



CERL 6.8: Complete Linear Optics

First optics since CERL 3.0 (August, 2007)

Now incorporates CESR (Q09W-B25E), dual-energy turnaround, re-designed linacs, new Wilson Lab x-ray lines, and more

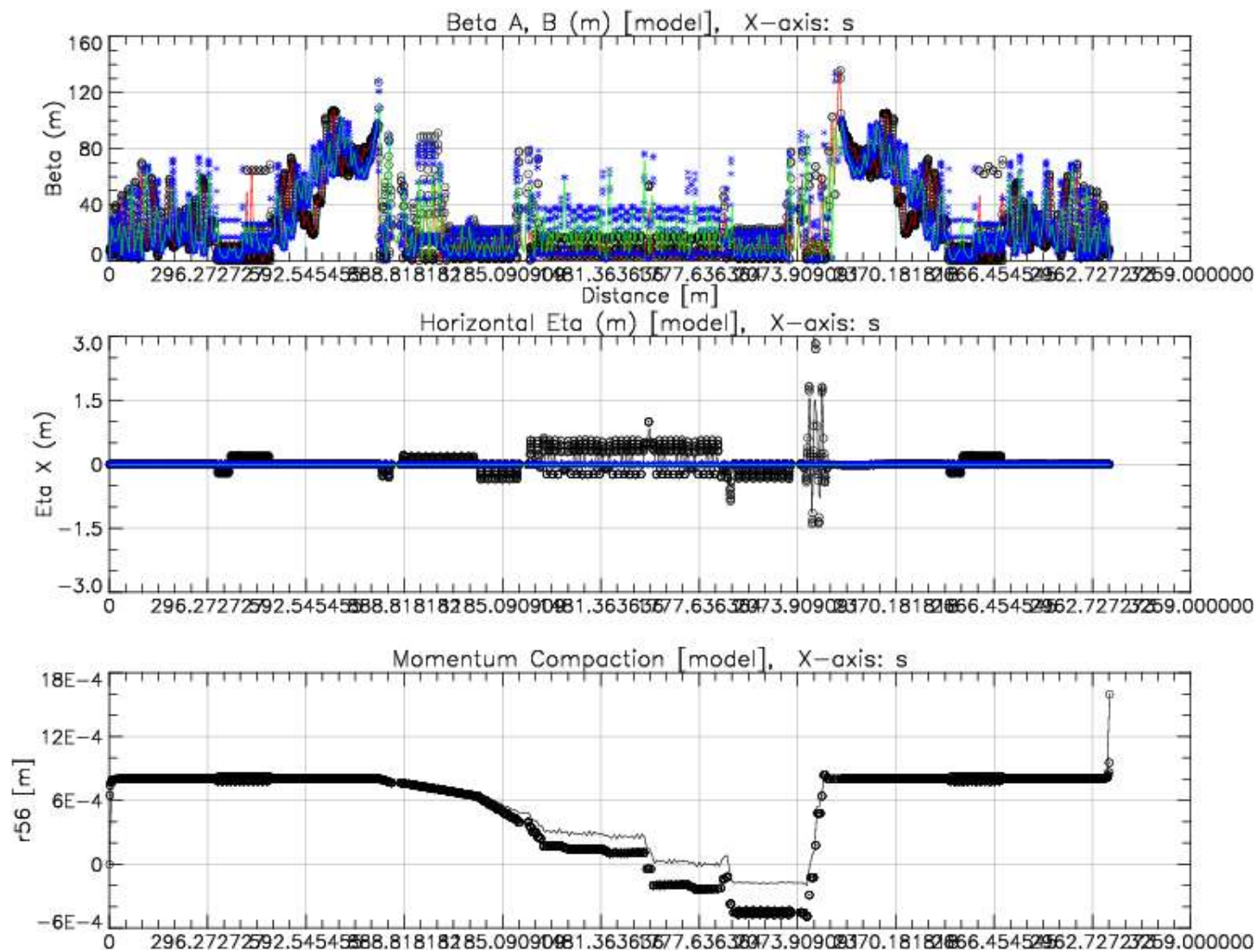
Jim Crittenden (empowered by GH, Carol Johnstone, Chris Mayes)

