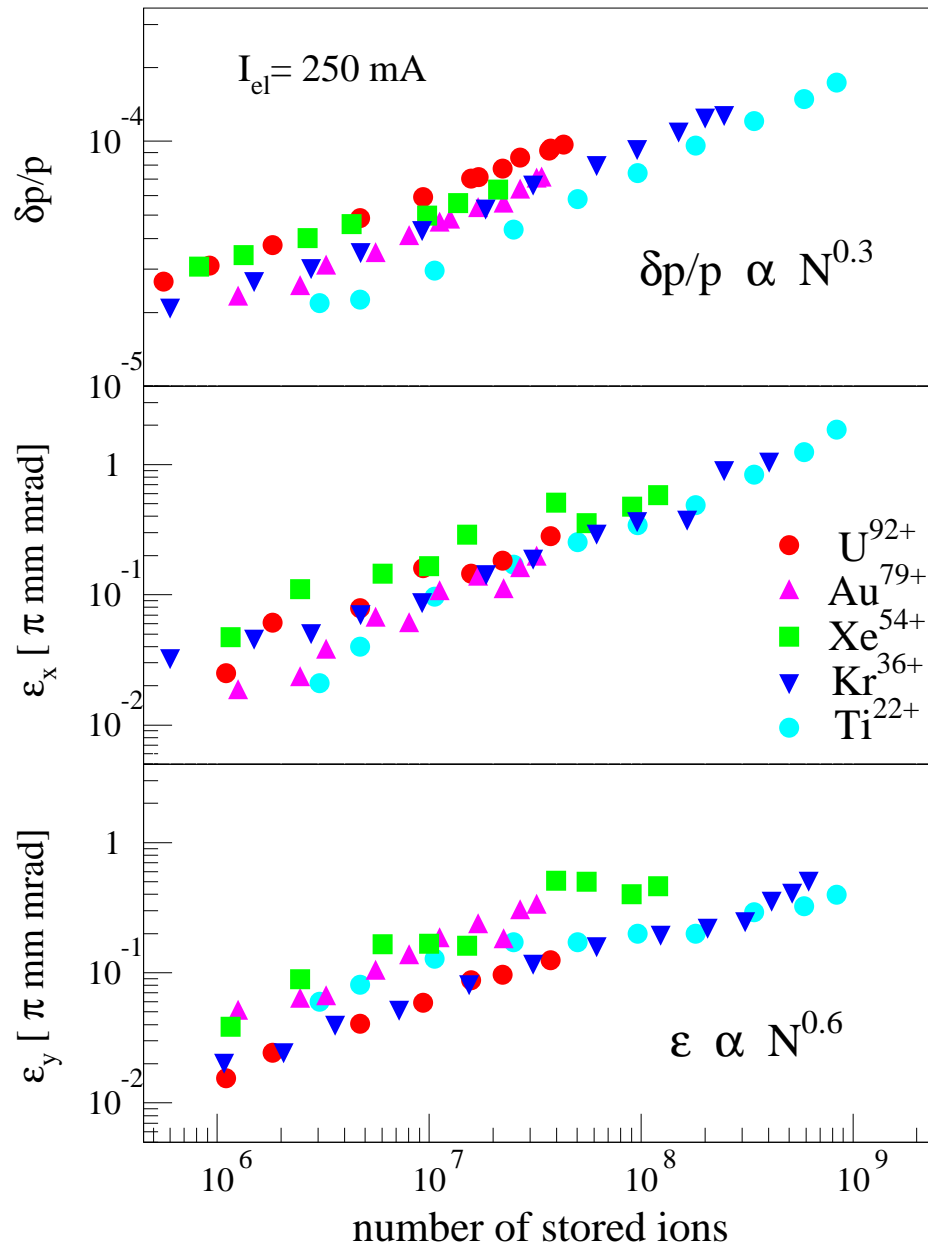


Typical Beam Parameters for Cooled Highly Charged Ions



phase space density $\propto N^{-0.5}$

\Rightarrow increase with decreasing ion number

cooling rate decreases for intense ion beams

IBS theoretically: $\frac{\delta p}{p}, \epsilon_{\perp} \propto \left(\frac{q^2}{A}\right)^{\frac{1}{3}}$