



*For studies of L^**

Andrei Seryi, SLAC

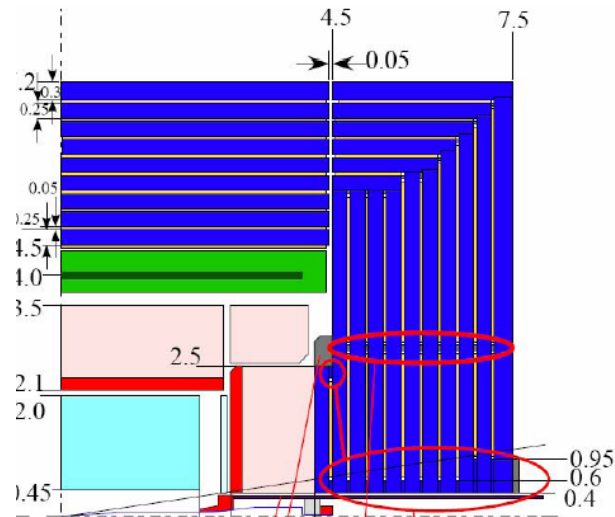


Optics for L* study

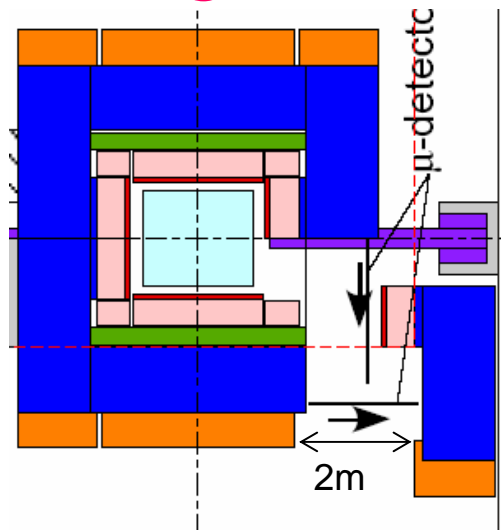
- Test FF optics with different L* and FD drift
- Location of QF1 is fixed, and moved out, with respect to standard version, by 1.69m
 - **is the new QF1 location (at 9.5m) optimal or to be adjusted?**
- Retuning of optics is done without change of bends – geometry is fixed.
- Optics versions are not tuned, suitable only for collimation studies
- Location
<http://www-project.slac.stanford.edu/ilc/acceldev/beamdelivery/tmp/lstar/>



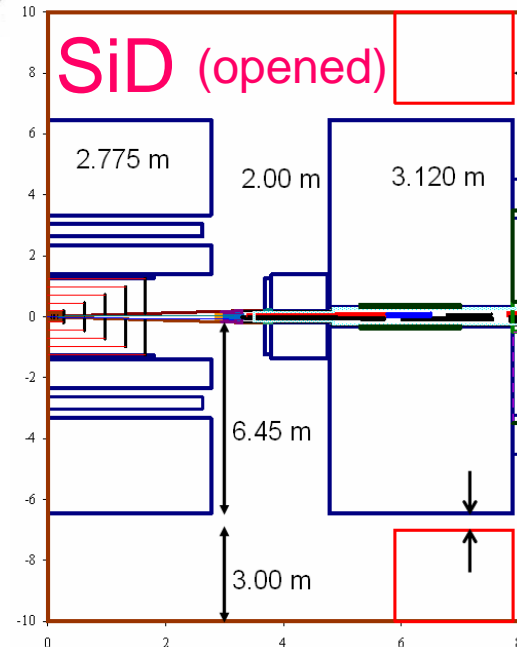
Detector sizes & opening on beamline



GLD



	SiD	GLD
IP	0	0
End of detector	5.9	7.5
Desired opening	(2.5?) 2	2.5
Warm section need to end after z=	7.9	10
Reduced opening for fast fixes	2	1.5
Warm section need to end after z=	7.9	9



