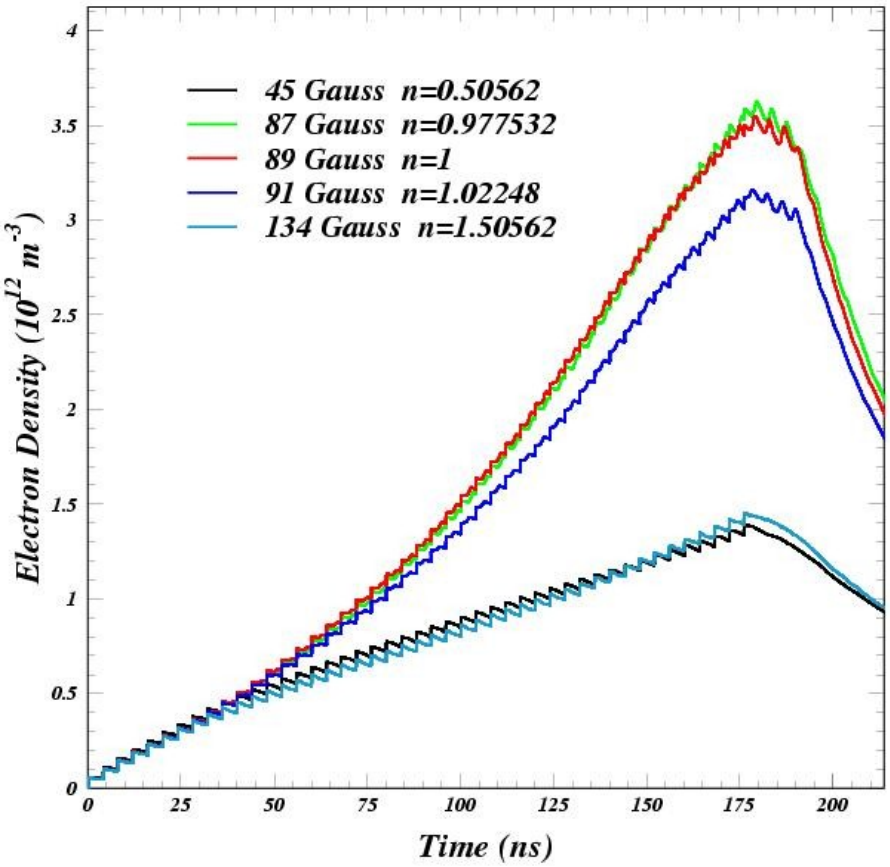
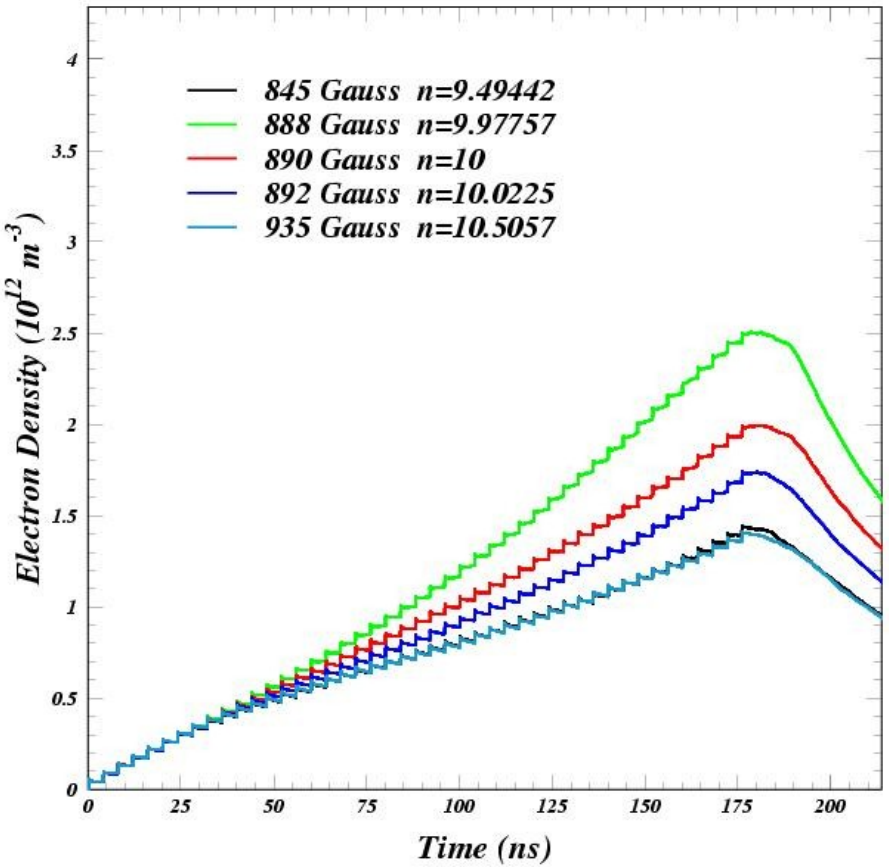
45 e^+ bunches, 4-ns spacing, 0.9 mA/bunch

