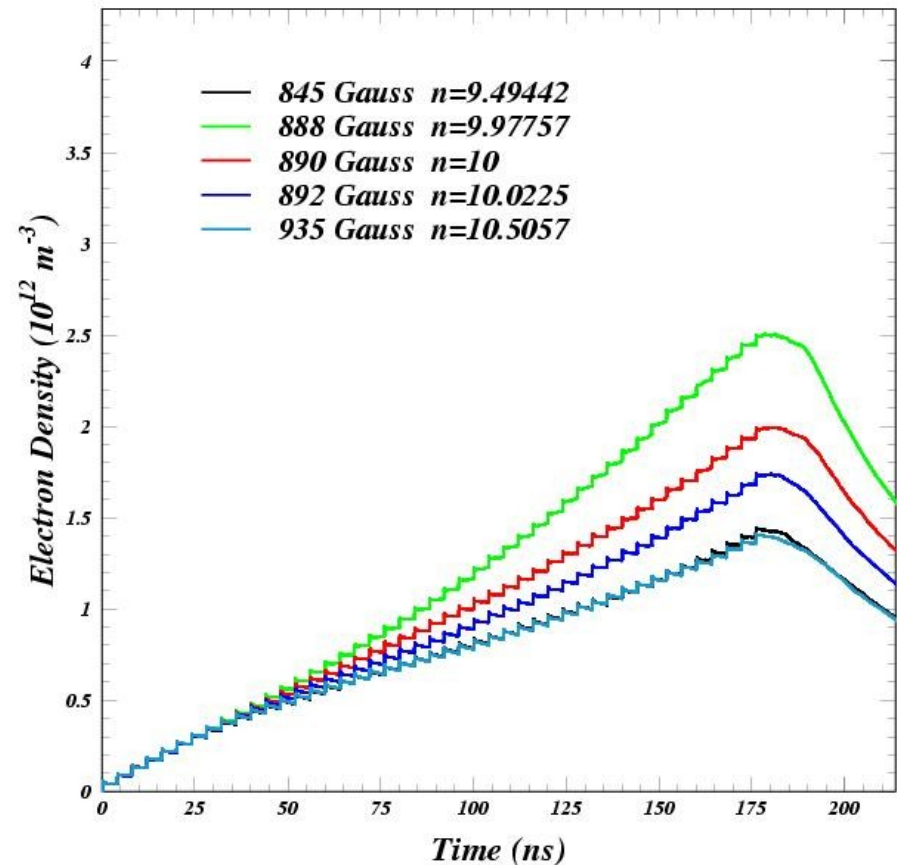
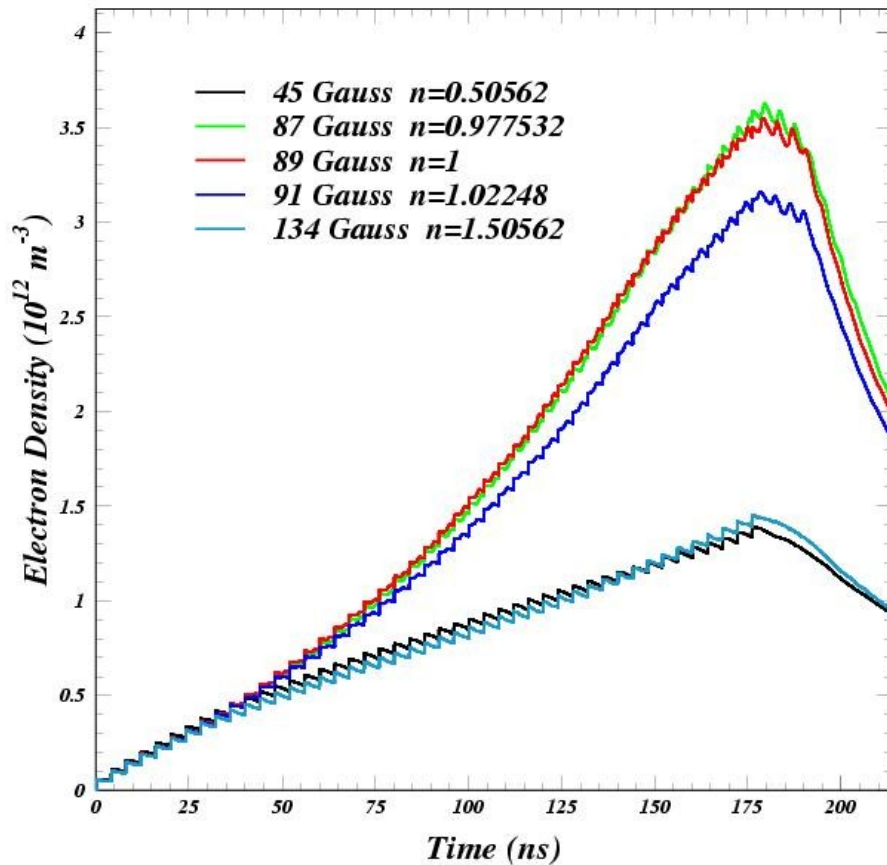




