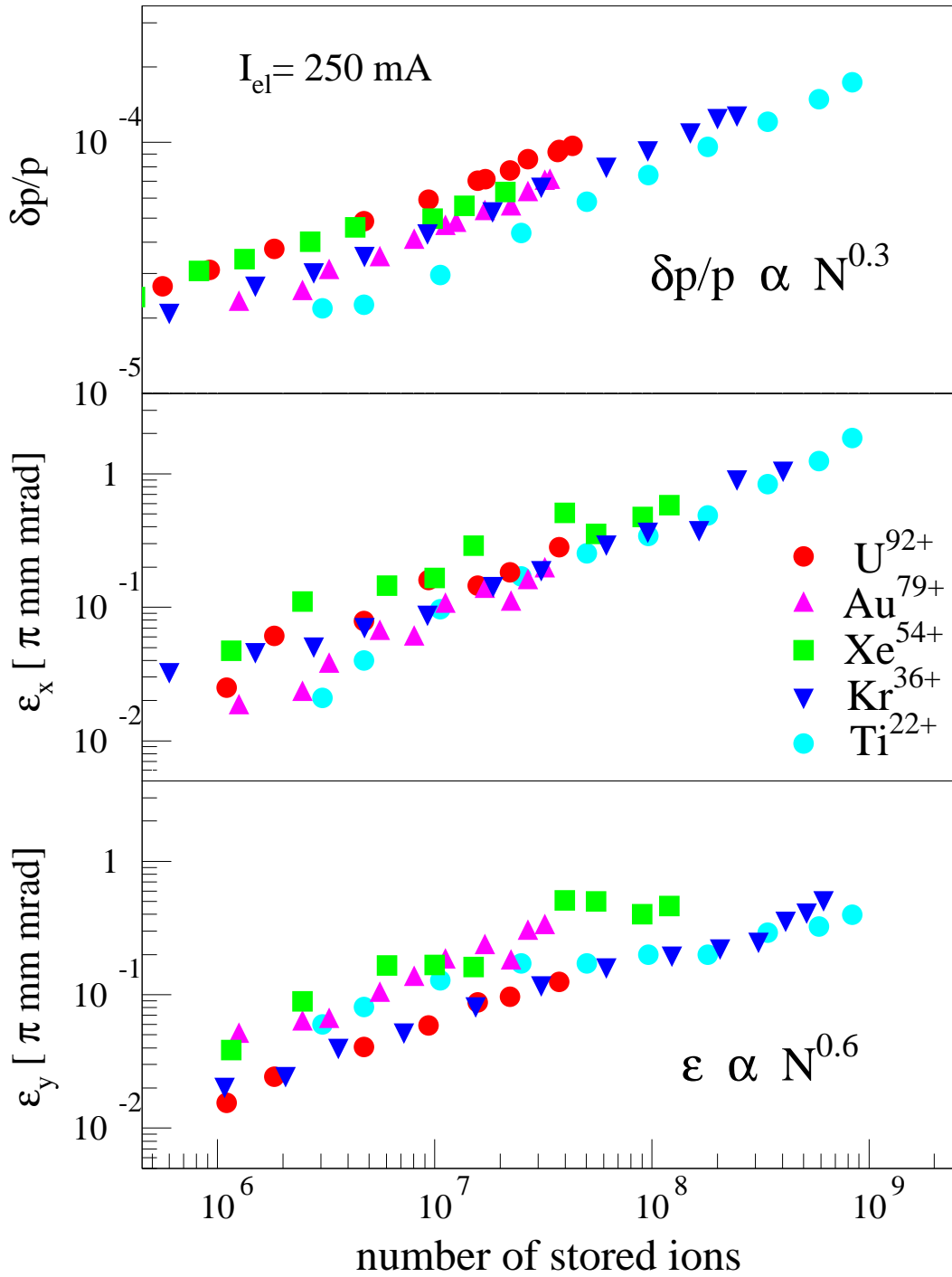


# Equilibrium Parameters of Electron Cooled Heavy Ions



IBS rate:  $\tau_{IBS}^{-1} = 4\pi L_C^{IBS} \cdot \frac{q^4 e^4}{(Am_i)^2} \cdot \frac{N}{C\epsilon_h \epsilon_v \delta p/p} \cdot (\gamma^4 \beta^3 c^3)^{-1}$

EC rate:  $\tau_{EC}^{-1} = \text{const} \propto \frac{q^{1.5}}{A} n_e$