LBνE Lattice Optics (opus #1)

JOHN A. JOHNSTONE
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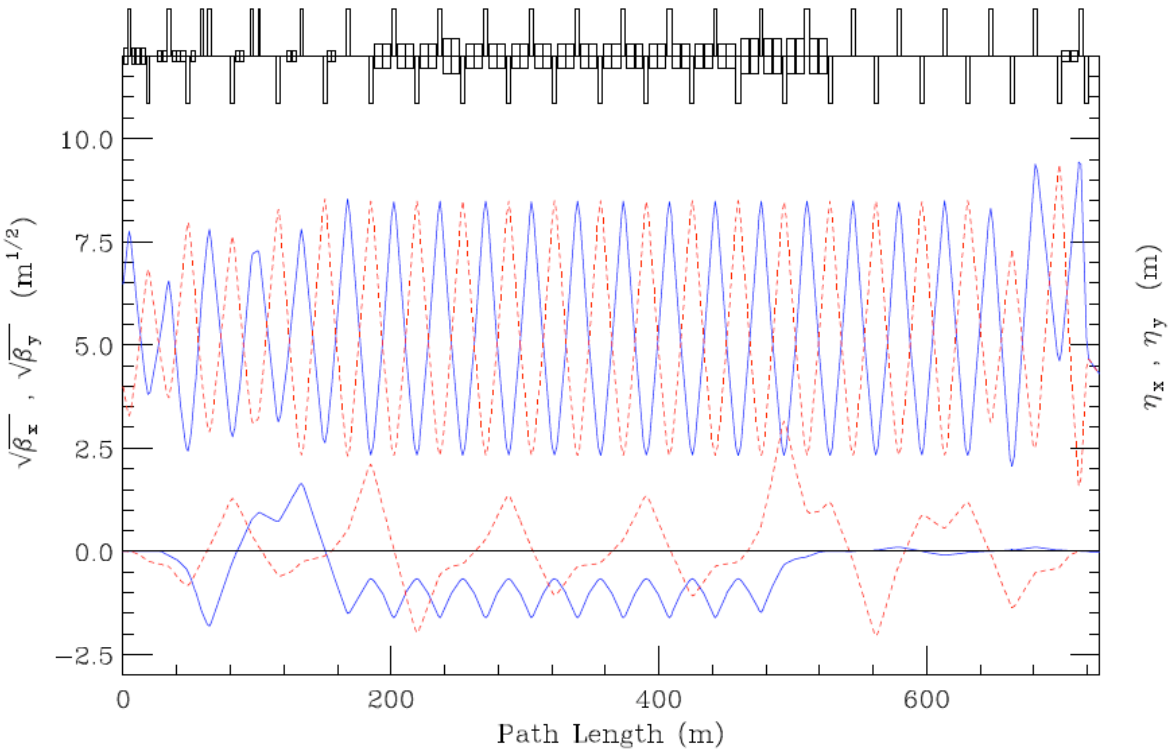

- Little rectangles = vertical bends
  Medium rectangles = horizontal bends
  Large rectangles = "significantly/seriously/treacherously" rolled B2s
  Up & Down rectangles = quadrupoles (F & D, respectively)

- Main lattice body is comprised of regular 120° FODO cells:
  β max = 72 m
  η_x max = 1.62 m
- The 2 final D-cells in the FODO arc have standard arc B2 dipoles rolled to create horizontal dispersion suppression *plus* provide the final vertical down-bend to the target.

- In the final focus, $\beta_{x,y}$ max = 89 m.

- At the end of the line (i.e.; the 'target' … *well, sort of …):
  $\beta_x = \beta_y = 18.0$ m ; $\alpha_x = \alpha_y = 0.00$
  $\eta_x = \eta_y = 0.00$ m ; $\eta'_x = \eta'_y = 0.00$

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