3.5 inch cylindrical v.c. 0.025 p.e./ e^+ 100% reflectivity $\delta_{\max} = 2.0$ $E_{\text{peak}} = 310$ eV $I_b = 1.44e10$ e^+ /bunch (0.9 mA)

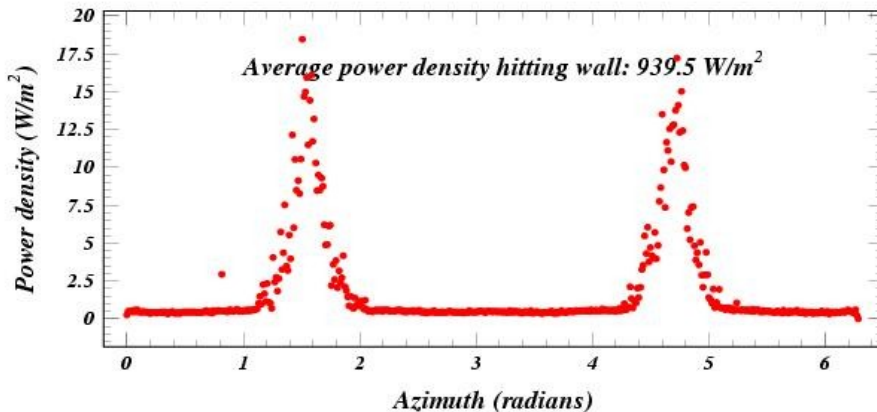
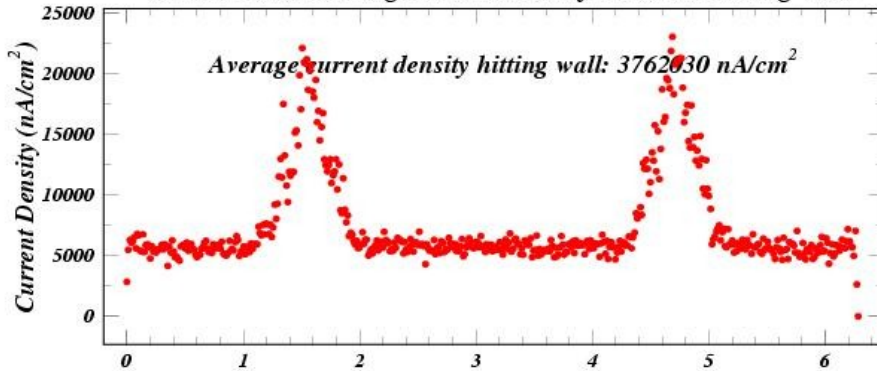


*Resonance more clear with cylindrical vacuum chamber.
Slight offset from $n=10$.*



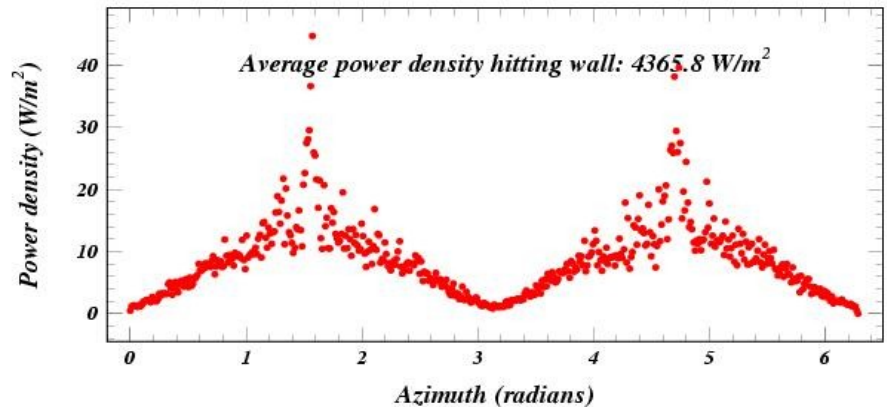
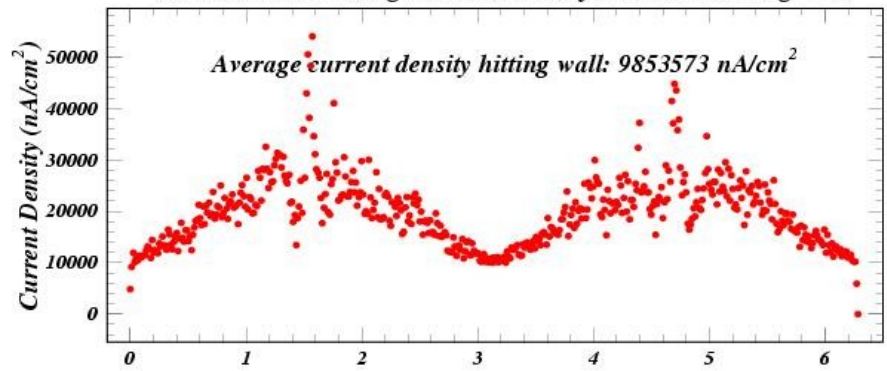
$n=0.5$

