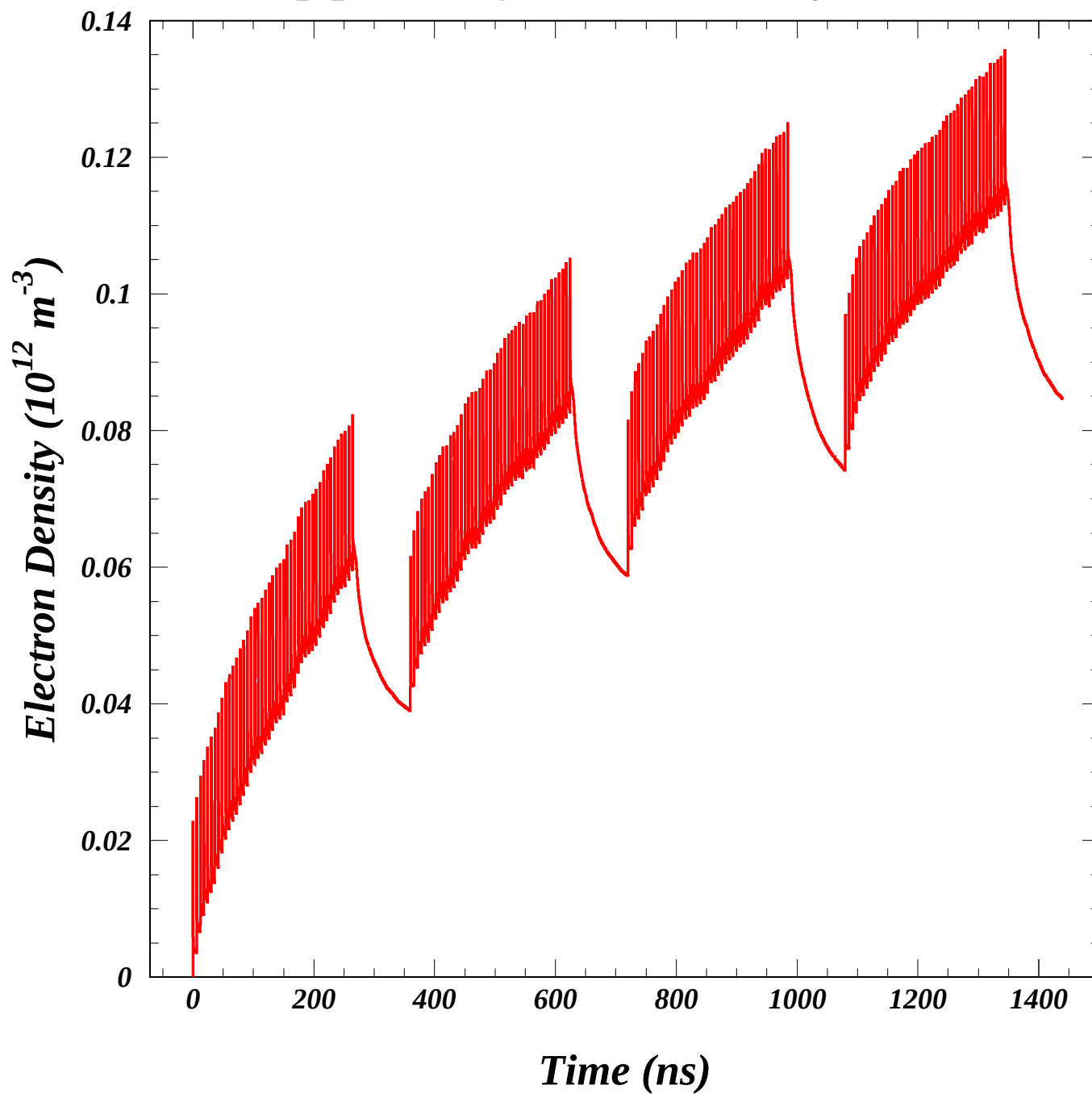
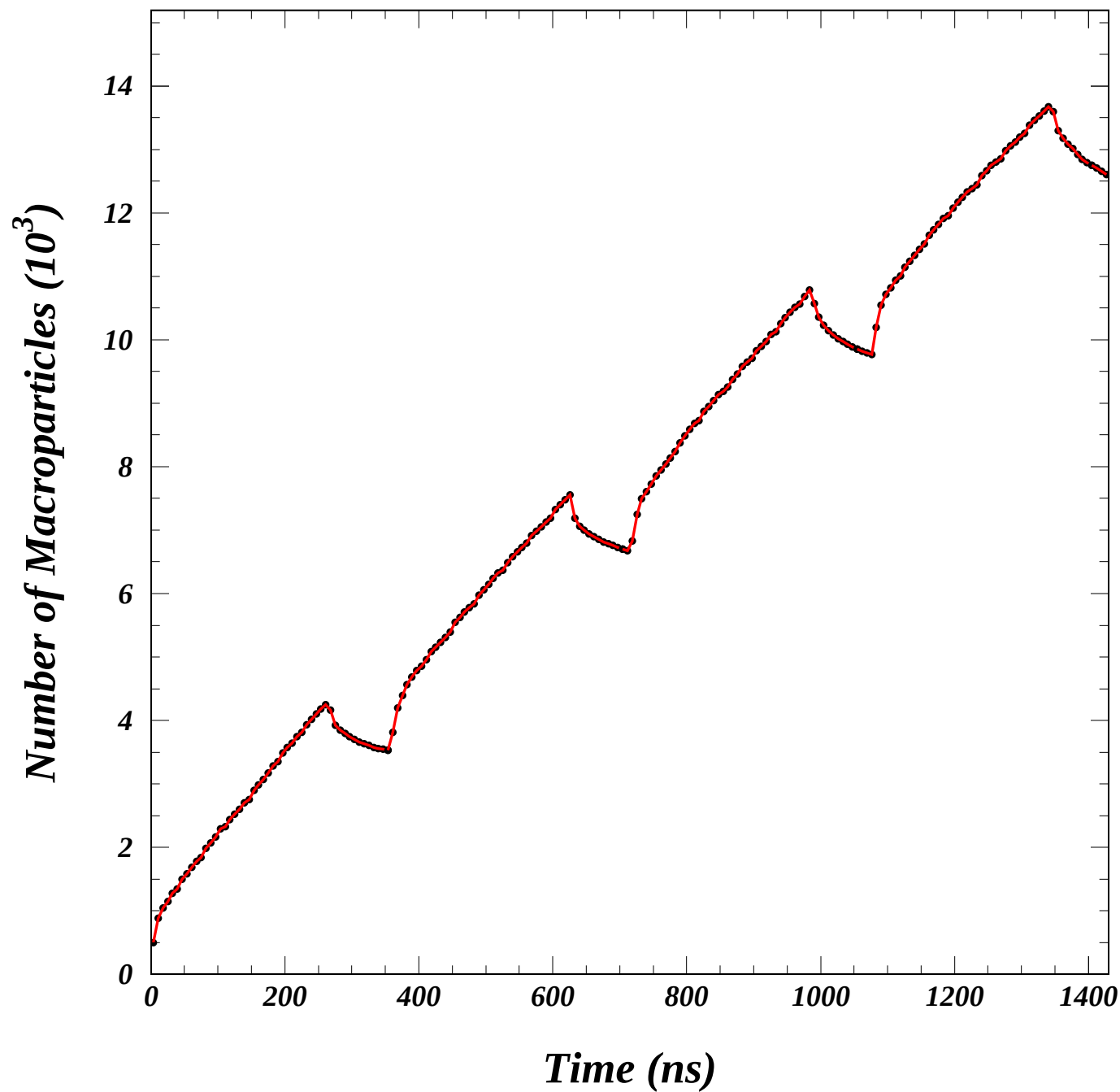
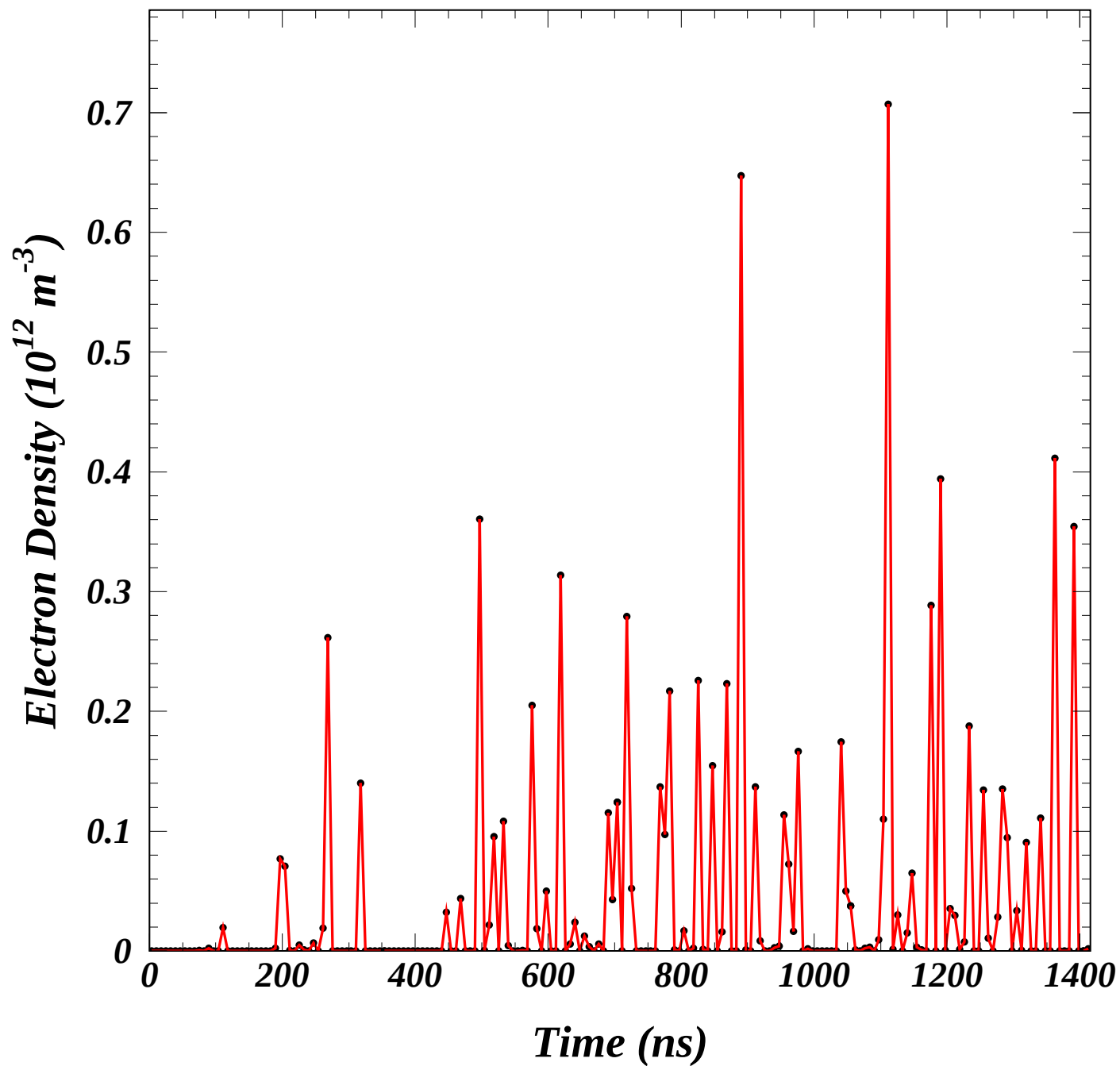


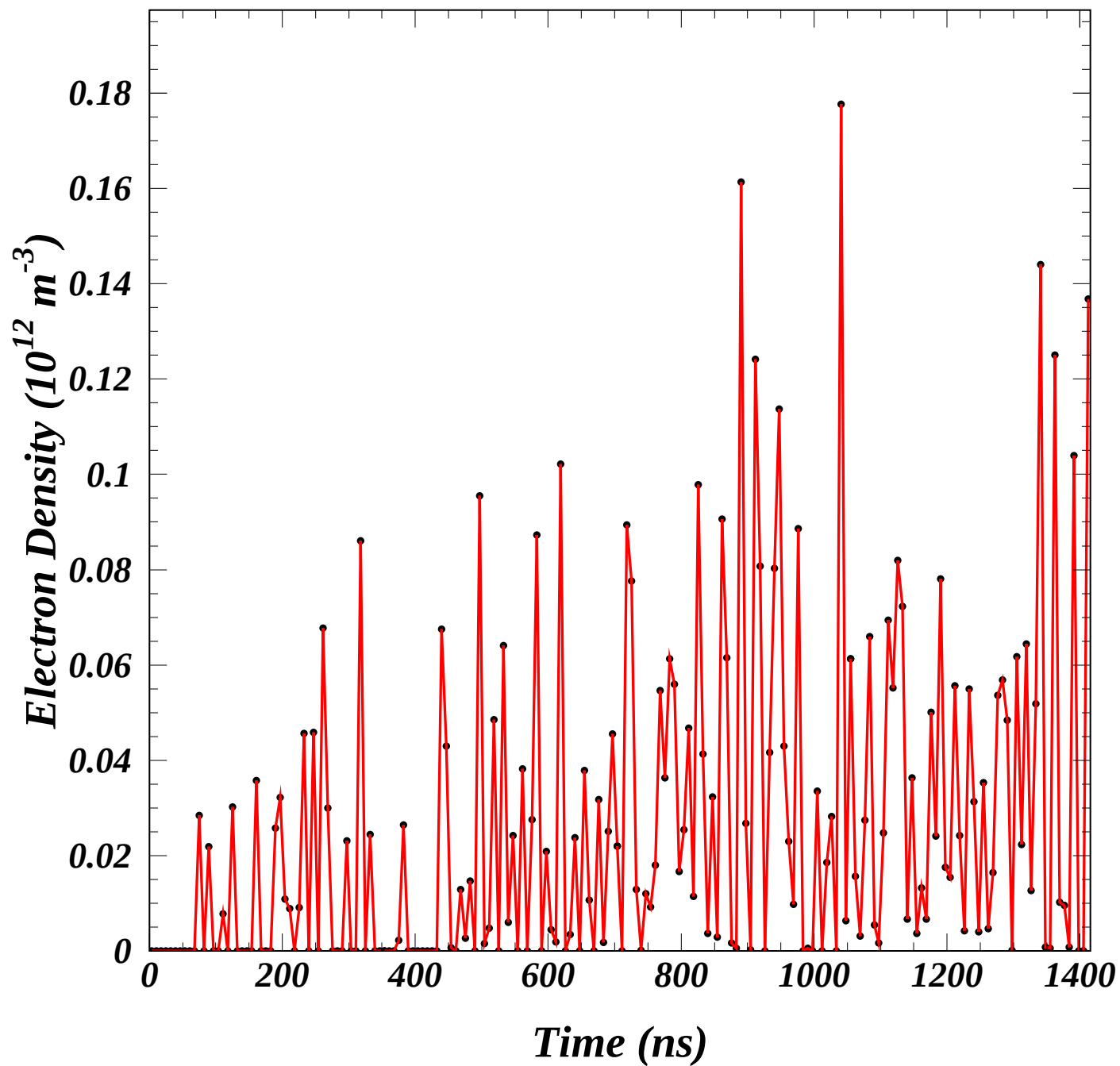
Beampipe-averaged Cloud Density (10^{12} m^{-3}) 10/03/19 16.55