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

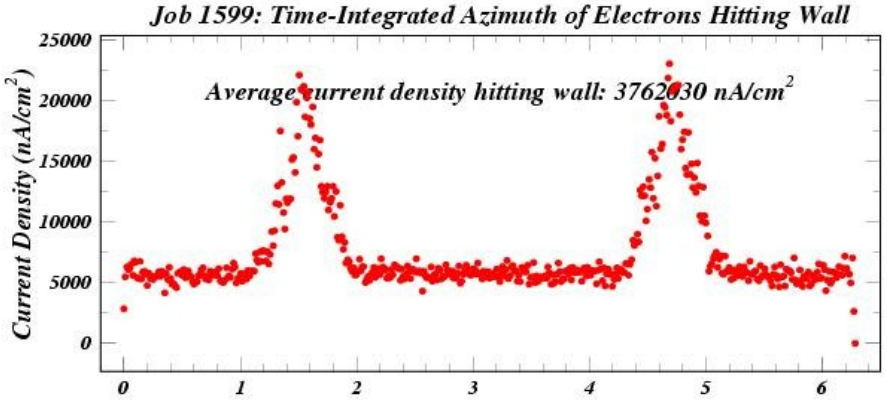


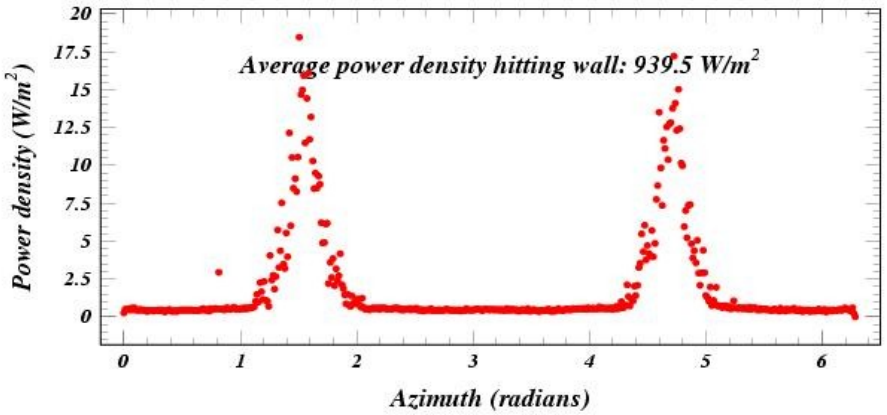


Resonance more clear with cylindrical vacuum chamber.
Slight offset from n=10.

