

Beam evolution based on intrabeam scattering and  
Touschek effect for

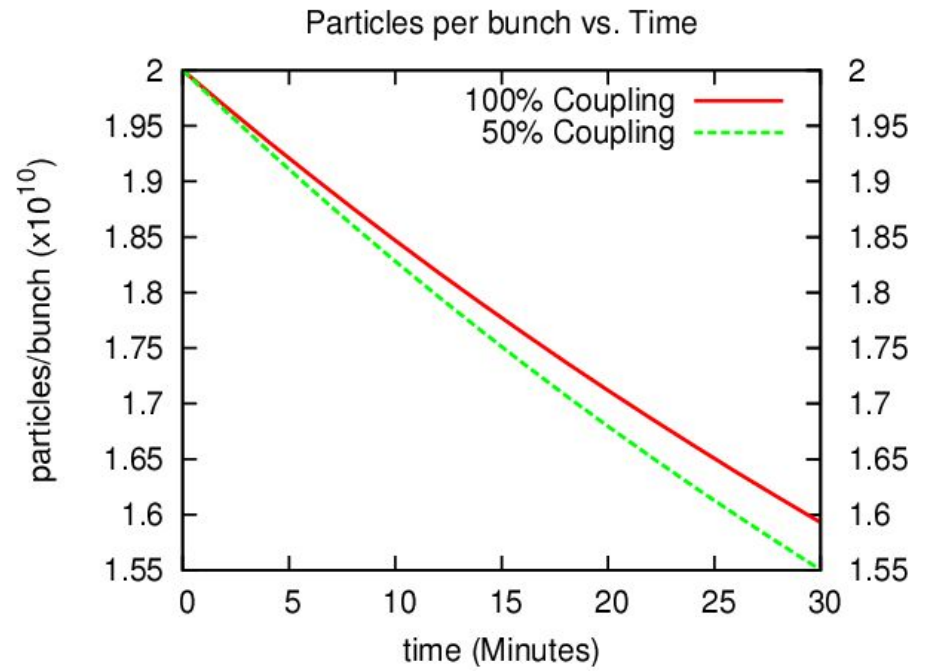
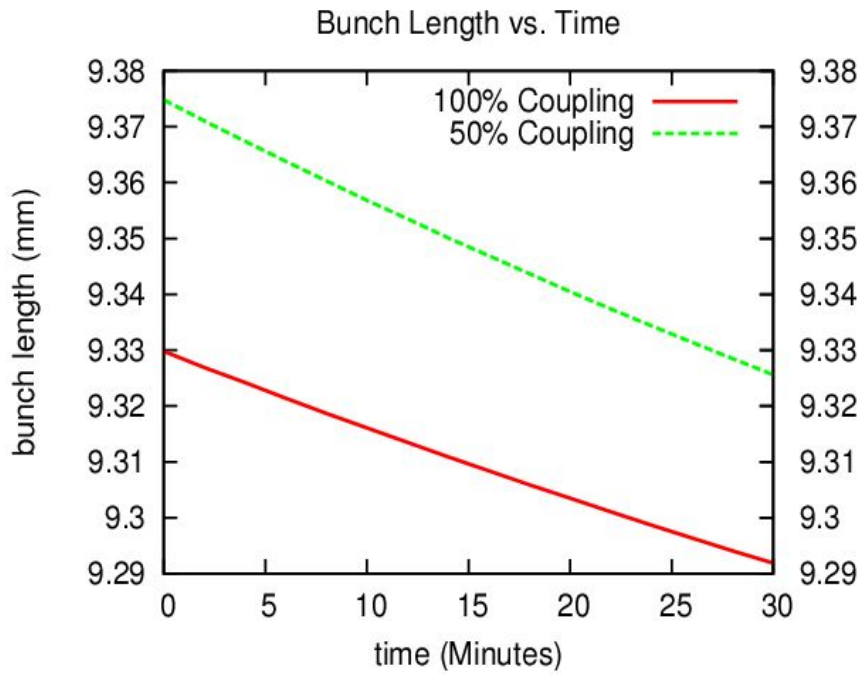
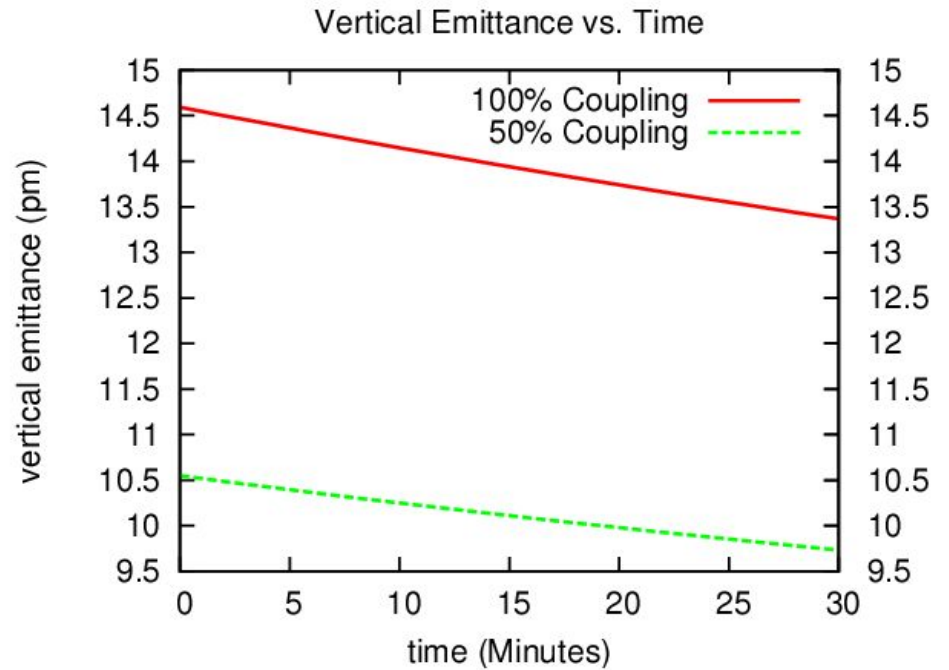
CesrTA v4c at 2.0 GeV with 21 kg wigglers