Job 1599: Time-Integrated Azimuth of Electrons Hitting Wall



$n=1.0$

Job 1601: Time-Integrated Azimuth of Electrons Hitting Wall

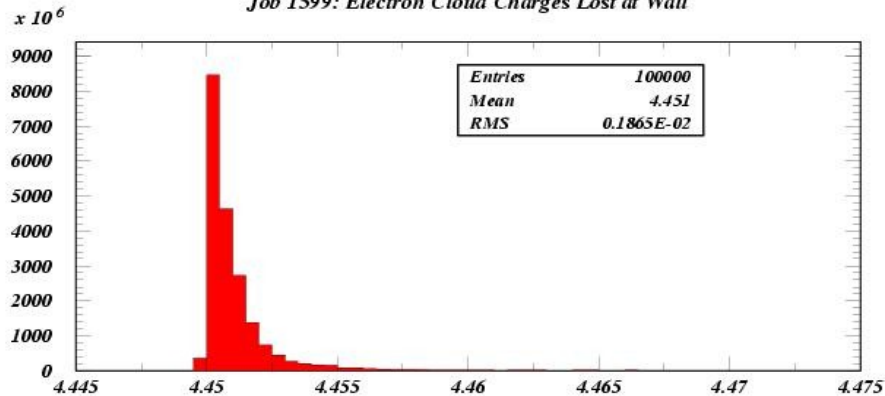


*Peaks at top and bottom of chamber more spread out on resonance.
Corresponds to bigger effect for collector 1 than collector 9.*

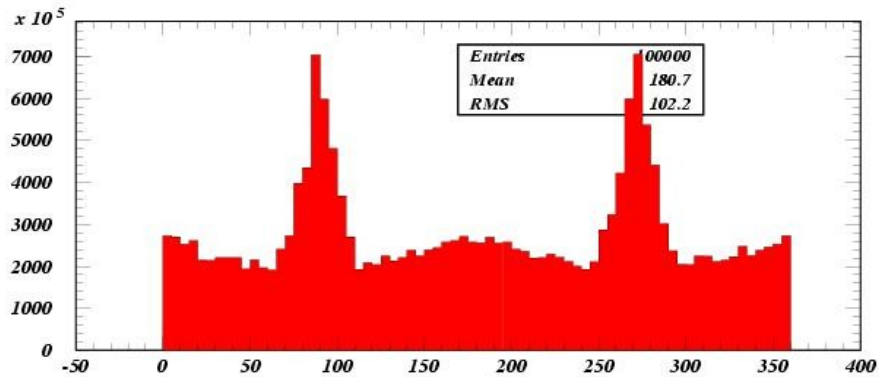


$n=0.5$

Job 1599: Electron Cloud Charges Lost at Wall



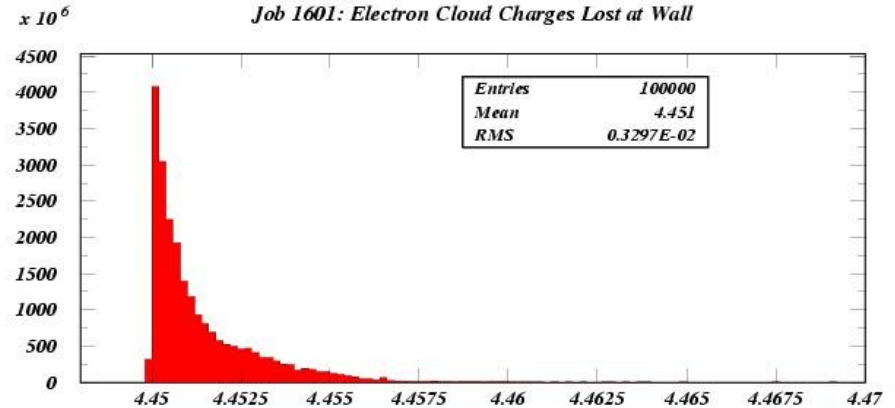
Charge-weighted ρ Distribution (cm)