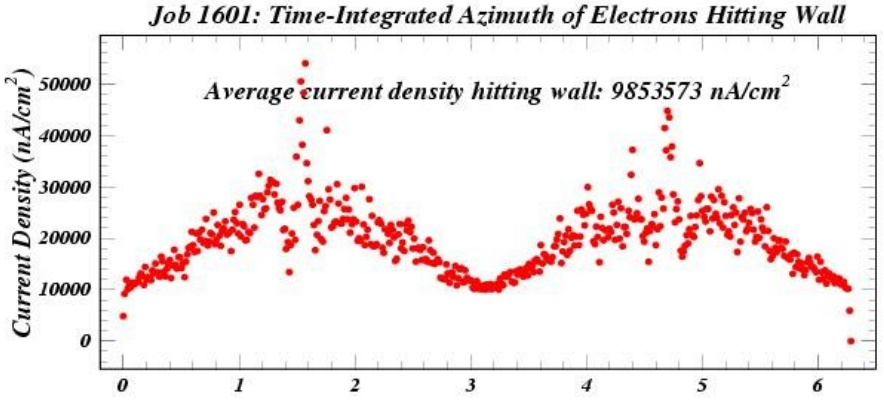
Compare n=0.5 with n=1.0

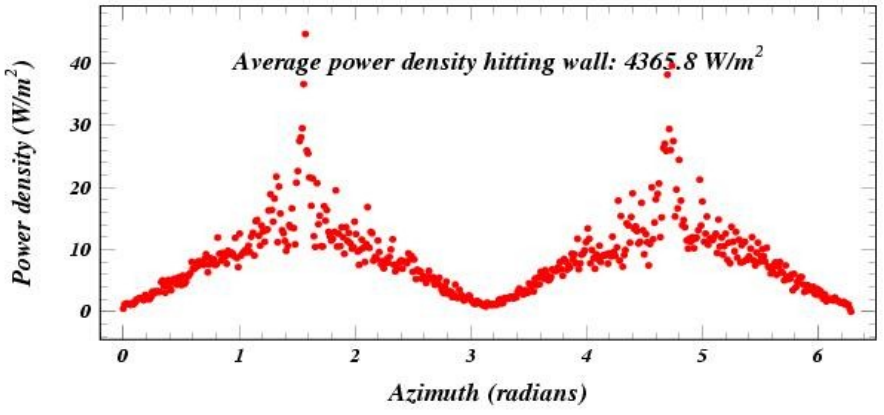
n=0.5





n=1.0

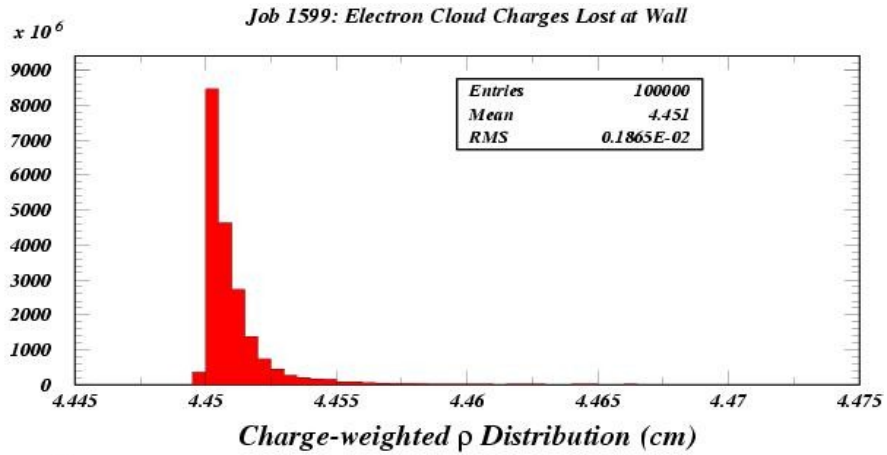


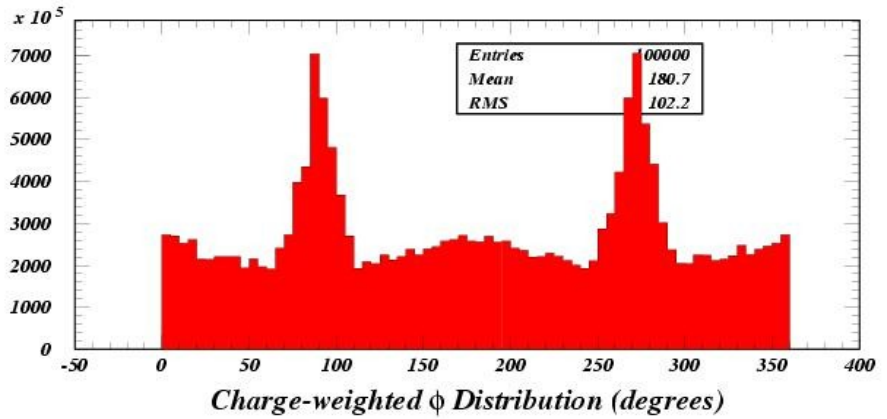


Peaks at top and bottom of chamber more spread out on resonance. Corresponds to bigger effect for collector 1 than collector 9.