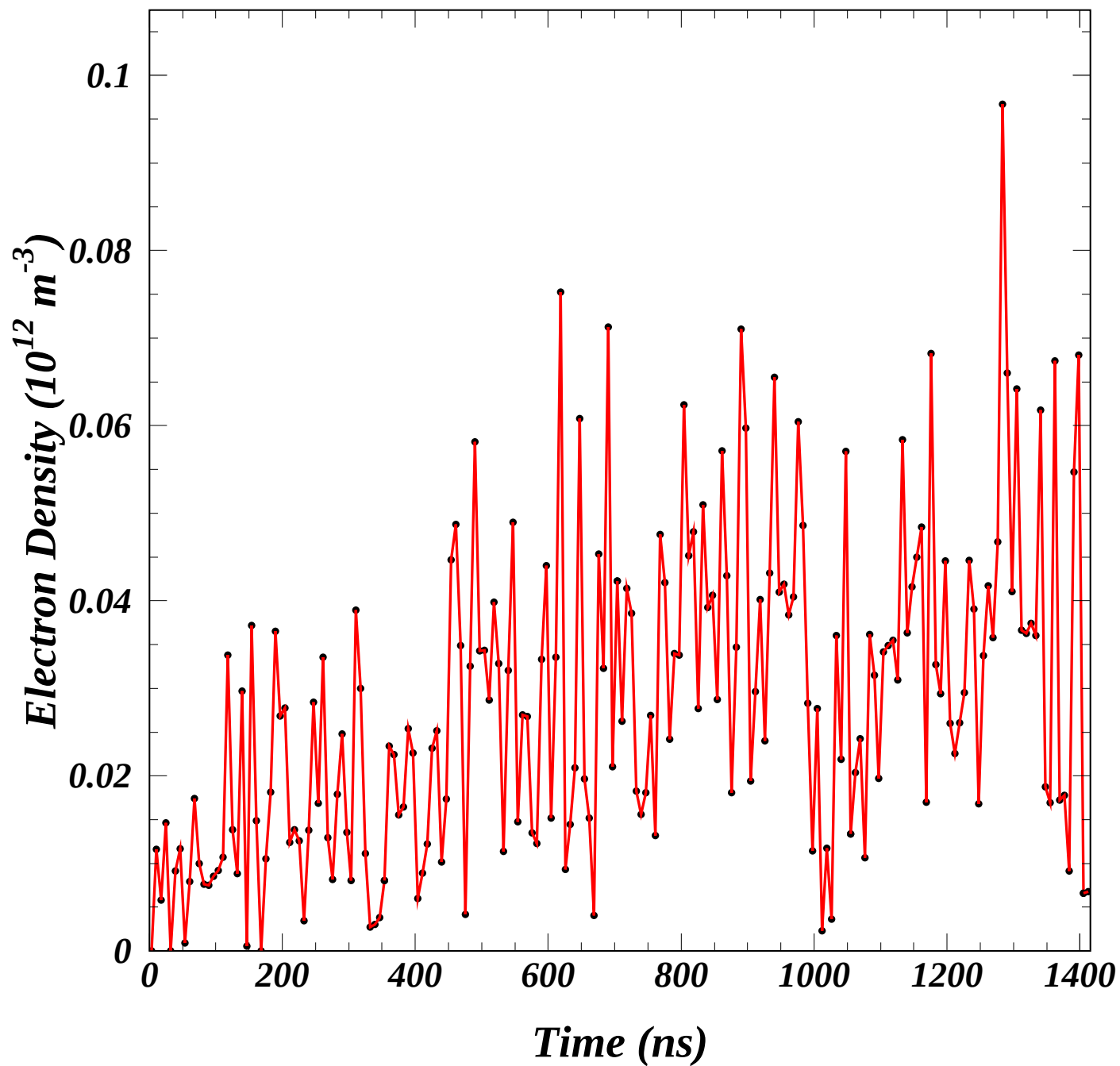
Macroparticle Statistics



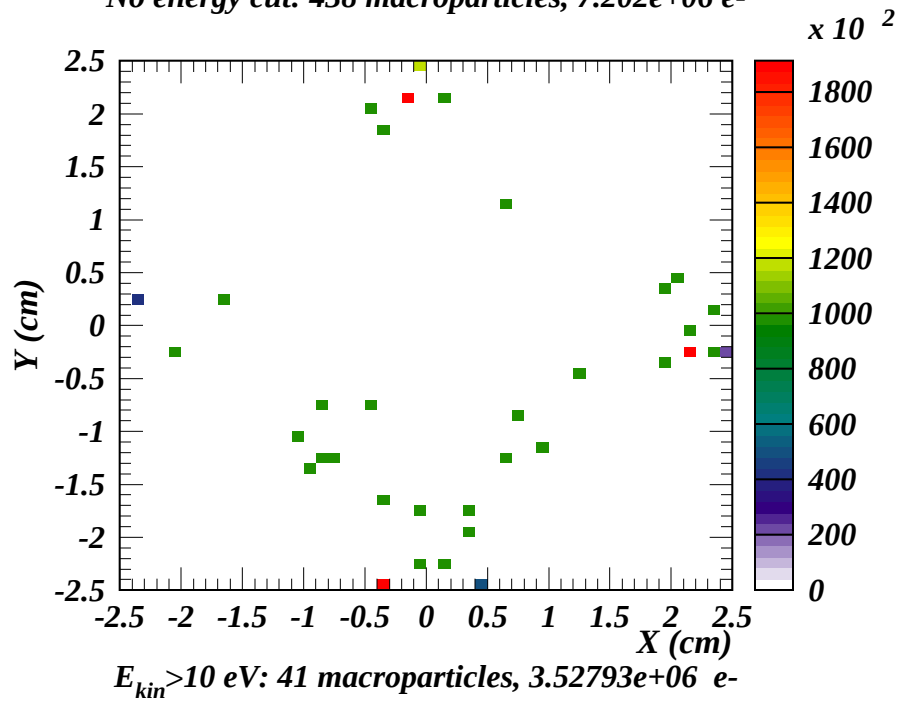
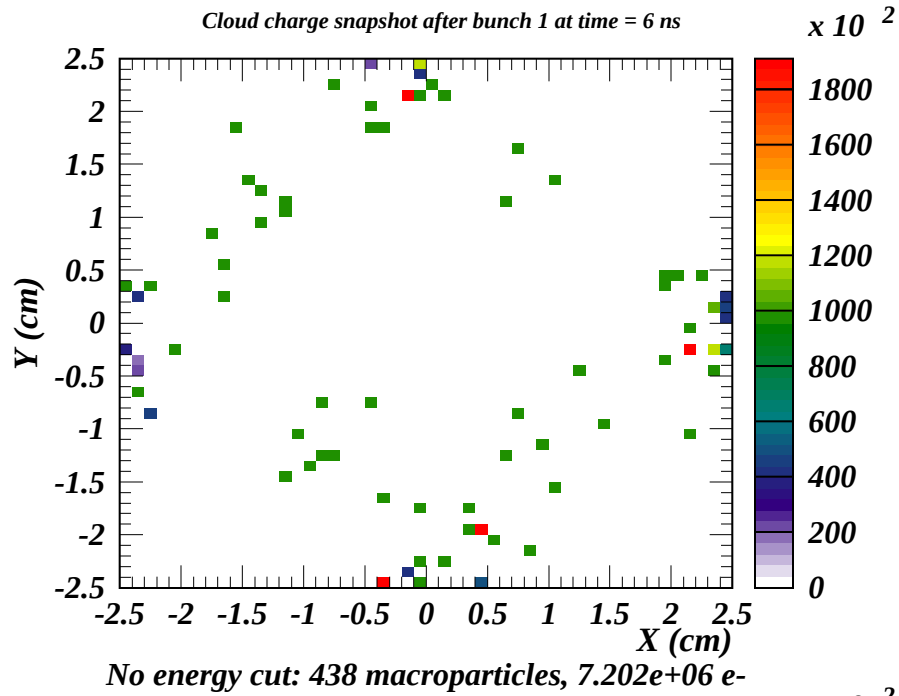
Beam-averaged Cloud Density (10^{12} m^{-3})

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

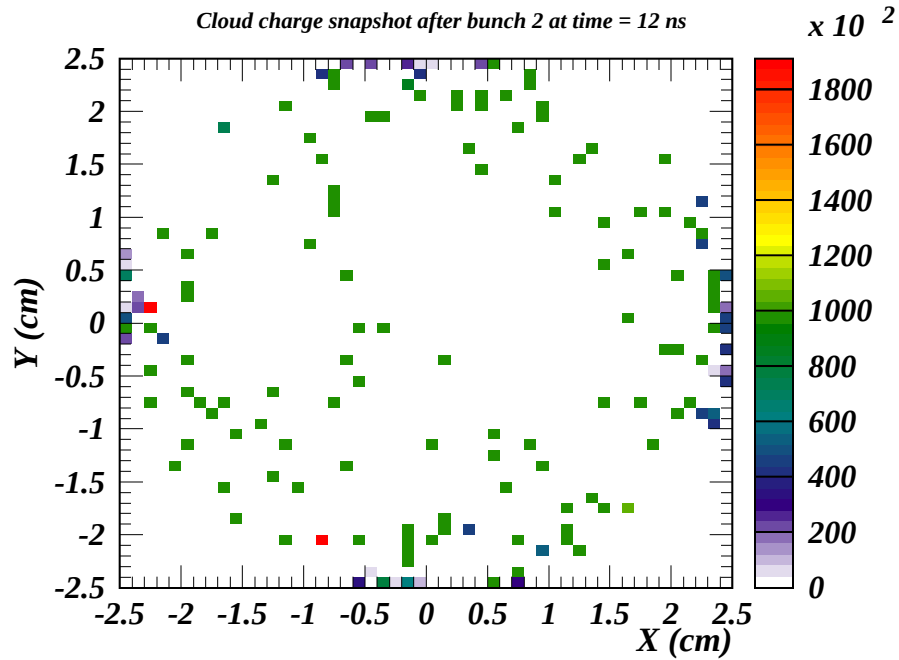
ECLLOUD-DR20100308_64_qua: Cloud Density in Central Grid Cell (10^{12} m^{-3})



