Update (29/05/2012)

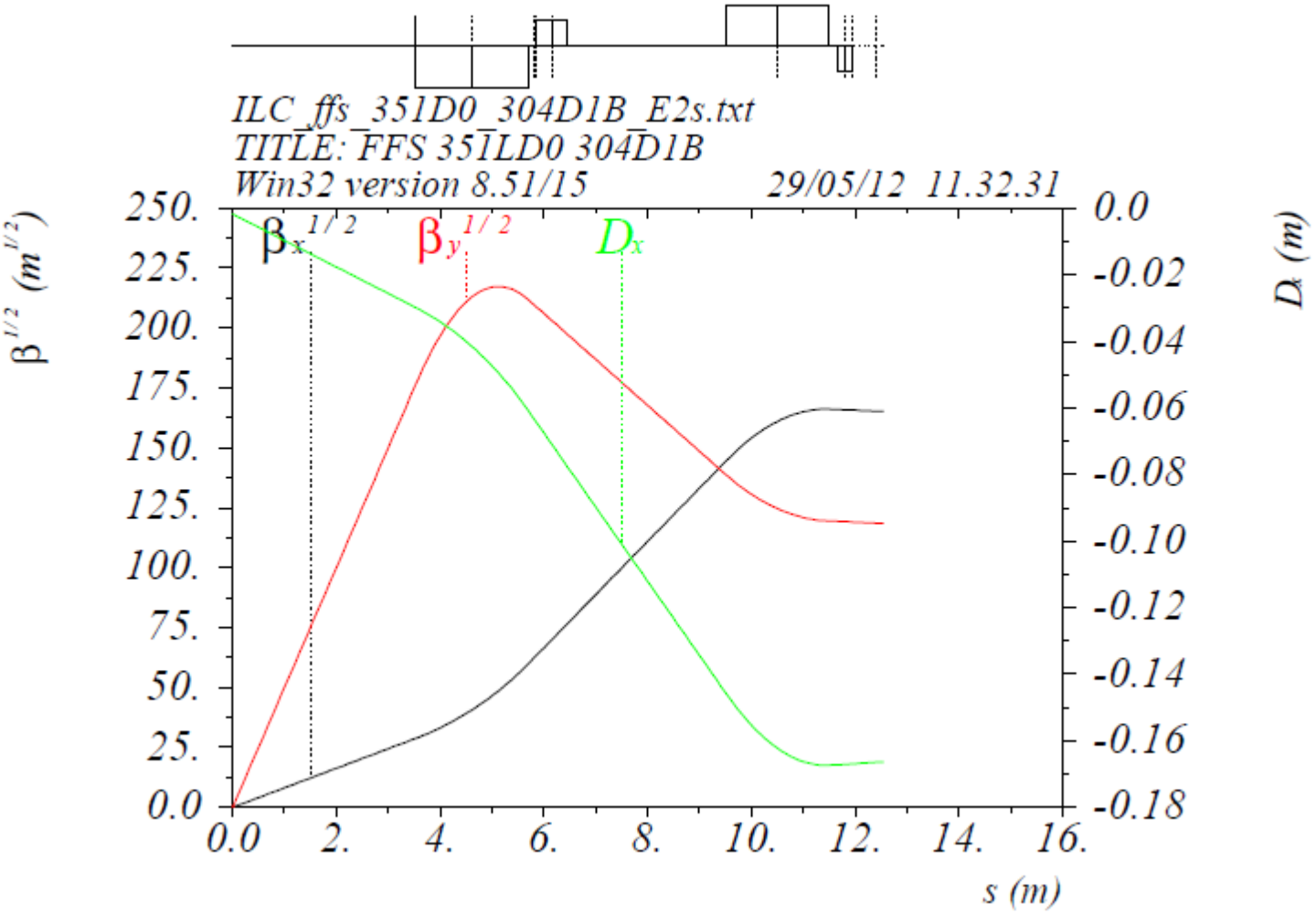
- MAD-X for Windows XP in Oxford – can run it now (some editing of files was required
- MAD-X via SSH in DESY/CERN is running but..
- I can use converted BDS lattice to first step matching
- Take 250 GeV CoM settings the task is to:
- match to the new β_x =13mm and β_y =0.41mm
- and remove dispersion which is non=zero in the present lattice –should vary quadrupoles downstream
- KQF3 := 0.01152479723 1; kqf3 = 0.01147786643 ;
- KQD0 := -0.1522917976 6; kqd0 = -0.1522525301 ;
- KQF1 := 0.0723490923 3; kqf1 = 0.0725491621 7 ;
- KQF5 := 0.0110624087 21; kqf5 = 0.0109734617 2 ;
- KQD4 := -0.858256166518E-2; kqd4 = -0.00860584266 6 ;

