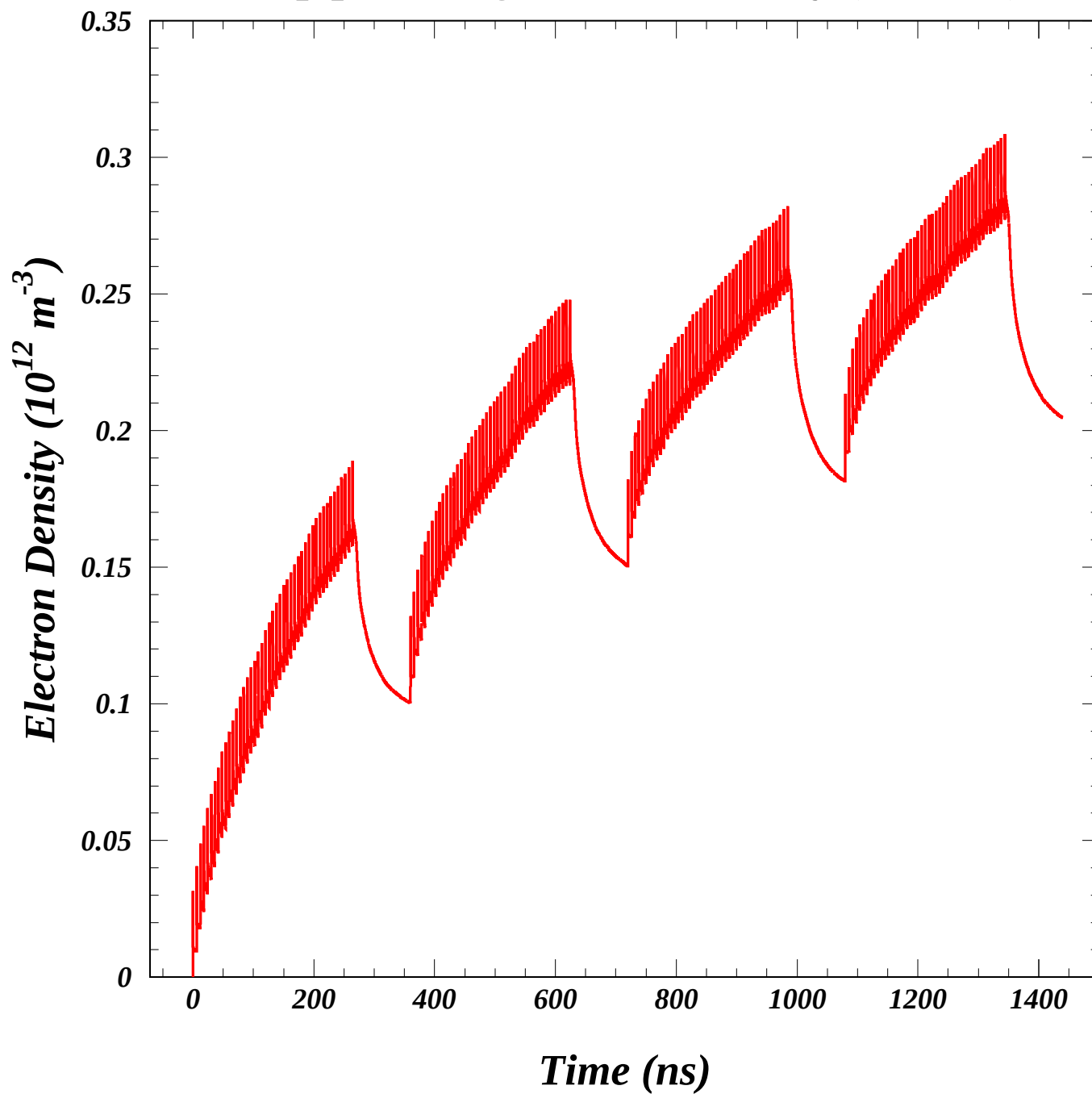
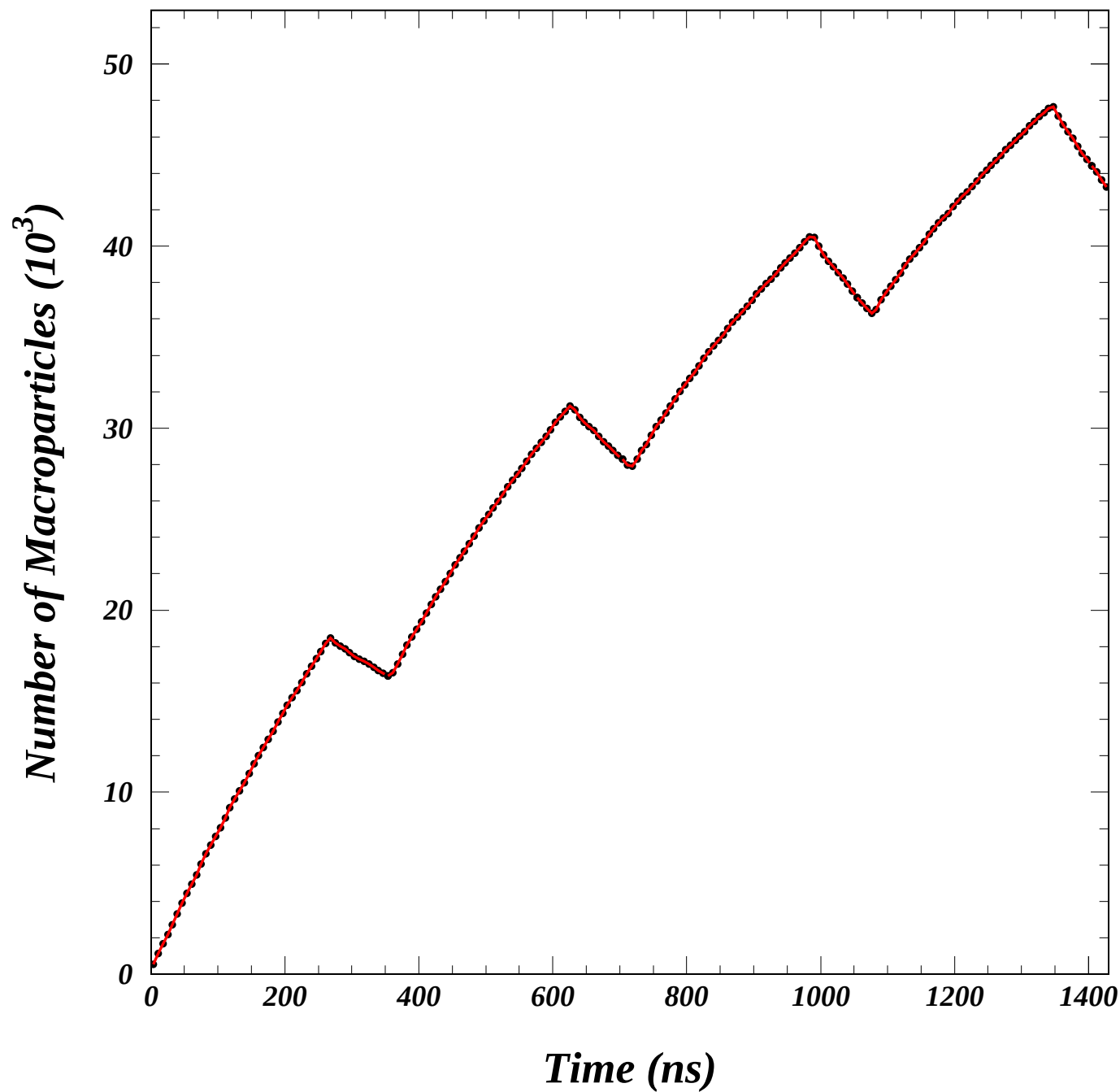
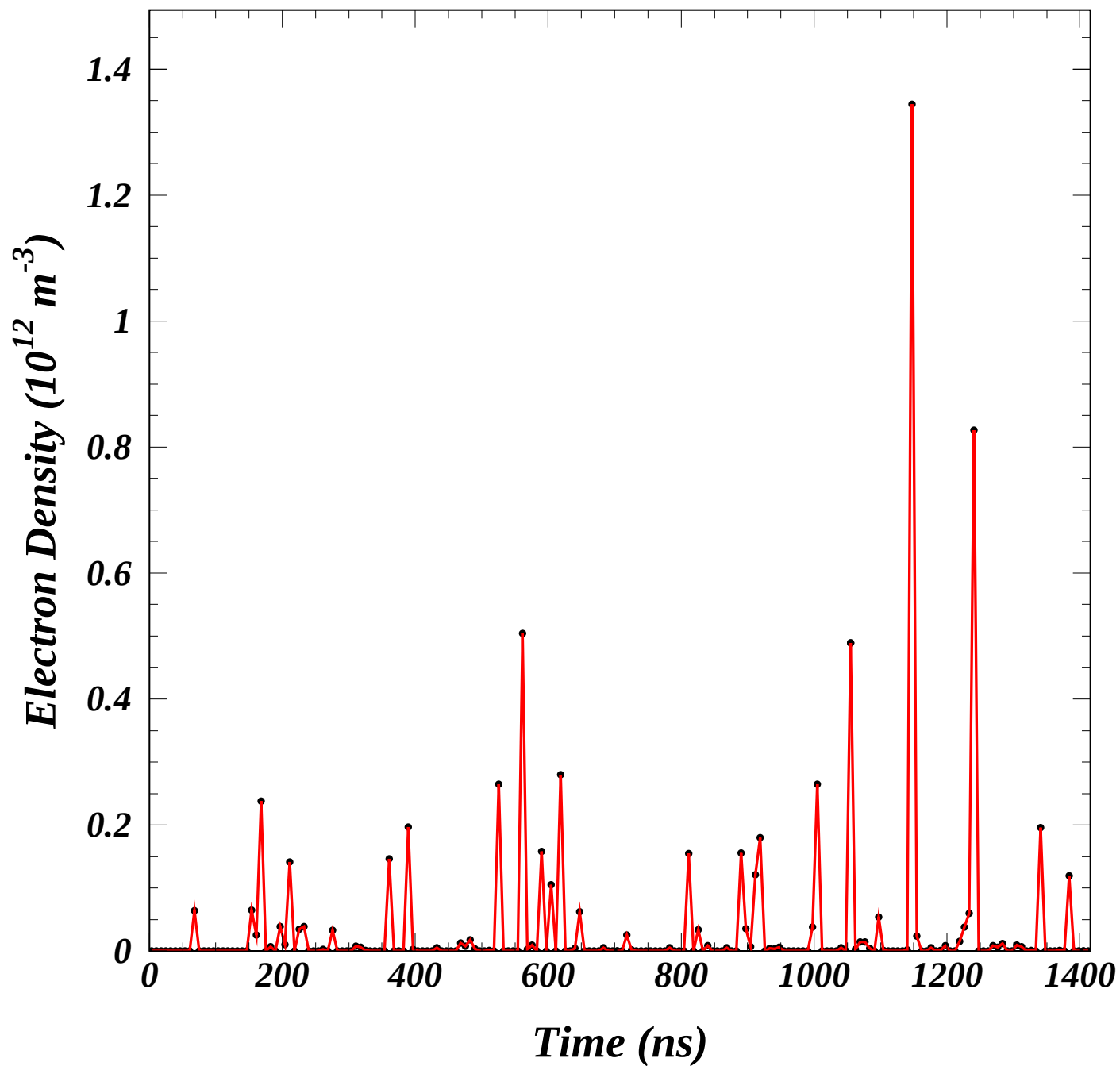


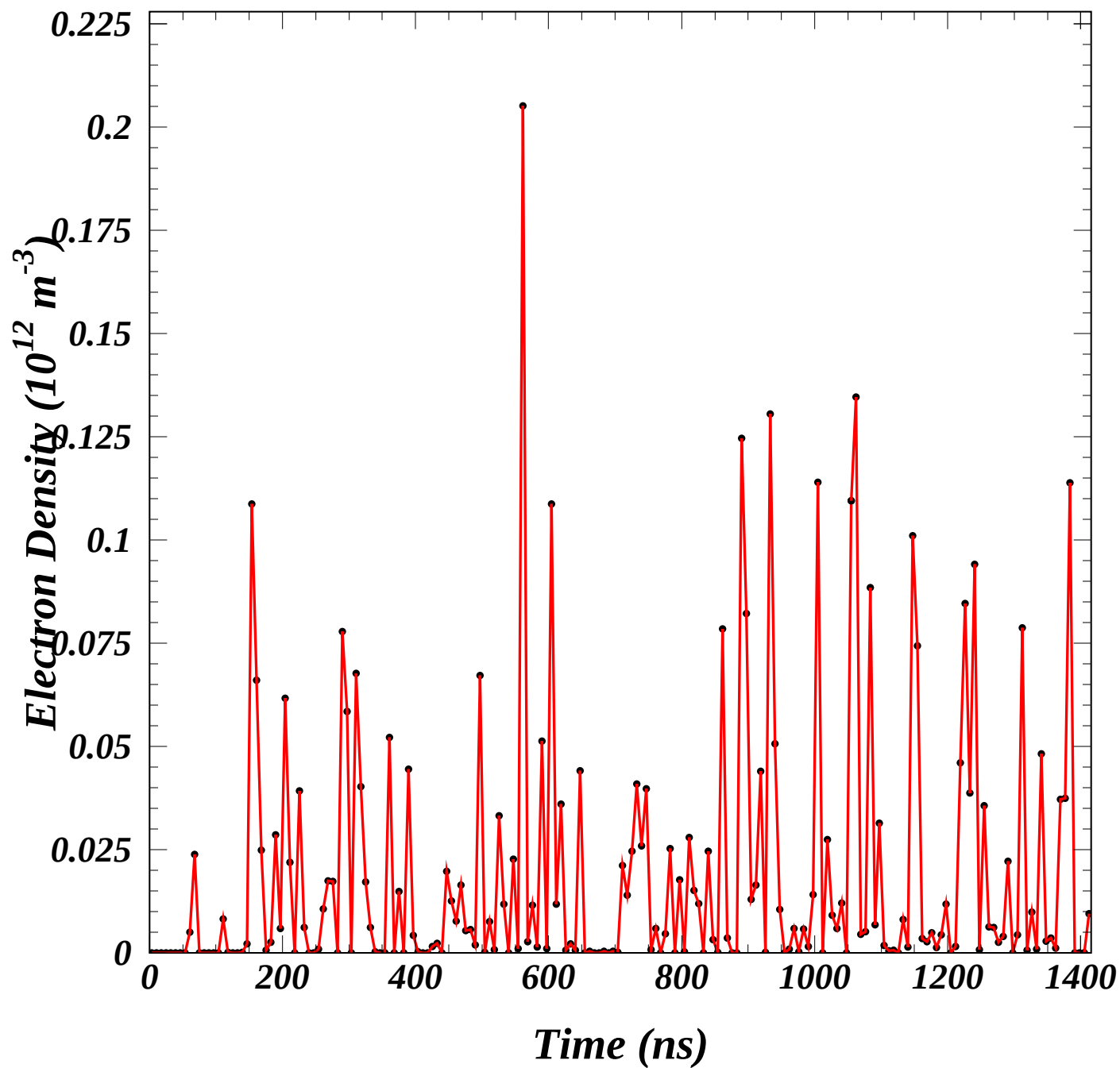
Beampipe-averaged Cloud Density (10^{12} m^{-3}) 10/03/09 15.13