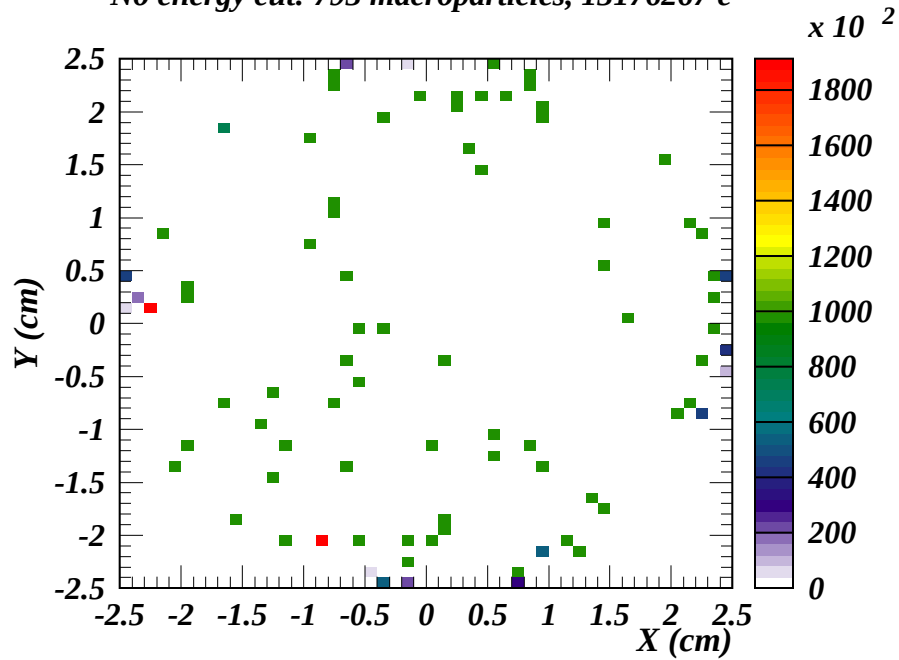
10/03/19 16.55



10/03/19 16.55

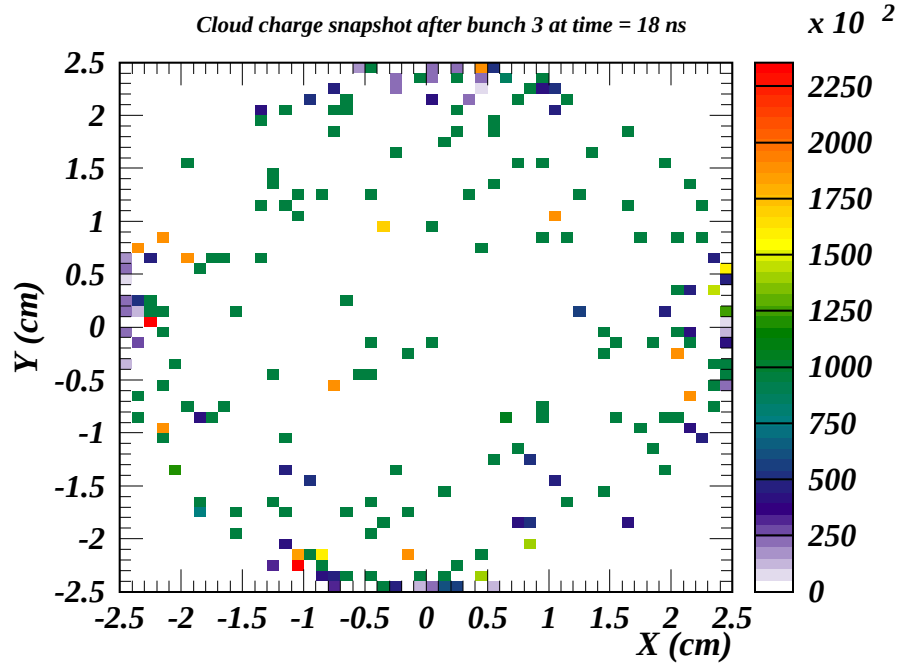


No energy cut: 793 macroparticles, 13176267 e-

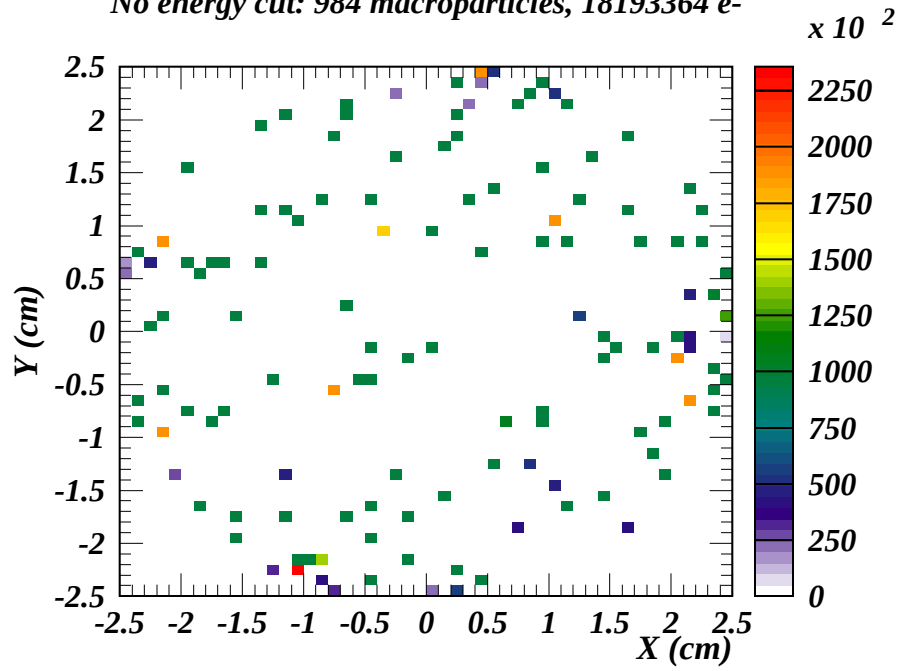


$E_{kin} > 10$ eV: 91 macroparticles, 7.45528e+06 e-

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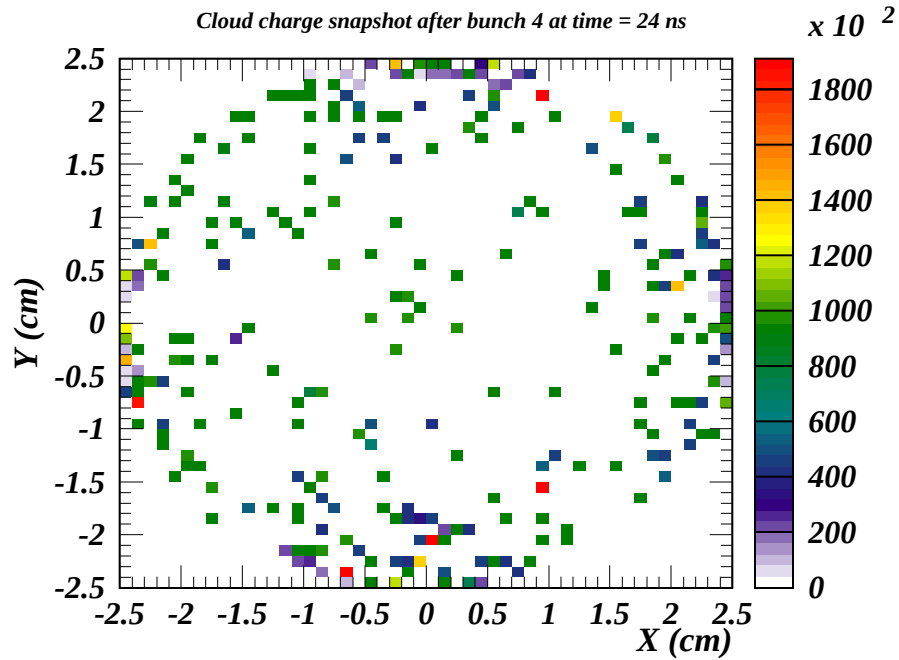


No energy cut: 984 macroparticles, 18193364 e-

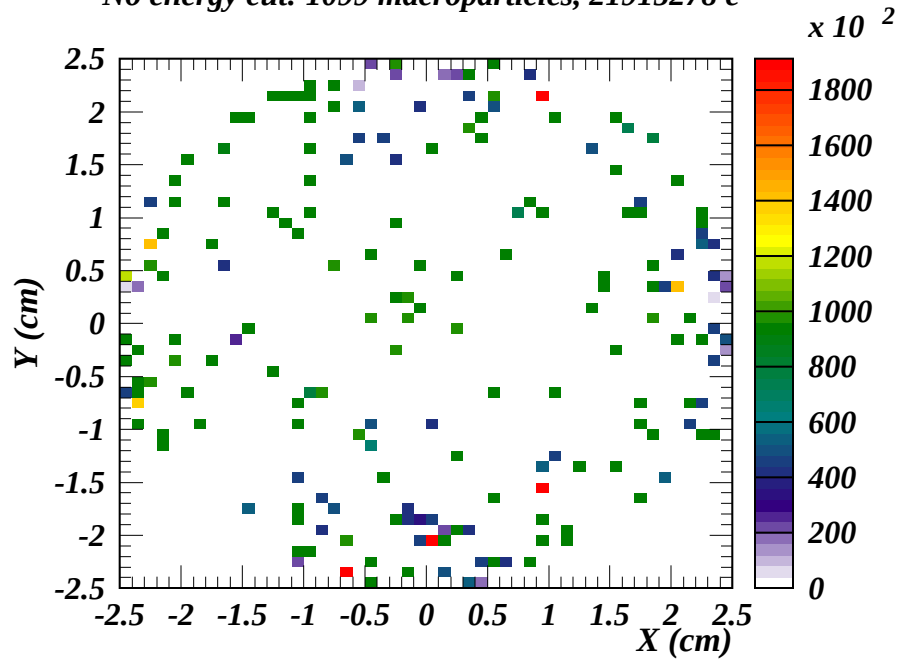


$E_{kin} > 10$ eV: 156 macroparticles, 12127382 e-

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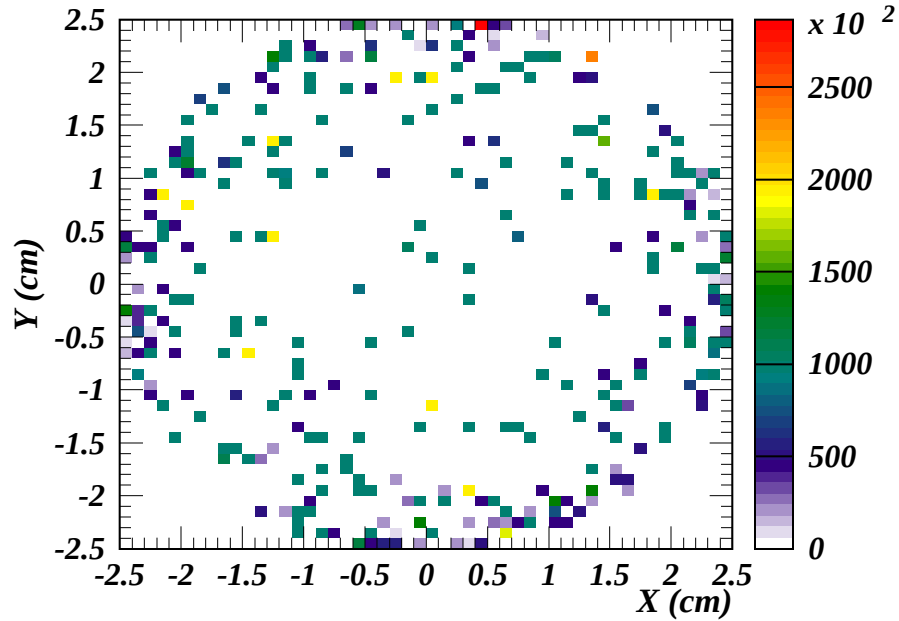
No energy cut: 1099 macroparticles, 21915278 e-



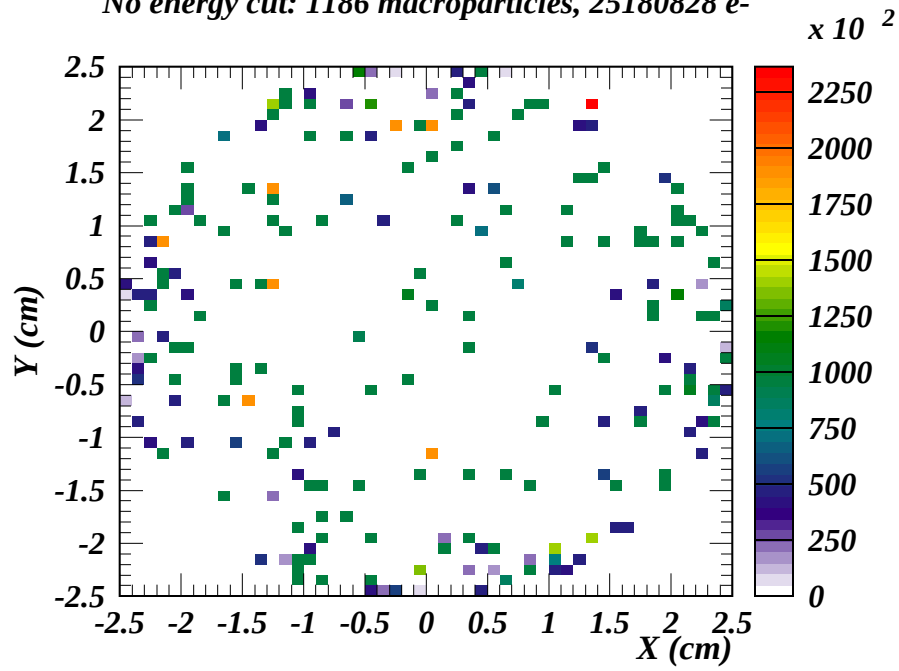
$E_{kin} > 10$ eV: 213 macroparticles, 15227076 e-

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Cloud charge snapshot after bunch 5 at time = 30 ns



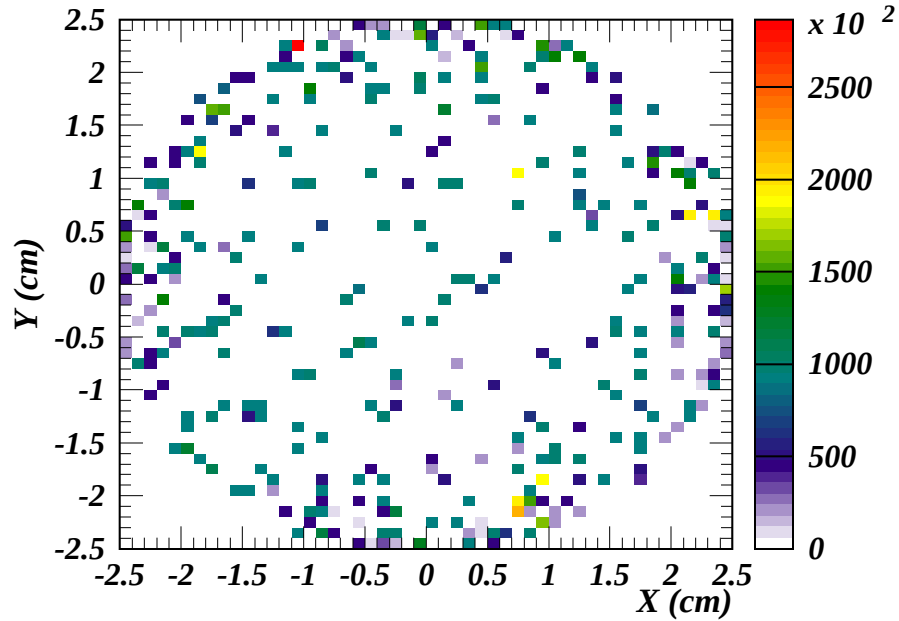
No energy cut: 1186 macroparticles, 25180828 e-



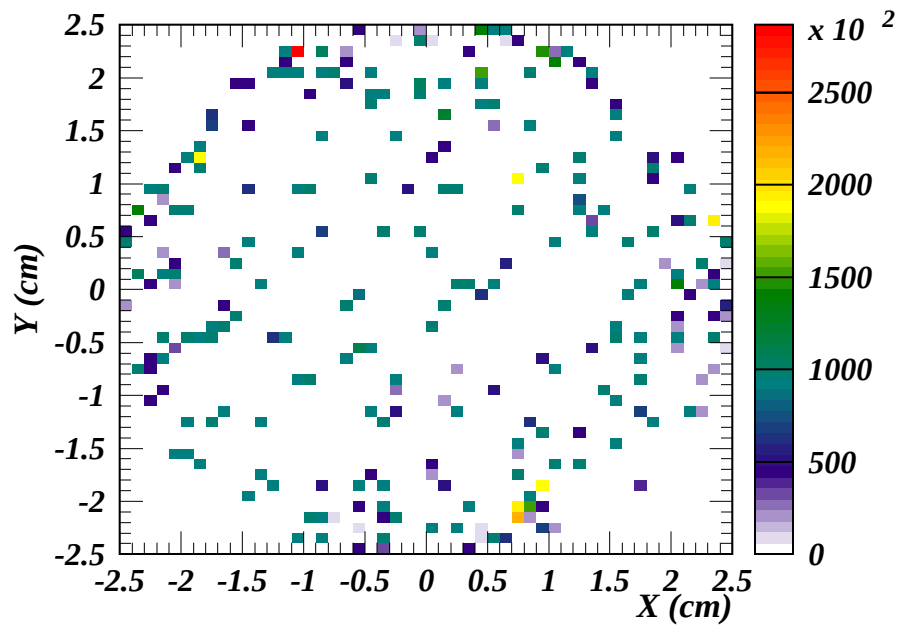
$E_{kin} > 10$ eV: 251 macroparticles, 17133012 e-