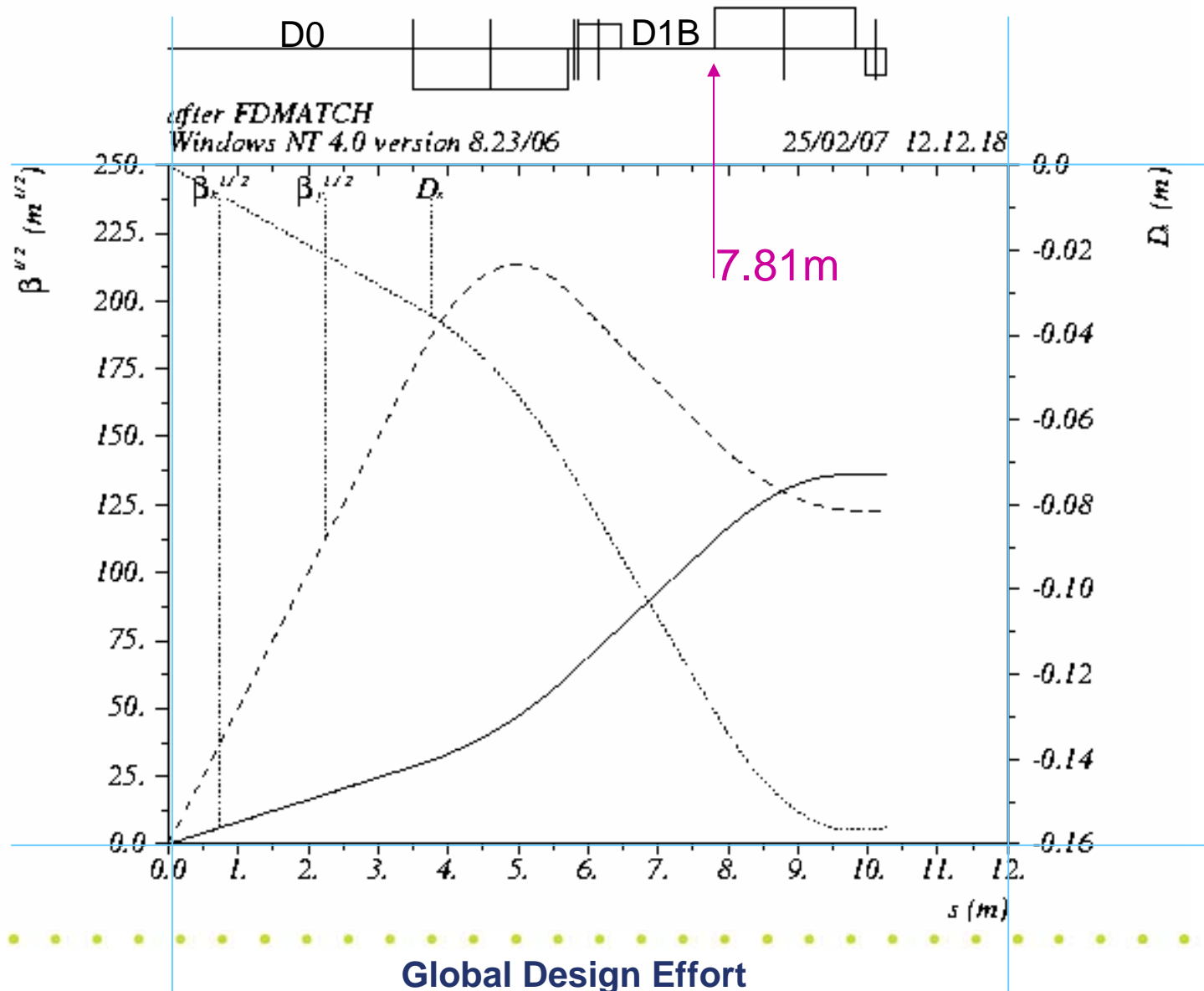
Since opening of detectors on the beamline is intended only for quick fixes, the required width for opening is reduced in comparison with opening off-beamline