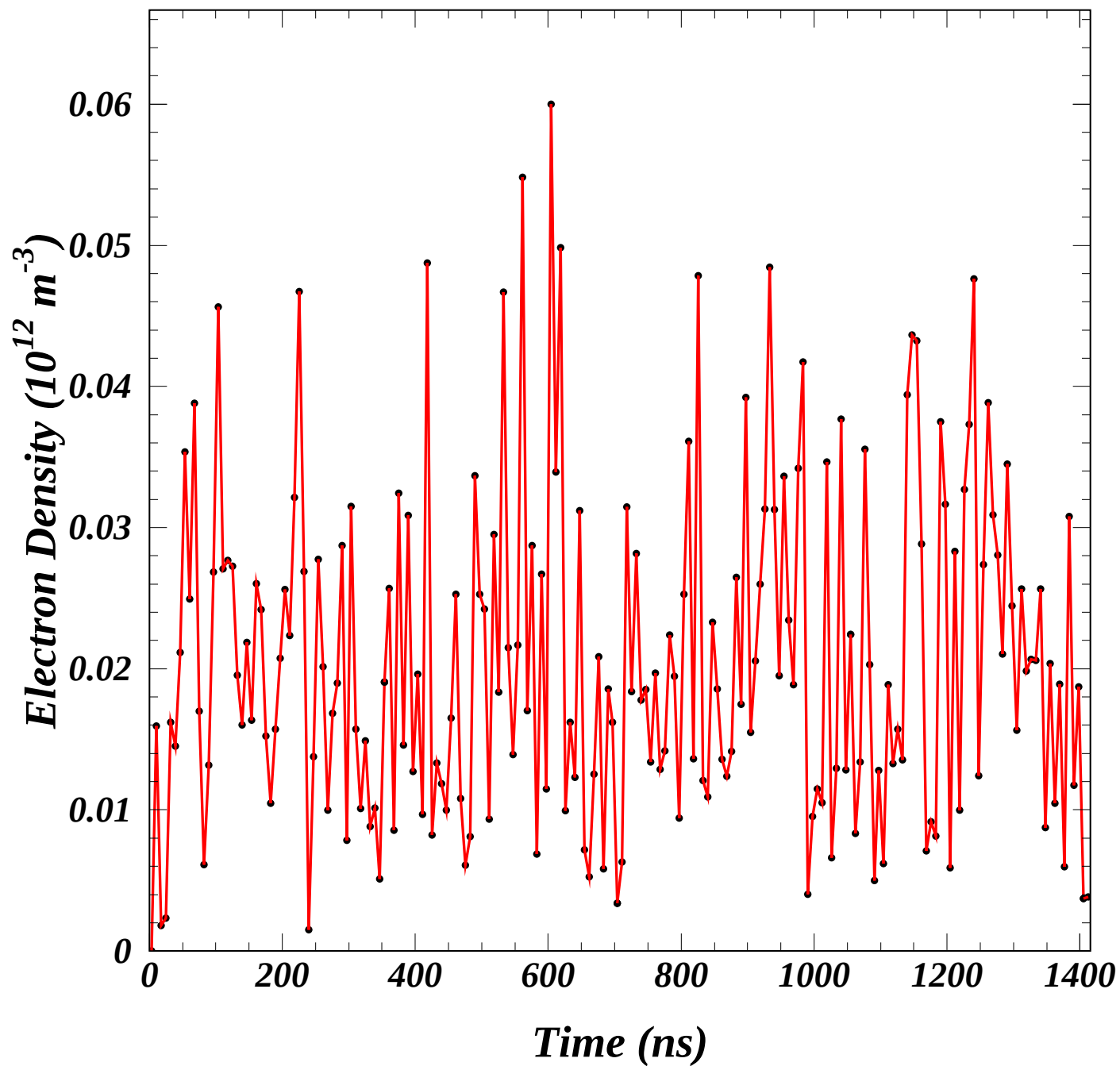
Macroparticle Statistics



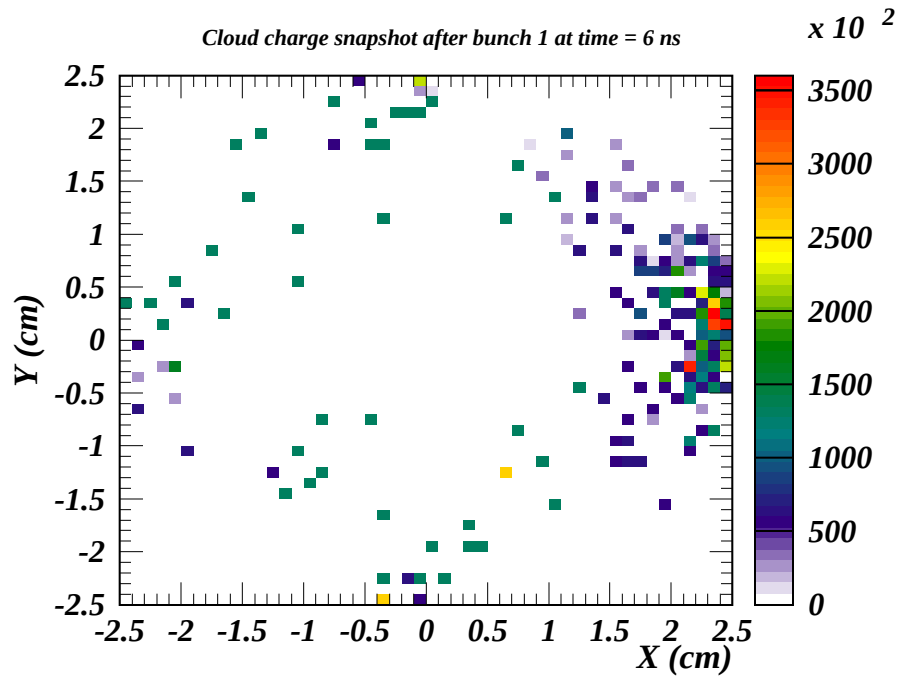
Beam-averaged Cloud Density (10^{12} m^{-3})

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

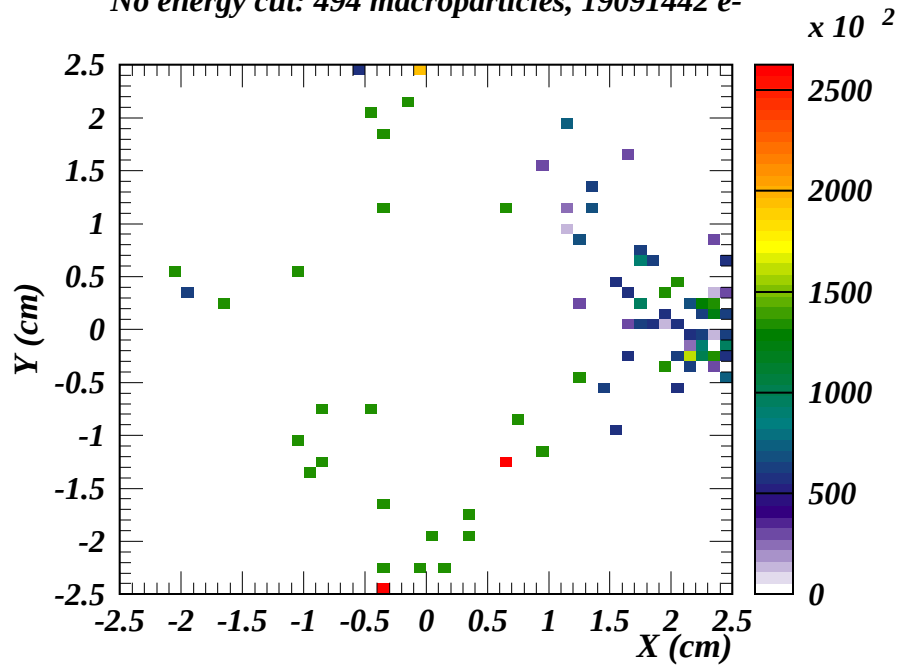
ECLOUD-DR20100308_32_qua: Cloud Density in Central Grid Cell (10^{12} m^{-3})



10/03/09 15.13



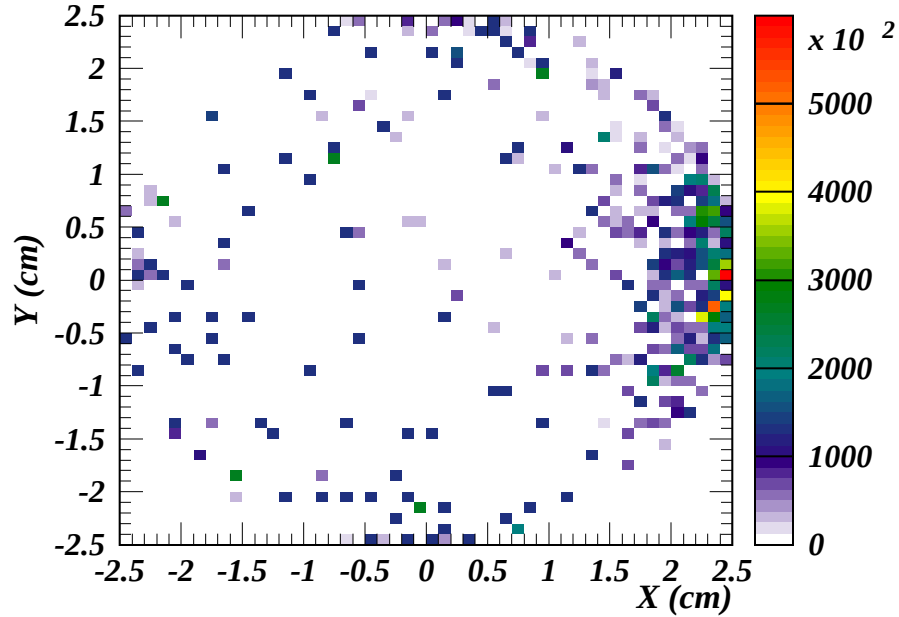
No energy cut: 494 macroparticles, 19091442 e-



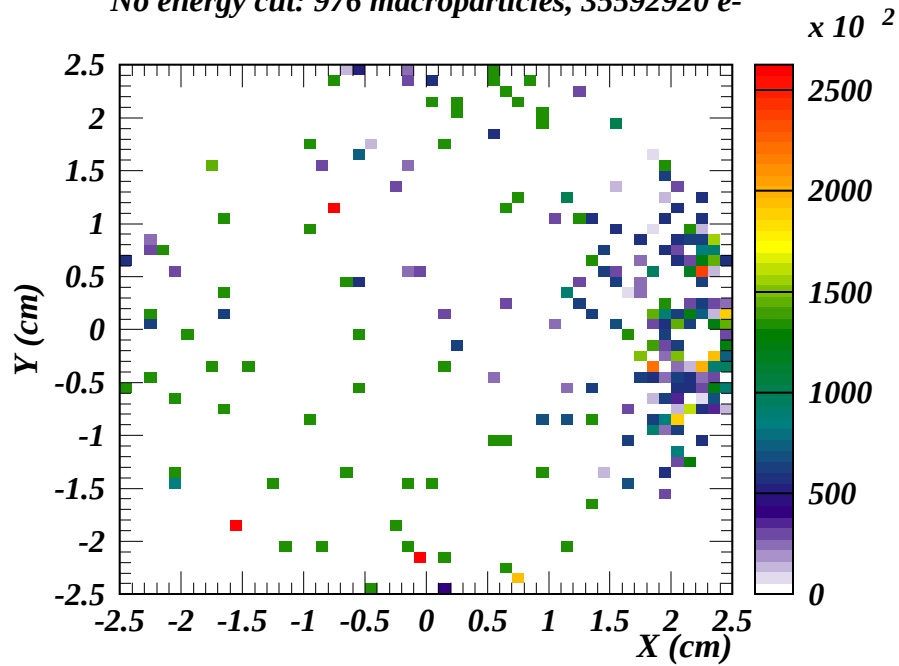
$E_{kin} > 10$ eV: 105 macroparticles, 7516062 e-

10/03/09 15.13

Cloud charge snapshot after bunch 2 at time = 12 ns



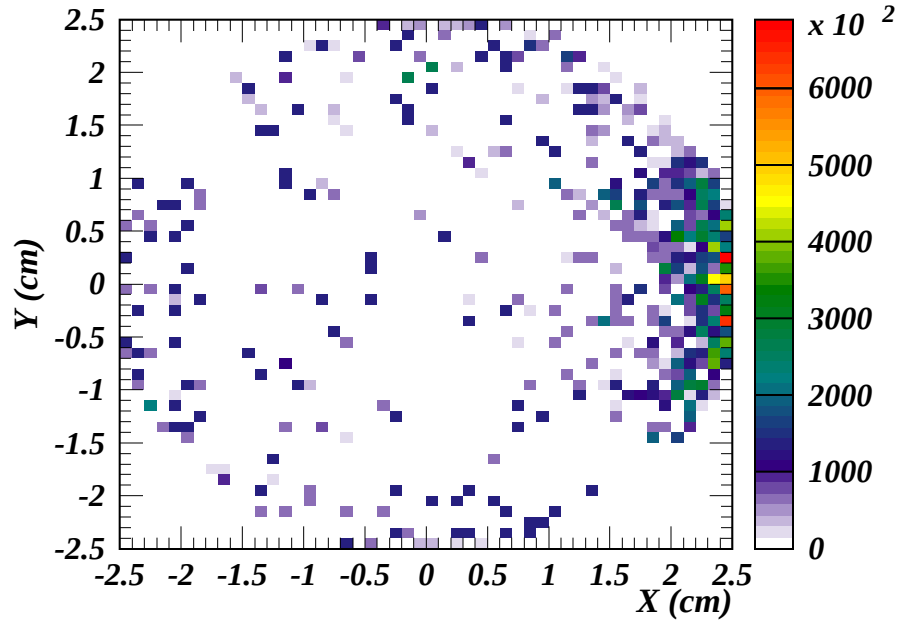
No energy cut: 976 macroparticles, 35592920 e-