10/03/19 16.55

Cloud charge snapshot after bunch 6 at time = 36 ns

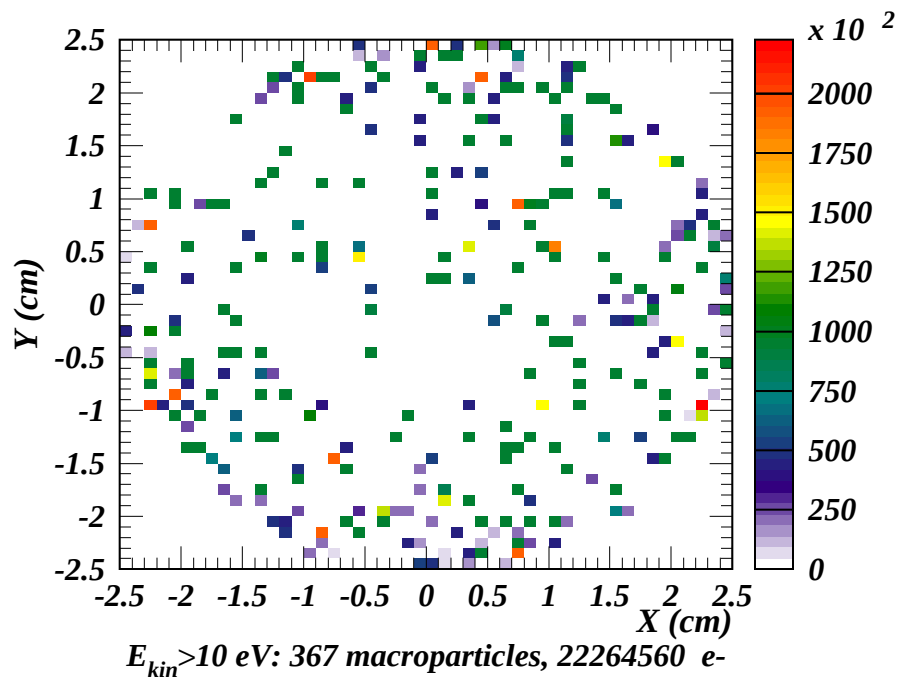
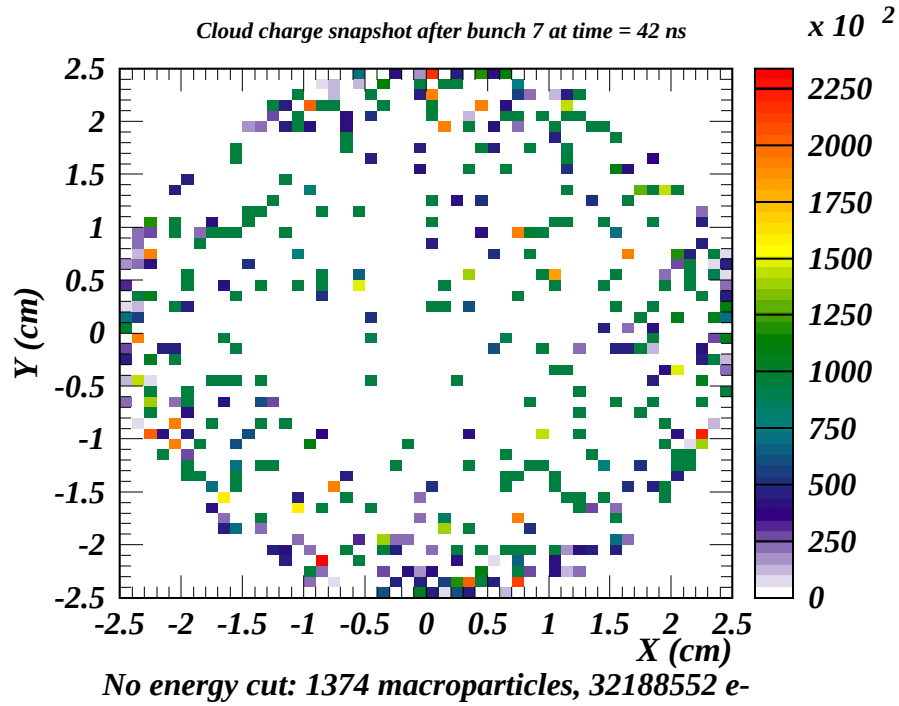


No energy cut: 1316 macroparticles, 27671928 e-



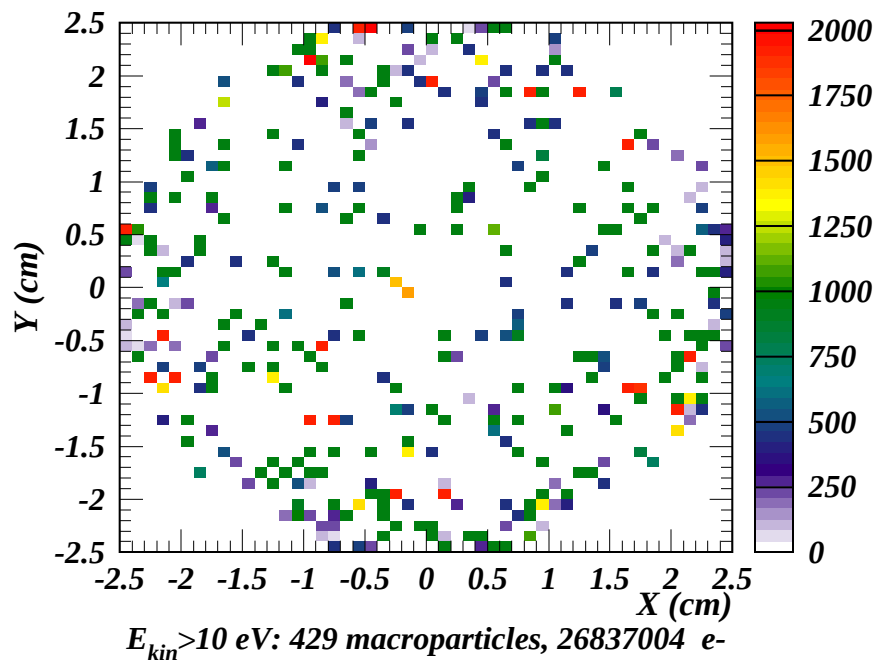
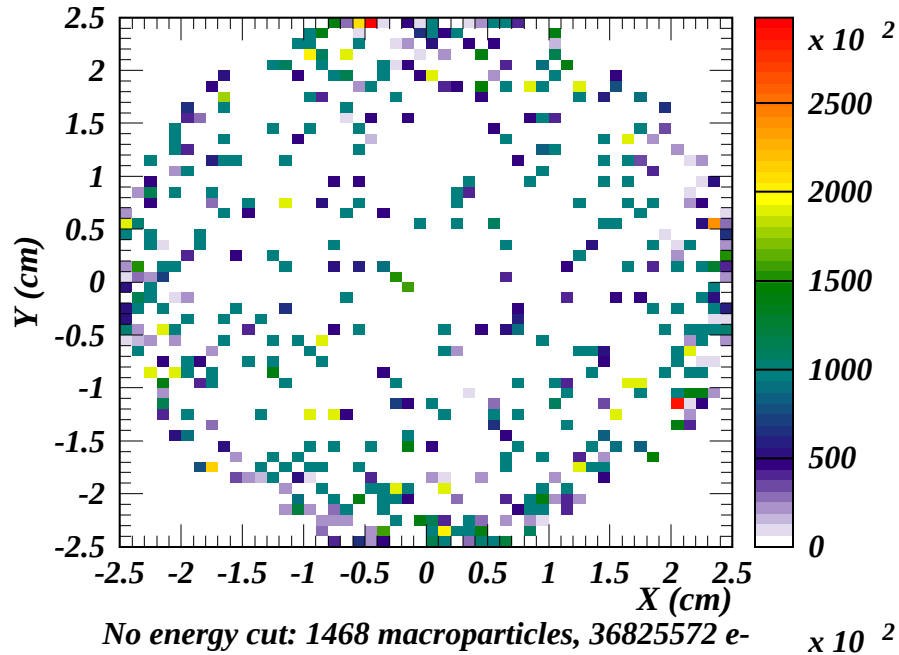
$E_{kin} > 10$ eV: 302 macroparticles, 19657426 e-

10/03/19 16.55

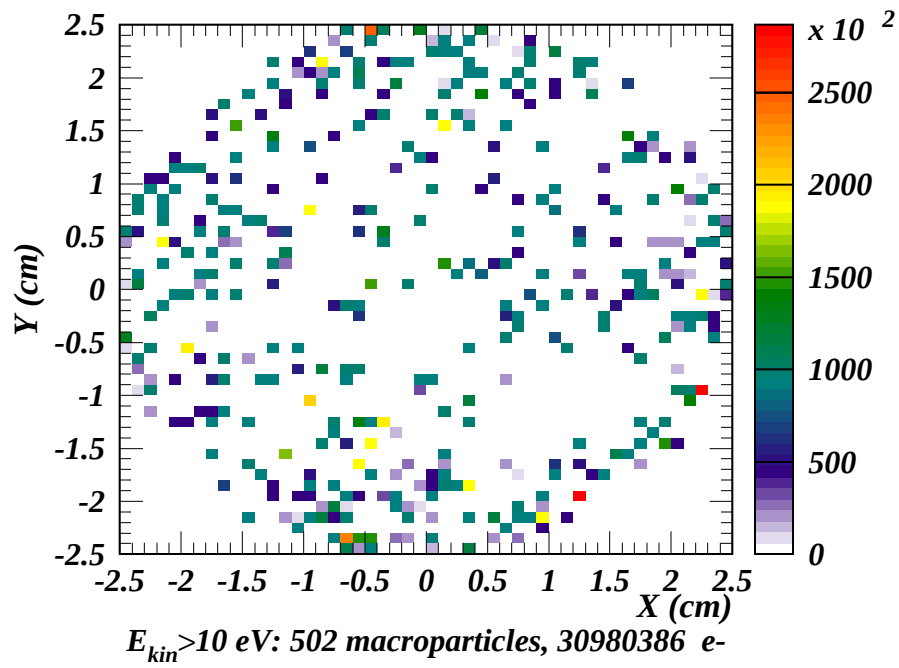
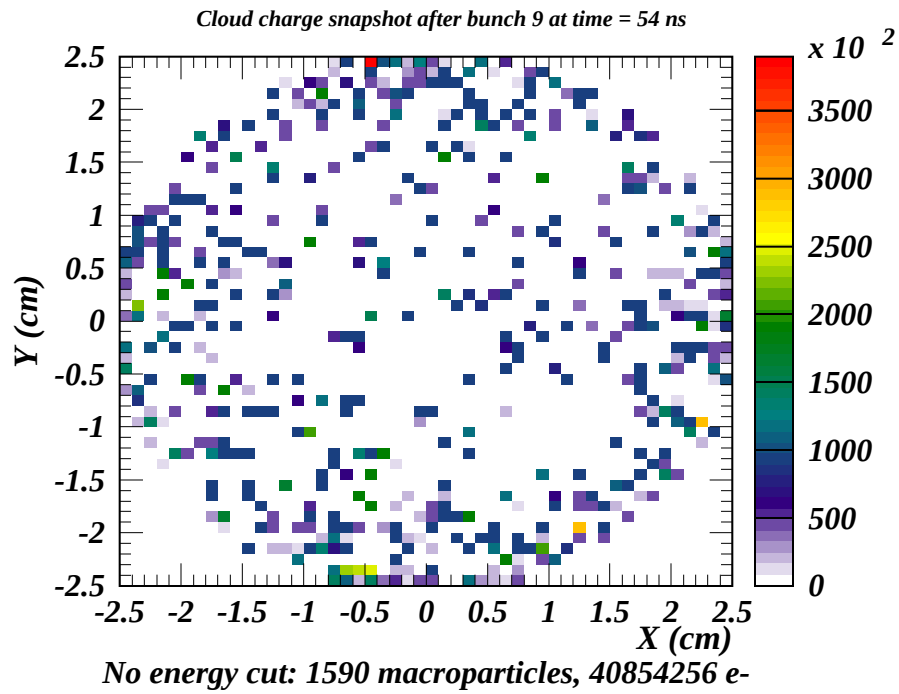


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Cloud charge snapshot after bunch 8 at time = 48 ns

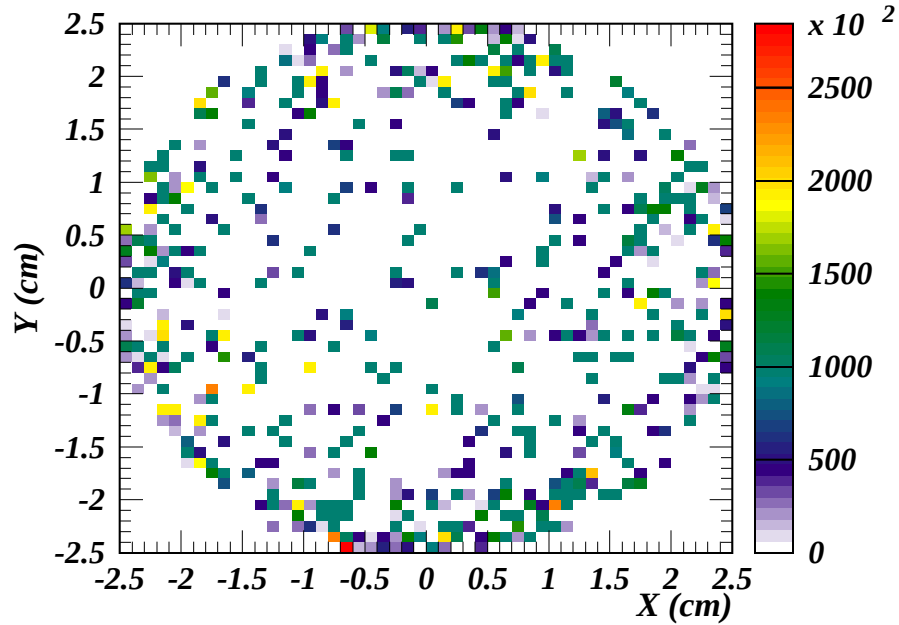


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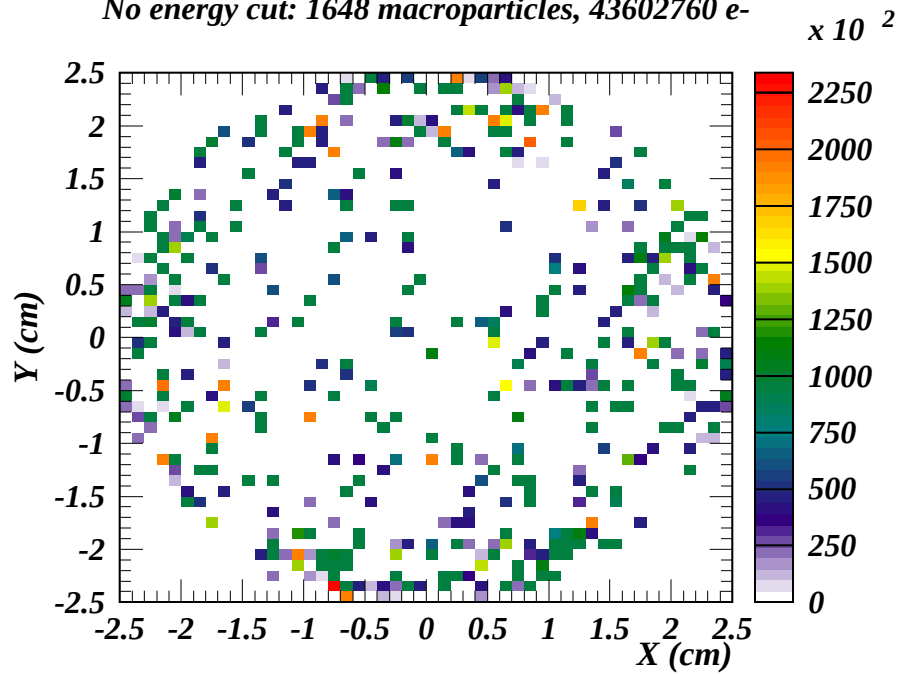


