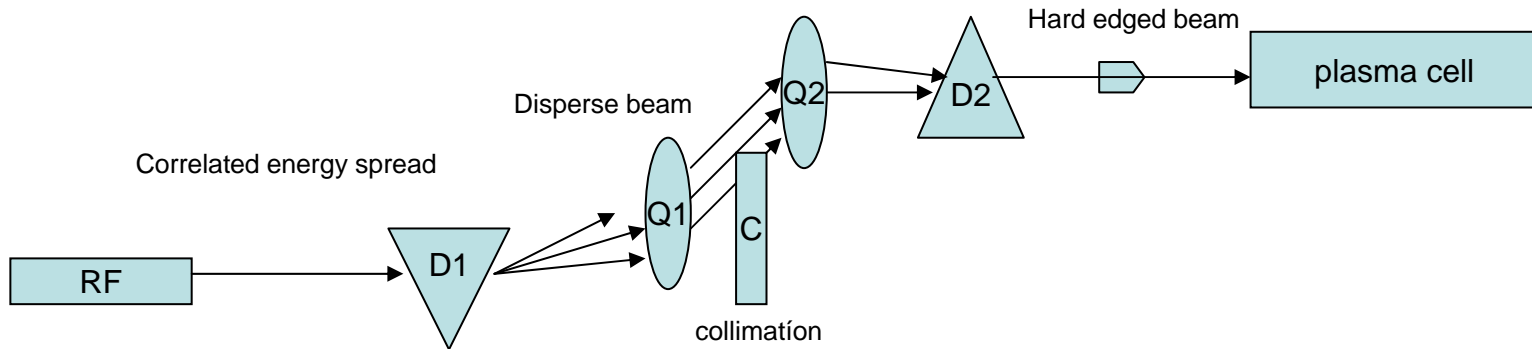
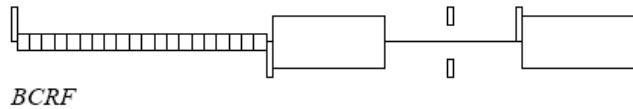


# dogleg+collimator?

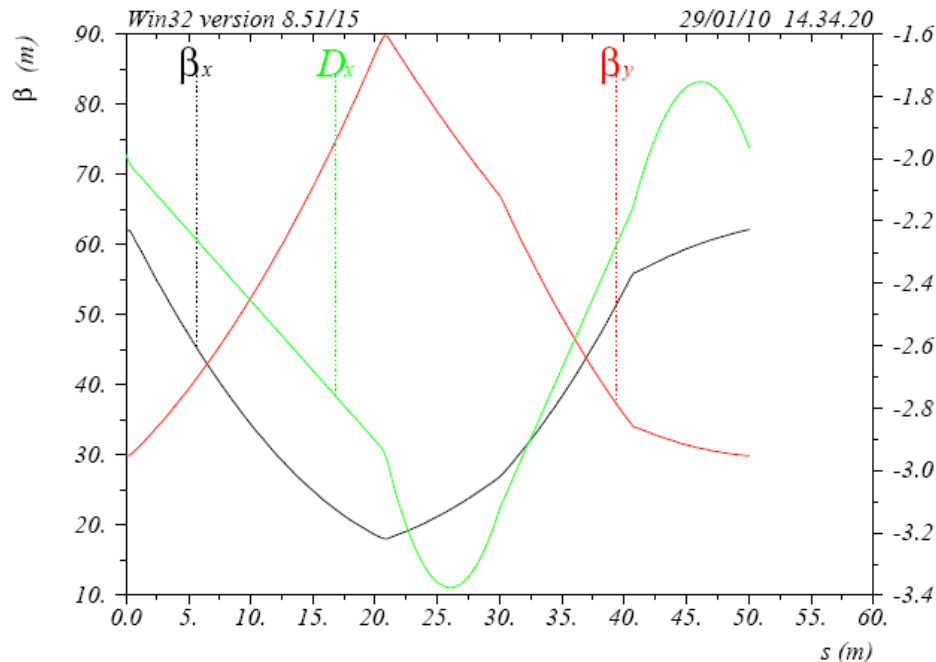


Can dipoles and collimator be used for hard edged beam?