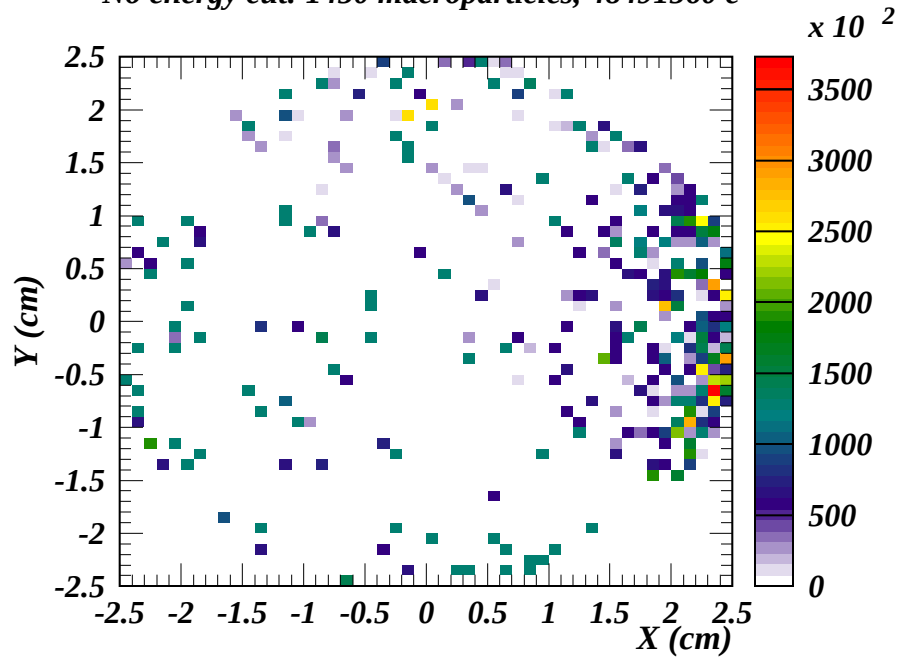
$E_{kin} > 10$ eV: 300 macroparticles, 18285716 e-

10/03/09 15.13

Cloud charge snapshot after bunch 3 at time = 18 ns



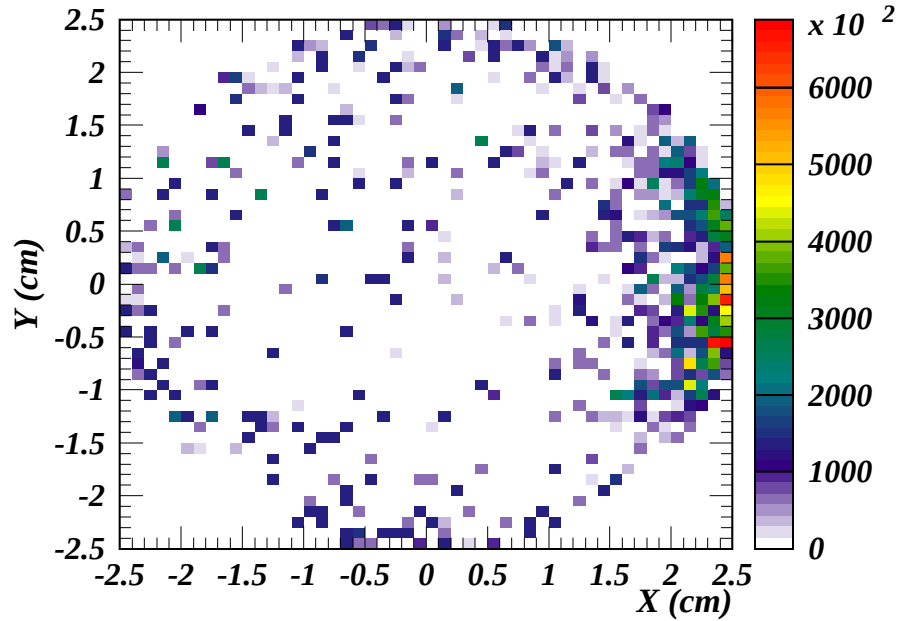
No energy cut: 1450 macroparticles, 48491560 e-



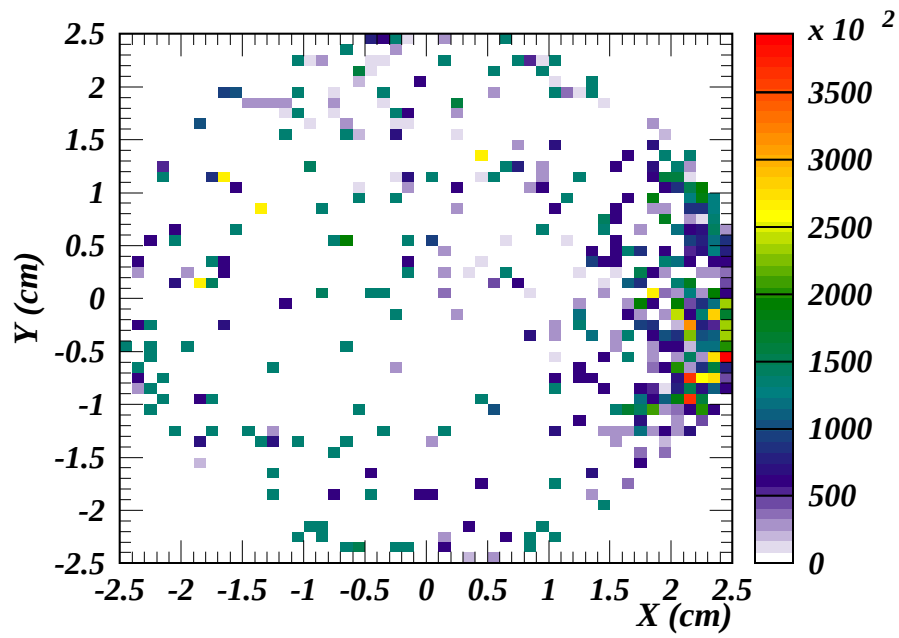
$E_{kin} > 10$ eV: 595 macroparticles, 28174034 e-

10/03/09 15.13

Cloud charge snapshot after bunch 4 at time = 24 ns

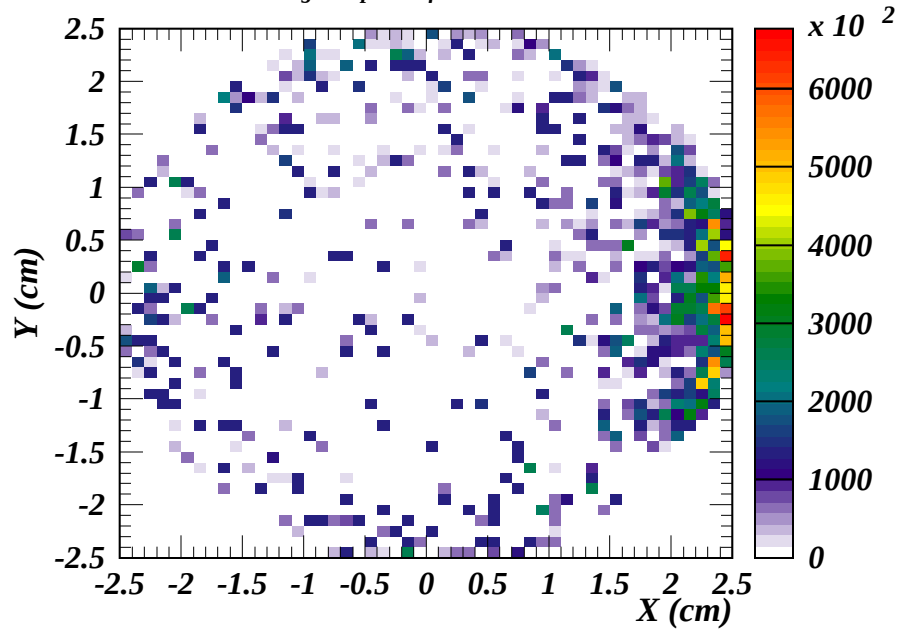


No energy cut: 1912 macroparticles, 61403120 e⁻

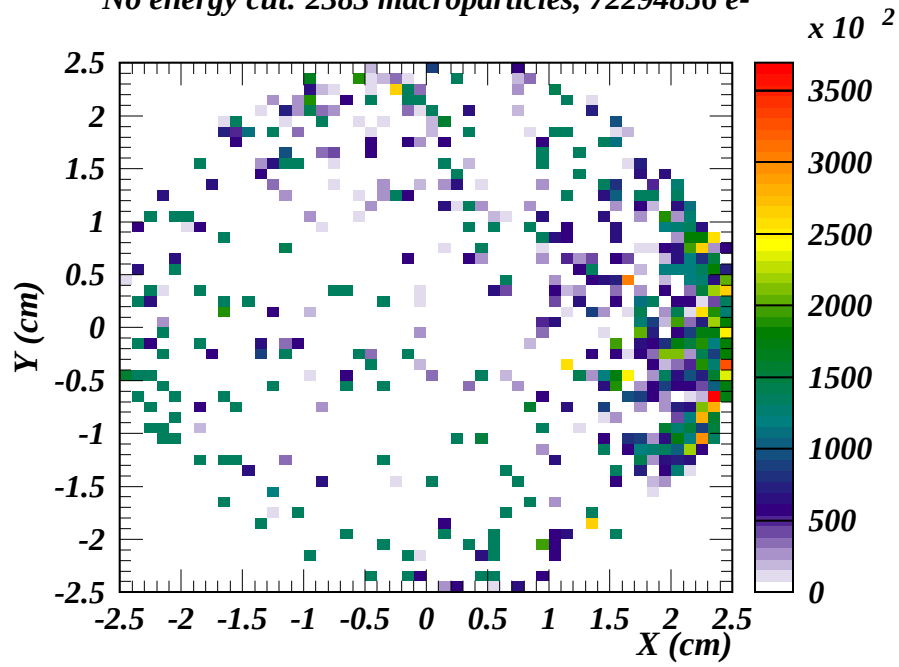


$E_{kin} > 10$ eV: 838 macroparticles, 36767928 e⁻

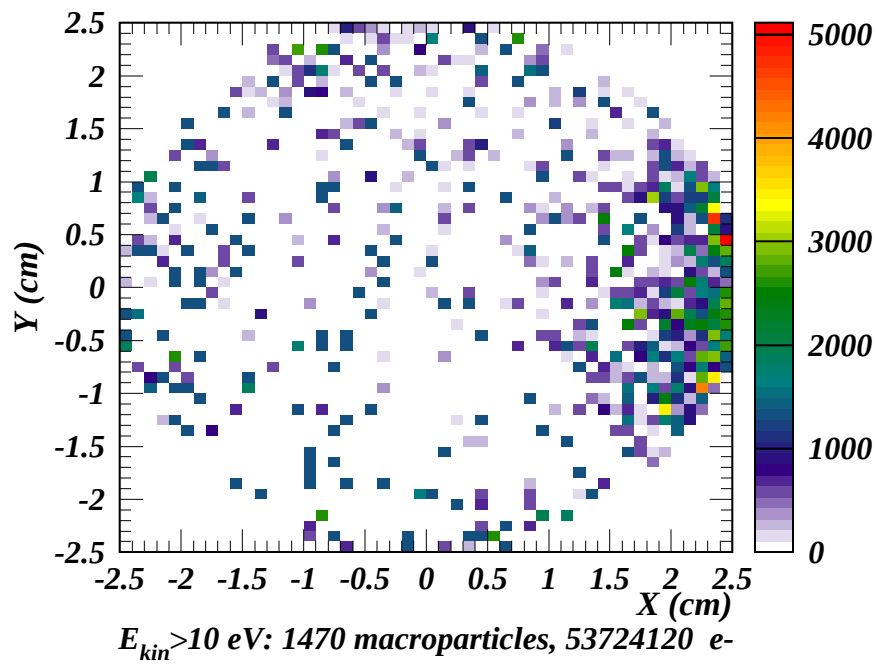
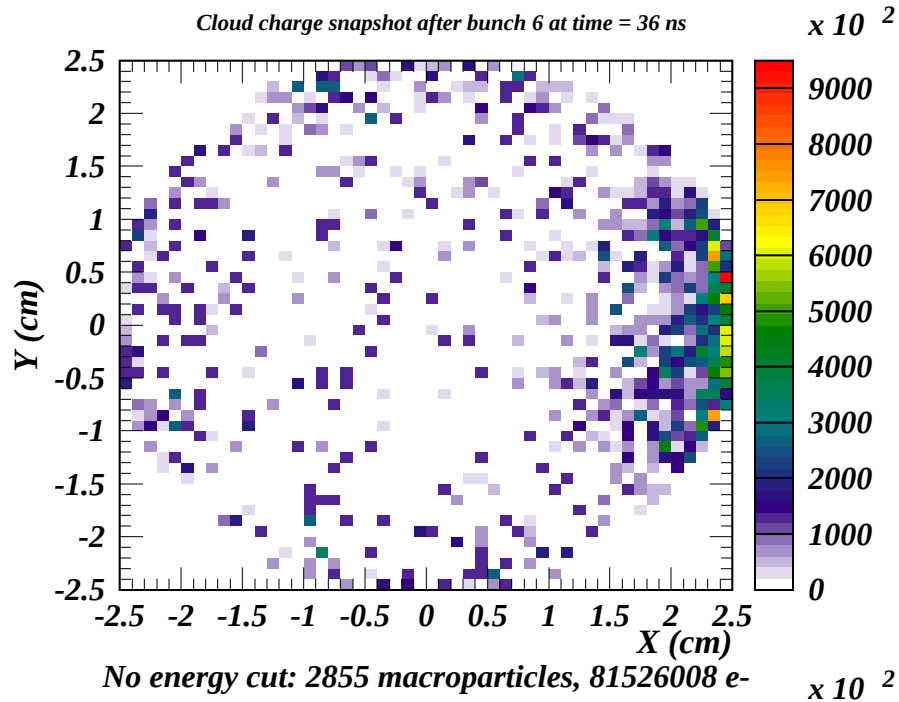
Cloud charge snapshot after bunch 5 at time = 30 ns



No energy cut: 2383 macroparticles, 72294856 e-

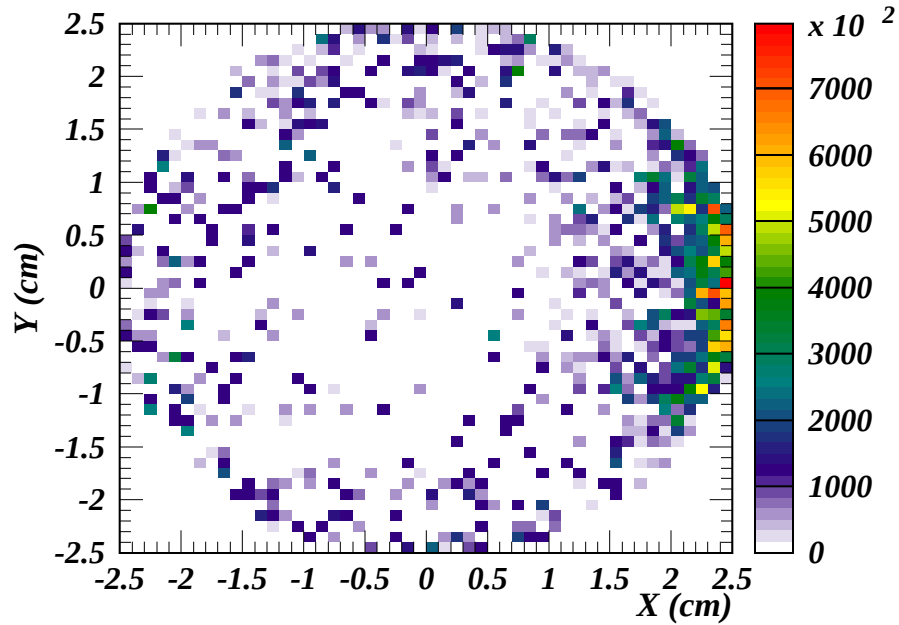
 $E_{kin} > 10$ eV: 1126 macroparticles, 45549296 e-