10/03/19 16.55

Cloud charge snapshot after bunch 10 at time = 60 ns



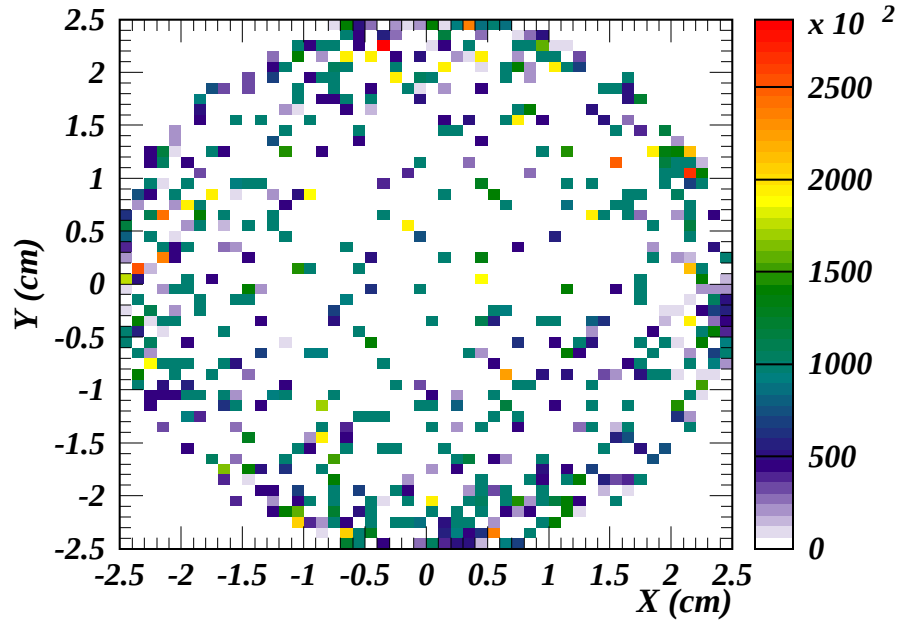
No energy cut: 1648 macroparticles, 43602760 e-



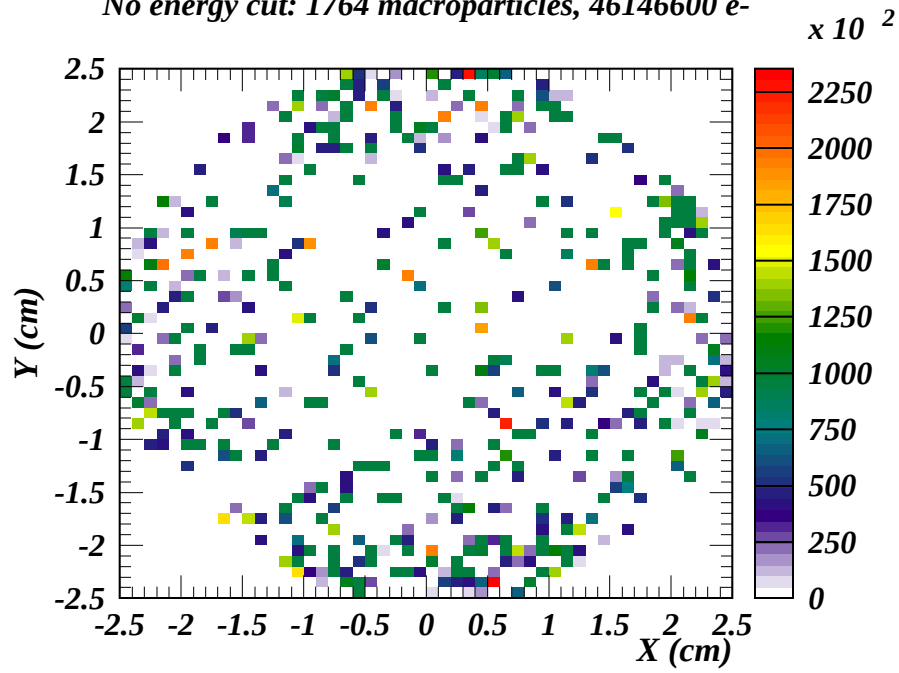
$E_{kin} > 10$ eV: 556 macroparticles, 32677006 e-

10/03/19 16.55

Cloud charge snapshot after bunch 11 at time = 66 ns

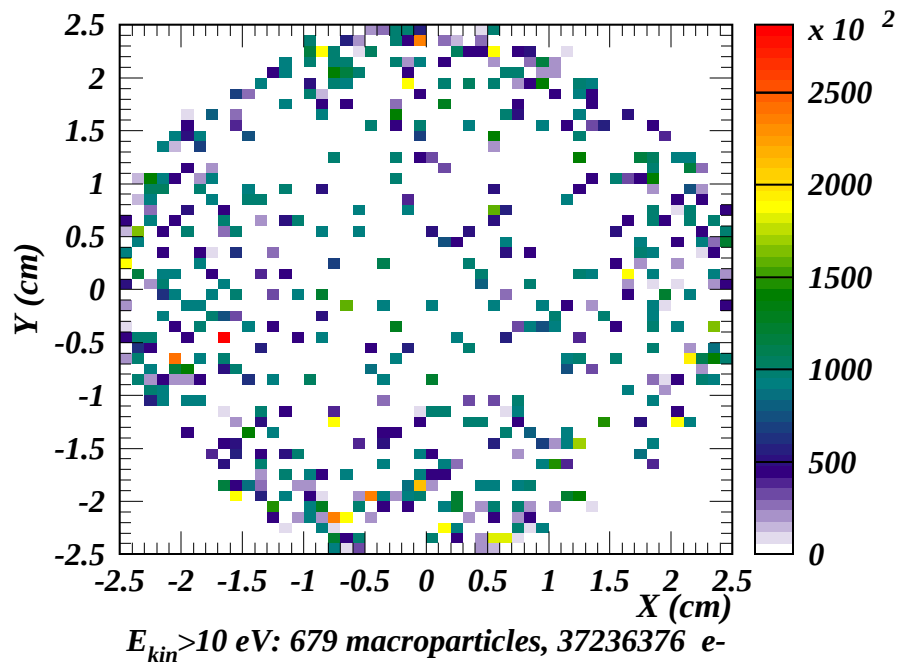
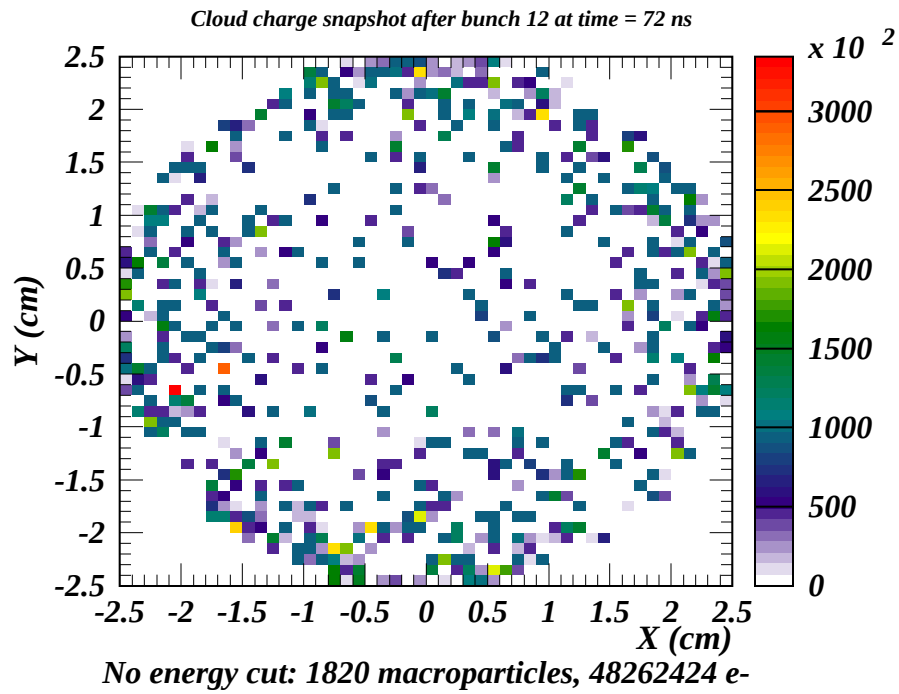


No energy cut: 1764 macroparticles, 46146600 e-



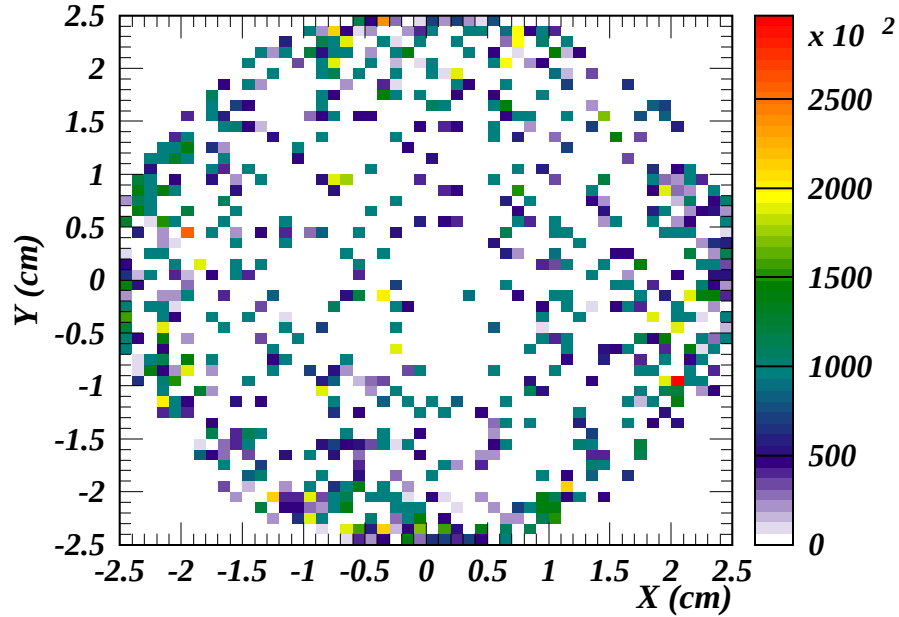
$E_{kin} > 10$ eV: 607 macroparticles, 34608008 e-

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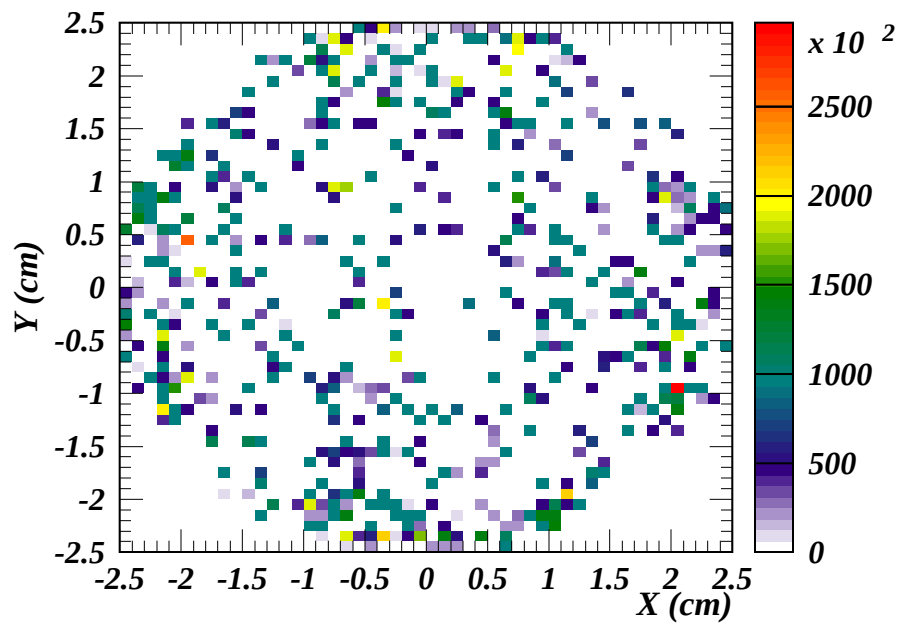


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Cloud charge snapshot after bunch 13 at time = 78 ns

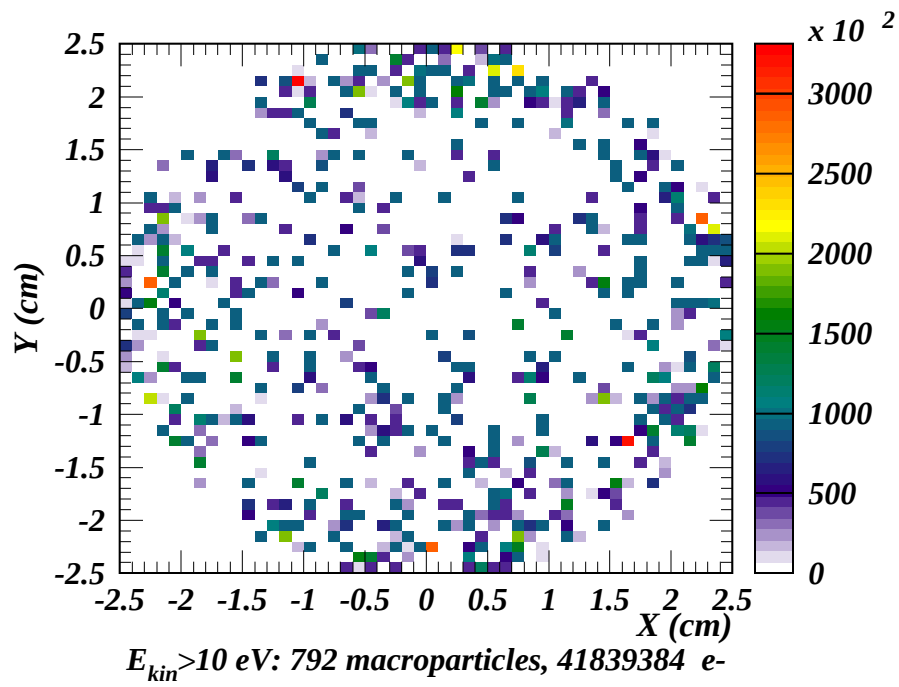
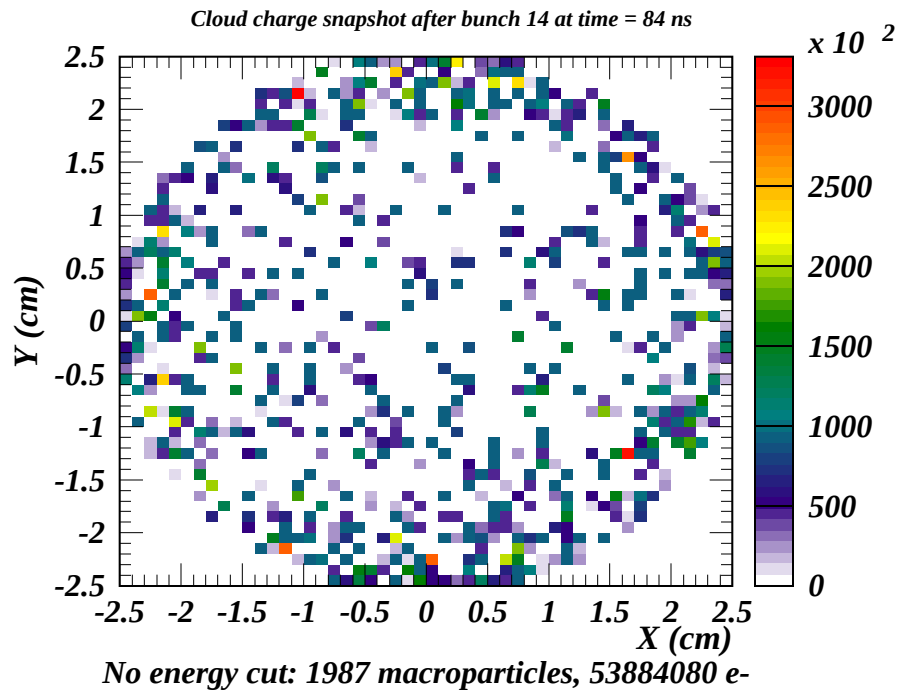


