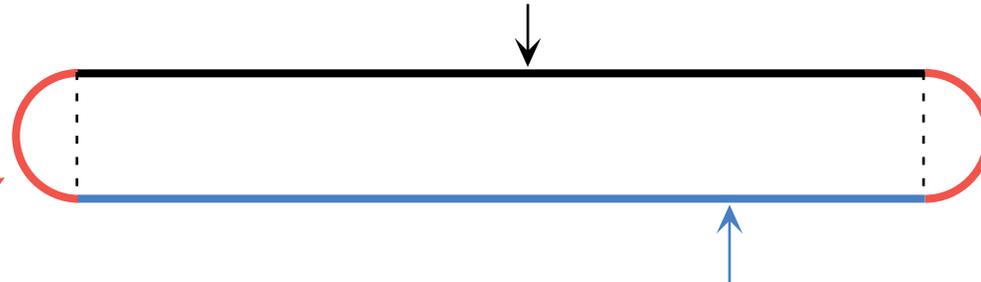


Storage Ring Lattice Modules and Their Functions

Production straight is 4 times the arc length for 0.4 decay ratio. Also average beta is 91 m to ensure only a 10% average contribution to ν divergence. Will introduce normal quadrupoles for coupling control and additional injection elements.

Arcs have 10 cells
Beta peak = 8.8 m
Phase/cell = 60°
Cells w/o bending near ends
for dispersion suppression
Skew-sextupoles used either
in central 6 or all 10 cells
for chromaticity correction



Second straight has natural beta about double the arcs but cells are adjusted to make a phase trombone to get 1 unit phase difference between eigenplanes. All adjustments to ring tunes will be done here.