10/03/09 15.13

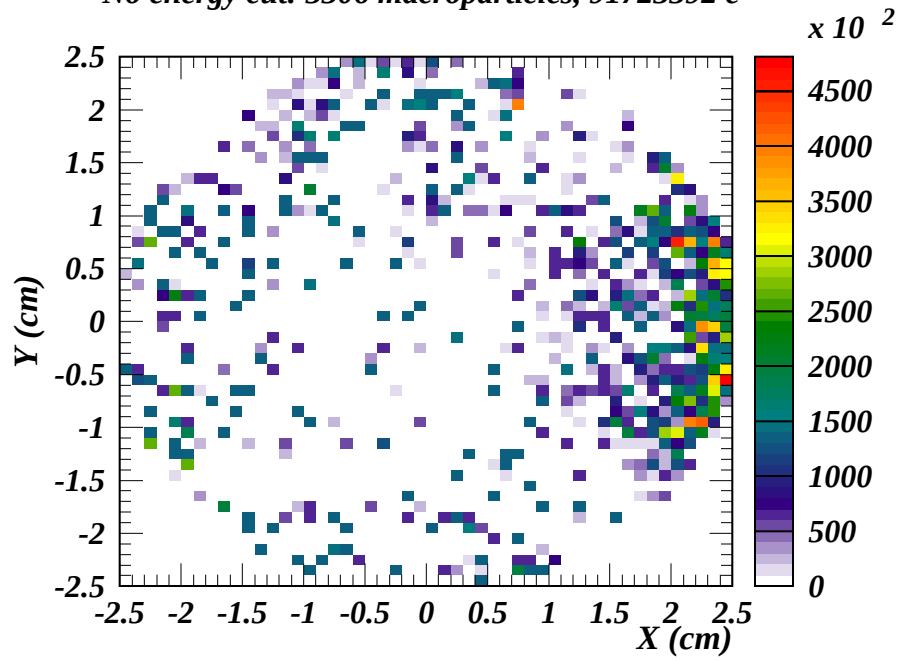


10/03/09 15.13

Cloud charge snapshot after bunch 7 at time = 42 ns

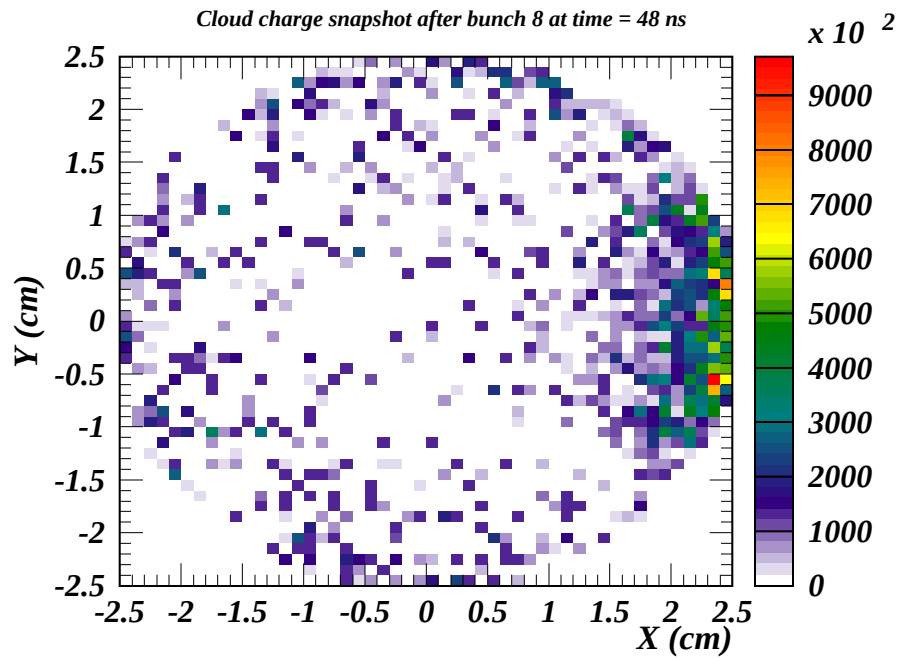


No energy cut: 3306 macroparticles, 91723392 e-

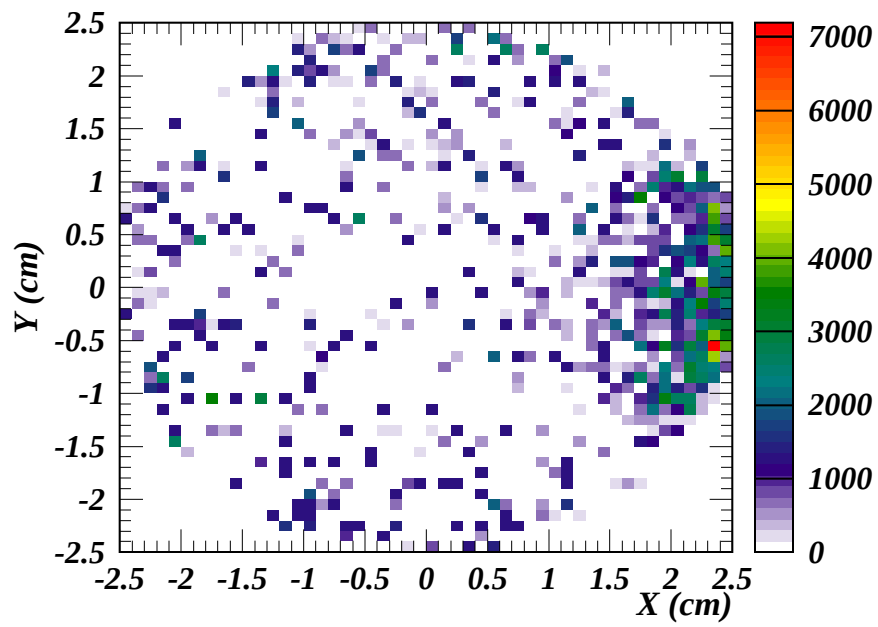


$E_{kin} > 10$ eV: 1745 macroparticles, 59891996 e-

10/03/09 15.13

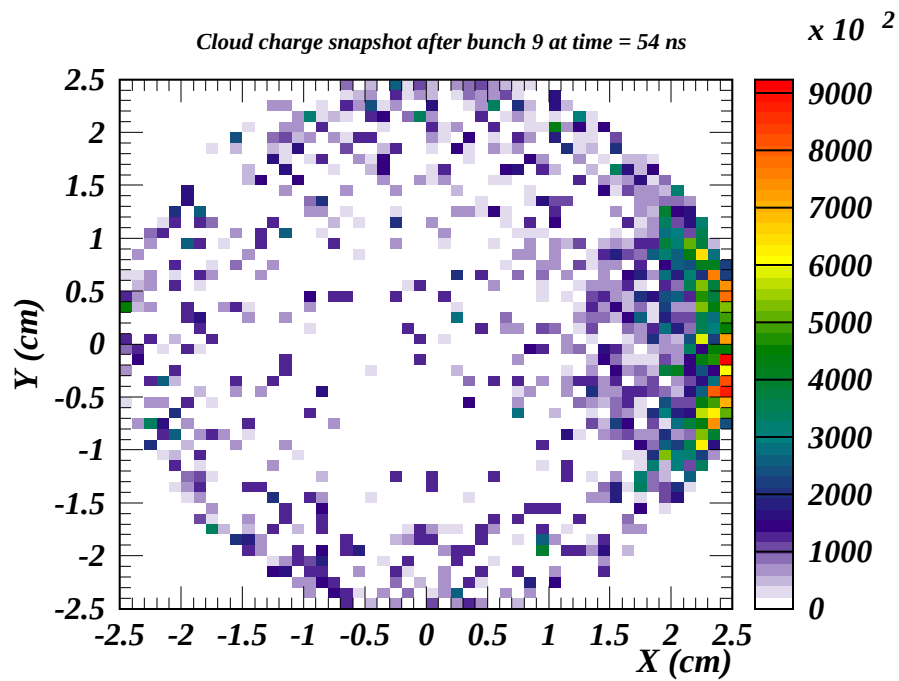


No energy cut: 3770 macroparticles, 103478888 e^- $\times 10^2$

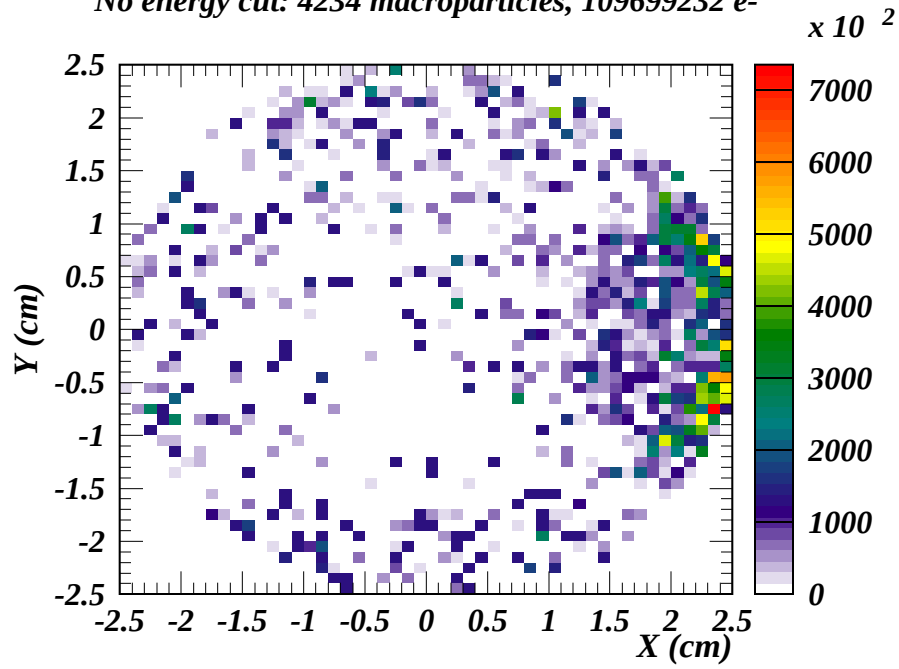


$E_{kin} > 10 \text{ eV}$: 2118 macroparticles, 69223560 e^-

10/03/09 15.13

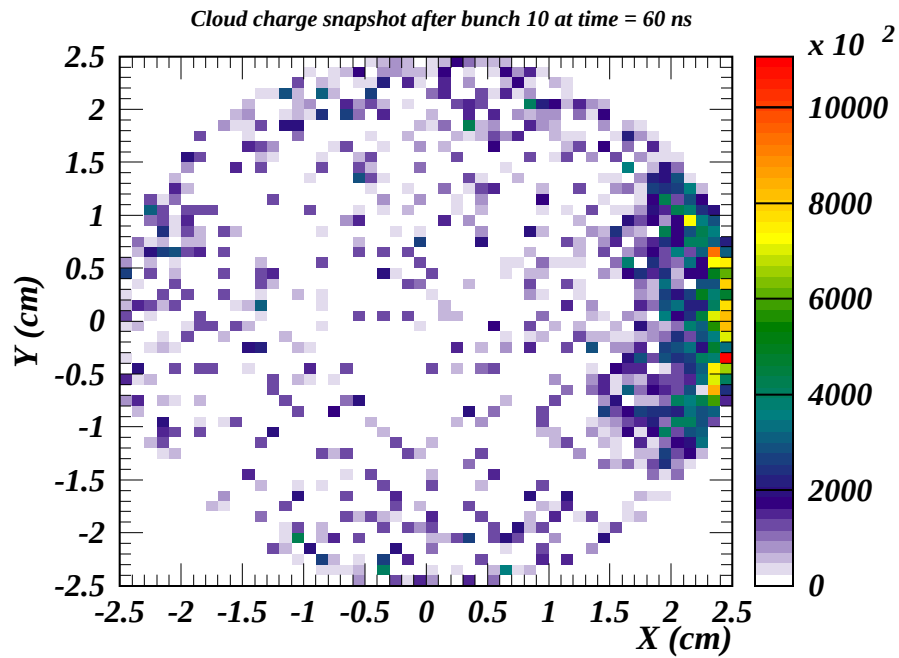


No energy cut: 4234 macroparticles, 109699232 e-

