

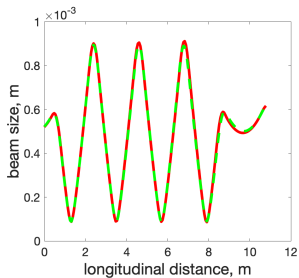
# CeC Physics

Jun Ma

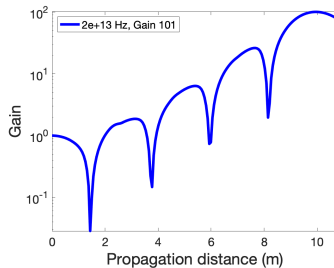
Collider-Accelerator Department  
Brookhaven National Laboratory

8/13/2021

# Peak current 75 A, with transverse symmetry

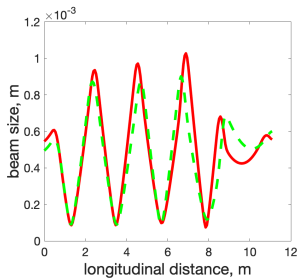


(a) Beam size

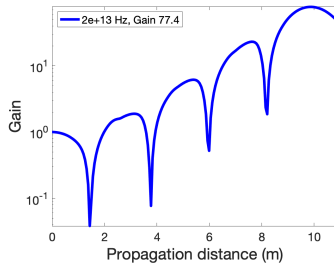


(b) PCA gain

# Peak current 75 A, $\varepsilon_x+10\%$ , $\varepsilon_y-10\%$

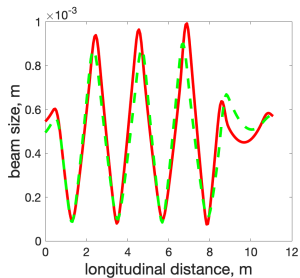


(a) Beam size

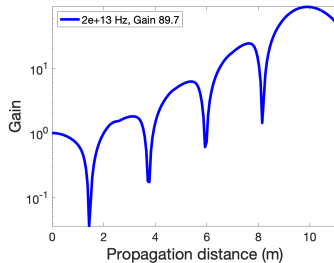


(b) PCA gain

# Peak current 75 A, $\beta_x+10\%$ , $\beta_y-10\%$

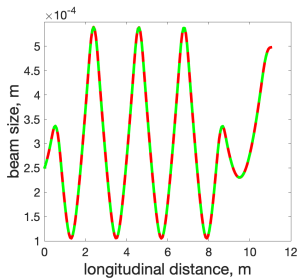


(a) Beam size

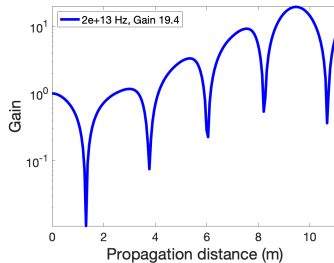


(b) PCA gain

# Peak current 50A, insufficient focusing



(a) Beam size



(b) PCA gain