Standard version 351LD0_135D1B

D1B: DRIFT, L=1.35+0.0

D0: DRIFT, L=3.51+0.0

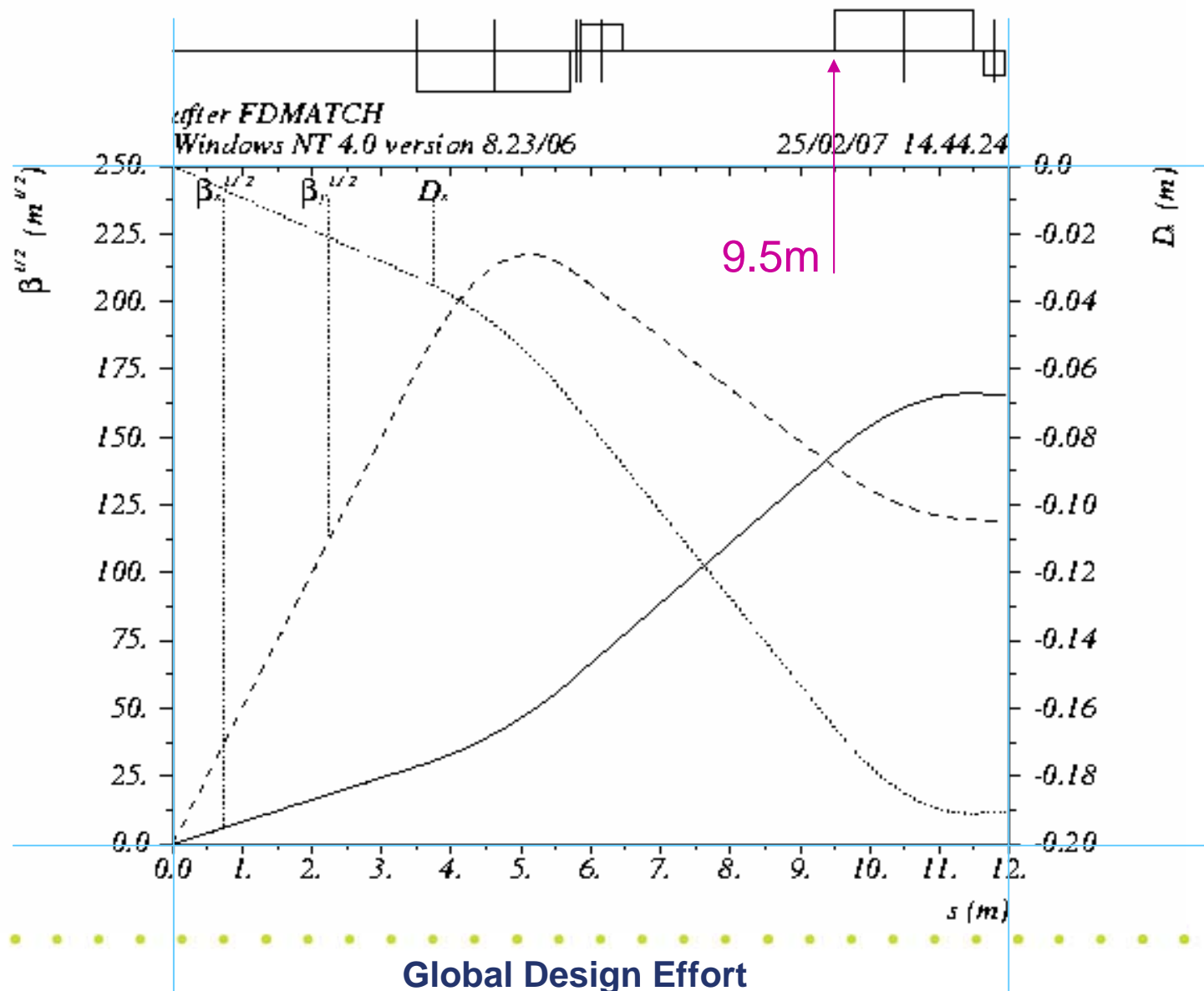




351LD0_304D1B

D1B: DRIFT, L=1.35+1.69

D0: DRIFT, L=3.51

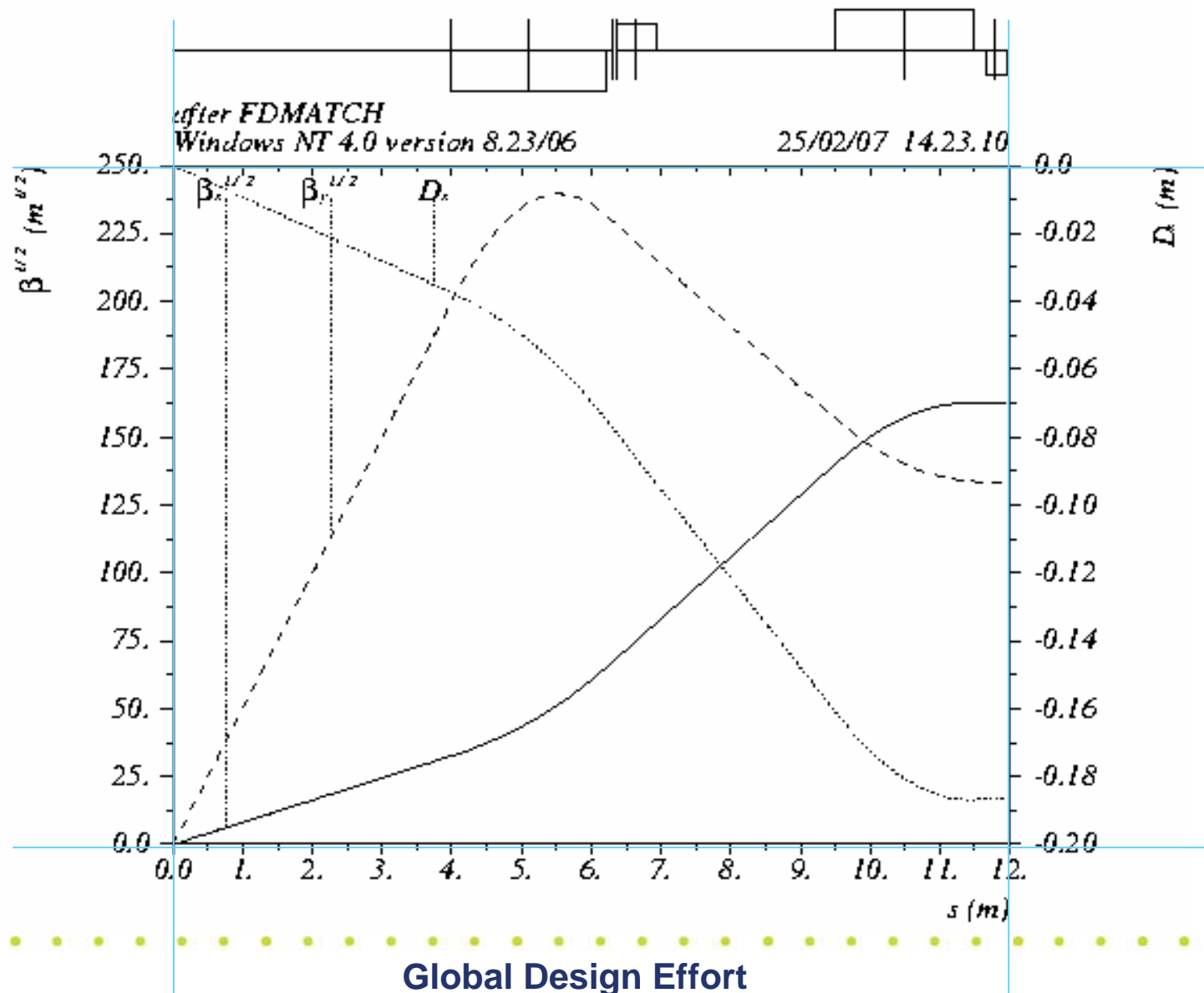