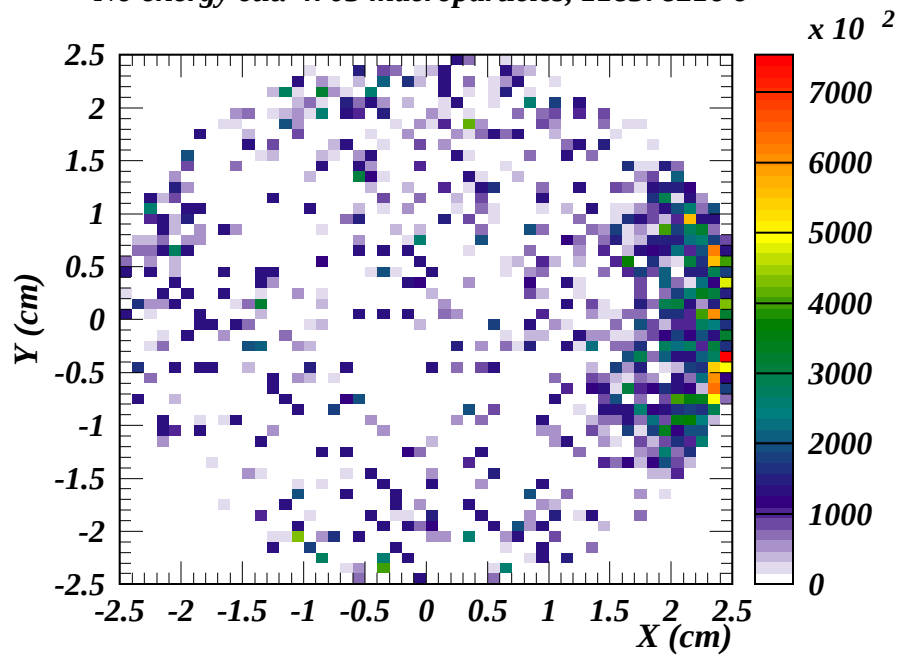


$E_{kin} > 10$ eV: 2458 macroparticles, 75321456 e-

10/03/09 15.13

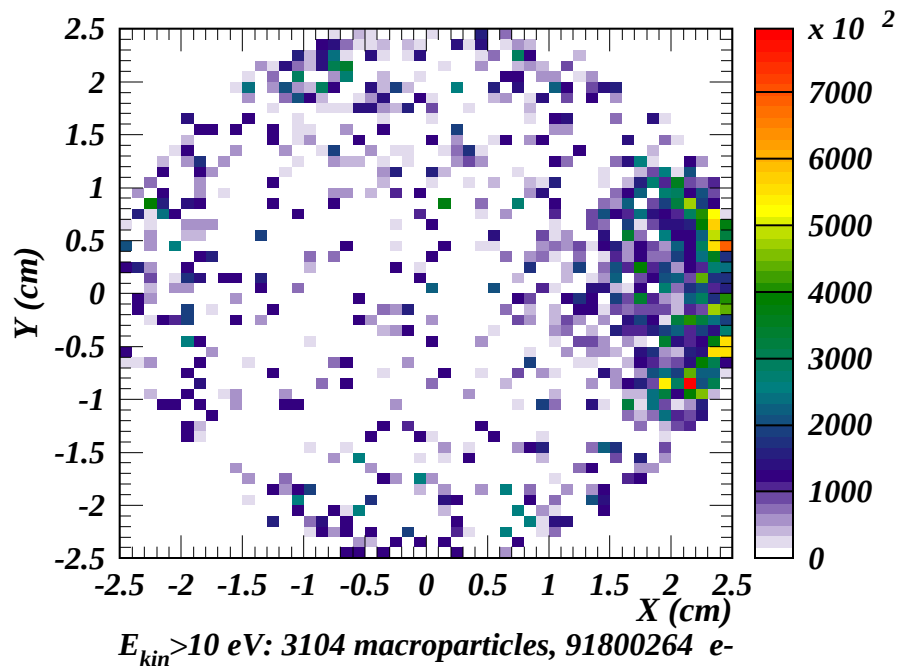
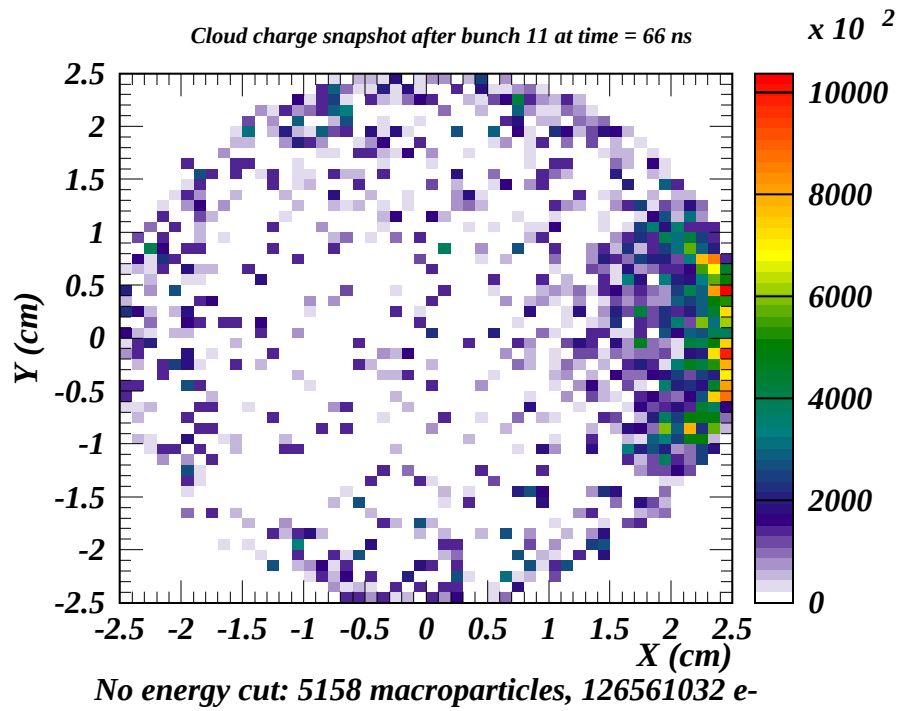


No energy cut: 4703 macroparticles, 118378216 e-

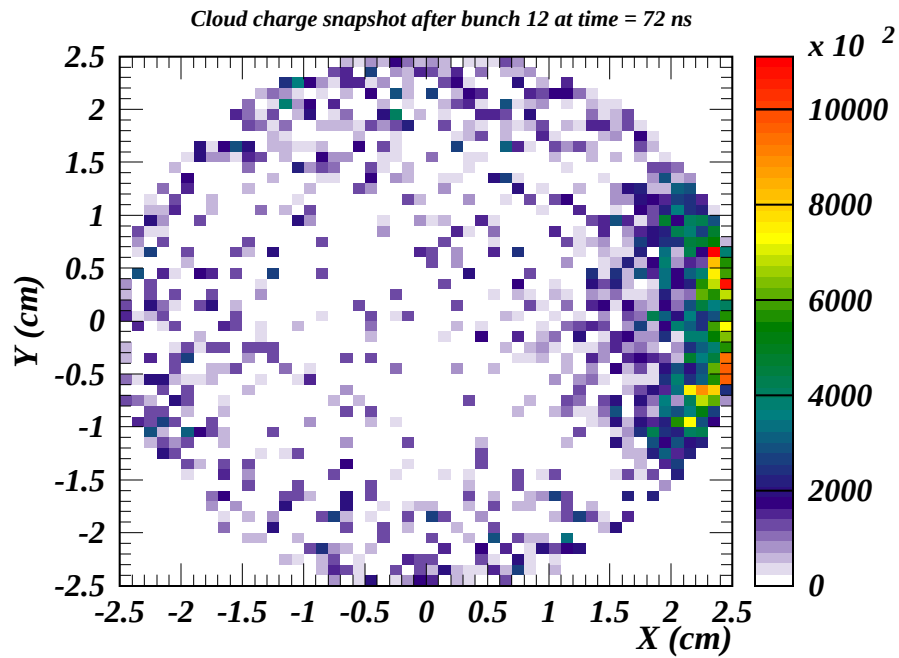


$E_{kin} > 10$ eV: 2807 macroparticles, 84010200 e-

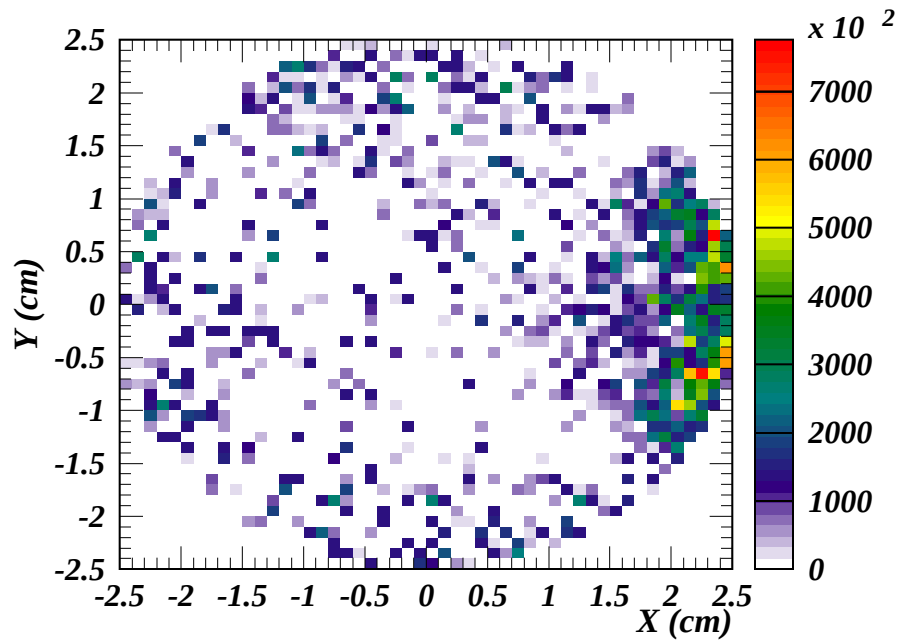
10/03/09 15.13



10/03/09 15.13



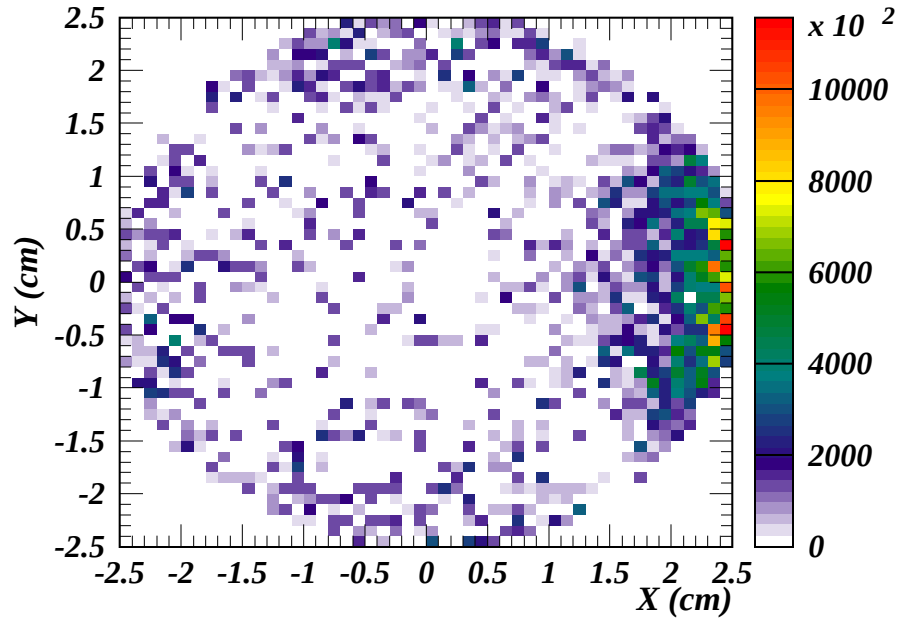
No energy cut: 5616 macroparticles, 135379344 e-



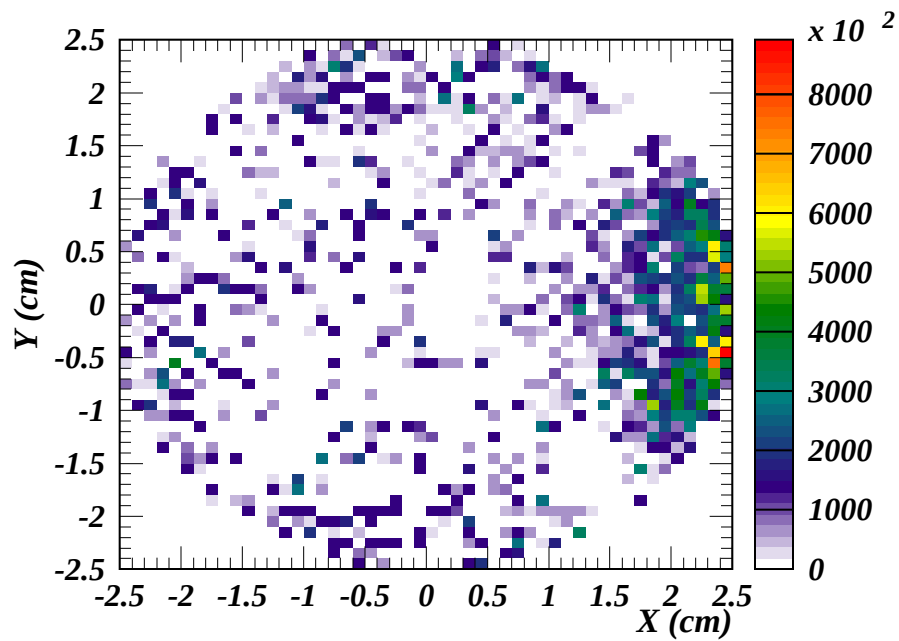
$E_{kin} > 10 \text{ eV}$: 3445 macroparticles, 97940960 e-

