

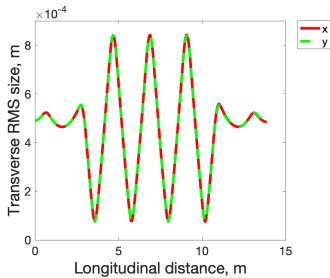
CeC Physics

Jun Ma

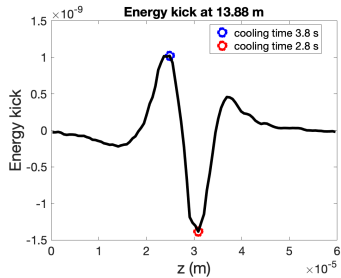
Collider-Accelerator Department
Brookhaven National Laboratory

8/5/2022

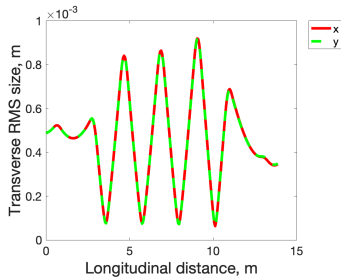
- Peak current 50 A, KV emittance $6 \mu\text{m}$, energy spread $2\text{e-}4$
- Sol345 at different currents



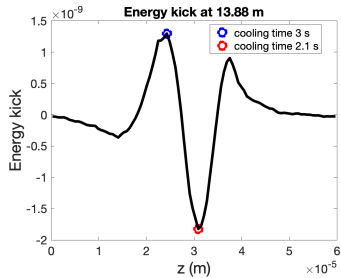
(a)



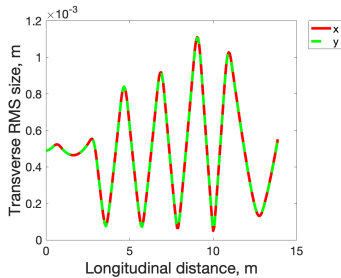
(b)



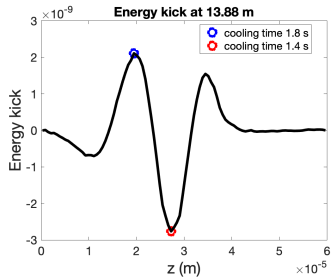
(a)



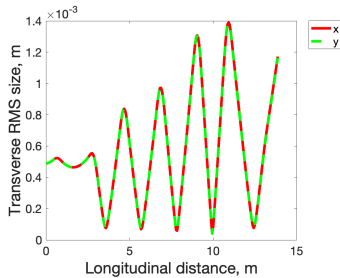
(b)



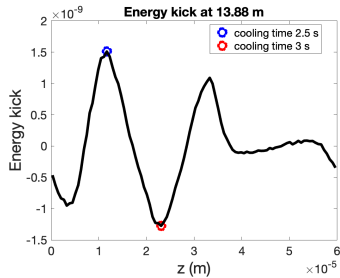
(a)



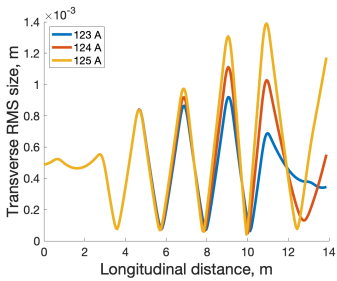
(b)



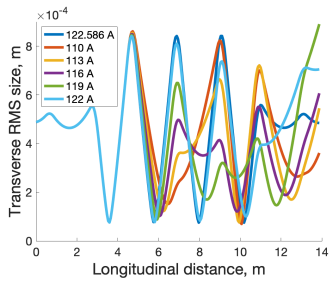
(a)



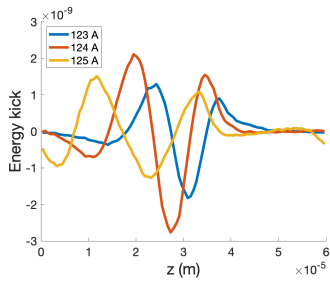
(b)



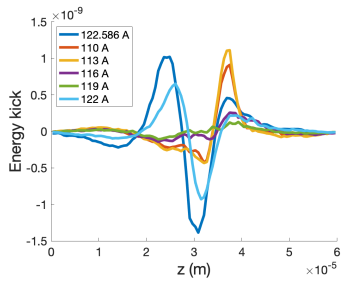
(a)



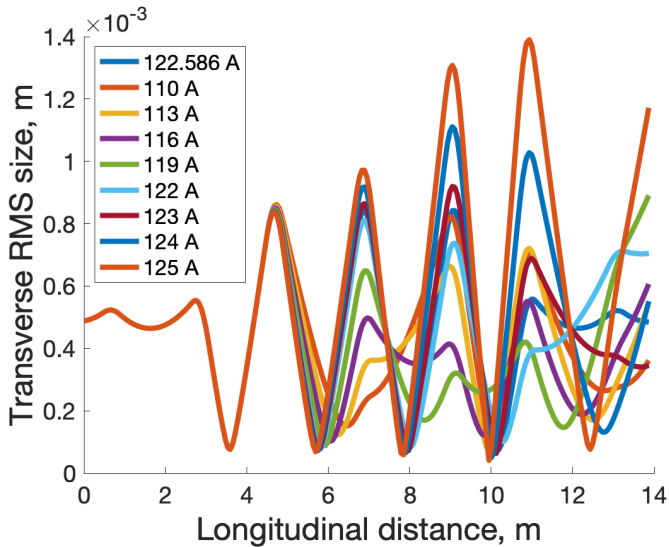
(b)