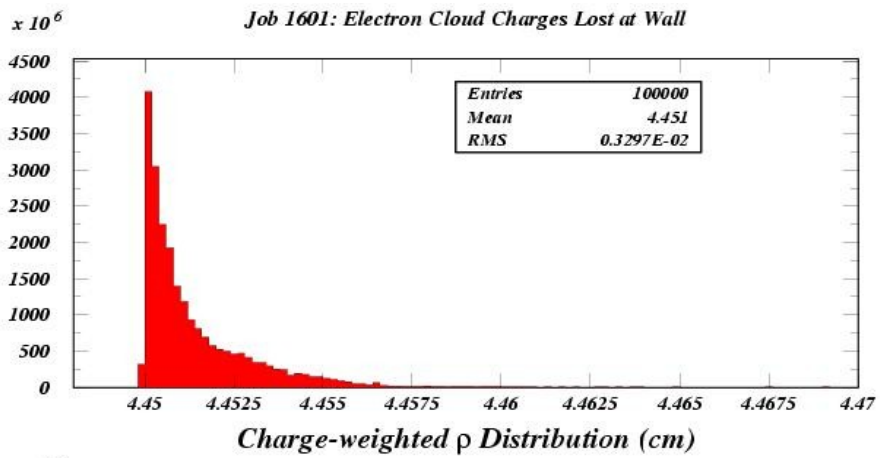
Compare n=0.5 with n=1.0

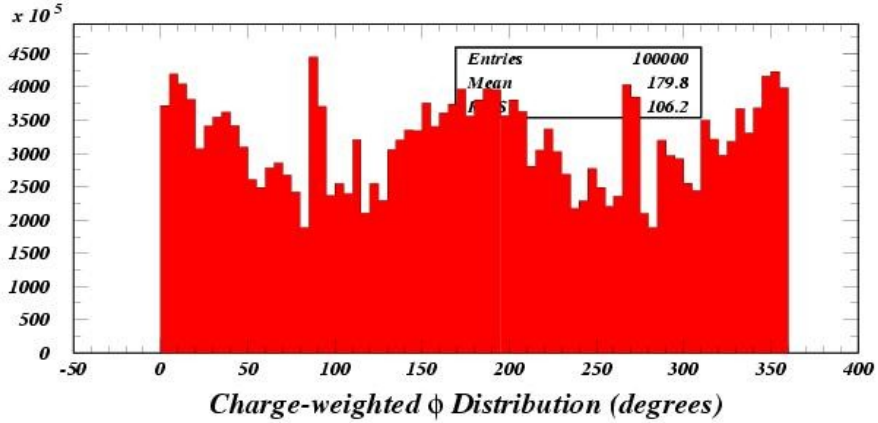
n=0.5





n=1.0