10/03/09 15.13

Cloud charge snapshot after bunch 13 at time = 78 ns

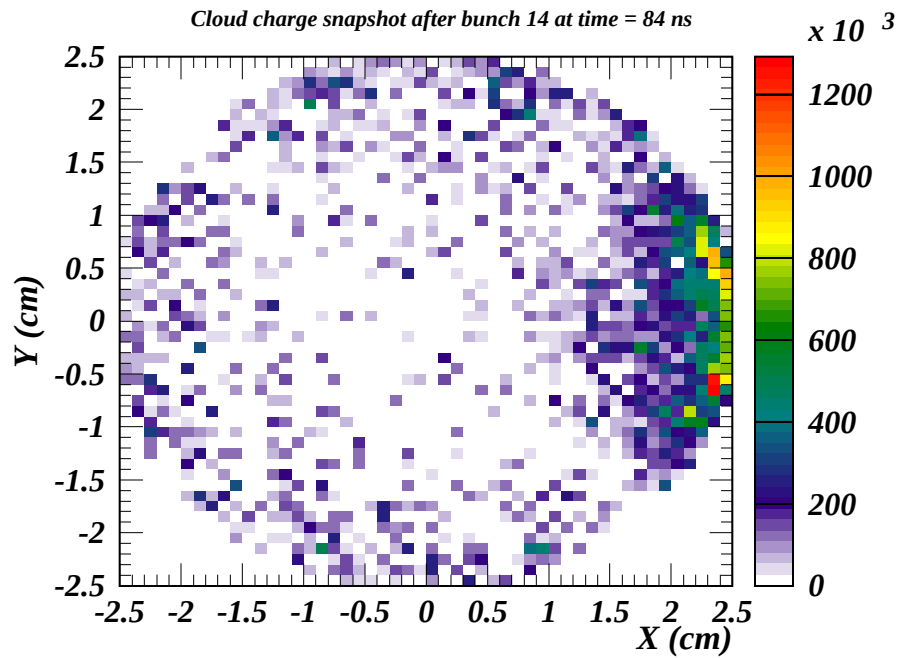


No energy cut: 6055 macroparticles, 144201952 e-

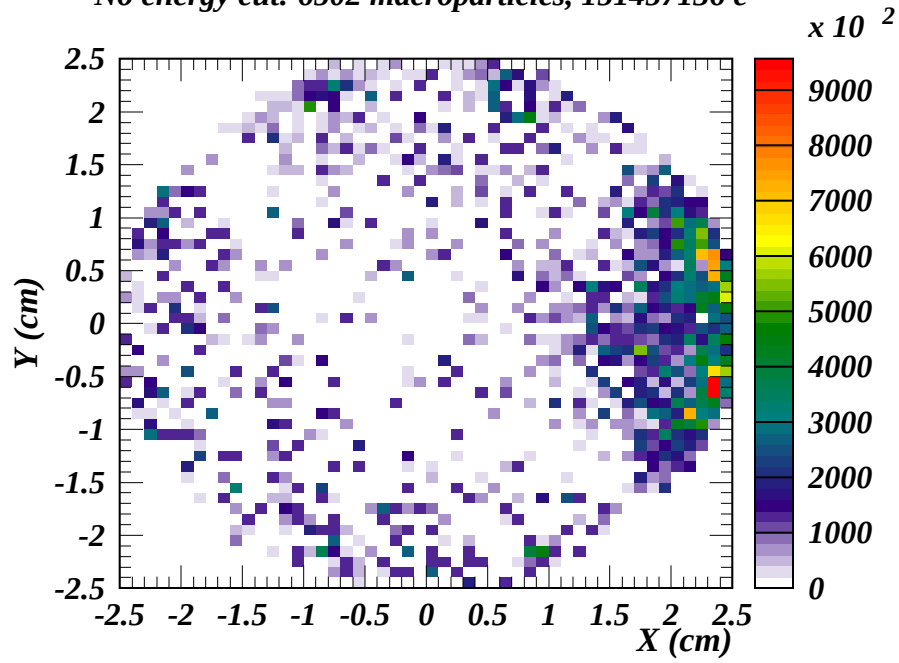


$E_{kin} > 10$ eV: 3916 macroparticles, 108896504 e-

10/03/09 15.13

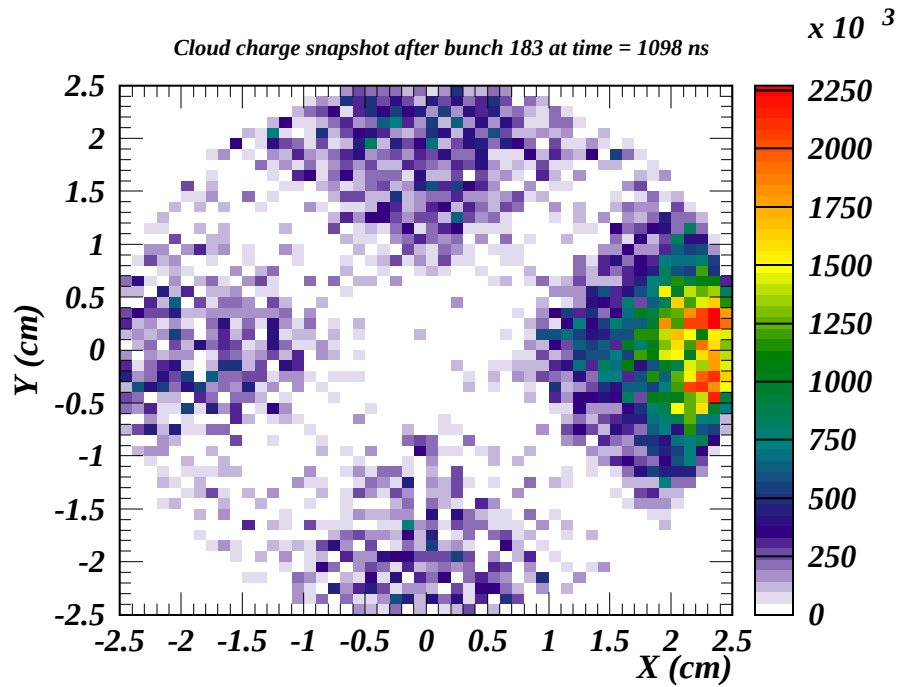


No energy cut: 6502 macroparticles, 151457136 e-

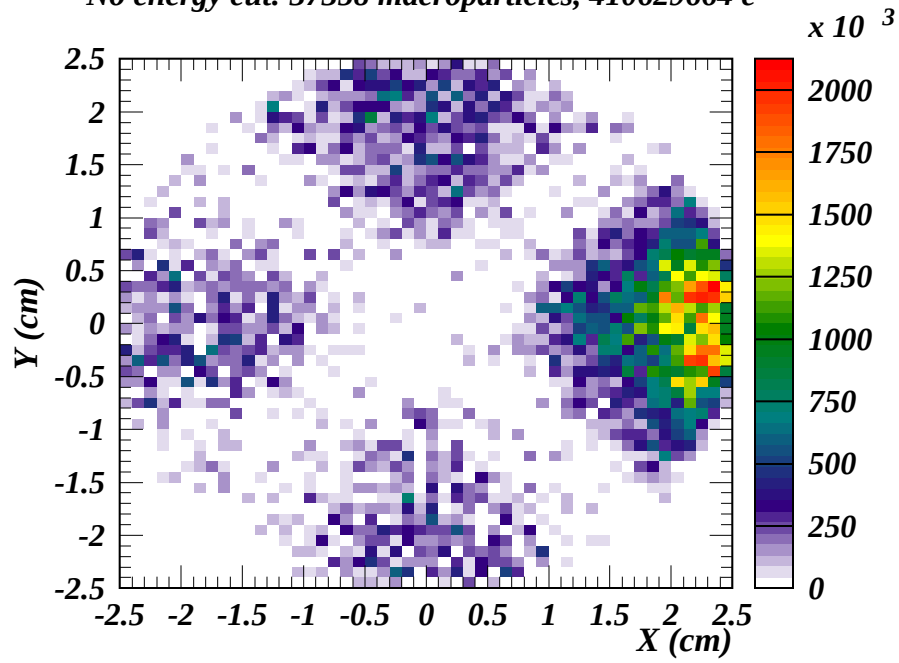


$E_{kin} > 10$ eV: 4252 macroparticles, 111846712 e-

10/03/09 15.13

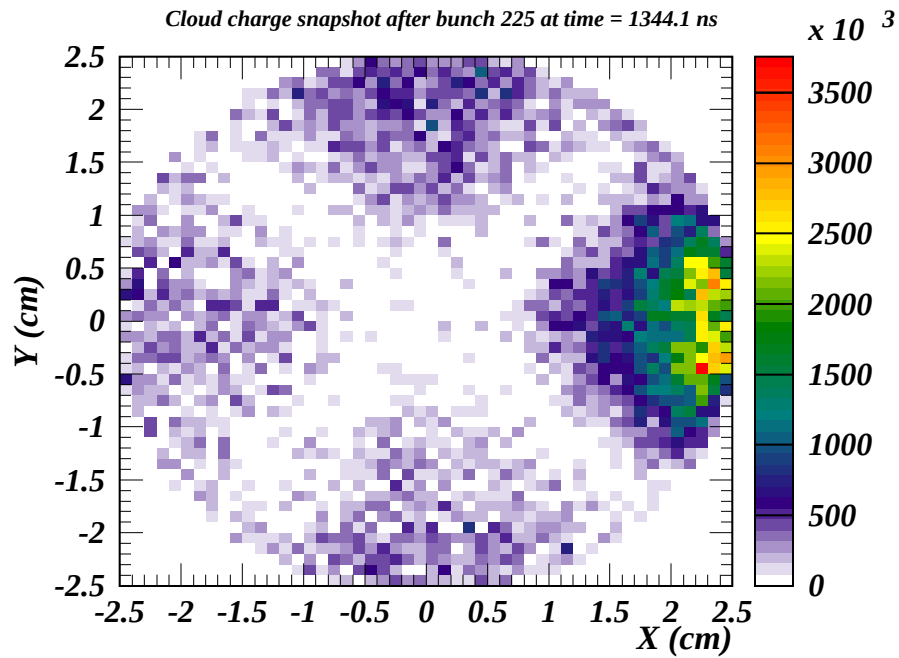


No energy cut: 37358 macroparticles, 410629664 e-

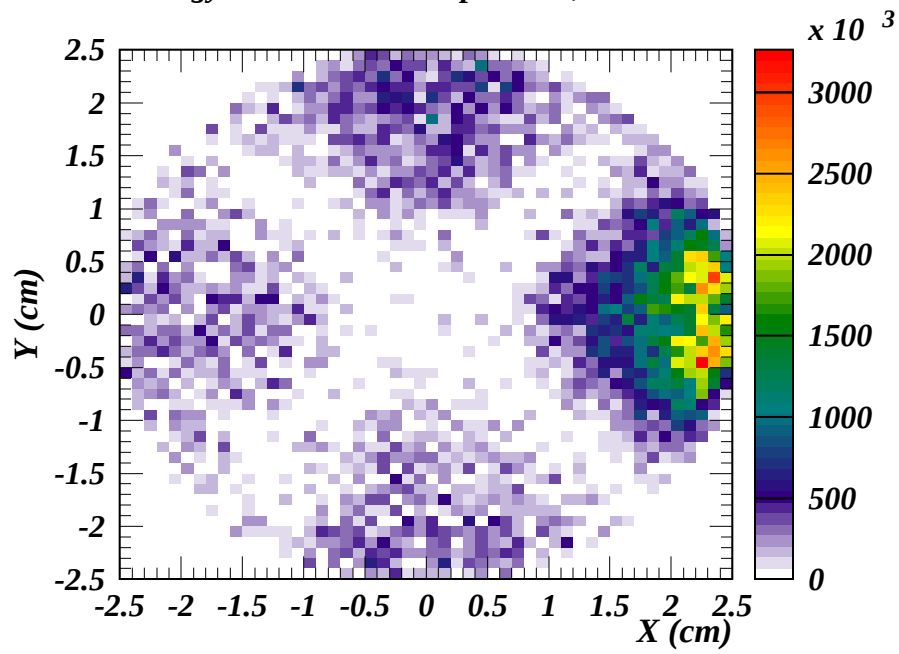


$E_{kin} > 10$ eV: 31063 macroparticles, 369428864 e-

10/03/09 15.13



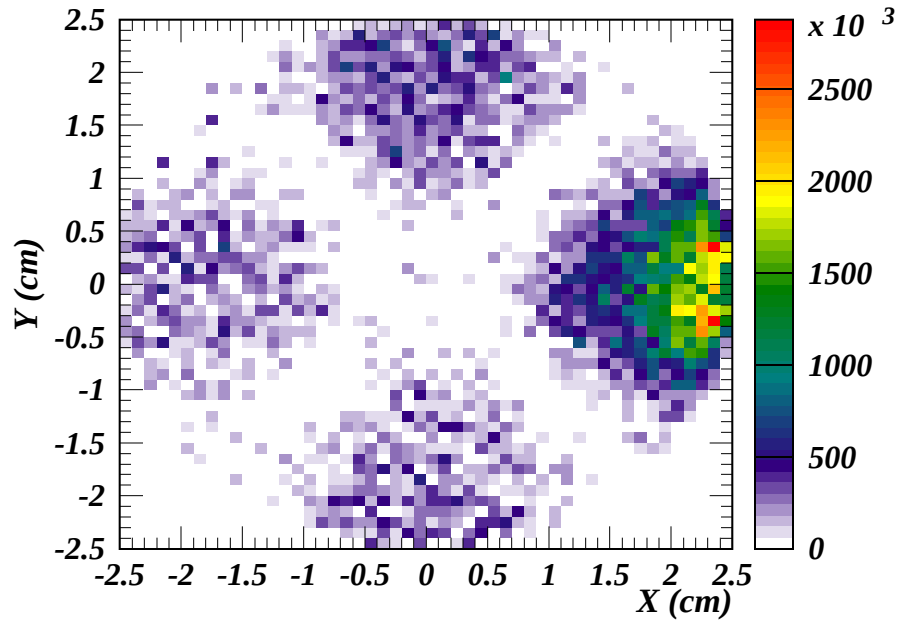
No energy cut: 47834 macroparticles, 622703936 e-



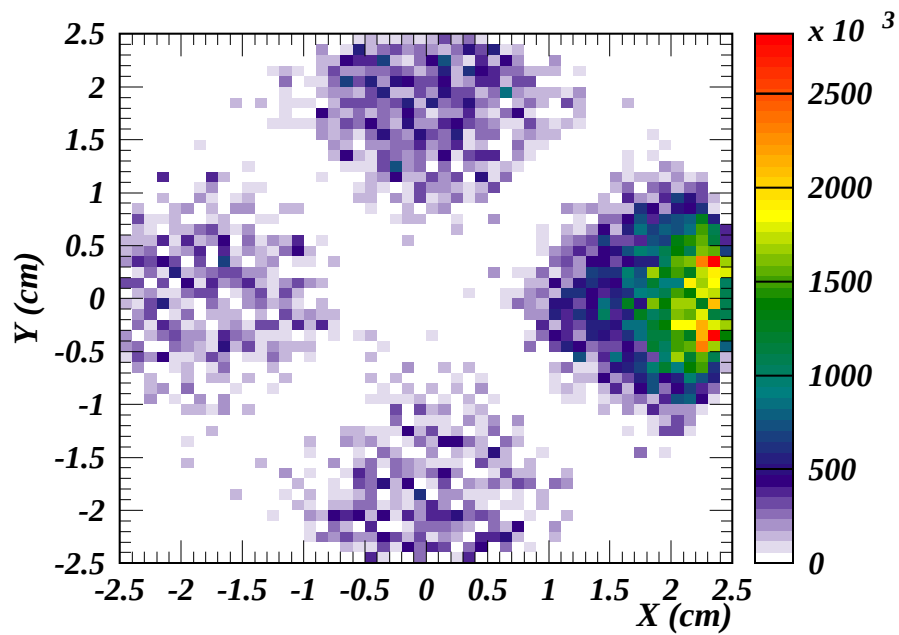
$E_{kin} > 10 \text{ eV}$: 42657 macroparticles, 544509568 e-