Assumptions:

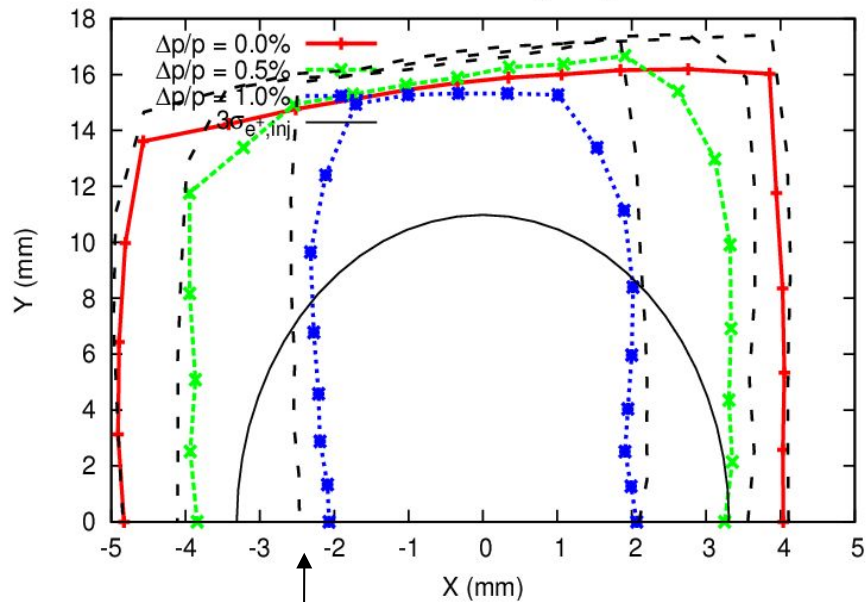
$V_{rf} = 8.5$  MV

1.5% momentum aperture

5 pm natural vertical emittance

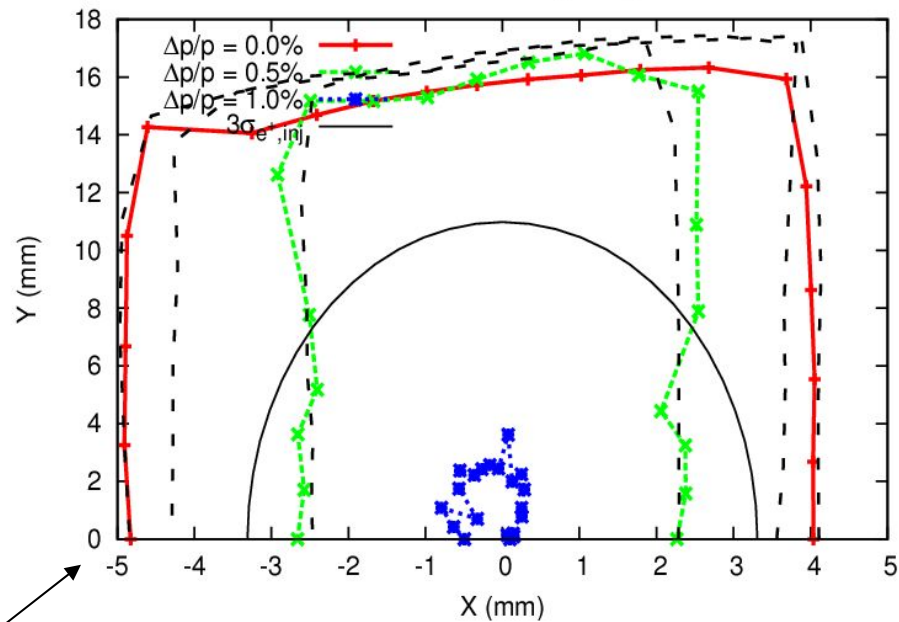


cta-2.0GeV-12wig-21kg



DA at 14.8 MV

cta-2.0GeV-12wig-21kg



DA at 8.52 MV

Smaller energy spread  
used in light of reduced  
DA at low RF

Chromaticity set to 1.0 in x and y. DA is strongly dependent on chromaticity. Lowering chromaticity may be another solution.

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