ERL @ CESR, 6 November 2008





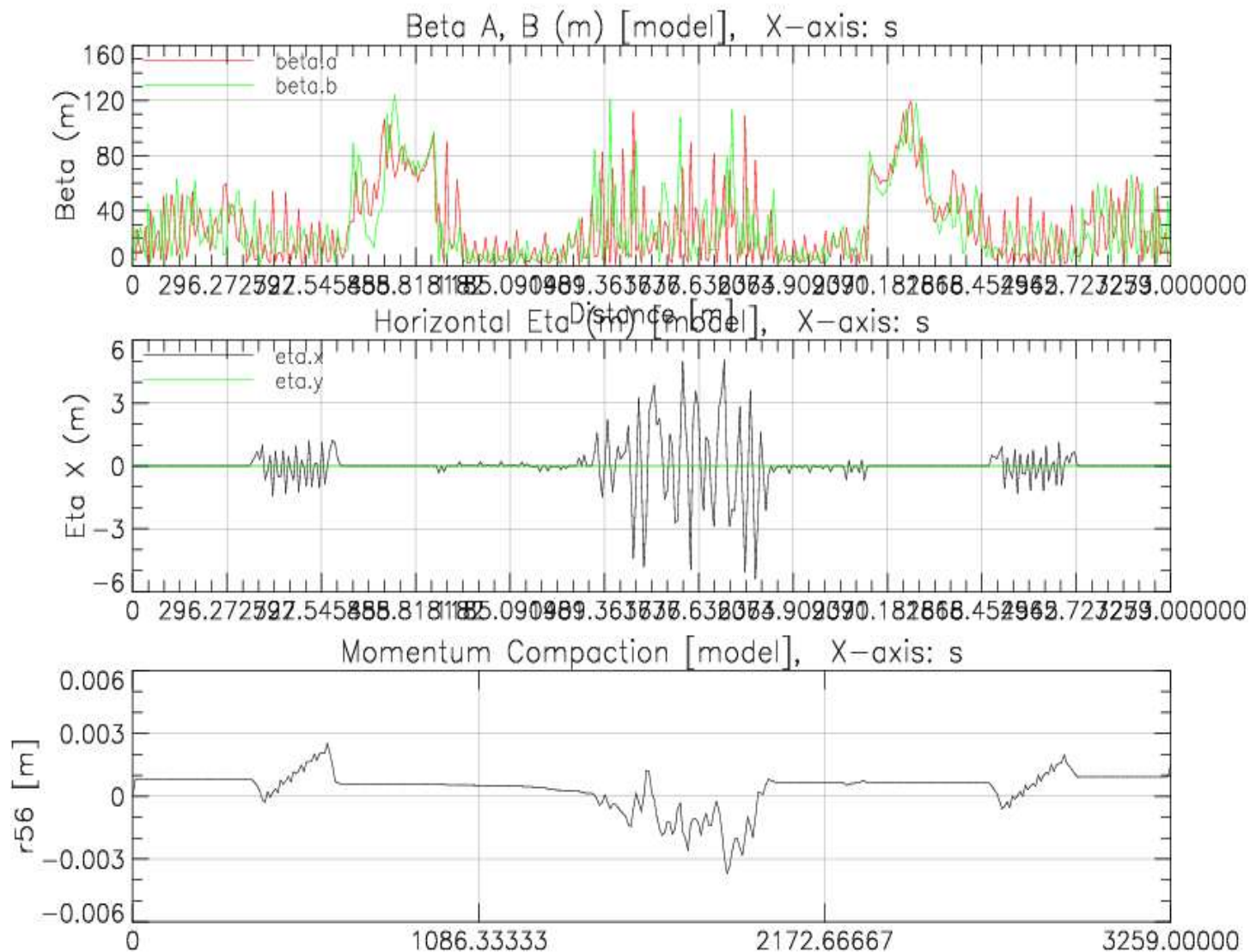
ERL

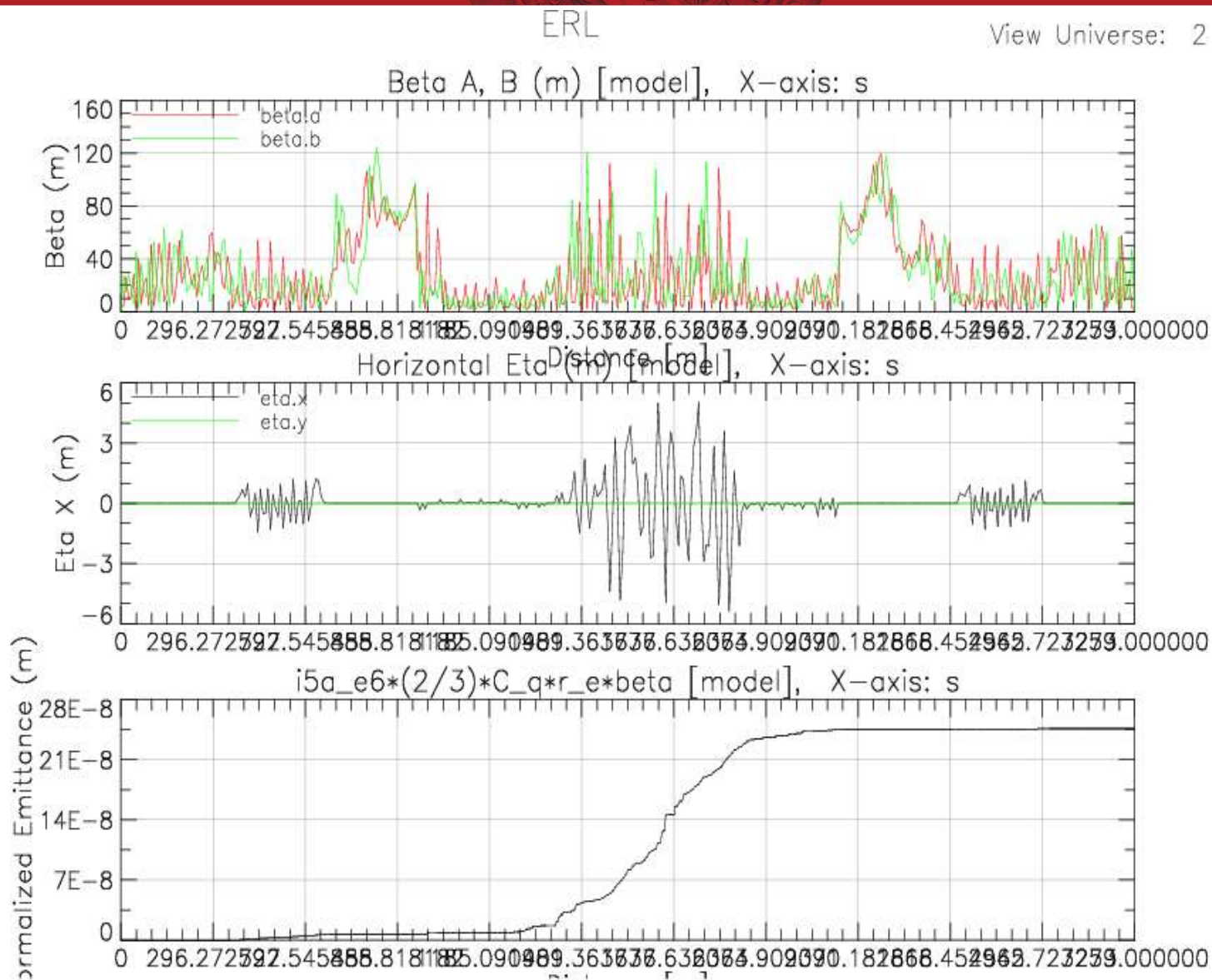




