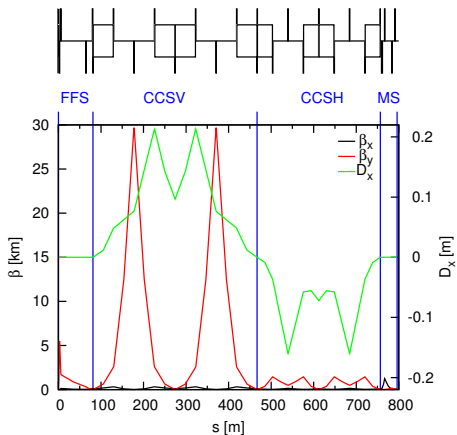


Recap of the small crossing angle IR concept

R. Martin

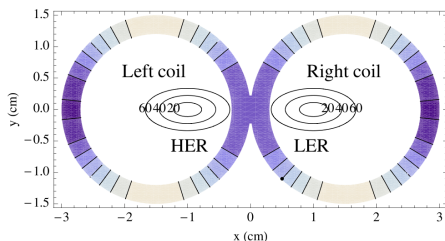
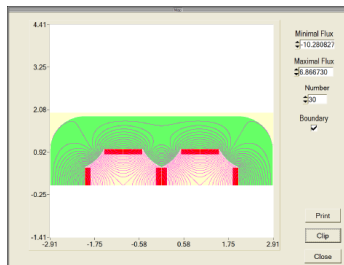
FCC-ee meeting
February 09, 2015

IR lattice

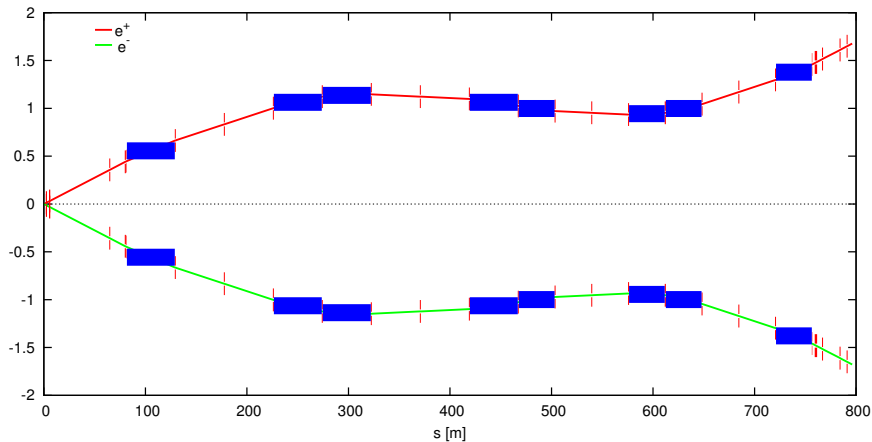


- based on generic IR design for linear colliders
- $L^* = 2$ m
- local chromaticity correction in x and y
- currently matched for $t\bar{t}$

Crossing angle



- SR issues for shared aperture QD0 \Rightarrow separate apertures for each beam
- minimum crossing angle determined by separation of magnetic axes of QD0
- based on conceptual designs for FFS quadrupoles:
 $\phi_{\min} \approx 11 \text{ mrad}$



Estimation of the size