No energy cut: 1917 macroparticles, 51159292 e-



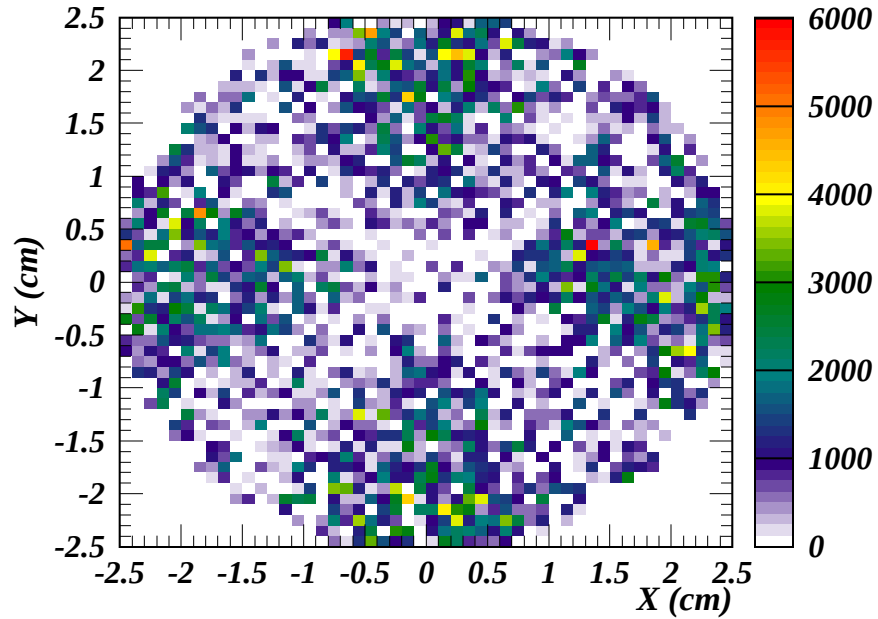
$E_{kin} > 10$ eV: 736 macroparticles, 39861984 e-

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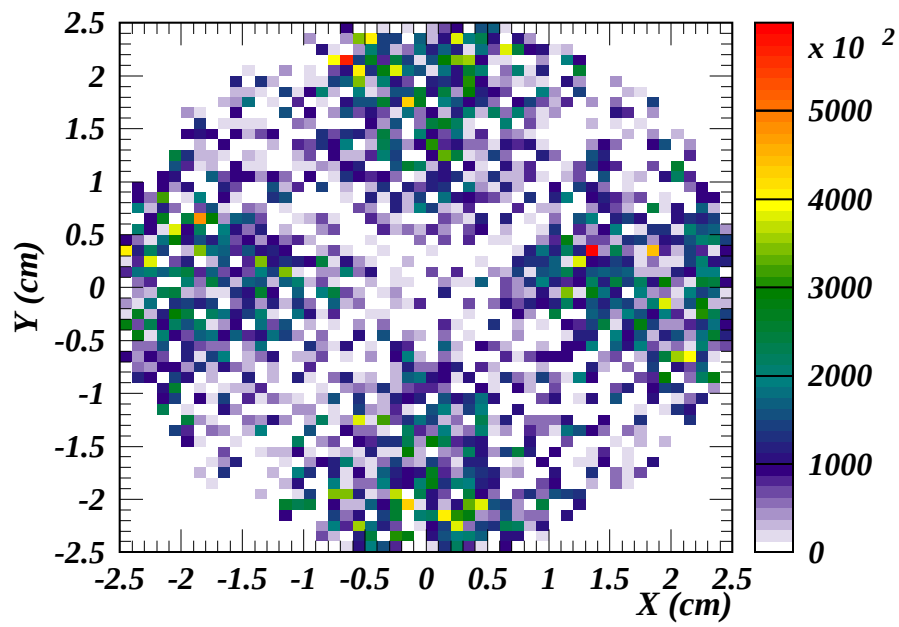


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 $\times 10^{-2}$

Cloud charge snapshot after bunch 183 at time = 1098 ns

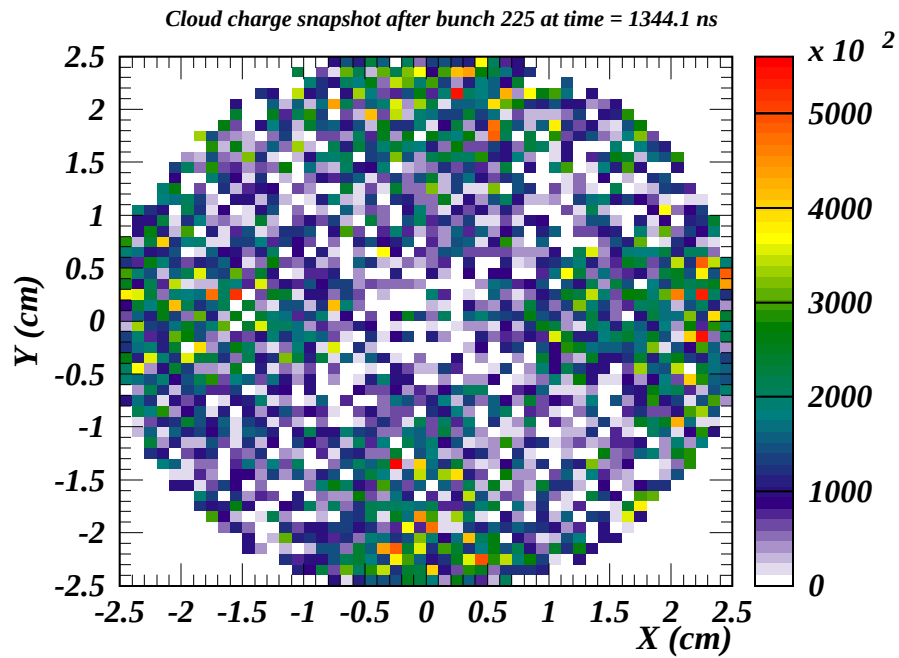


No energy cut: 10719 macroparticles, 167516352 e-

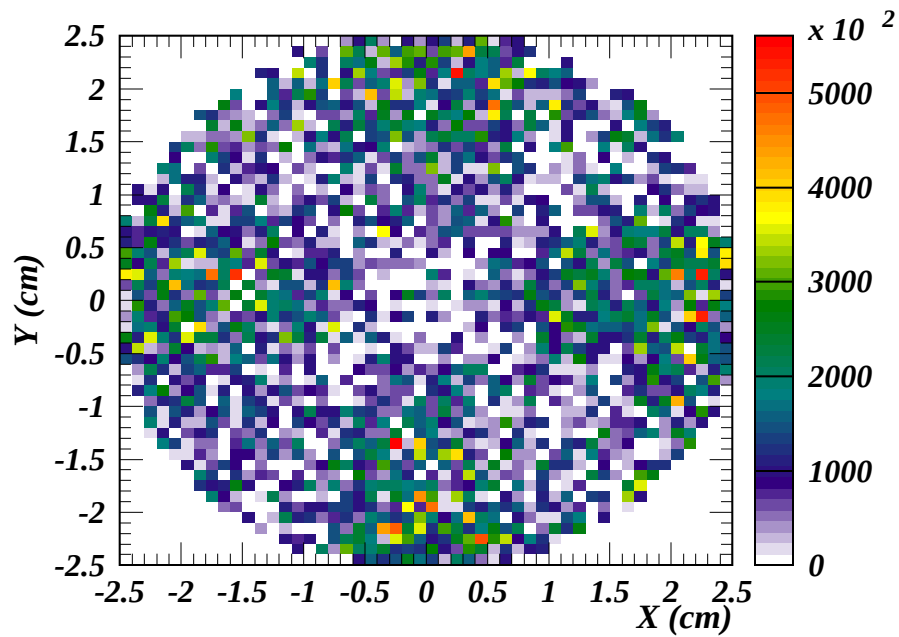


$E_{kin} > 10$ eV: 8281 macroparticles, 150069808 e-

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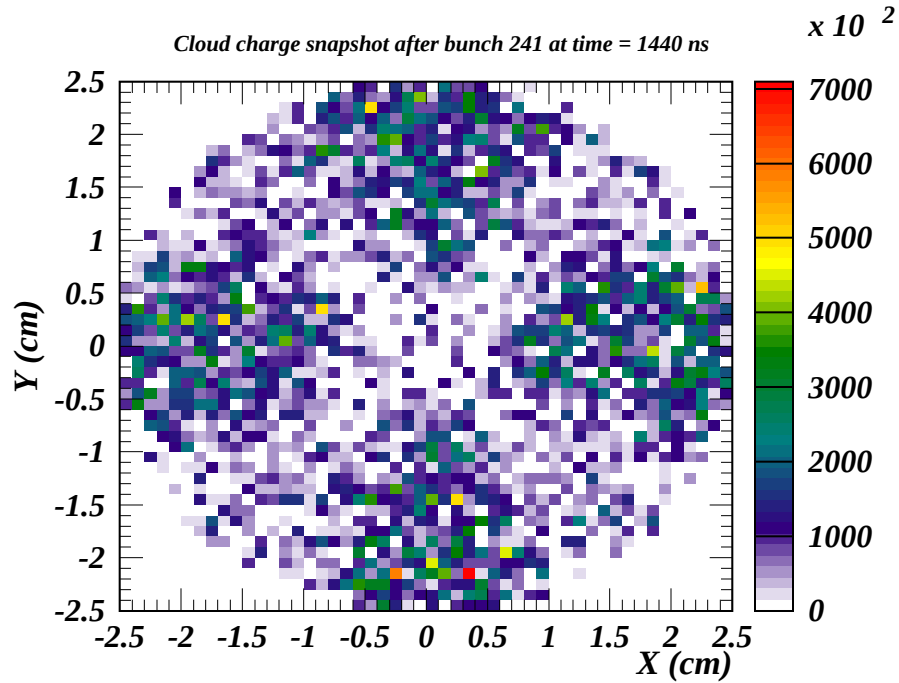