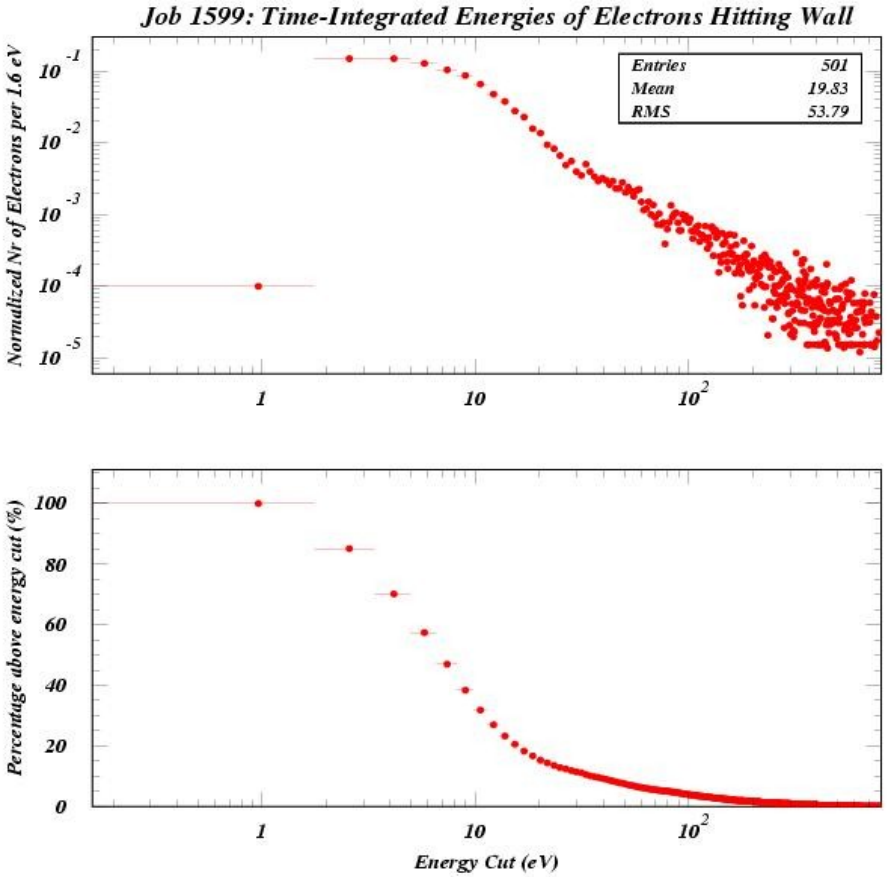




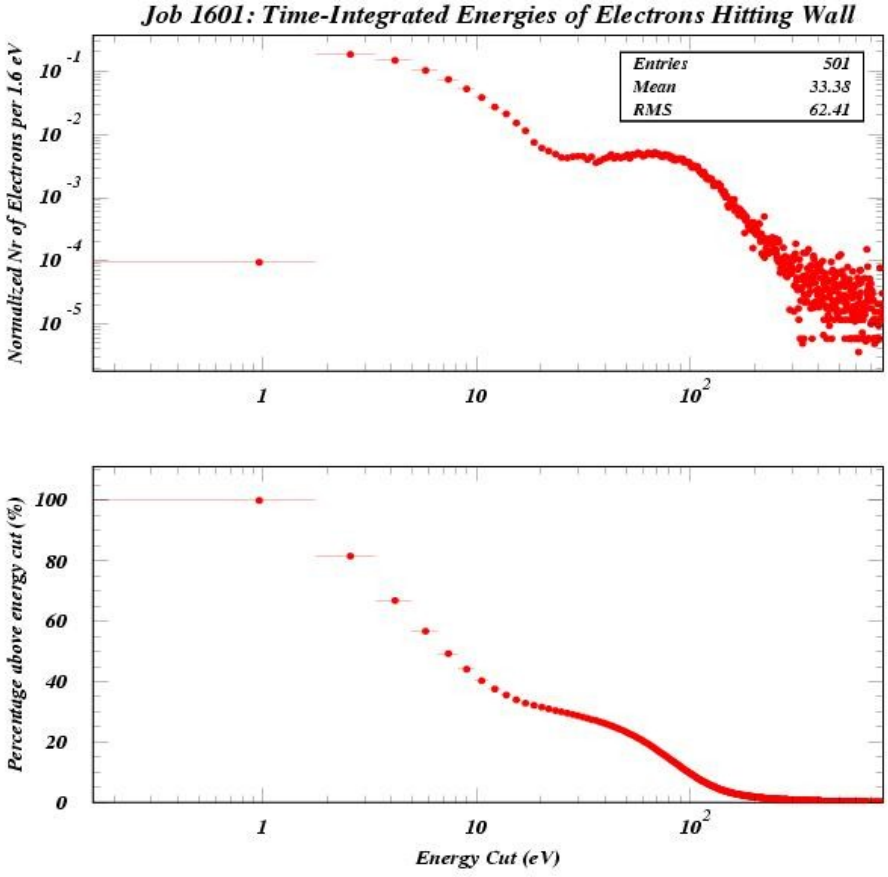
Again showing more spread in azimuth on resonance.