# beam collimation

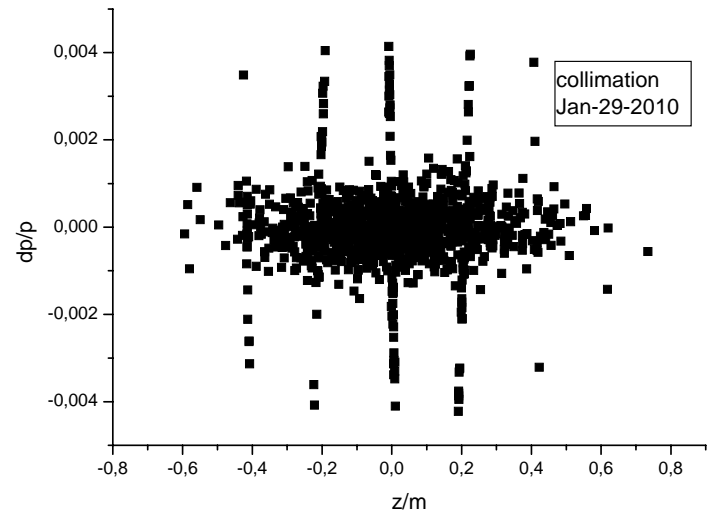


BCRF



$\delta_E/p_{oc} = 0.$

Table name = TWISS

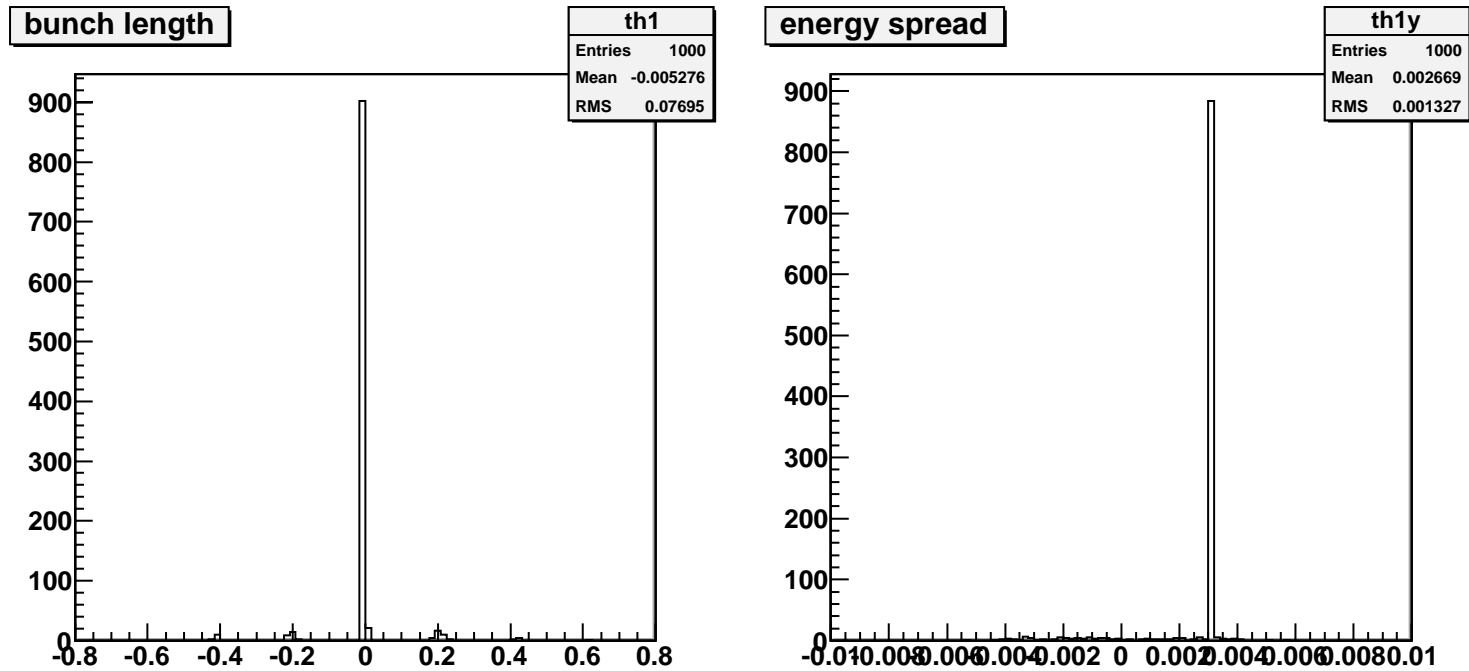


Collimation (0.01 m+0.005 m), L=0.5m