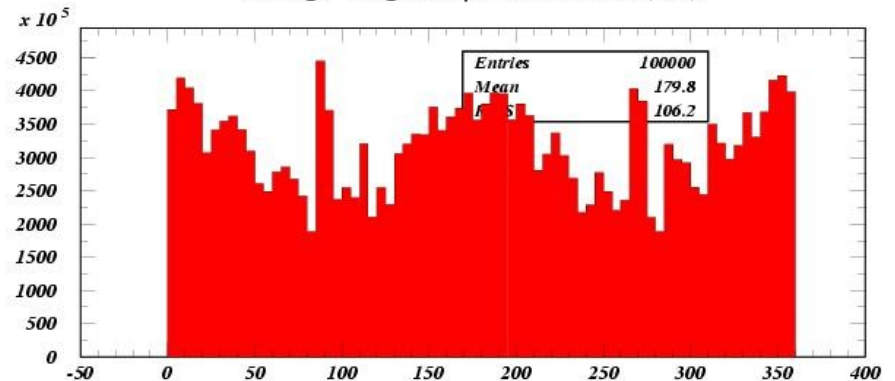
Charge-weighted ϕ Distribution (degrees)

$n=1.0$

Job 1601: Electron Cloud Charges Lost at Wall



Charge-weighted ρ Distribution (cm)



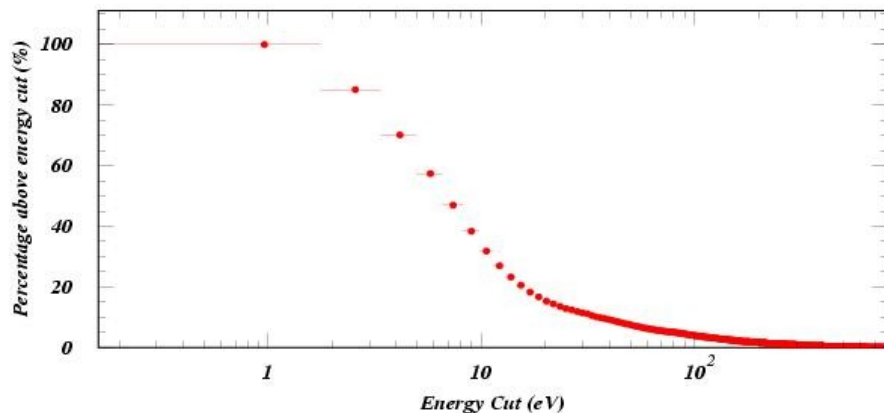
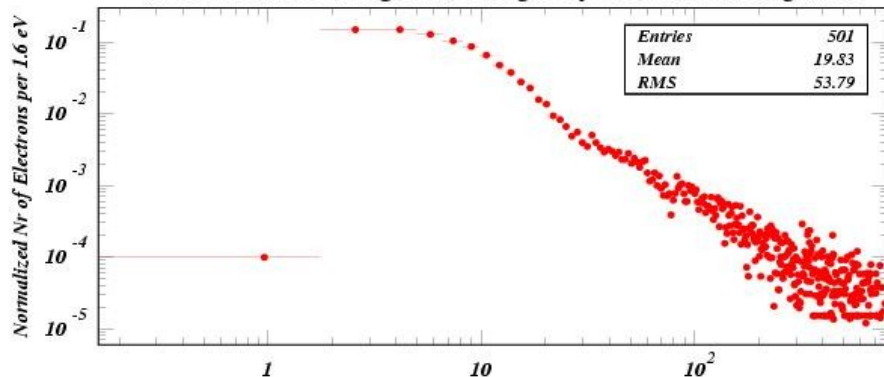
Charge-weighted ϕ Distribution (degrees)

Again showing more spread in azimuth on resonance.