No energy cut: 13844 macroparticles, 273524224 e-

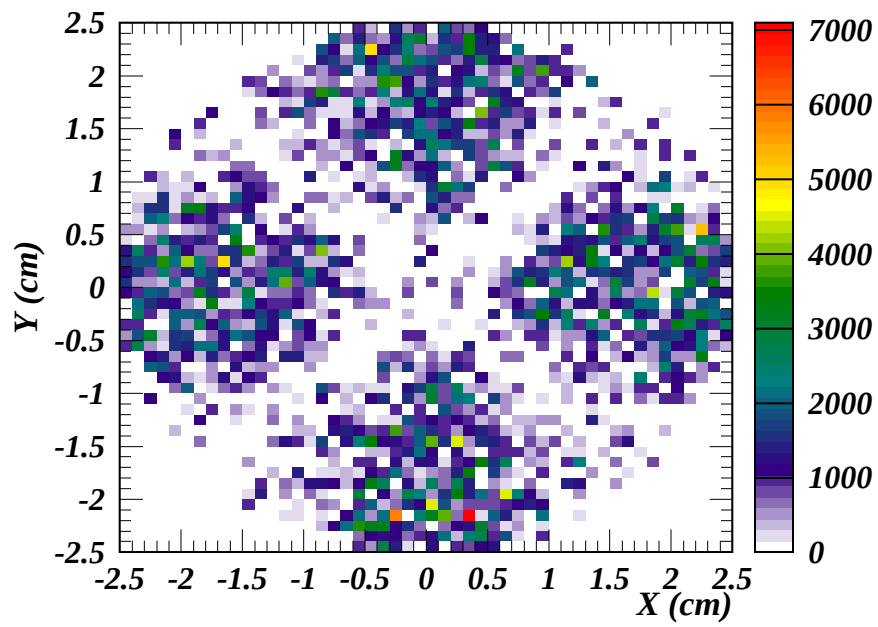


$E_{kin} > 10$ eV: 11999 macroparticles, 236839120 e-

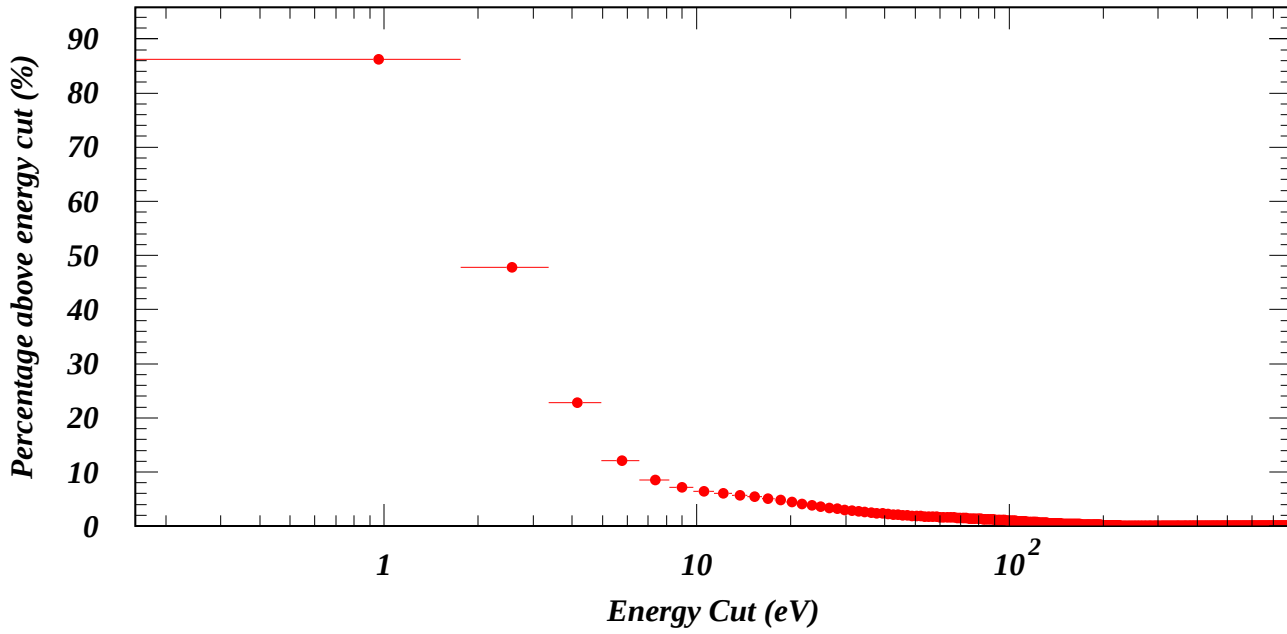
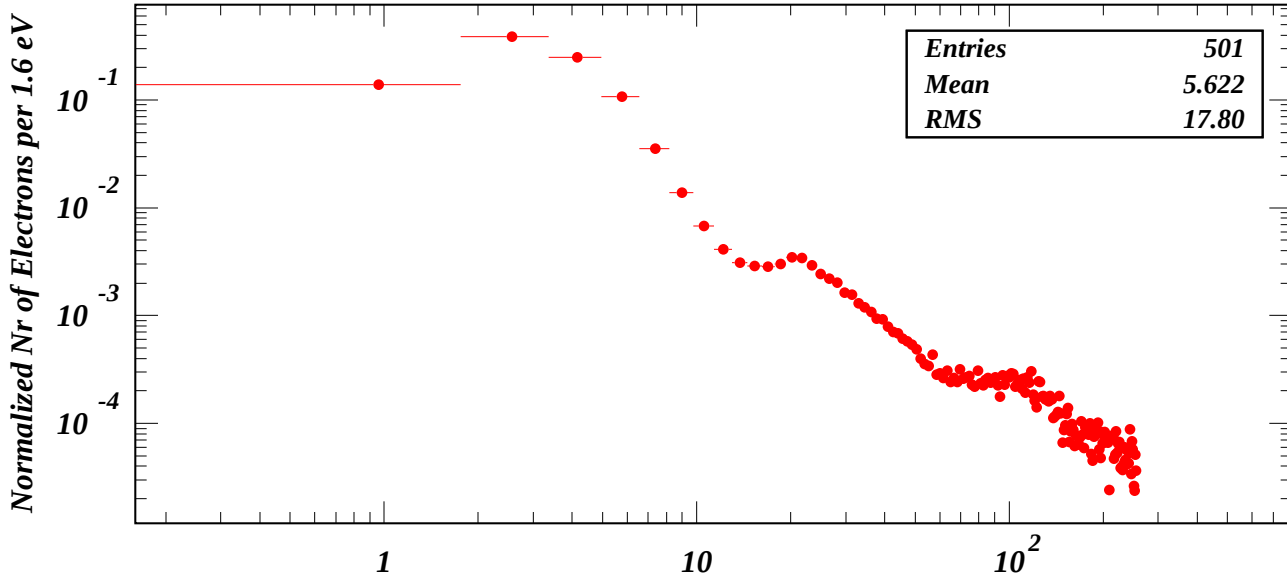
10/03/19 16.55

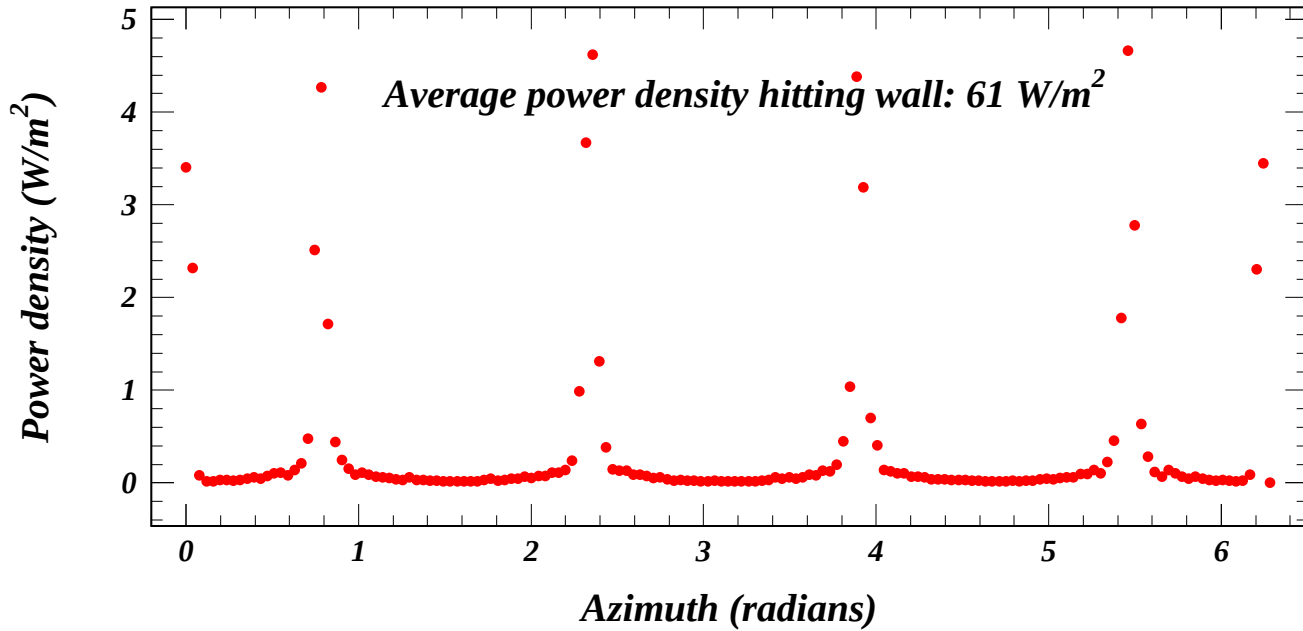
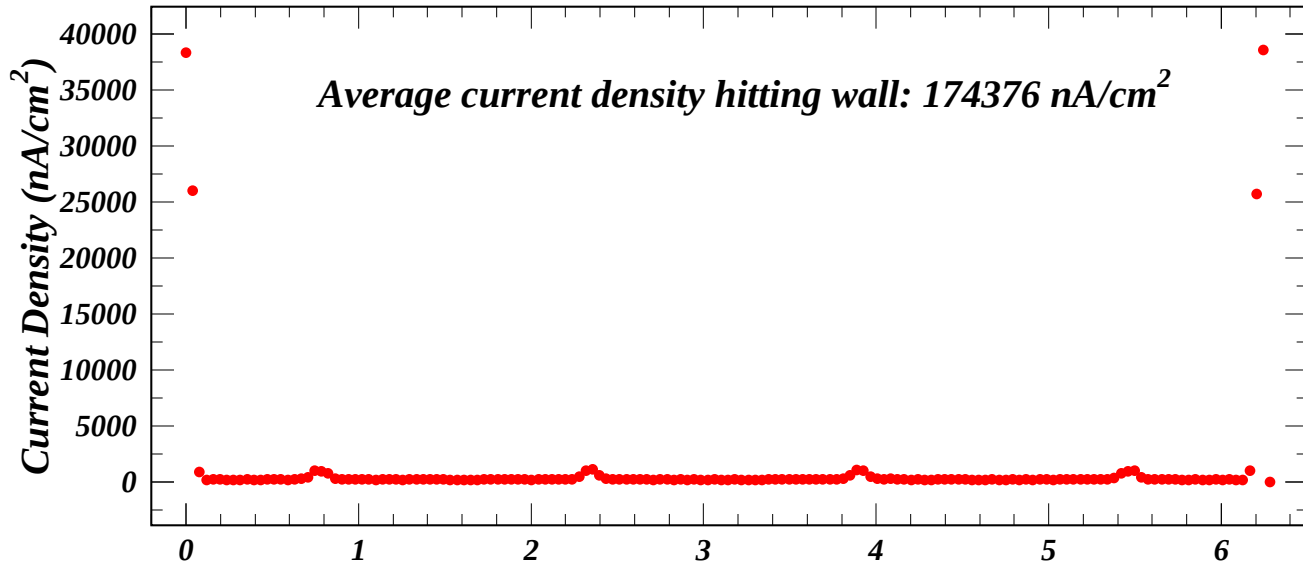


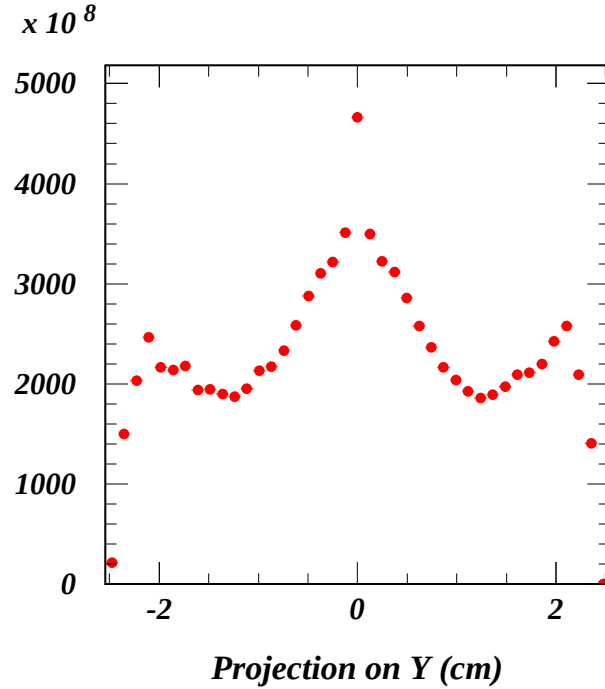
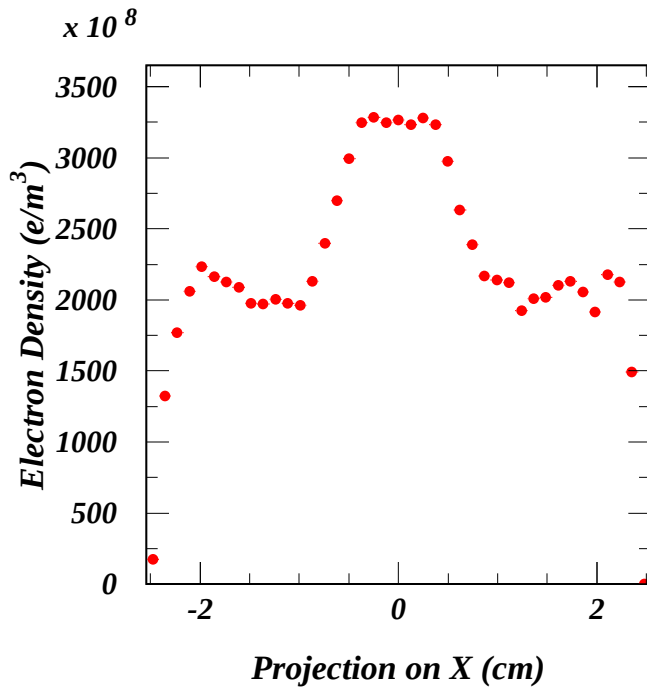
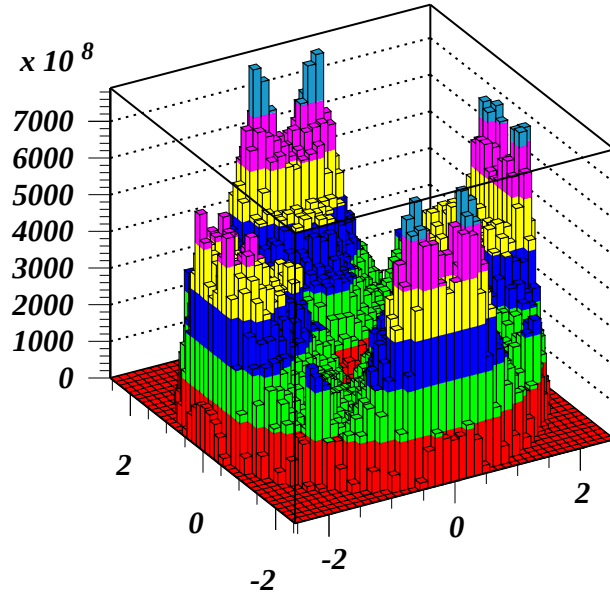
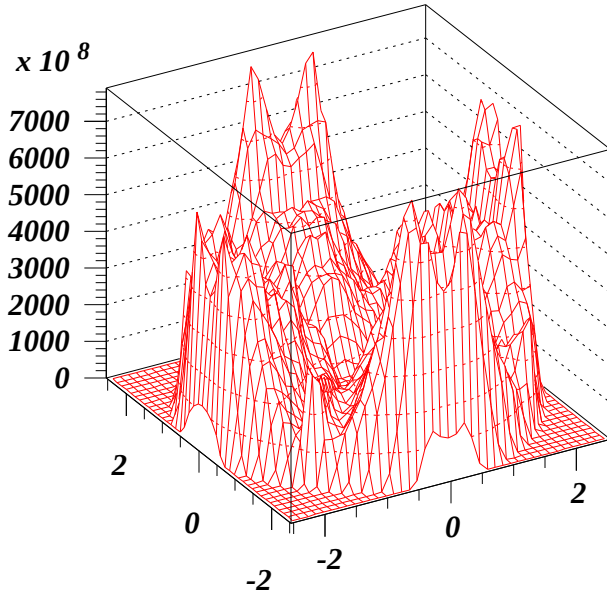
No energy cut: 12534 macroparticles, 171512208 e^- $\times 10^{-2}$



