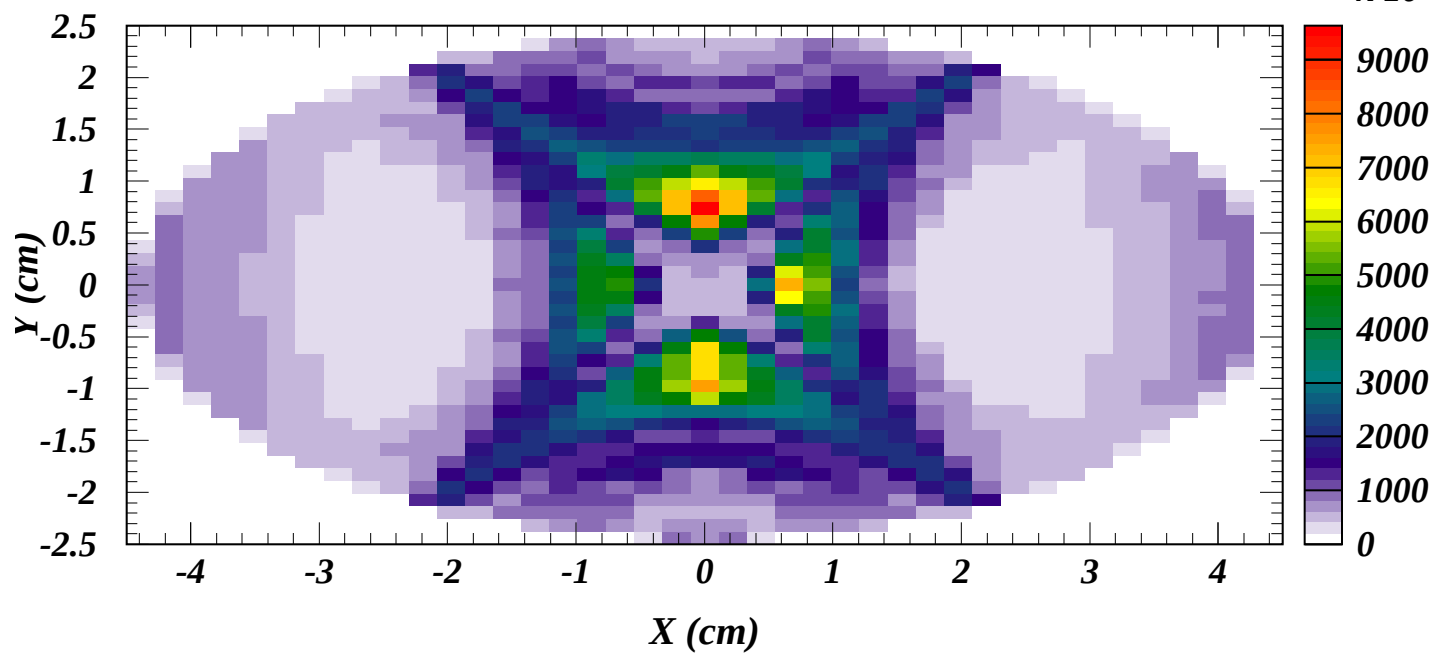
ECLOUD-TS0608_SEY20_Epk310: Time-Integrated Energies of Electrons Hitting Wall