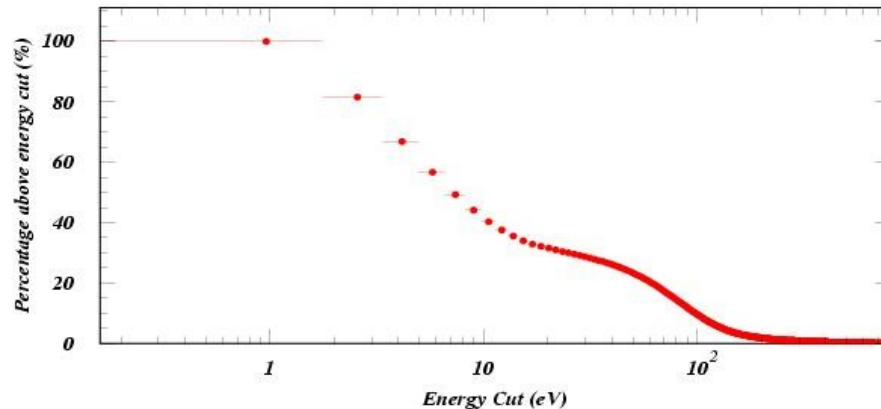
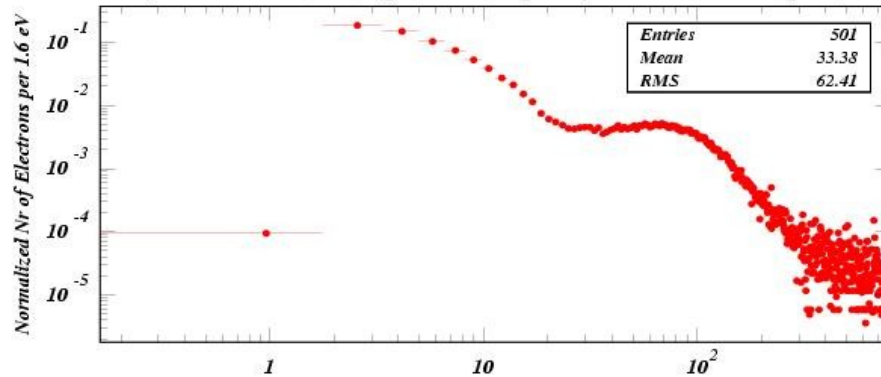
$n=0.5$

Job 1599: Time-Integrated Energies of Electrons Hitting Wall



$n=1.0$

Job 1601: Time-Integrated Energies of Electrons Hitting Wall

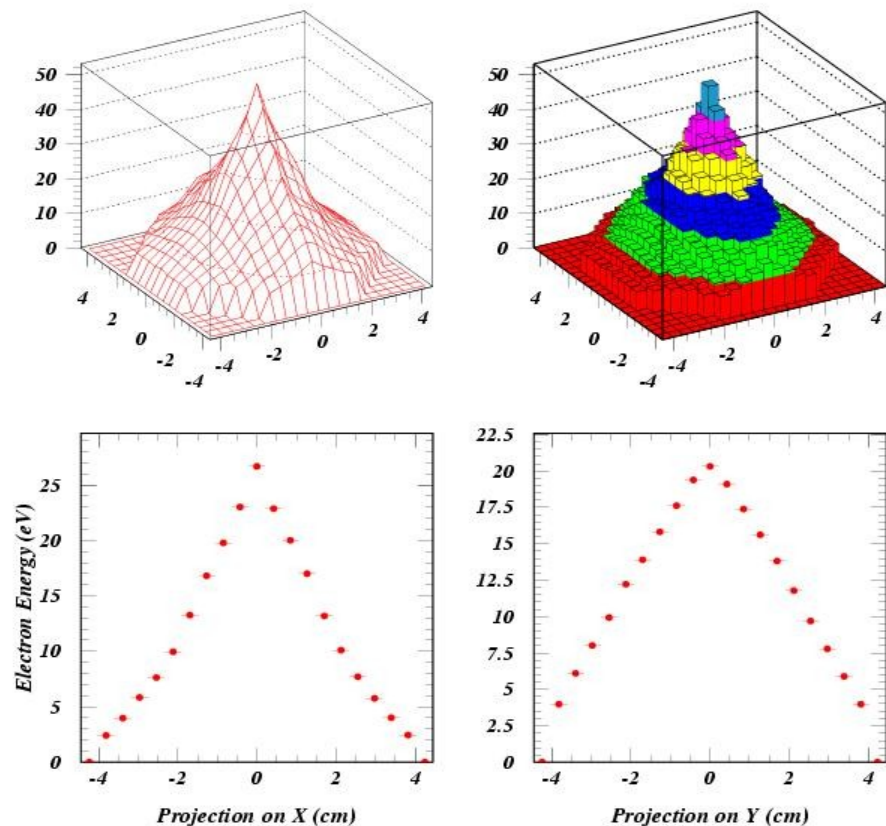


Higher energies on resonance, but need to correlate to position on wall.