10/03/09 15.13

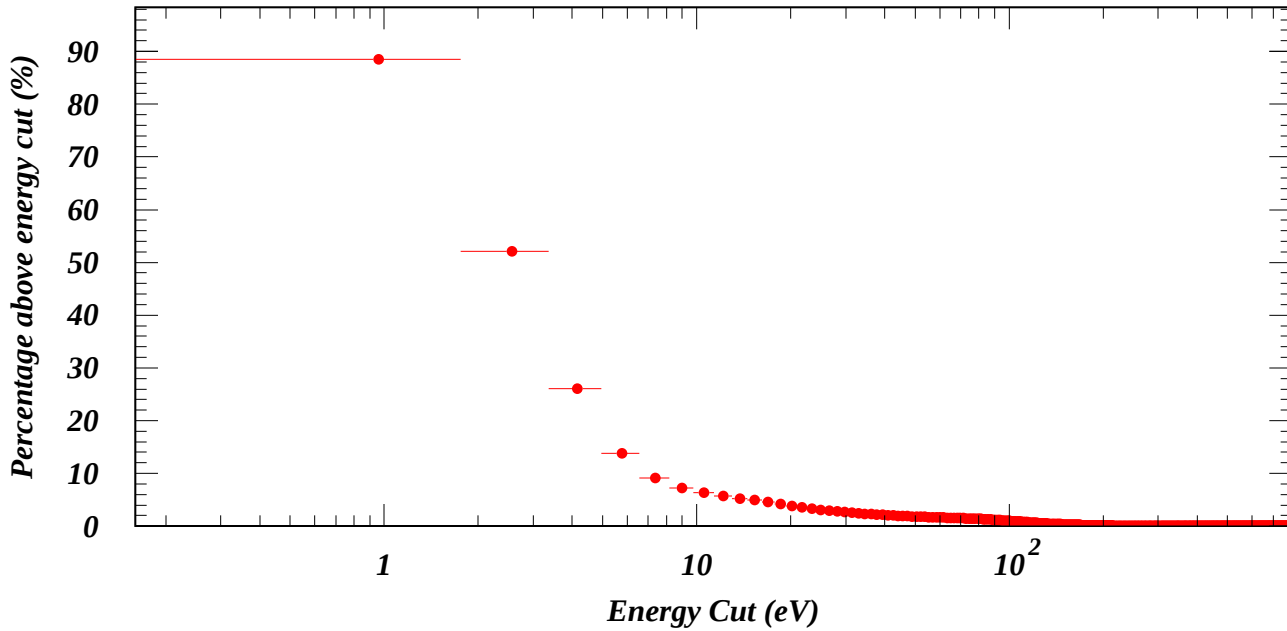
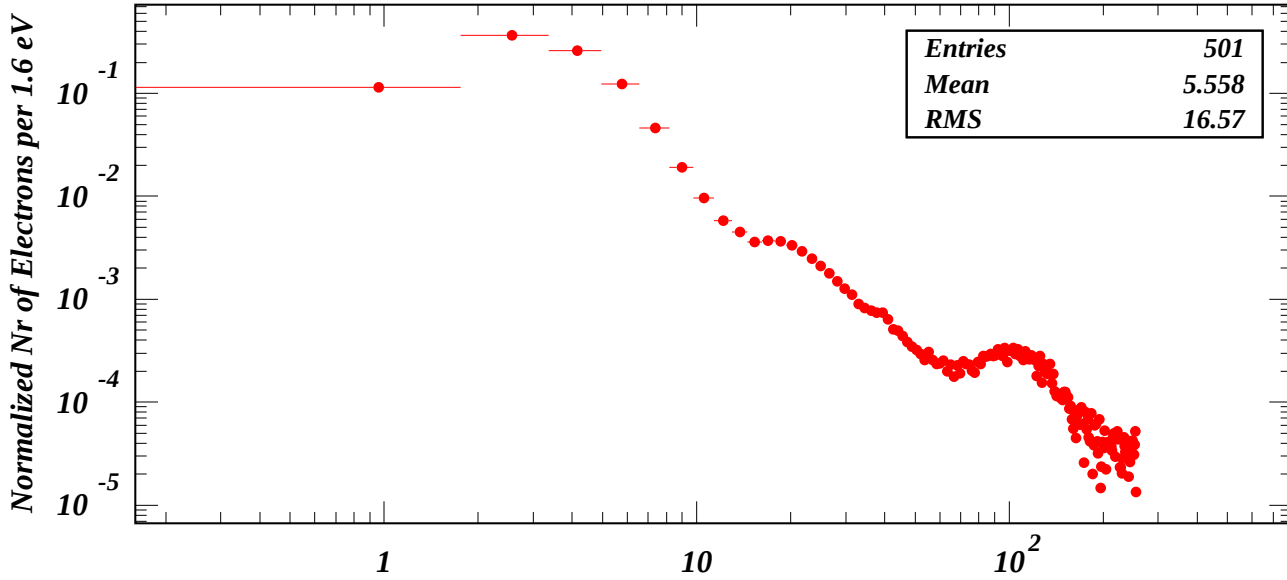
Cloud charge snapshot after bunch 241 at time = 1440 ns

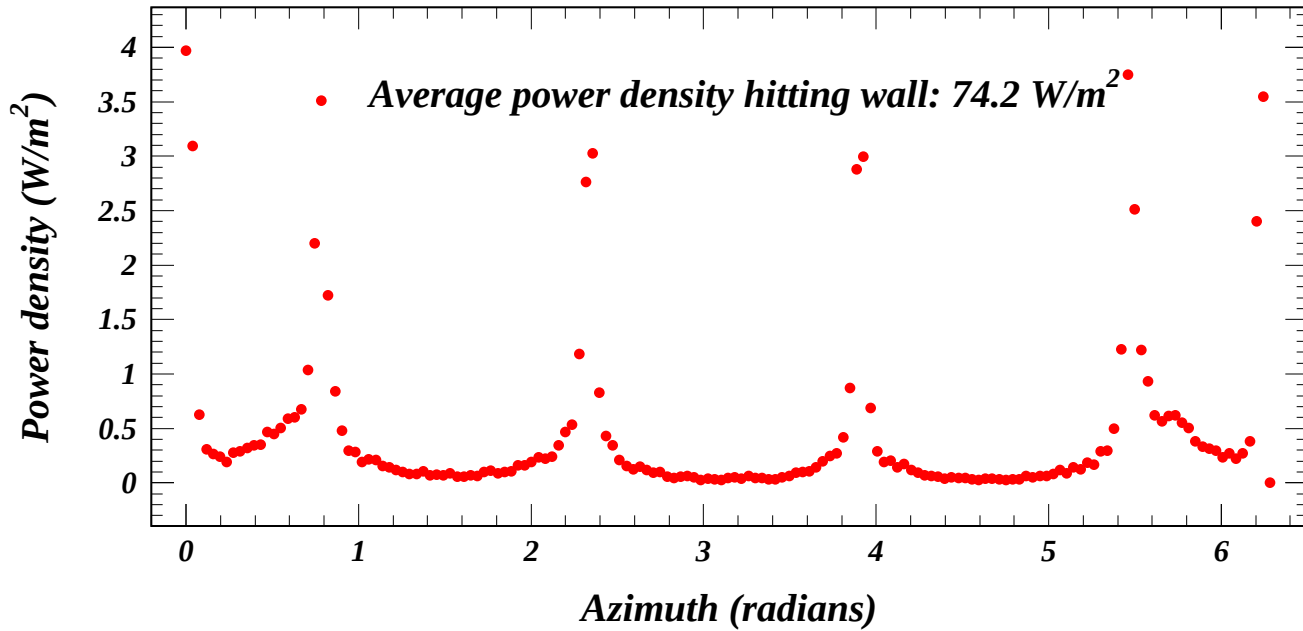
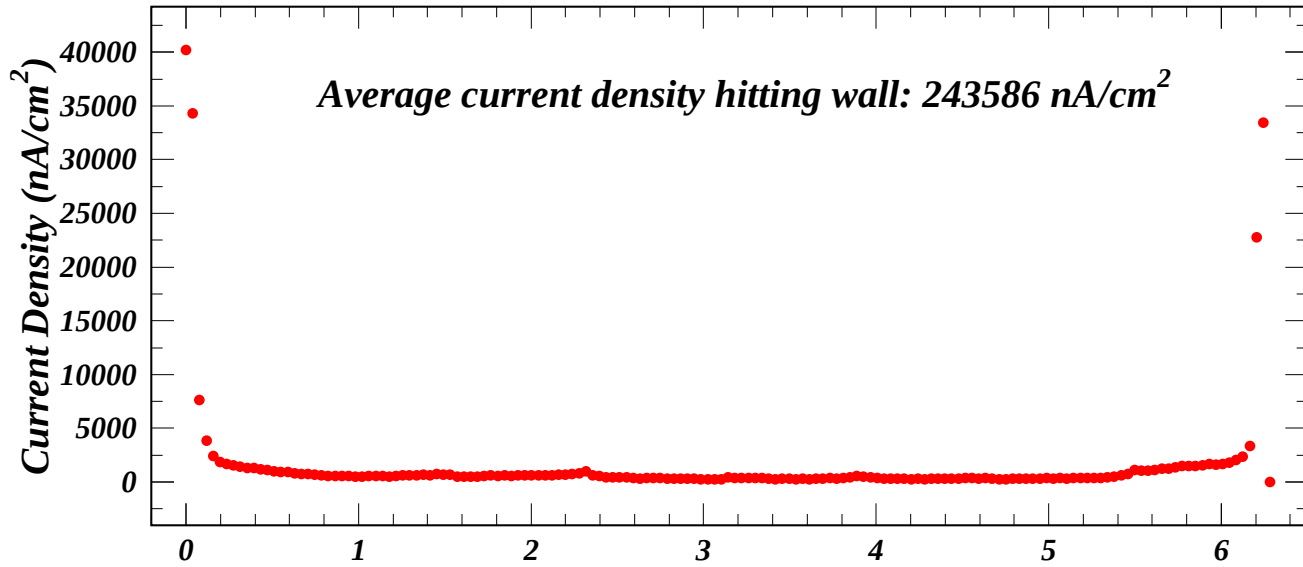


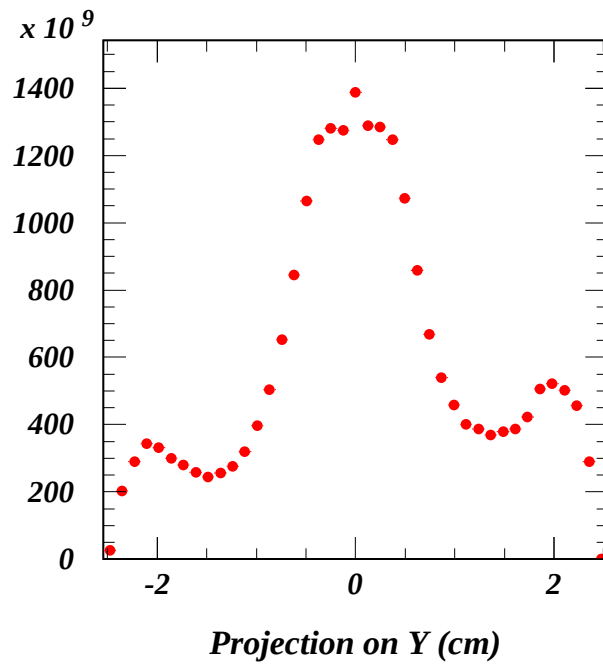
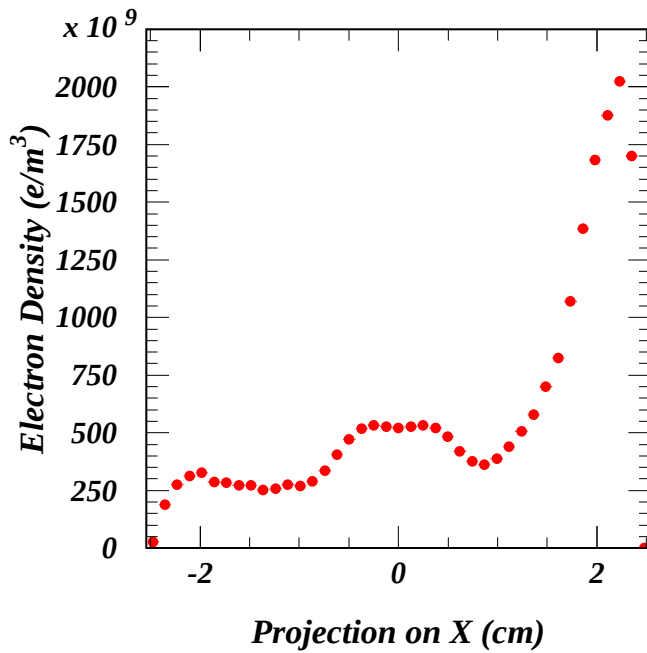
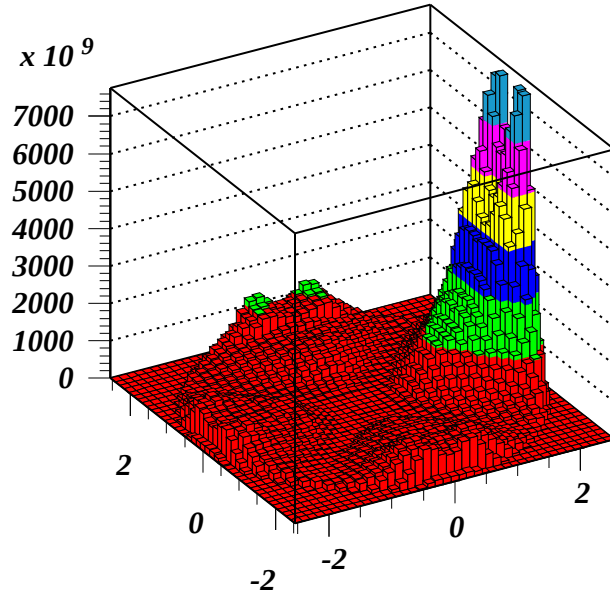
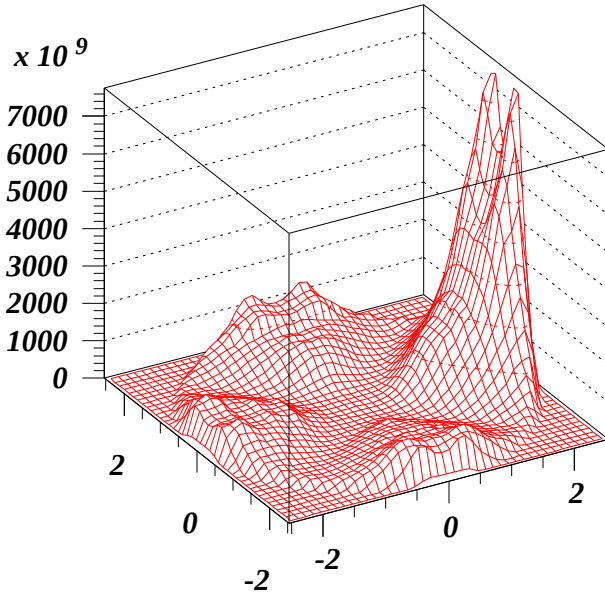
No energy cut: 42580 macroparticles, 414834656 e-