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

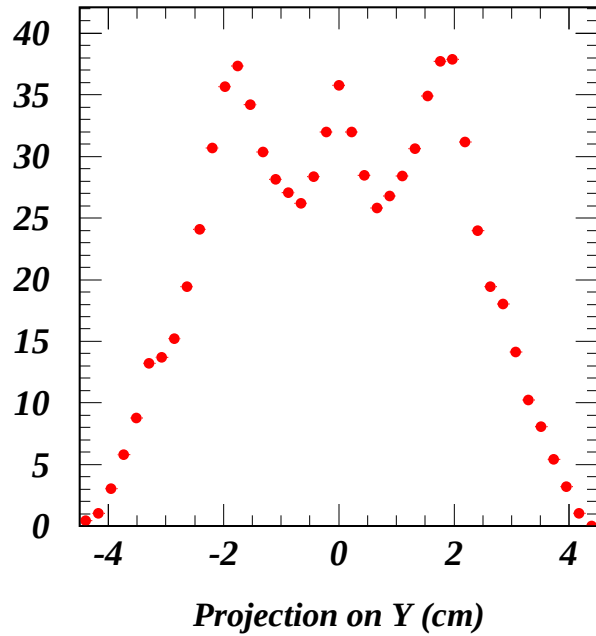
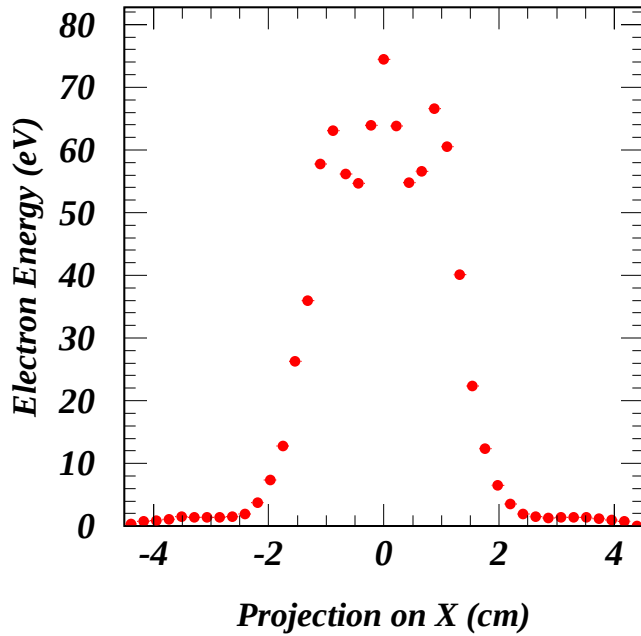
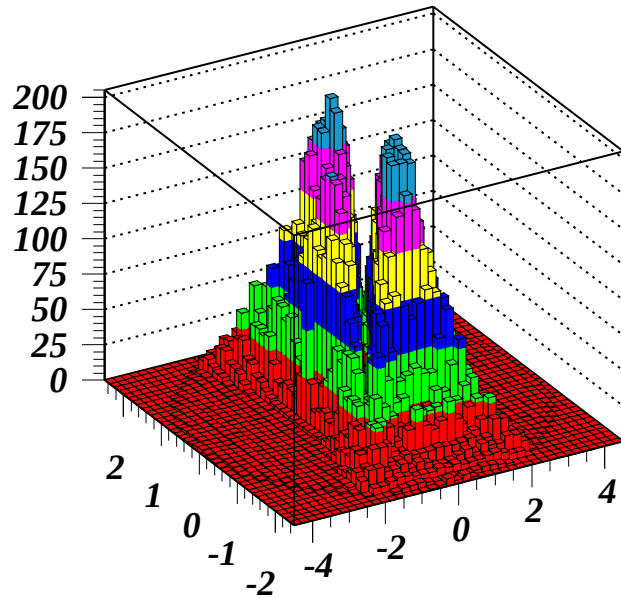
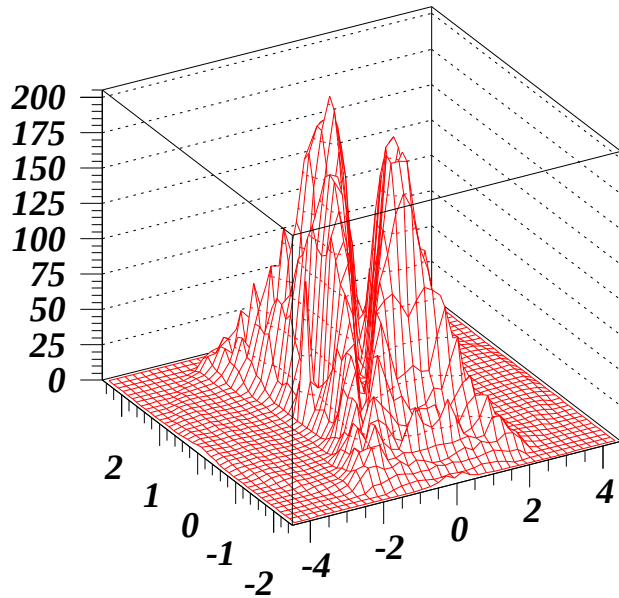
ECLOUD-TS0608_SEY20_Epk310: Cloud Density (e/m^3) Averaged Over 20510 ns