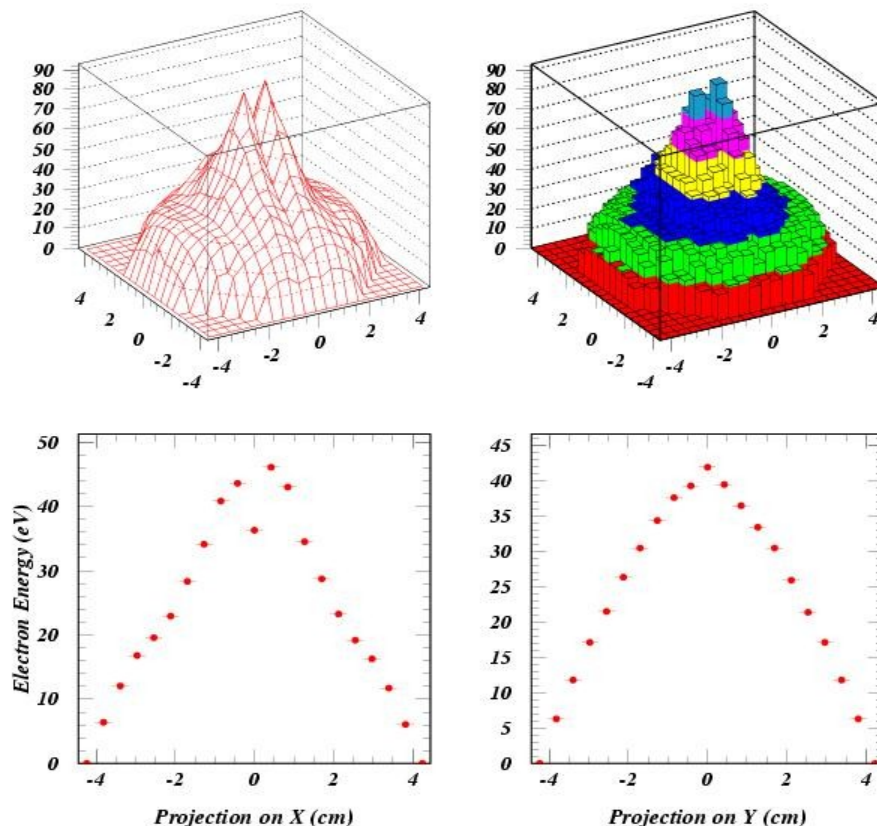
$n=0.5$

Job 1599: Electron Energies (eV) Averaged Over 360 ns



$n=1.0$

Job 1601: Electron Energies (eV) Averaged Over 360 ns

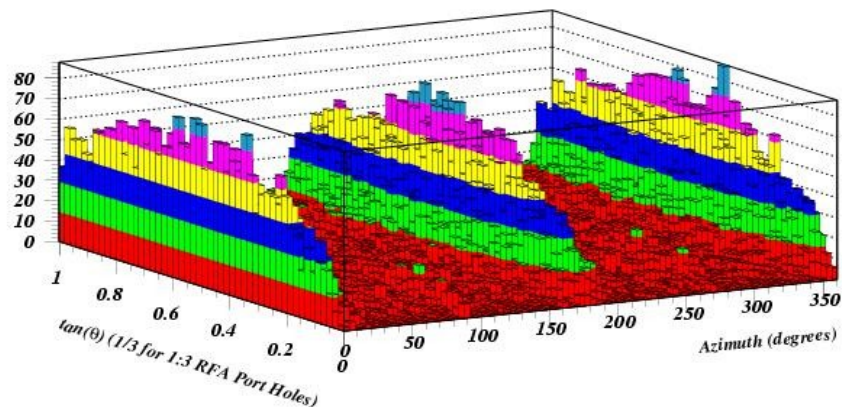
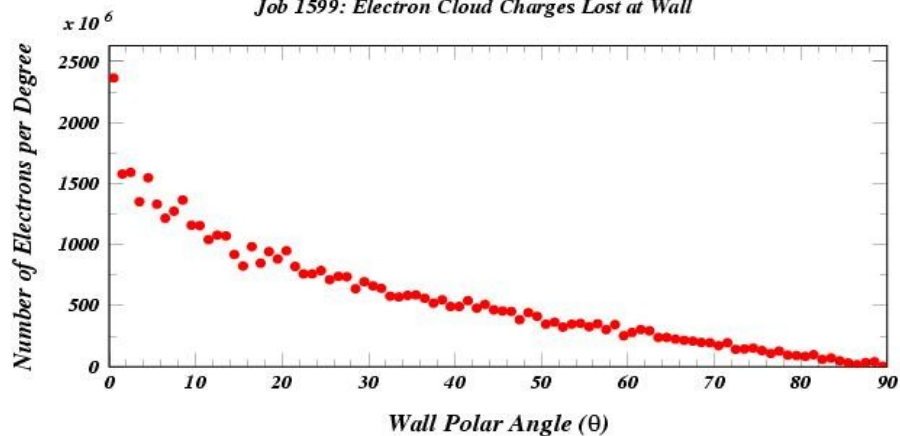