400LD0_255D1B

D1B: DRIFT, L=1.35+1.2

D0: DRIFT, L=3.51+0.49



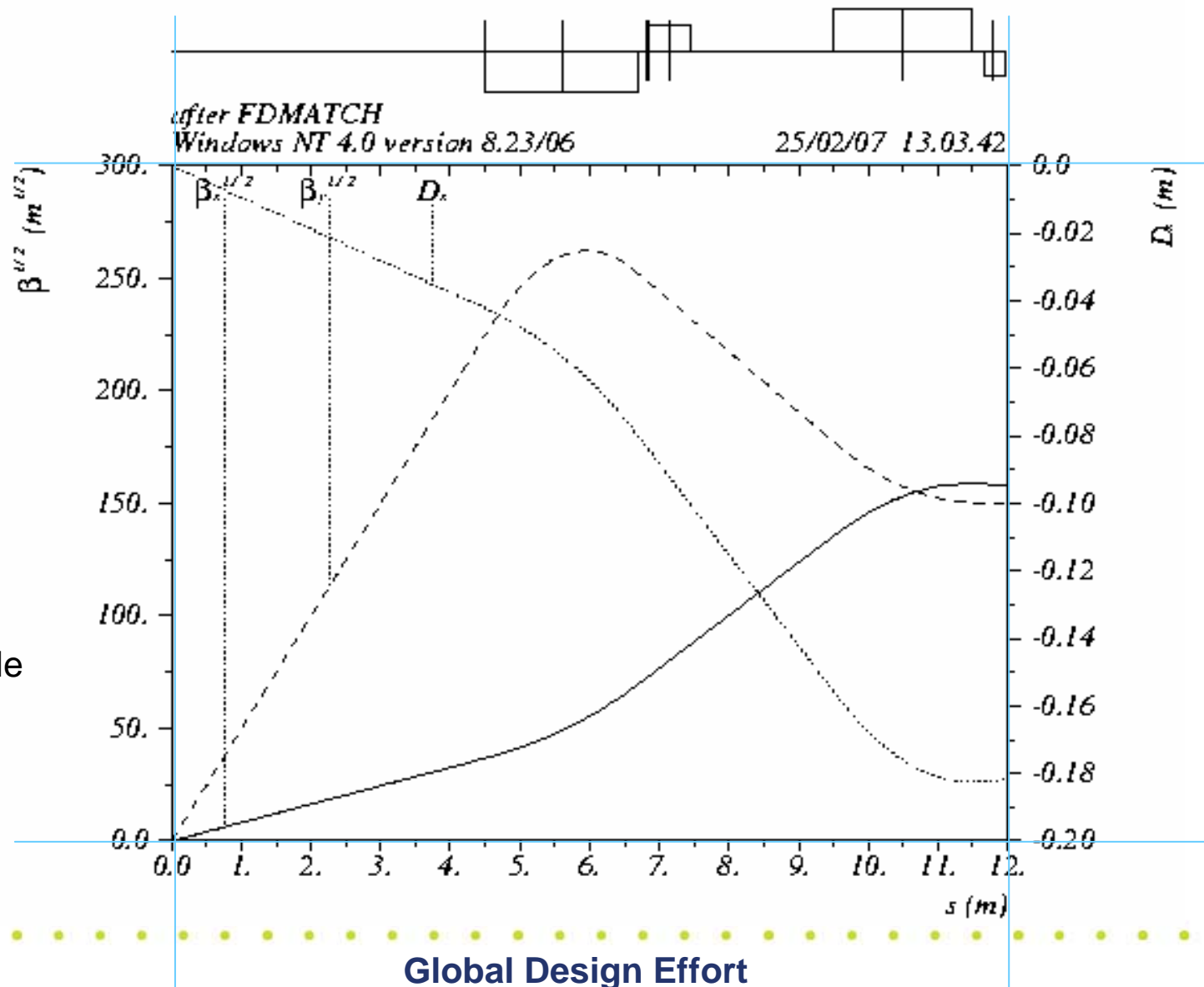


450LD0_205D1B

D1B: DRIFT, $L=1.35+0.7$

D0: DRIFT, $L=3.51+0.99$

Note that