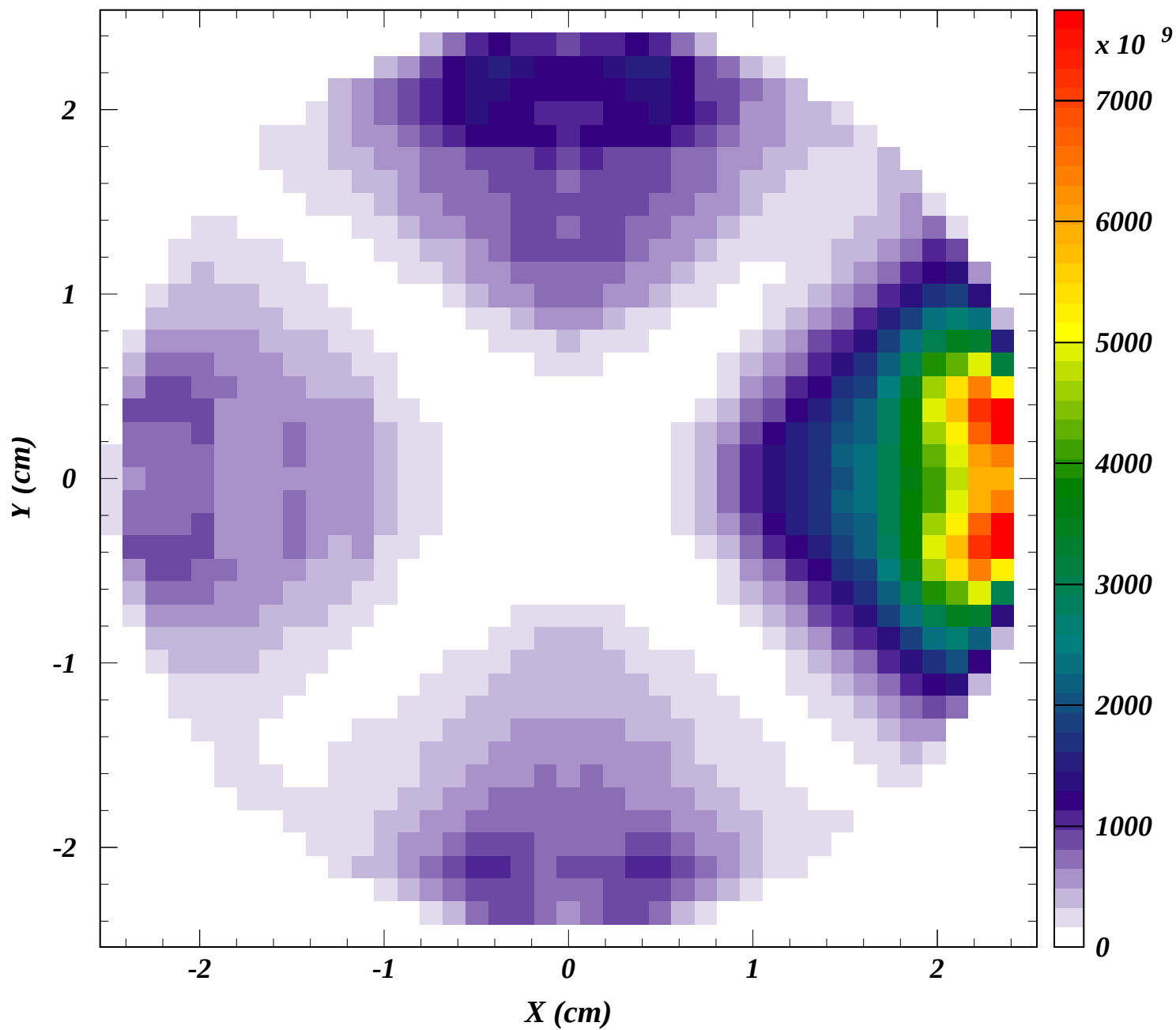
$E_{kin} > 10$ eV: 31666 macroparticles, 387051936 e-

ECLOUD-DR20100308_32_qua: Time-Integrated Energies of Electrons Hitting Wall

ECLOUD-DR20100308_32_qua: Time-Integrated Energies of Electrons Hitting Wall

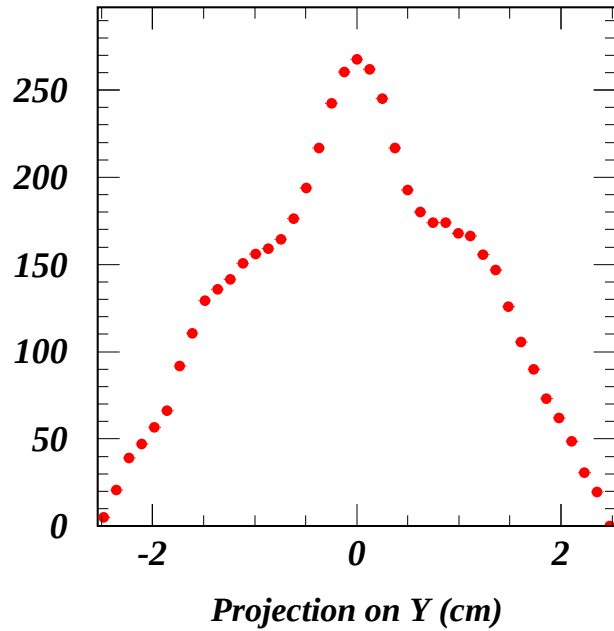
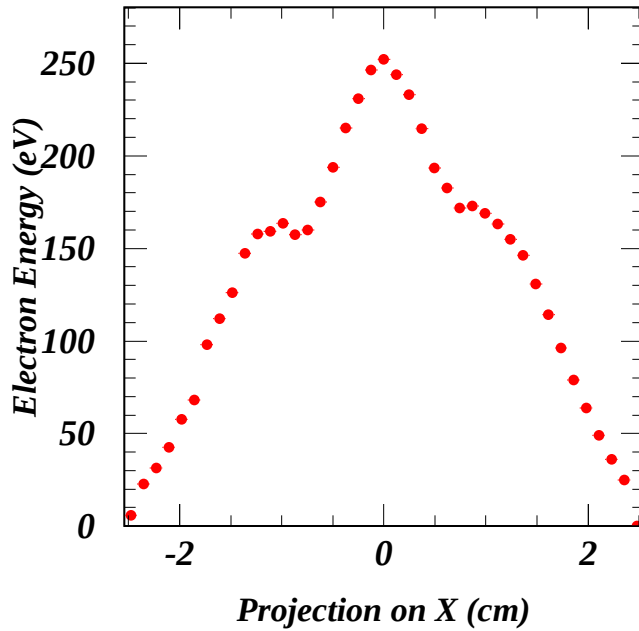
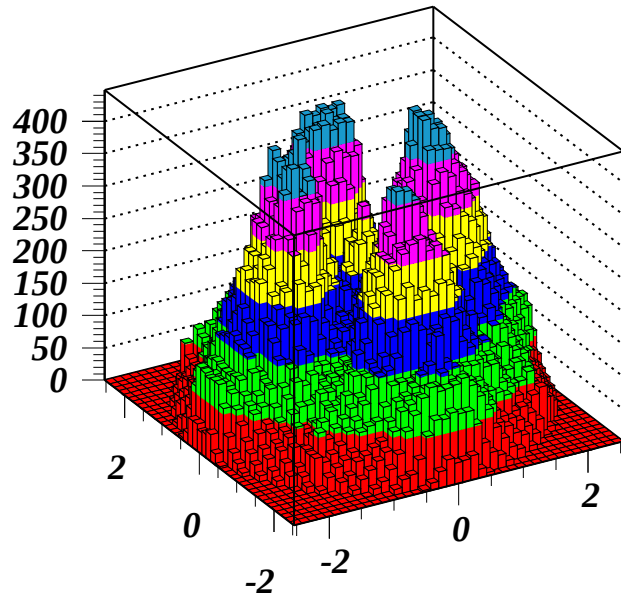
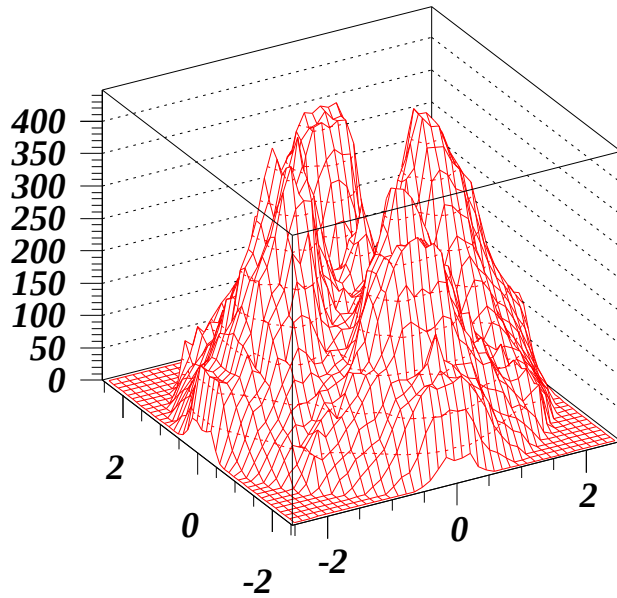
ECLOUD-DR20100308_32_qua: Cloud Density (e/m^3) Averaged Over 1440 ns

10/03/09 15.13
ECLOUD-DR20100308_32_qua: Cloud Density (e/m^3) Averaged Over 1440 ns

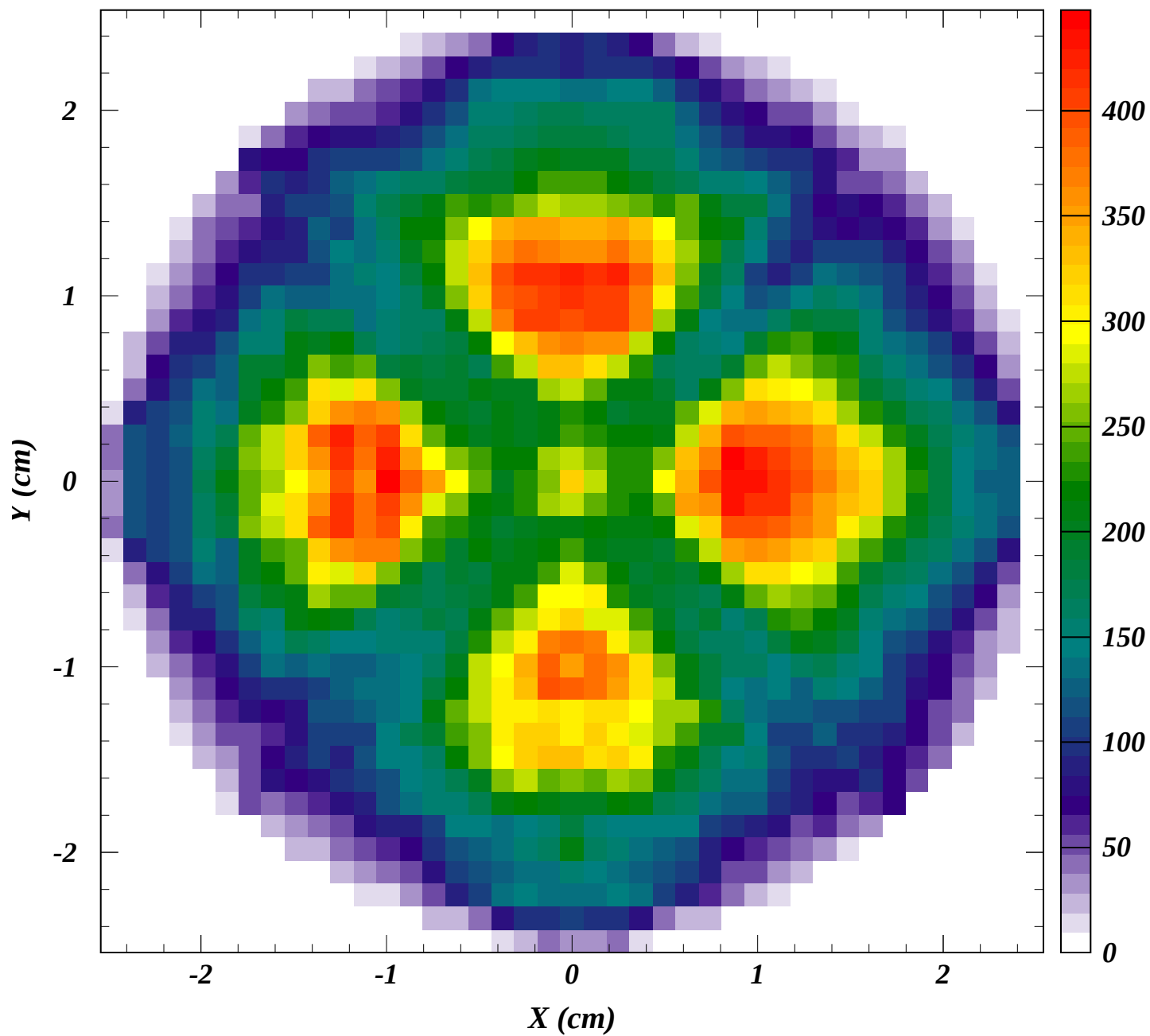


10/03/09 15.13

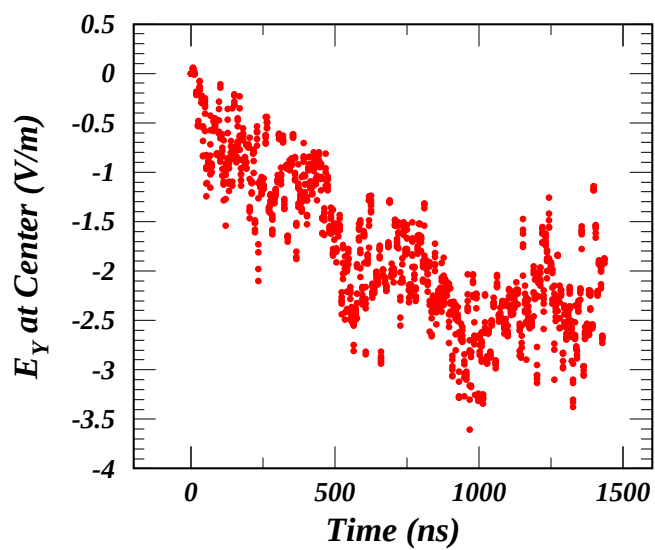
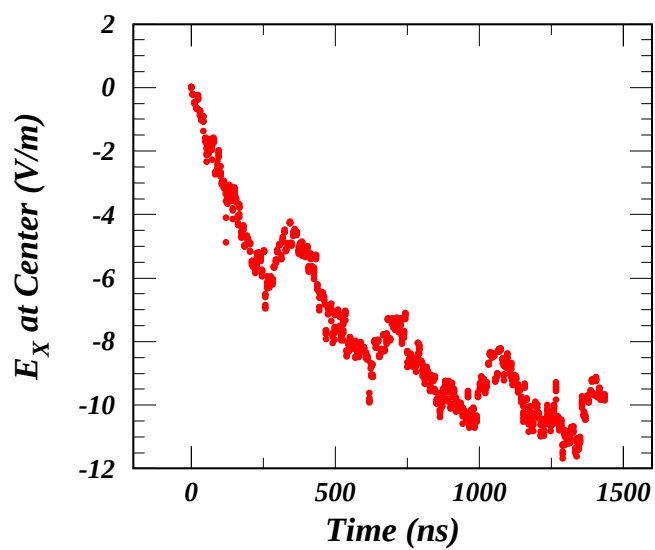
ECLOUD-DR20100308_32_qua: Electron Energies (eV) Averaged Over 1440 ns



10/03/09 15.13
ECLOUD-DR20100308_32_qua: Electron Energies (eV) Averaged Over 1440 ns



ECLOUD-DR20100308_32_qua: Electric Field at Beam



ECLOUD-DR20100308_32_qua Electric Field Gradients at Beam