Spatial distribution of cloud electron average energies.



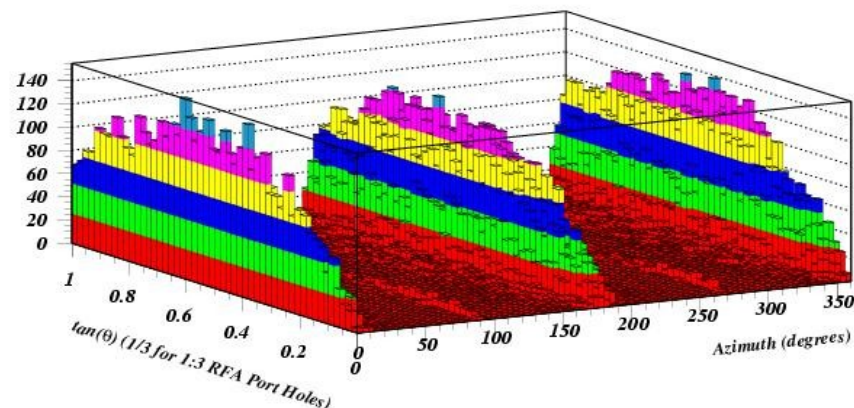
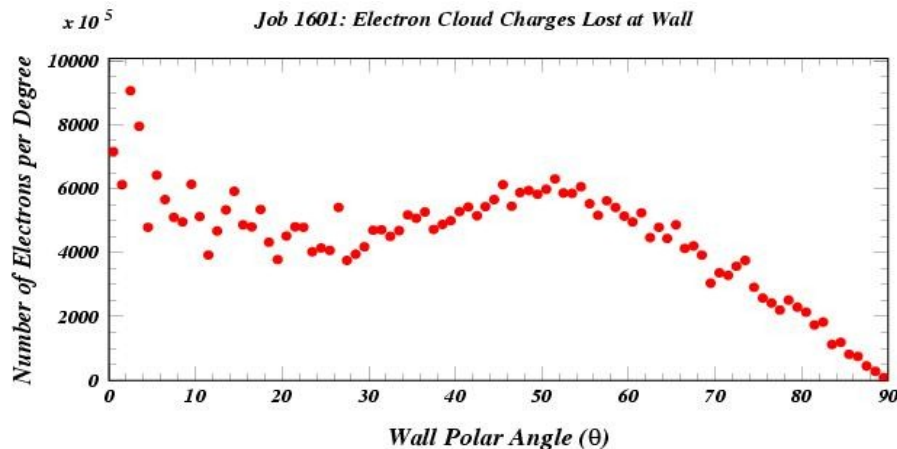
$n=0.5$

