

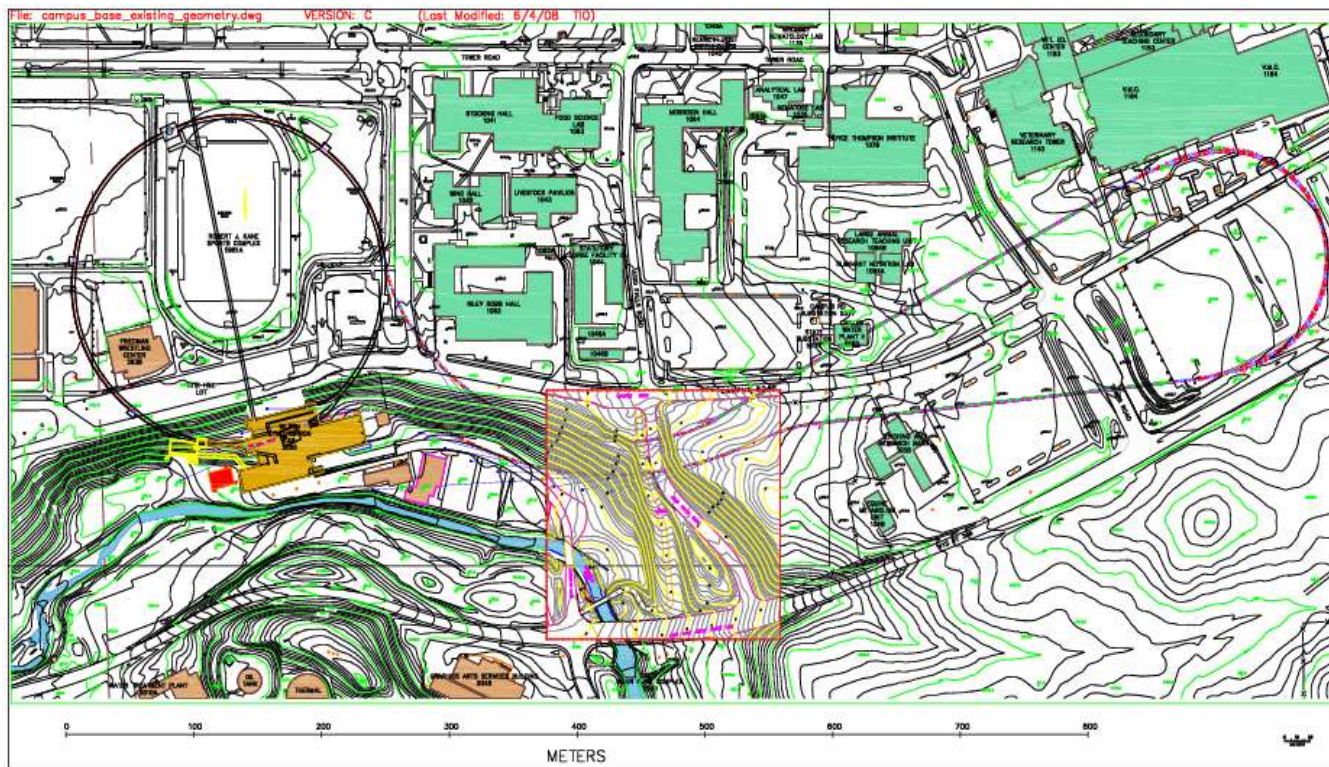


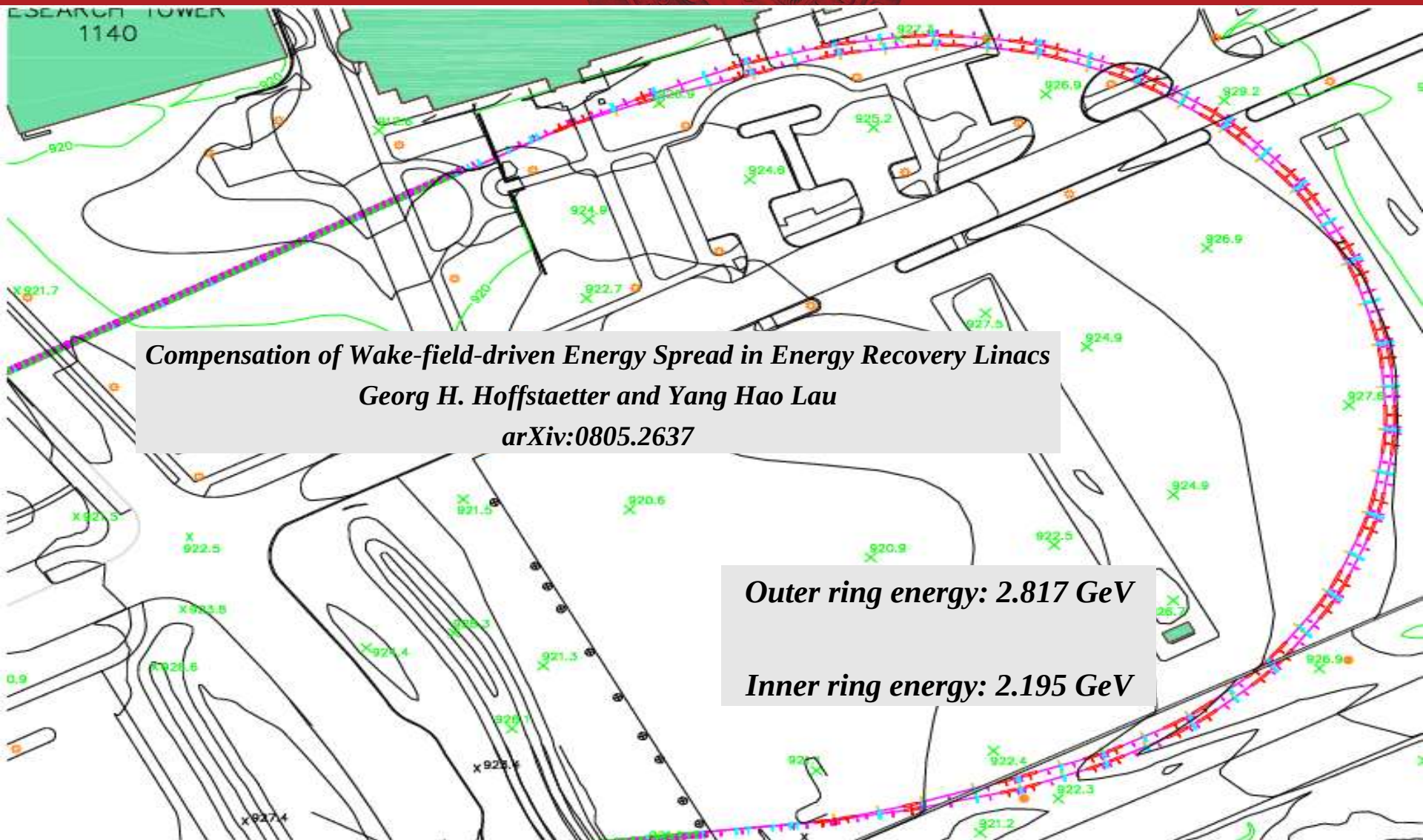
CERL 6.5 Layout & Turnaround Optics

Updates since 6.2: Linacs no longer halved, dual turnaround with optics by Carol Johnstone

ERL @ CESR meeting 7/16/2008 CERL6.2 : Adapted to version 3.0 footprint, with CHESS in the tunnel, new X-ray lines and turnaround
Jim Crittenden

ERL @ CESR, 6 August 2008





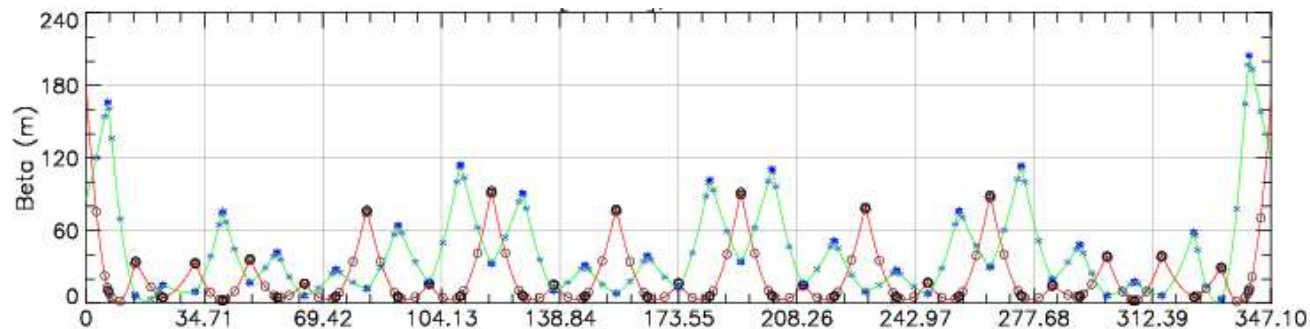
Compensation of Wake-field-driven Energy Spread in Energy Recovery Linacs