vertical scale
changed





450LD0_205D1B

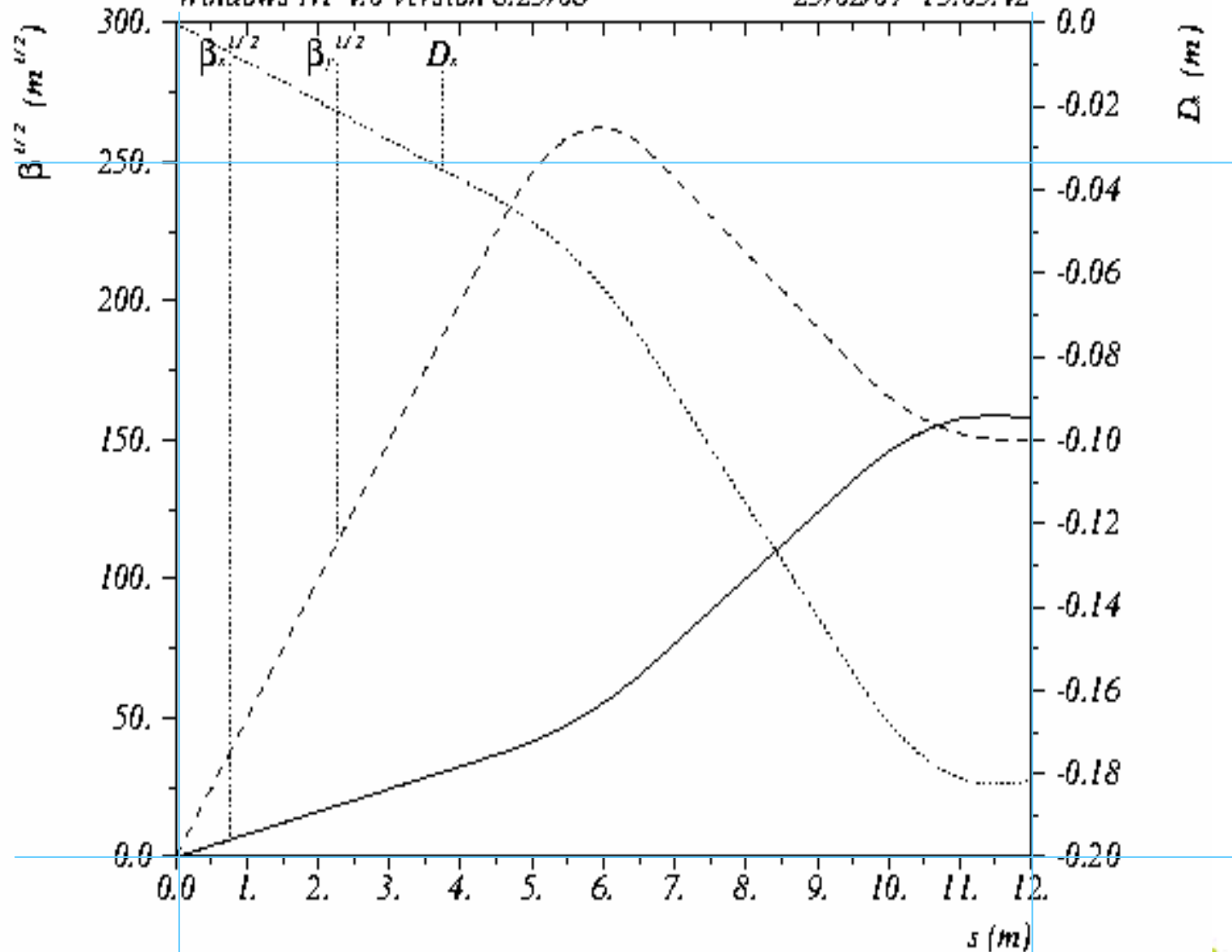
D1B: DRIFT, $L=1.35+0.7$

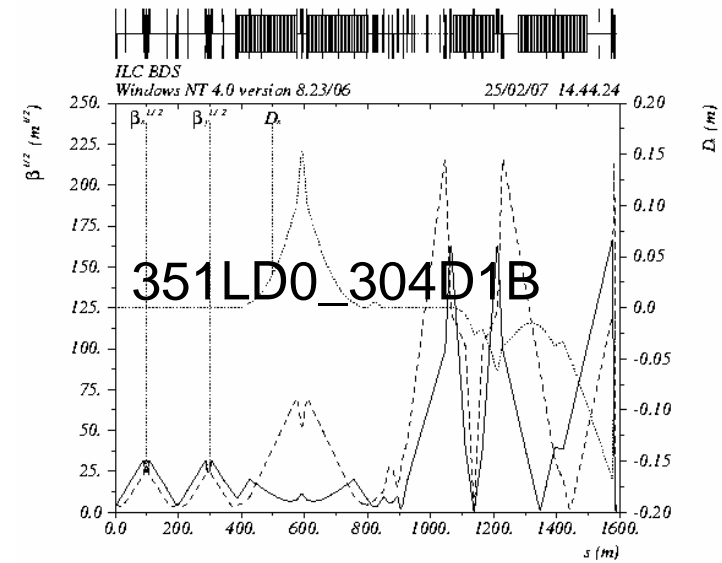
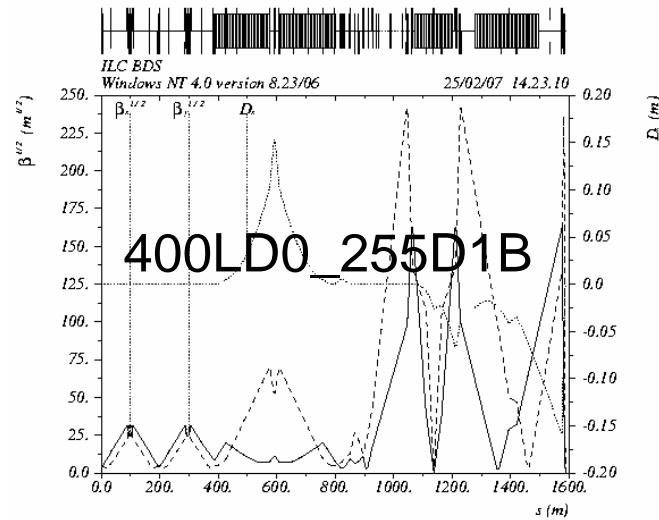