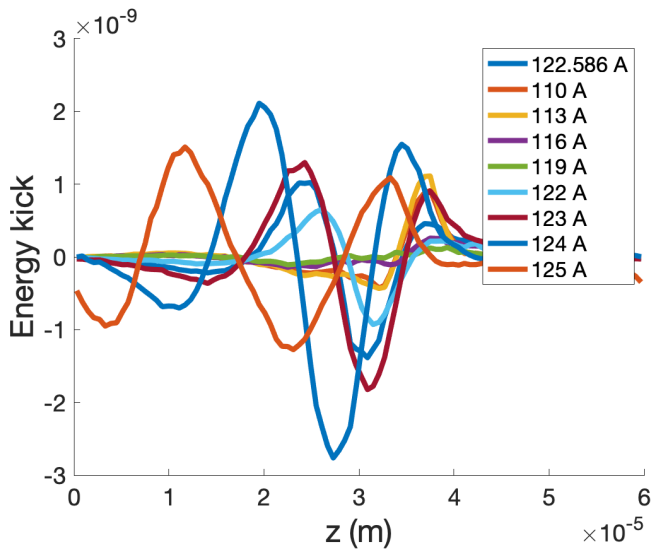
(a)



(b)

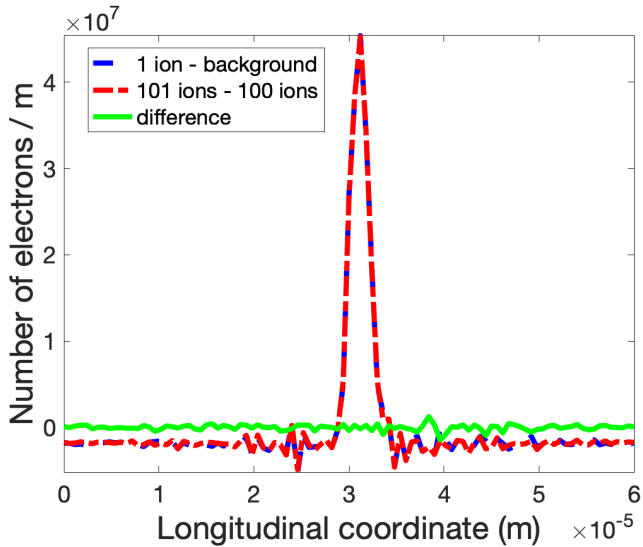


(a)

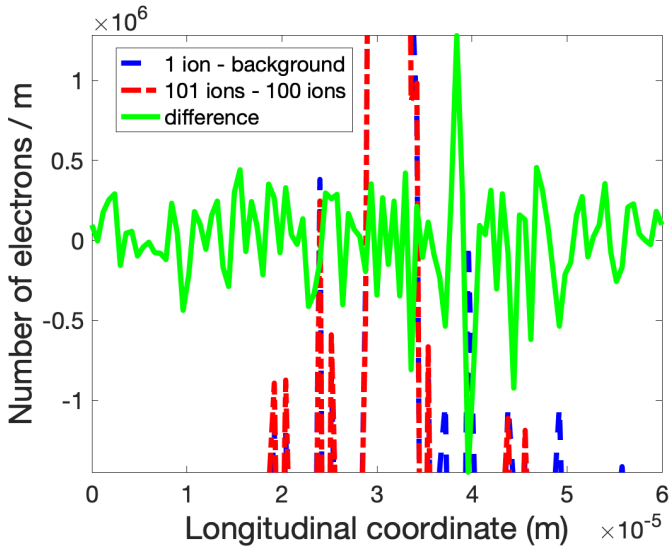


(a)

- background
- background + 1 ion
- background + 100 ions
- background + 101 ions

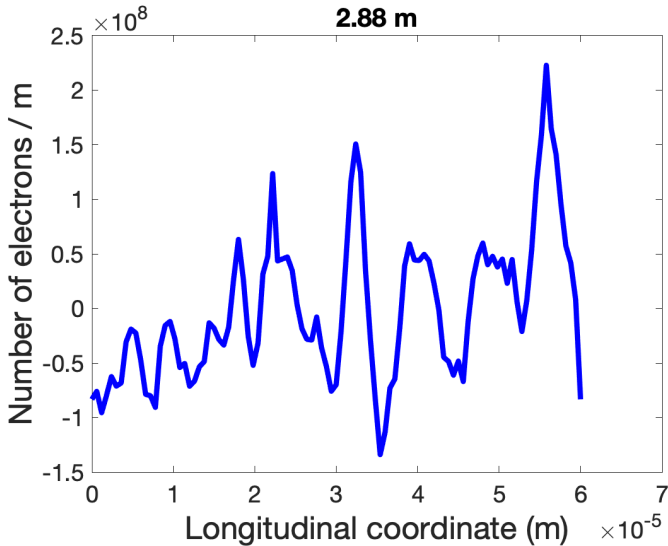


(a)



(a)

100 ions - background



(a)