Georg H. Hoffstaetter and Yang Hao Lau

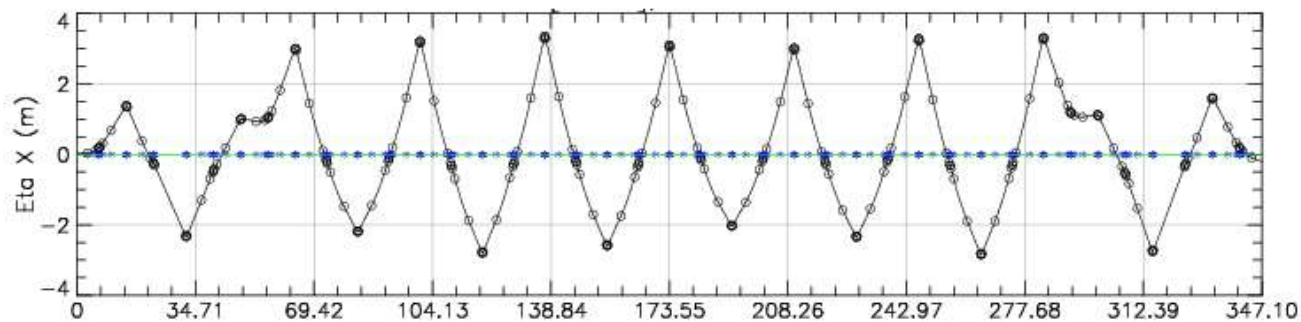
arXiv:0805.2637

Outer ring energy: 2.817 GeV

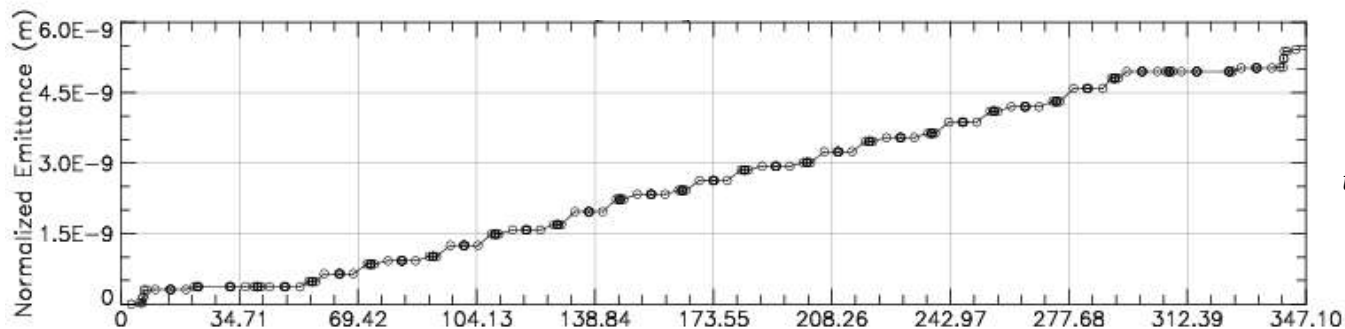
Inner ring energy: 2.195 GeV



Beta functions



Closed horizontal dispersion



*Emittance growth of
 $5.5e-9/\gamma = 0.56$ pm
to be compared with design emittance of
8 pm*

S (m)



The next two weeks ...

- *Clear up some details in the turnaround optics*
- *CJJ will work at FNAL on optics for the CHESSE beamline elements prior to her next visit*
- *CM and I will recalculate the linac optics*