Compare n=0.5 with n=1.0

n=0.5



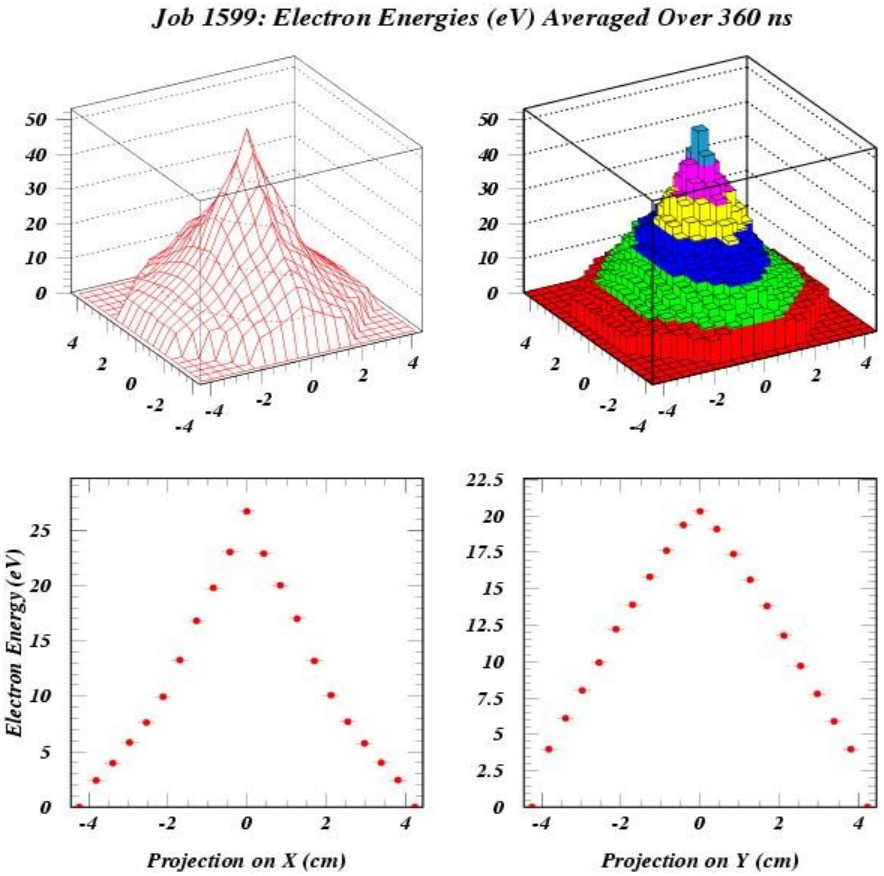
n=1.0



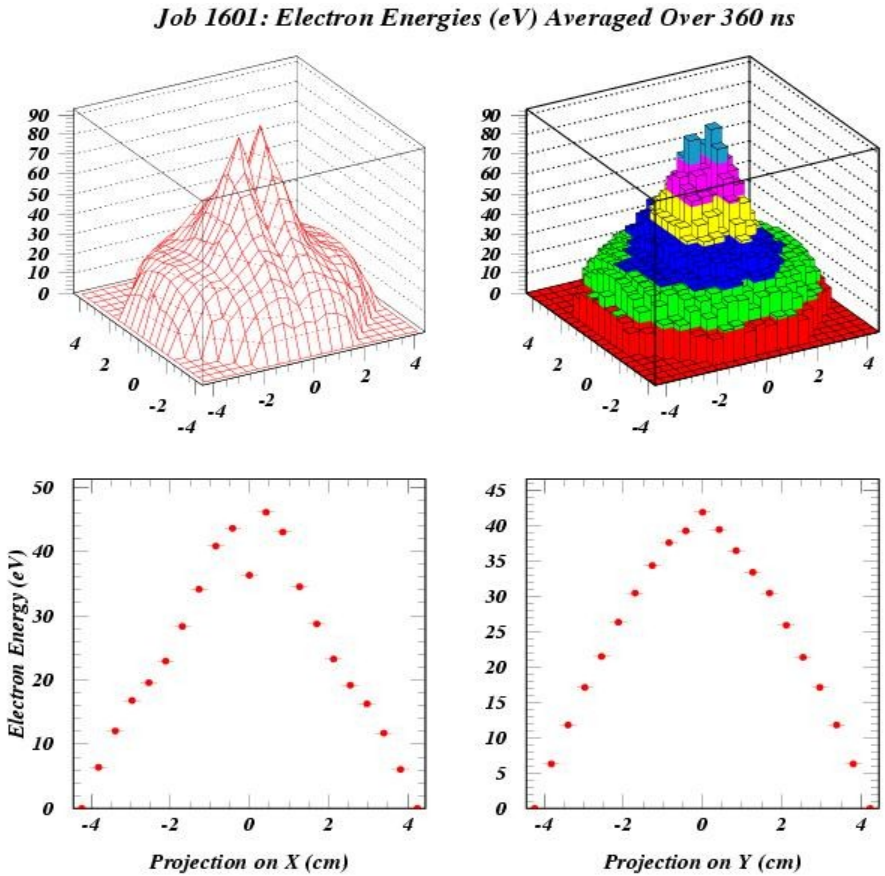
Higher energies on resonance, but need to correlate to position on wall.