ERL

View Universe: 2

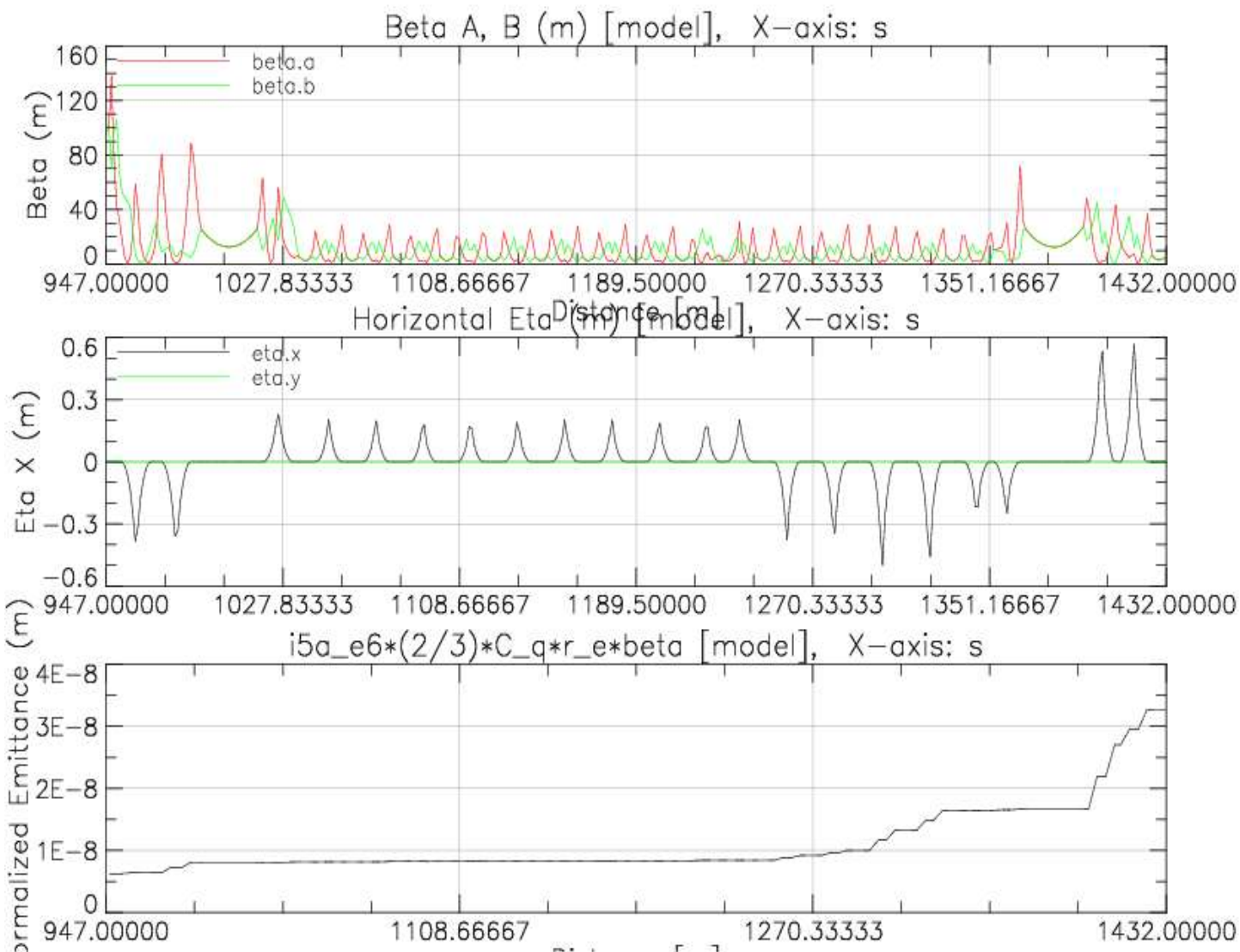






ERL

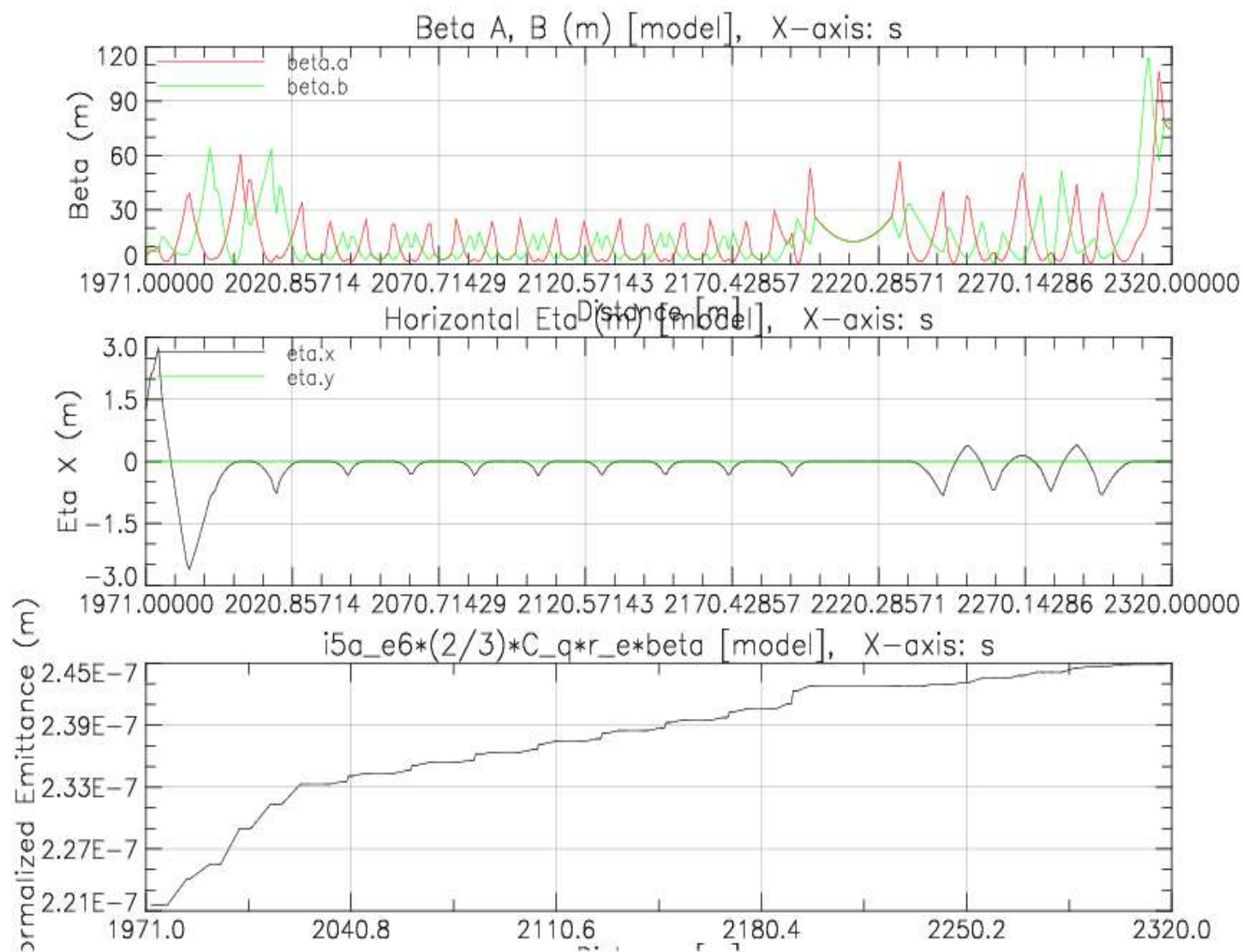
View Universe: 2