β_x = *0.01299999482* ; β_y = *0.0004105255407* ; α_x =*3.852111358e-010*;
α_y = *3.623848278e-010* ; Dx=*-1.285273381e-010*

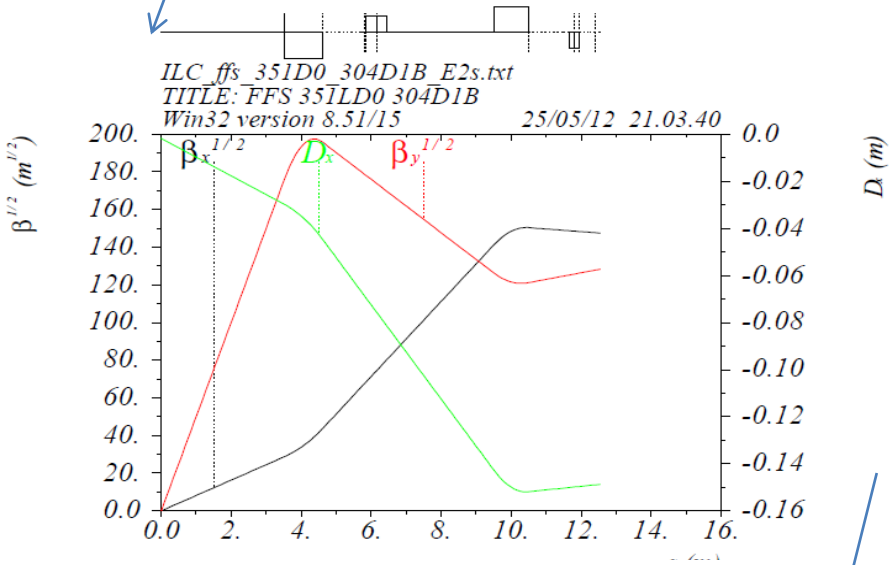
Update(cont.)

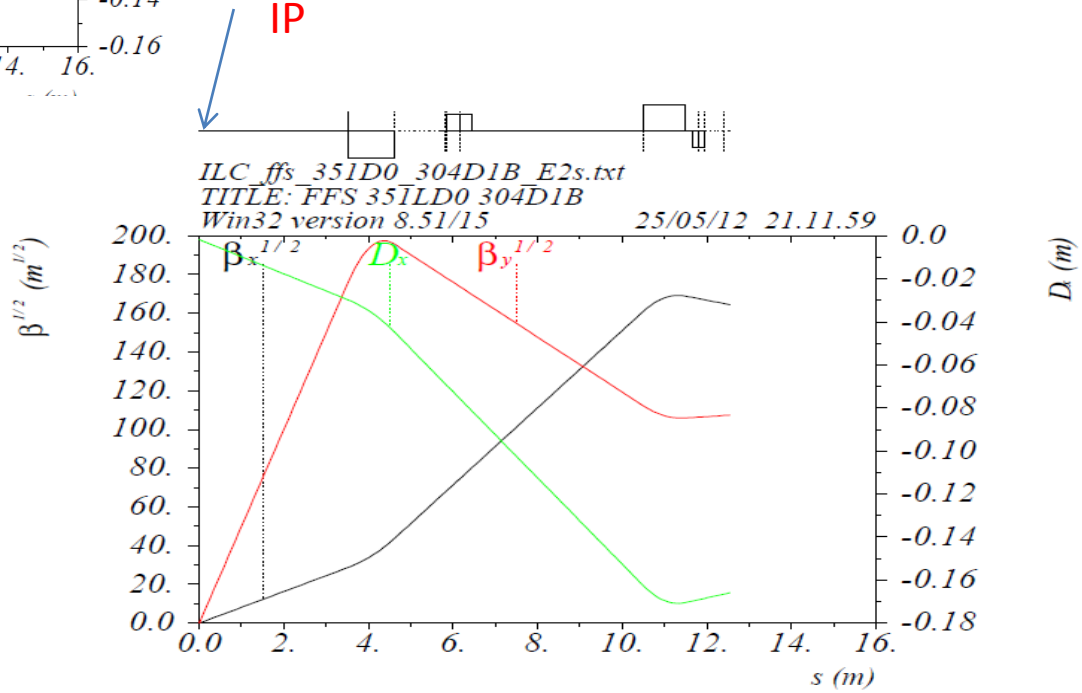
- When I use the full matching program (with call to Python)from Rogelio, some error message appears:
- *file "getSigmasMixed25.py", line 10, in ?*
  *from mapclassGaussianDelta25 import **
  *File "/afs/desy.de/user/m/malyshev/private/ILC_BDS/RepILCcopy/mapclassGaussianDelta25.py", line 4, in ? from numpy import **
  ImportError: No module named numpy
- *Nevertheless*
- ./getSigmasMixed25.py is running
  and I got a list of sigma values. Thus some mistake in redirection to CERN afs happens somewhere.