4% of beam survive

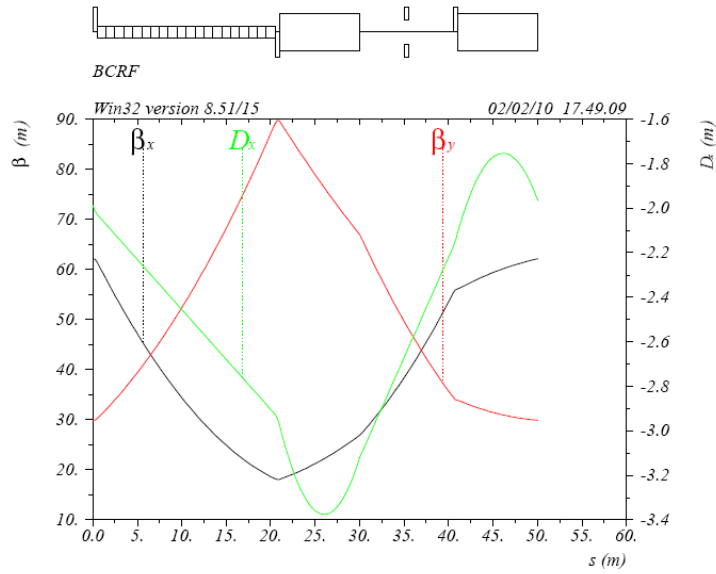
720 MHz RF is used to produce the energy correlation along the bunch  
3rd PPA webex meeting G. Xia  
(Feb 4, 2010)