Job 1599: Electron Cloud Charges Lost at Wall



$n=1.0$

Job 1601: Electron Cloud Charges Lost at Wall

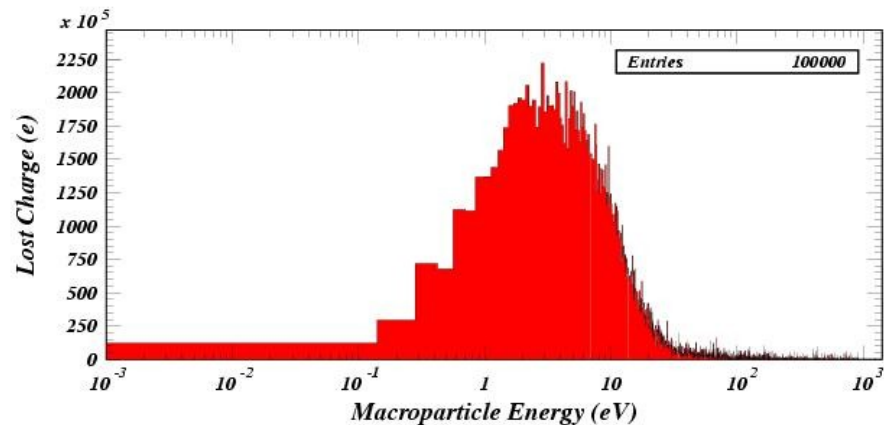
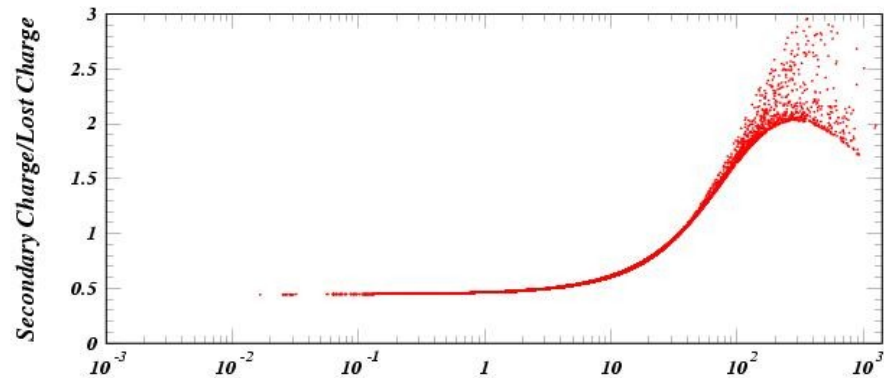


*Angles of incidence on wall more glancing on resonance.
Consequences for RFA acceptance. More secondary yield in any case.*



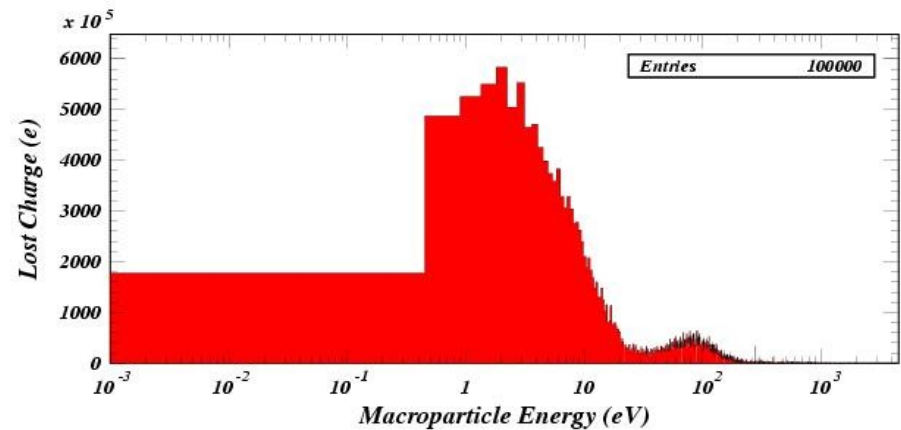
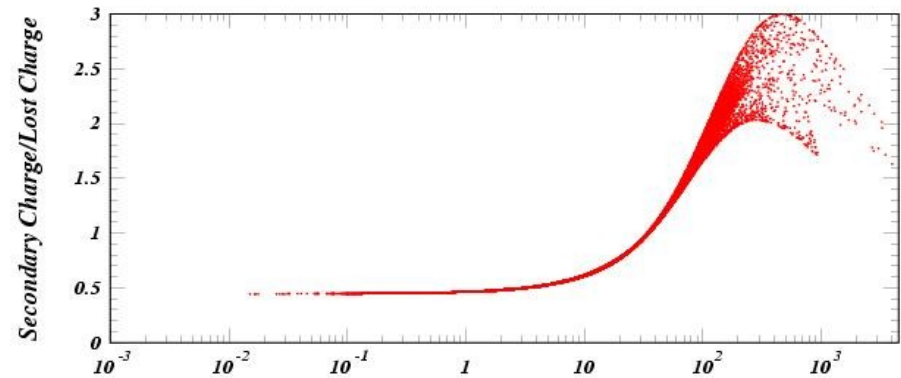
$n=0.5$

Job 1599: Electron Cloud Charges Lost at Wall



$n=1.0$

Job 1601: Electron Cloud Charges Lost at Wall



Higher yields on resonance.

Higher energies and more grazing angles.

ECLLOUD SEY model sets $\cos \Theta < 0.2$ to $\cos \Theta = 0.2$ for yield calculation.