500 GeV CoM final doublet



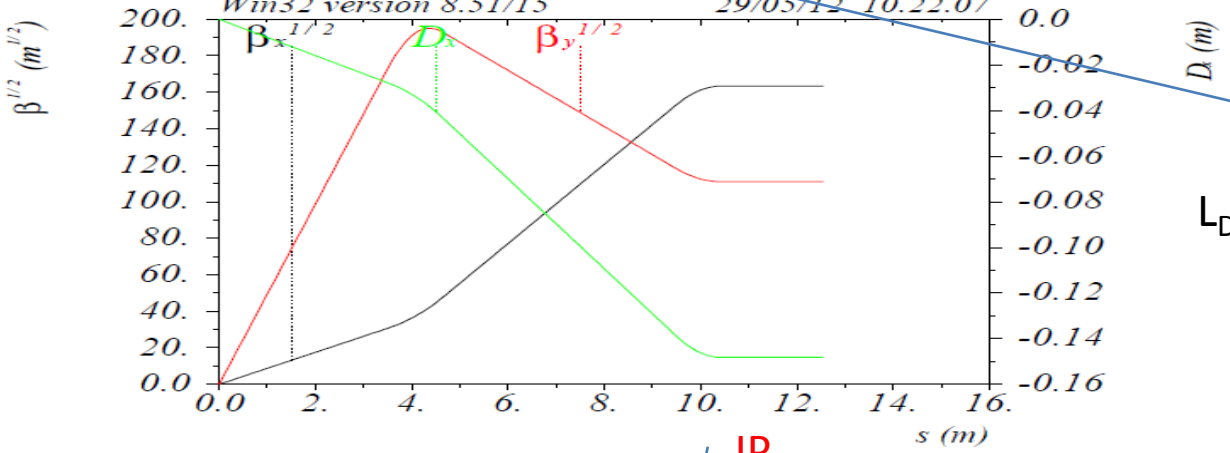
IP 250 Gev CoM (unmatched)





250 GeV CoM

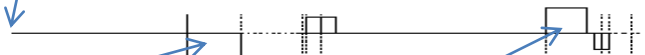
IP

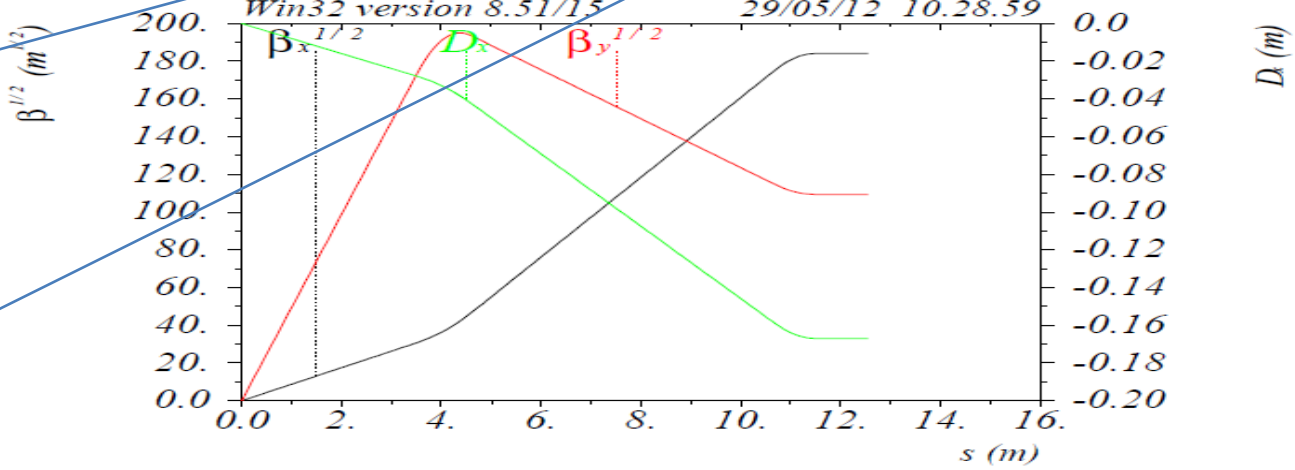


L_{QF1}= L_{D0}=1/2of original-0.06135

L_{D0}=1/2of original+ 0.0235

IP





L_{D0}=1/2of original-0.19

L_{QF1}=1/2of original-0.0784

Plans

- Get MAD-X matching program running (update Python in DESY or/and short visit to CERN?)
- 250 Gev CoM lattice optimisation over range of parameters