Compare n=0.5 with n=1.0

n=0.5



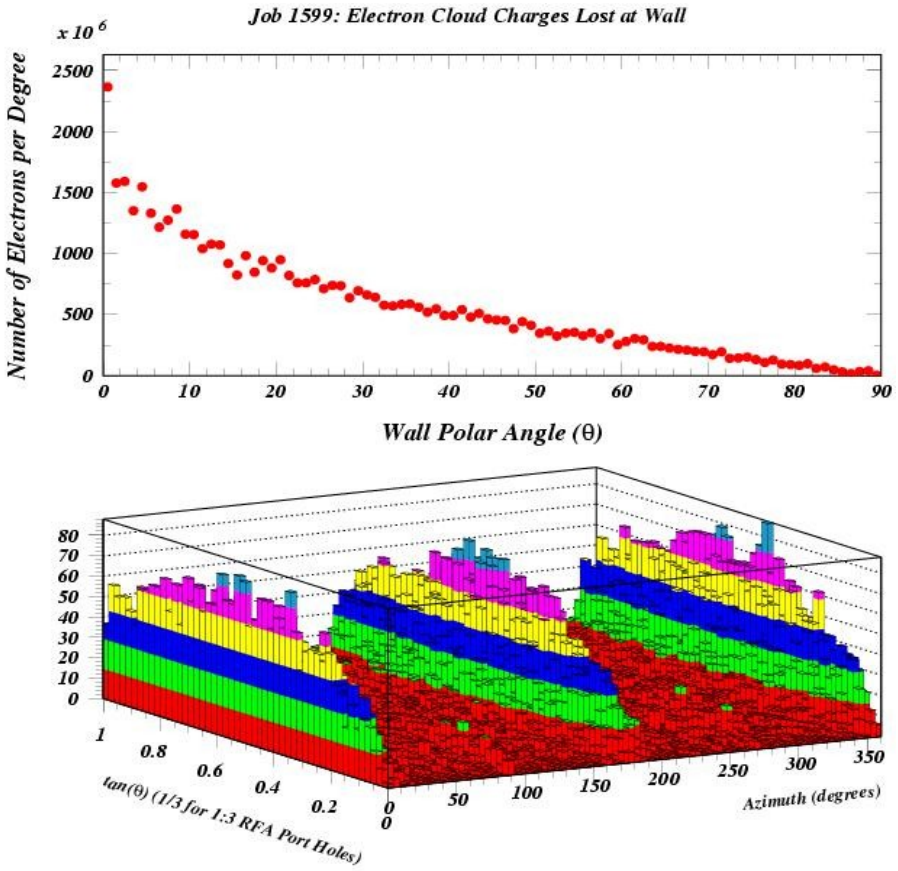
n=1.0



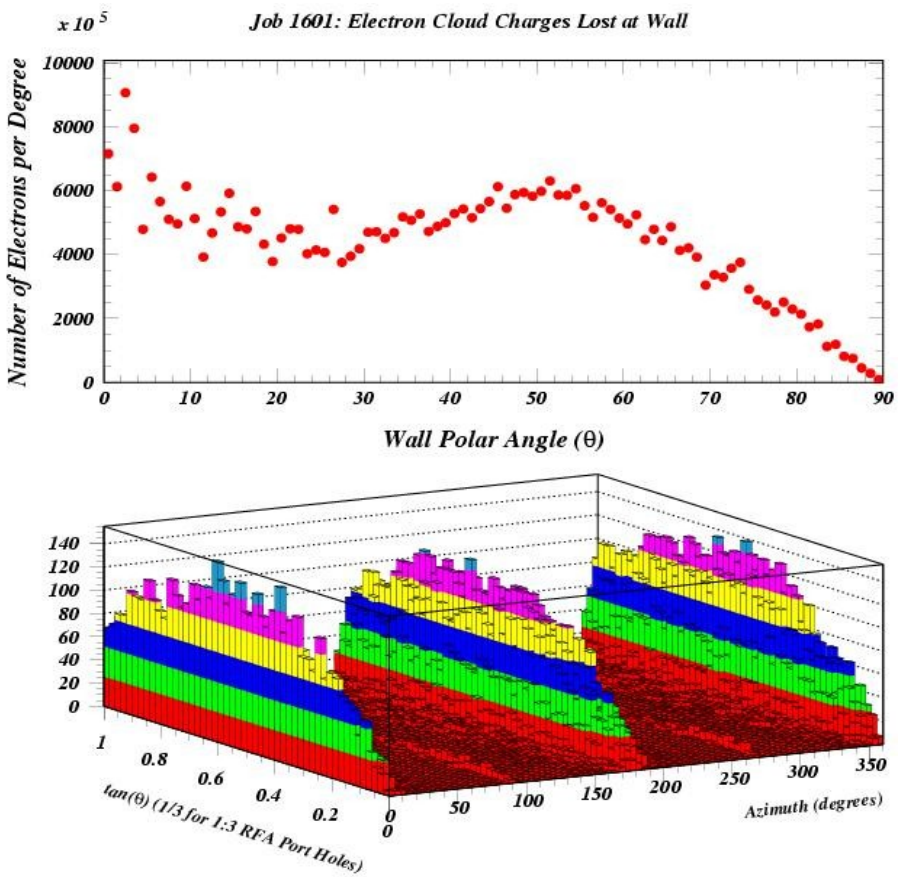
Spatial distribution of cloud electron average energies.