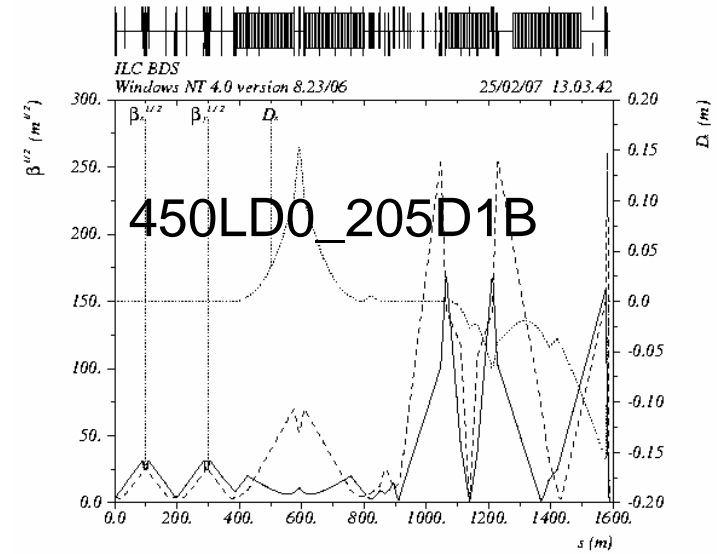
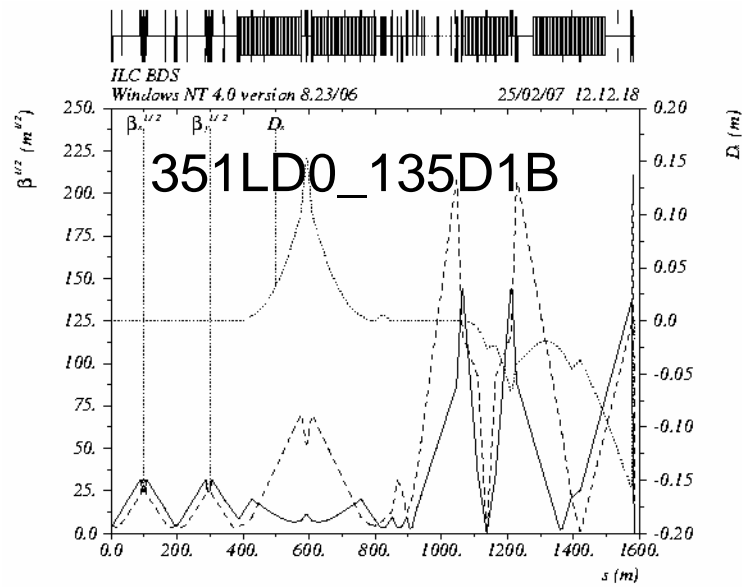
D0: DRIFT, $L=3.51+0.99$

after FDMATCH

Windows NT 4.0 version 8.23/06

25/02/07 13.03.42







Plan

- Study
 - collimation depth
 - collimation wakefields
 - amount of the beam collimated for certain model of the halo
 - number of muons reaching the detector
 - FD strength
- What else is missing?
 - we may need to redesign extraction line quads