# bunch length



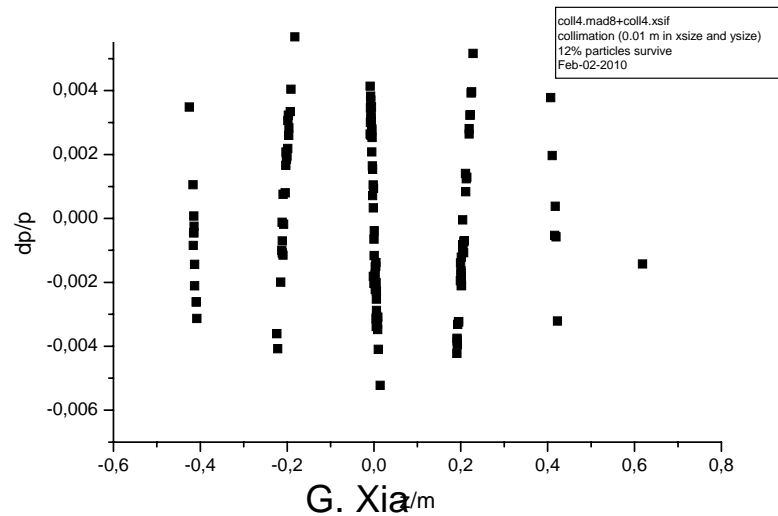
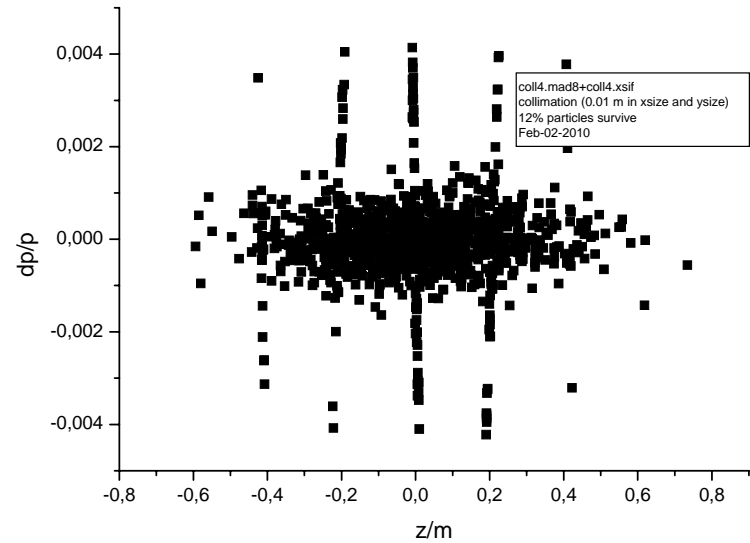
7 cm bunch is produced with hard edges

# another try

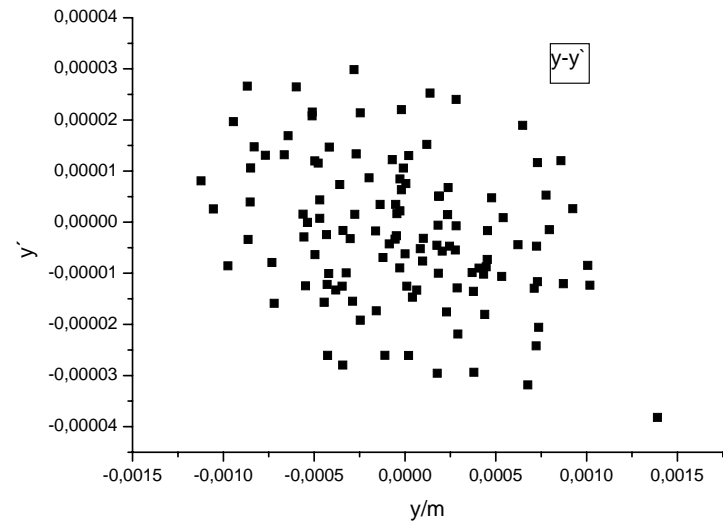
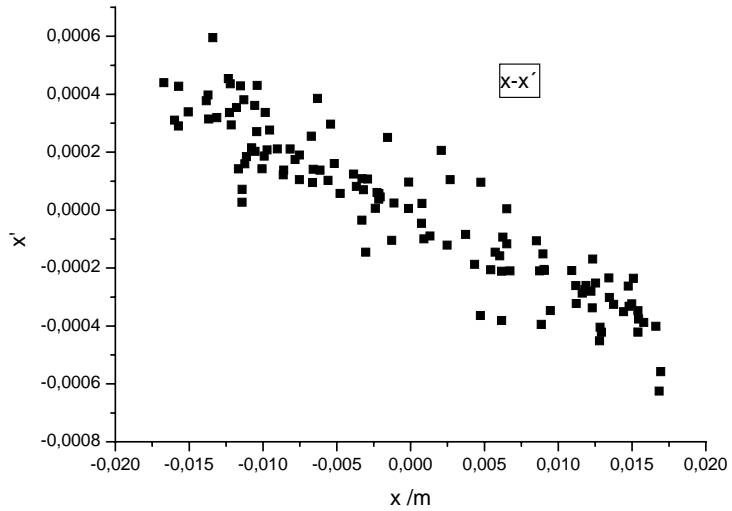