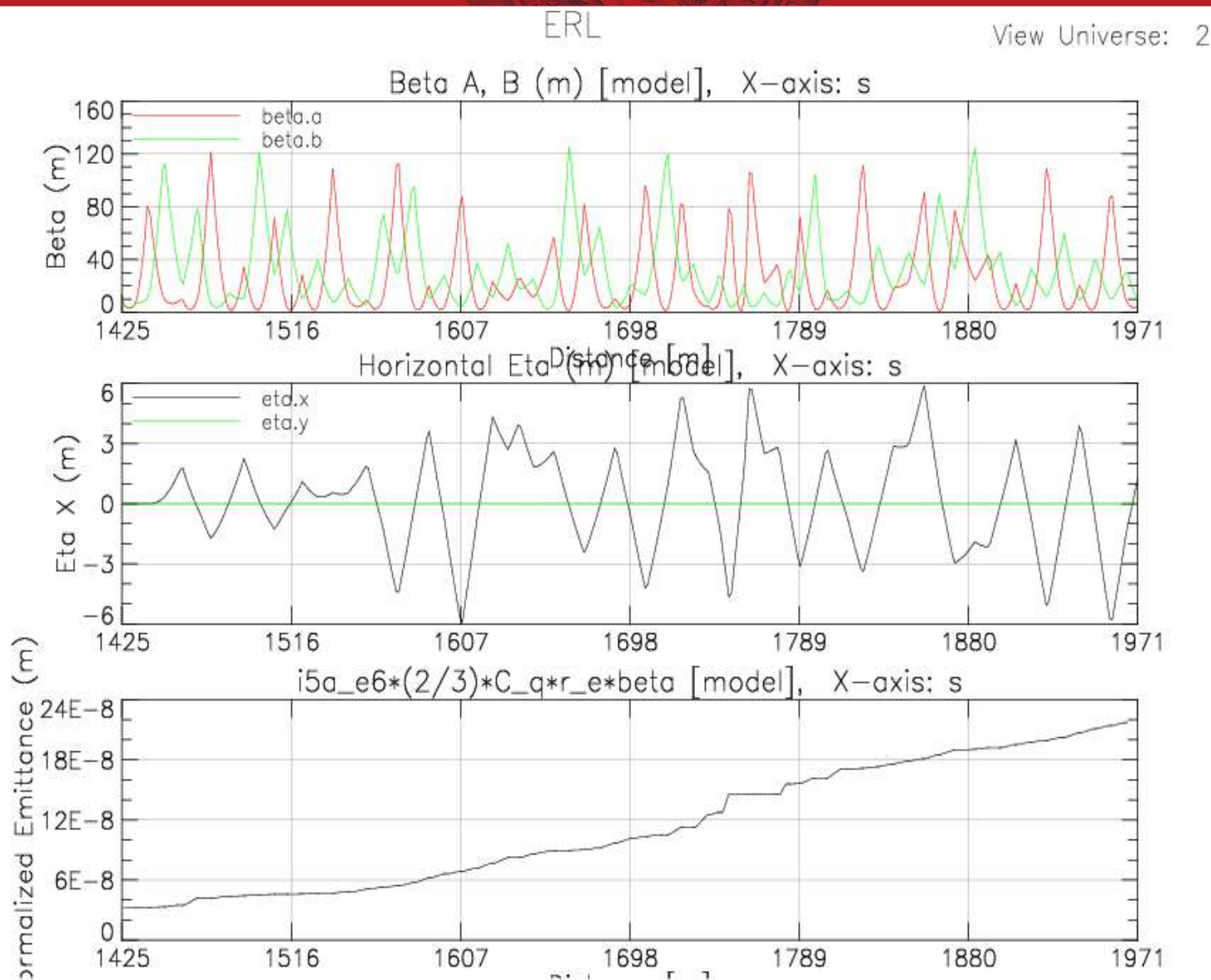




ERL

View Universe: 2







CERL 3.0



CERL 6.8





- *Design second-order optics*
- *Use 4-m dipoles rather than 2.5 m dipoles in TA/TB*
- *Reduce number of matching quads in TA/TB*
- *Introduce multi-pass elements in TA/TB*
- *Introduce horizontal corrector after dump*
- *Make 1-inch round aperture everywhere except CESR*