$E_{kin} > 10$ eV: 8252 macroparticles, 149546992 e^-

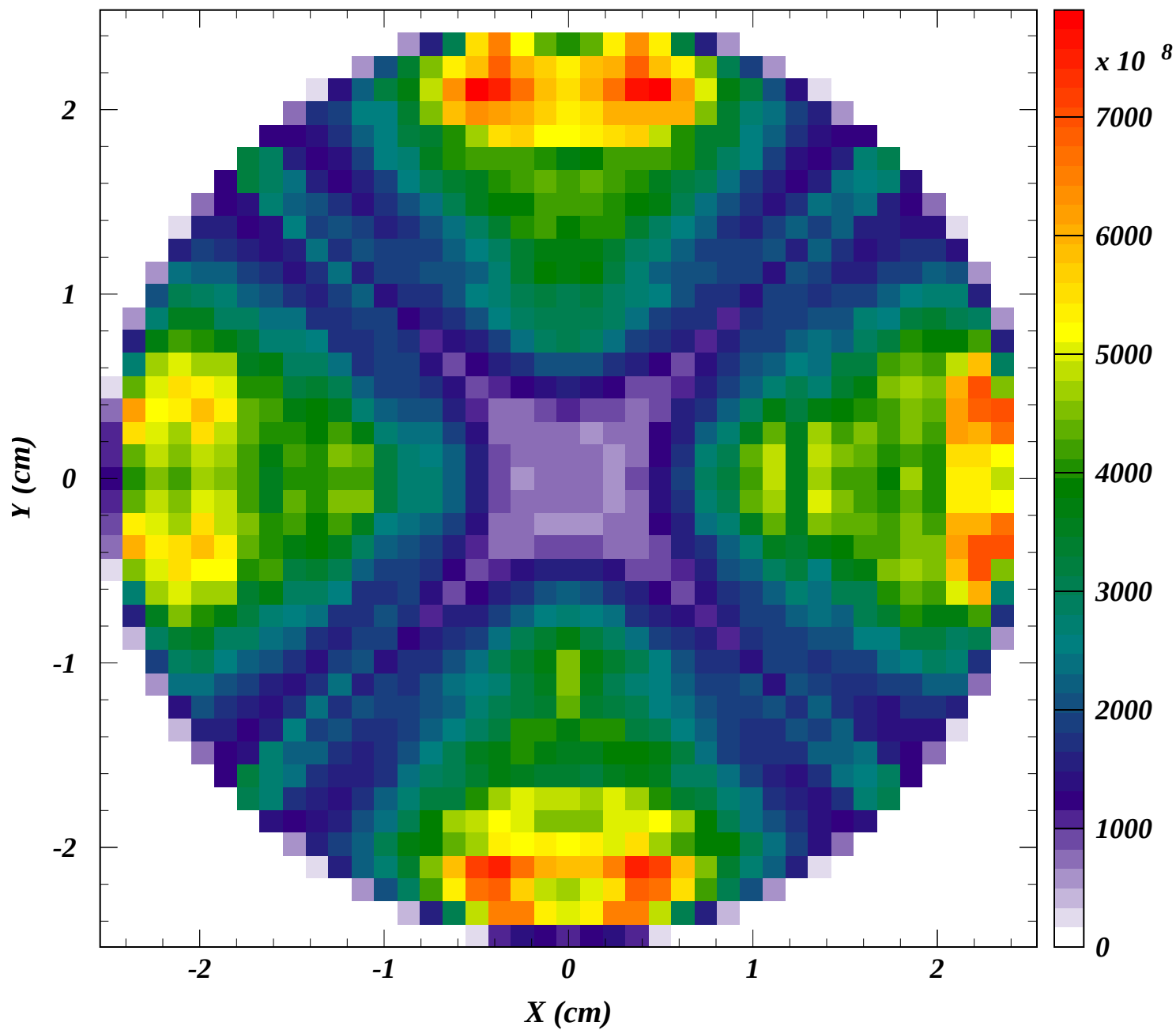
ECLOUD-DR20100308_64_qua: Time-Integrated Energies of Electrons Hitting Wall

ECLOUD-DR20100308_64_qua: Time-Integrated Energies of Electrons Hitting Wall

ECLOUD-DR20100308_64_qua: Cloud Density (e/m^3) Averaged Over 1440 ns

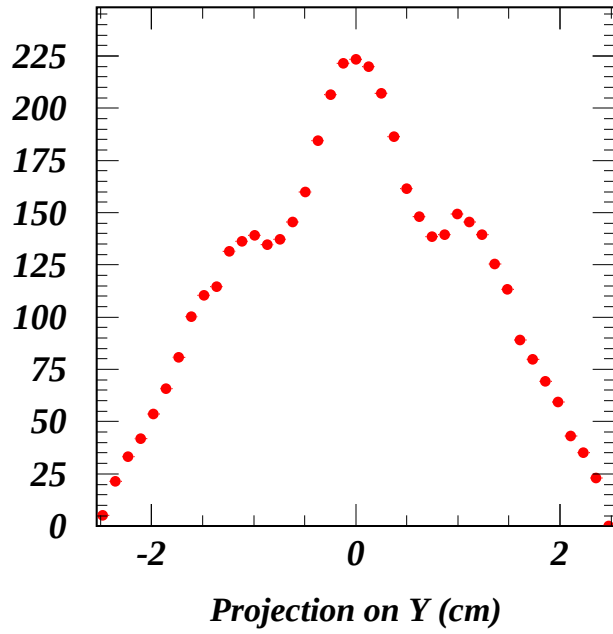
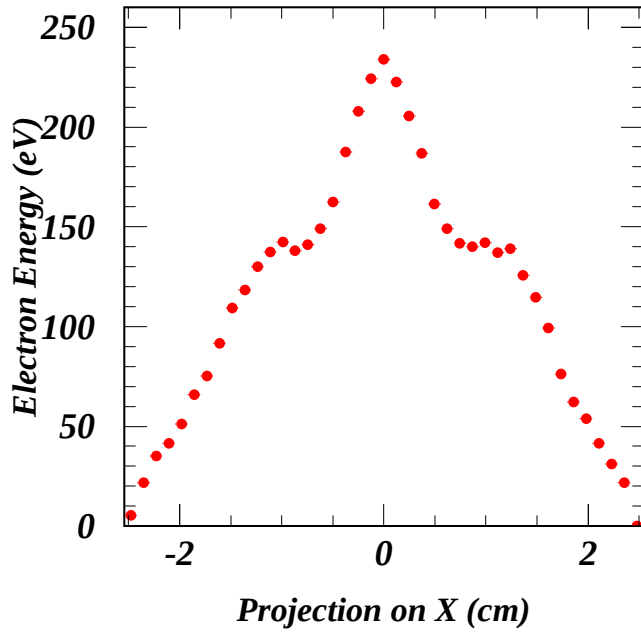
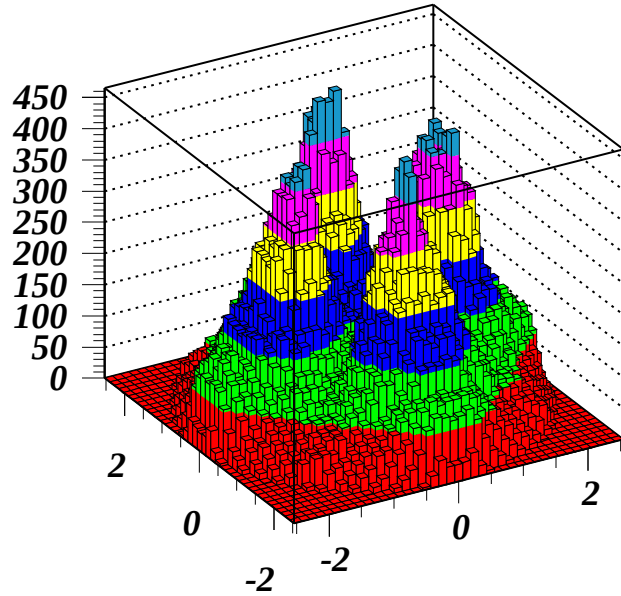
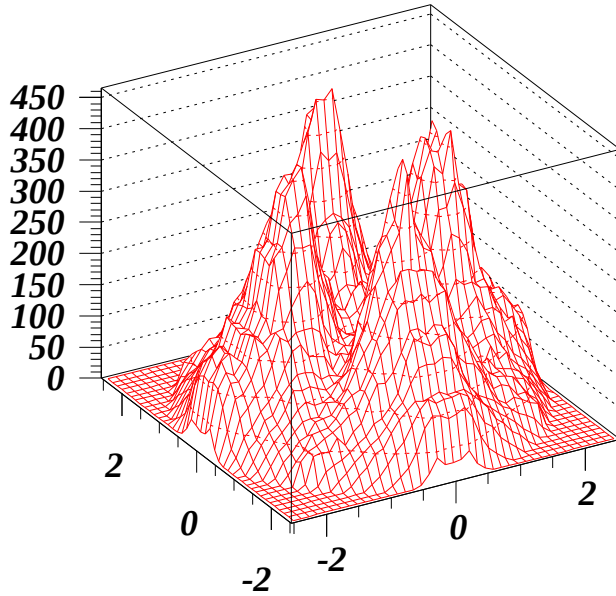
ECLOUD-DR20100308_64_qua: Cloud Density (e/m^3) Averaged Over 1440 ns

10/03/19 16.55

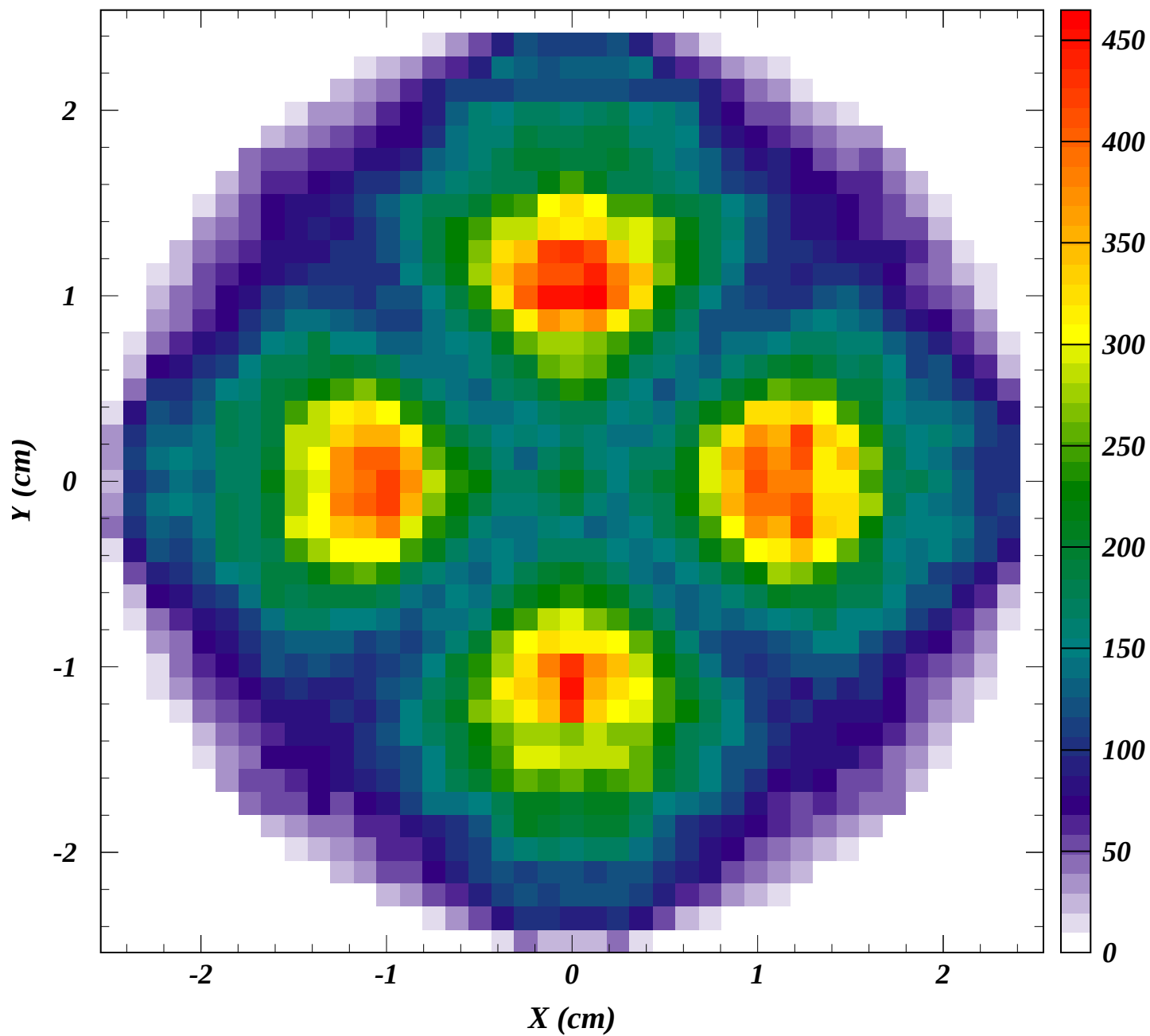


10/03/19 16.55

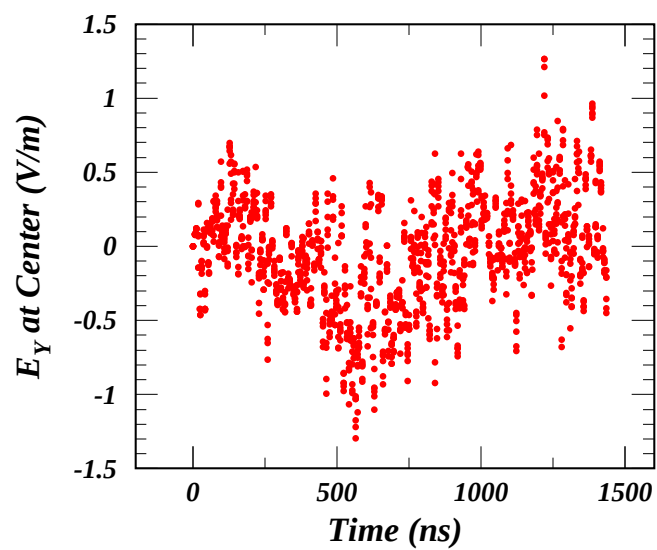
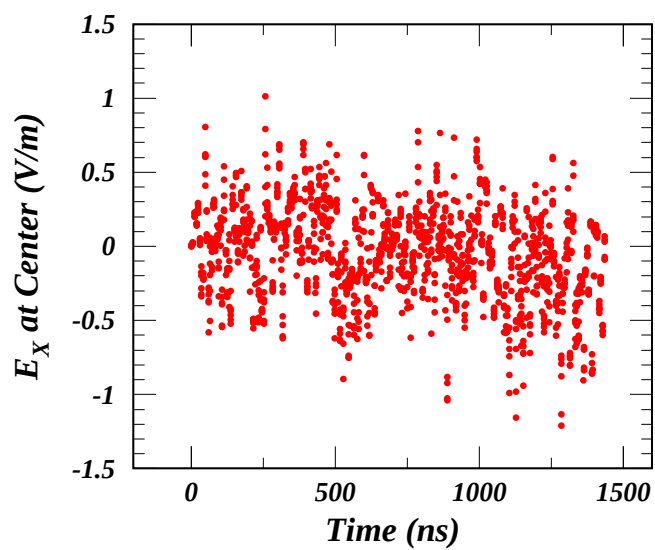
ECLOUD-DR20100308_64_qua: Electron Energies (eV) Averaged Over 1440 ns



10/03/19 16.55
ECLOUD-DR20100308_64_qua: Electron Energies (eV) Averaged Over 1440 ns



ECLOUD-DR20100308_64_qua: Electric Field at Beam



ECLOUD-DR20100308_64_quaElectric Field Gradients at Beam