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



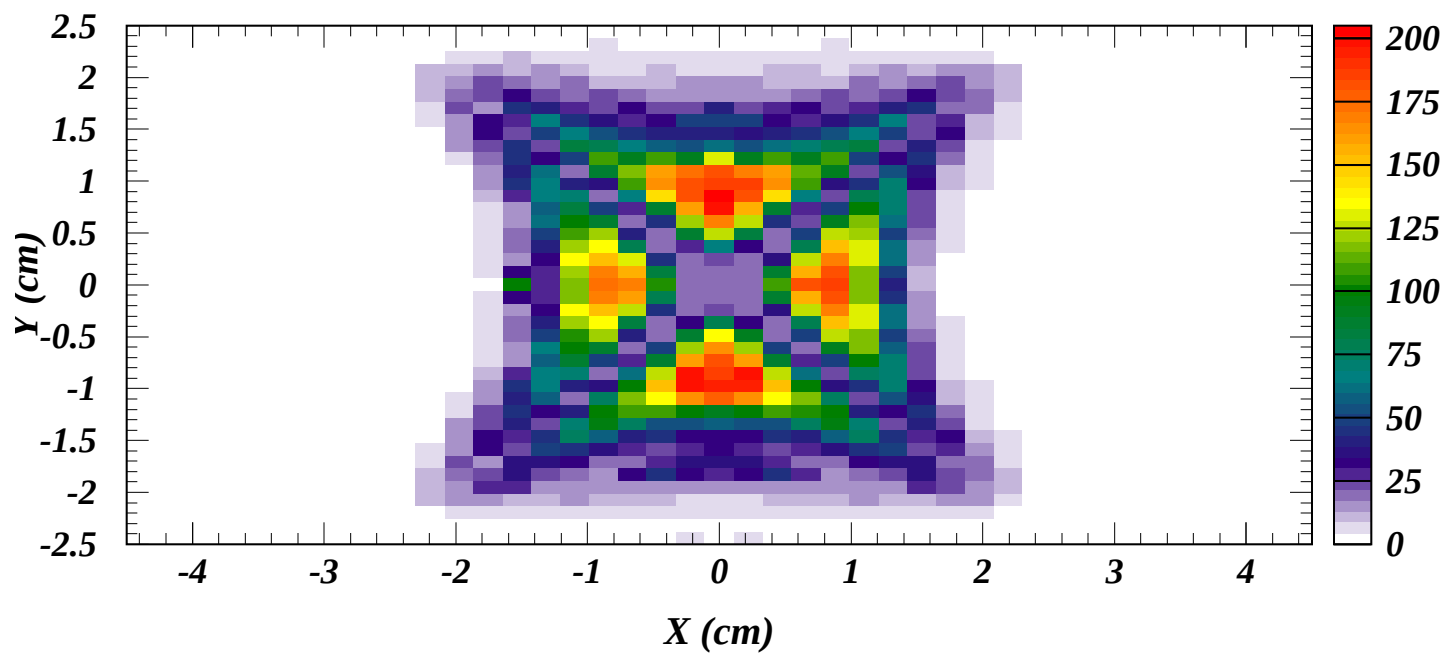
10/03/17 09.48

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

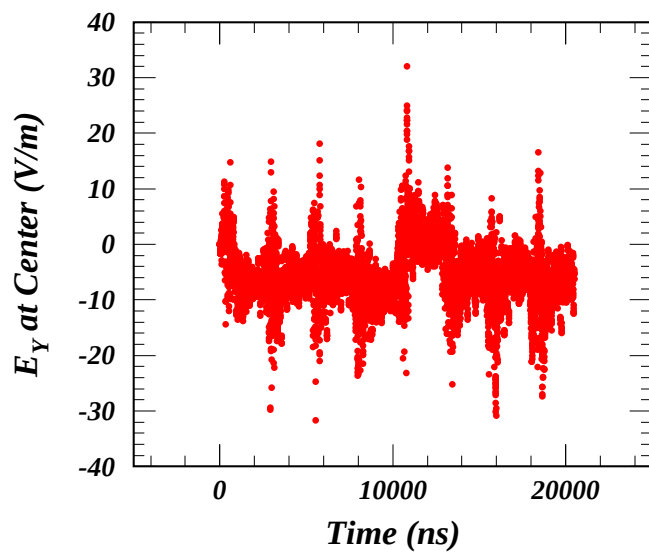
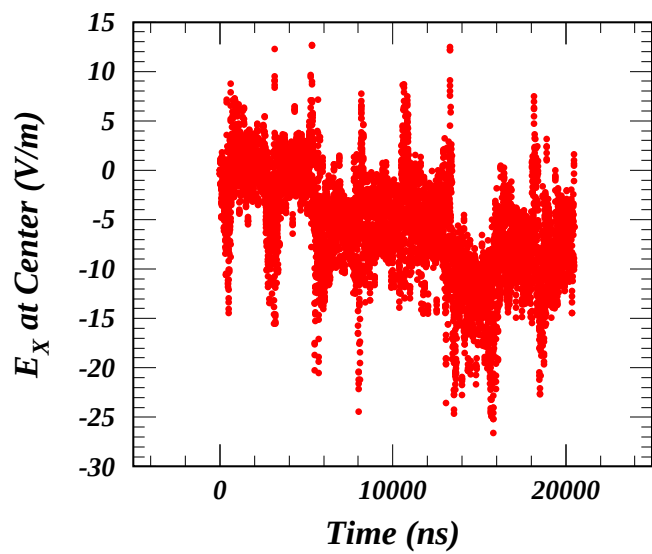


10/03/17 09.48

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



ECLOUD-TS0608_SEY20_Epk310: Electric Field at Beam



ECLOUD-TS0608_SEY20_Epk310Electric Field Gradients at Beam