Compare n=0.5 with n=1.0

n=0.5



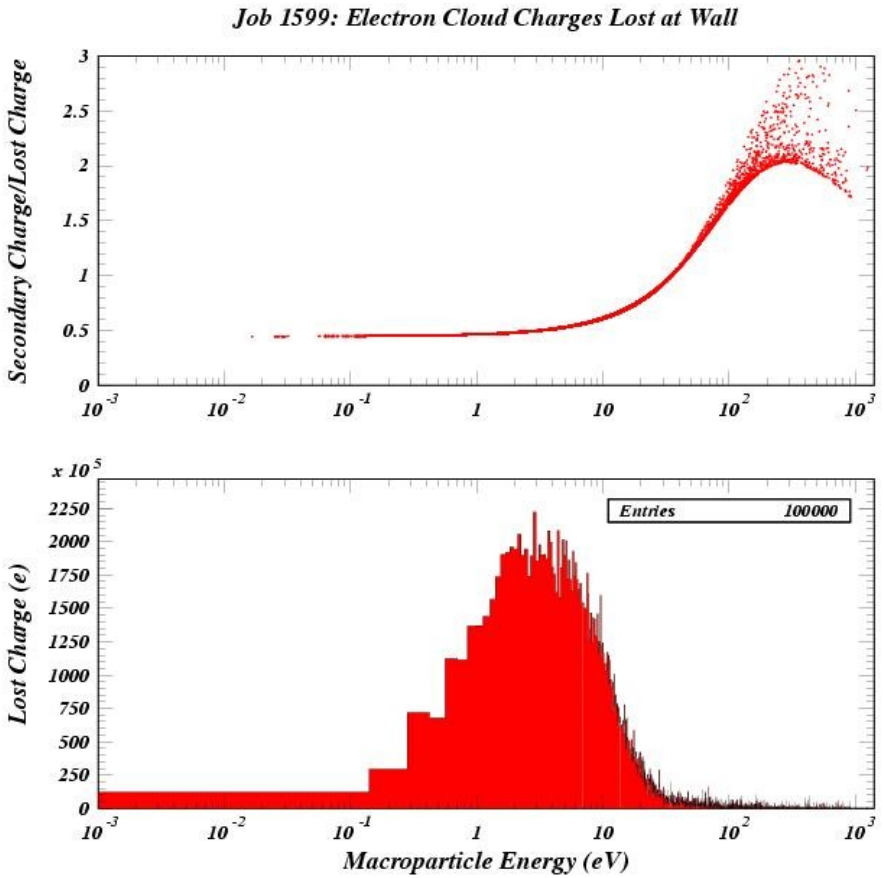
n=1.0



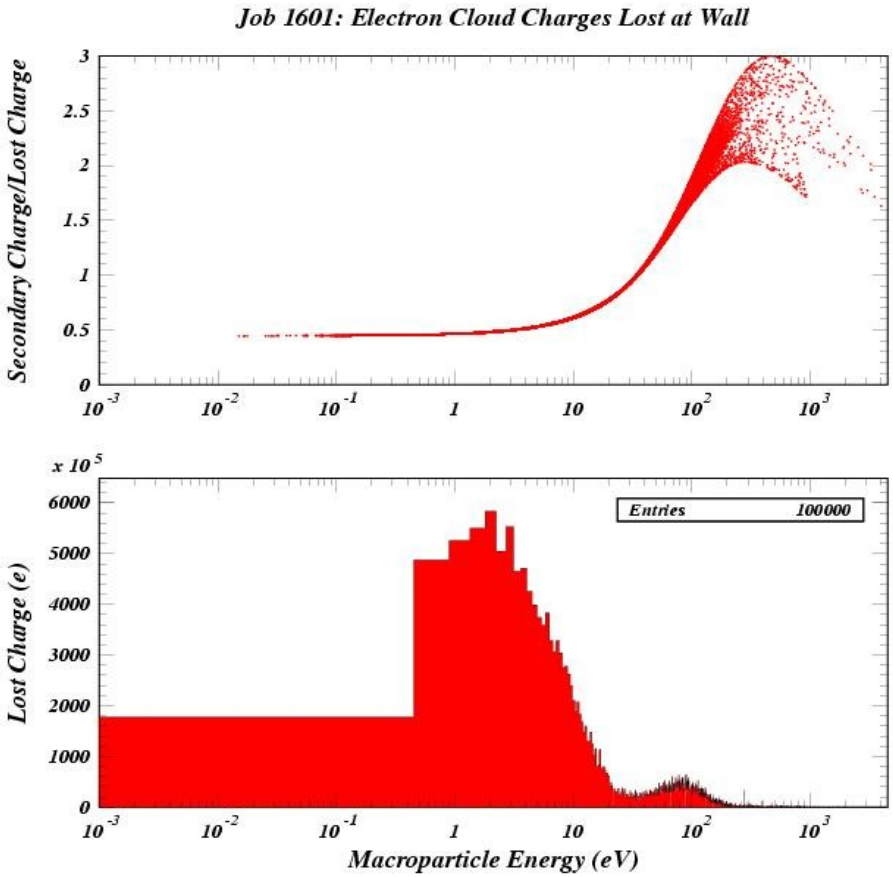
Angles of incidence on wall more glancing on resonance.
Consequences for RFA acceptance. More secondary yield in any case.

Compare n=0.5 with n=1.0

n=0.5



n=1.0



Higher yields on resonance.
Higher energies and more grazing angles.
ECLOUD SEY model sets $\cos\Theta < 0.2$ to $\cos\Theta = 0.2$ for yield calculation.