$\delta z / p_{oc} = 0.$

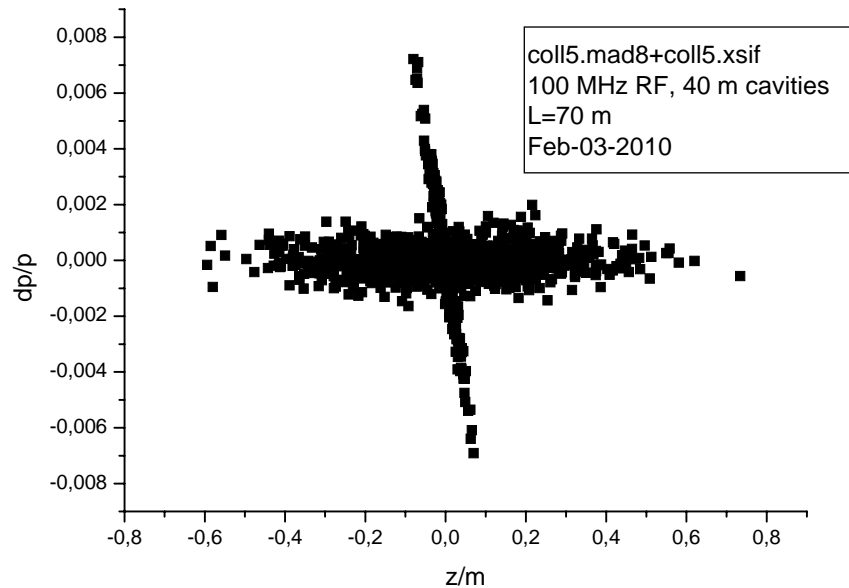
Table name = TWISS



# phase space

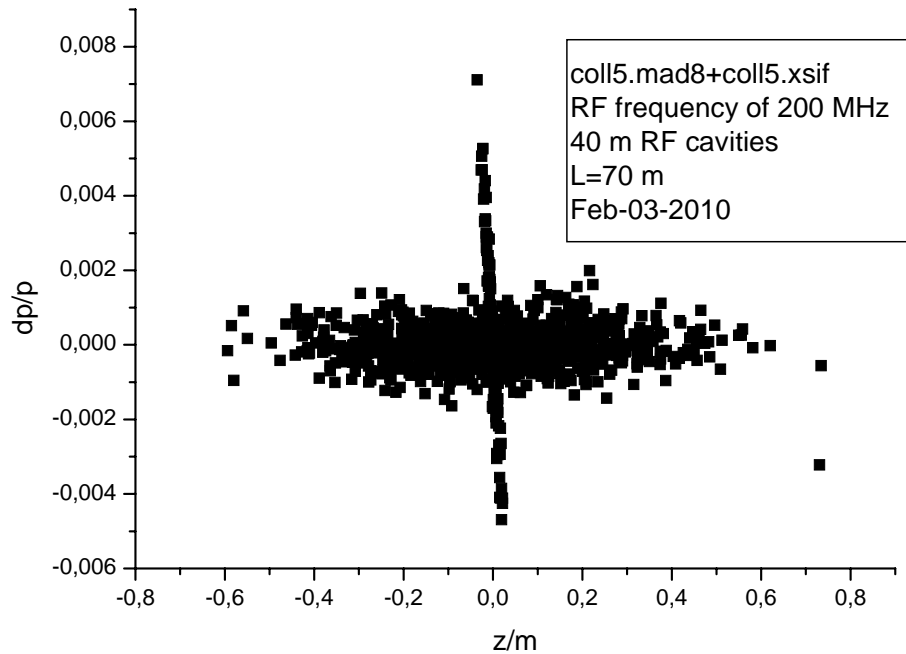


# 100 MHz RF

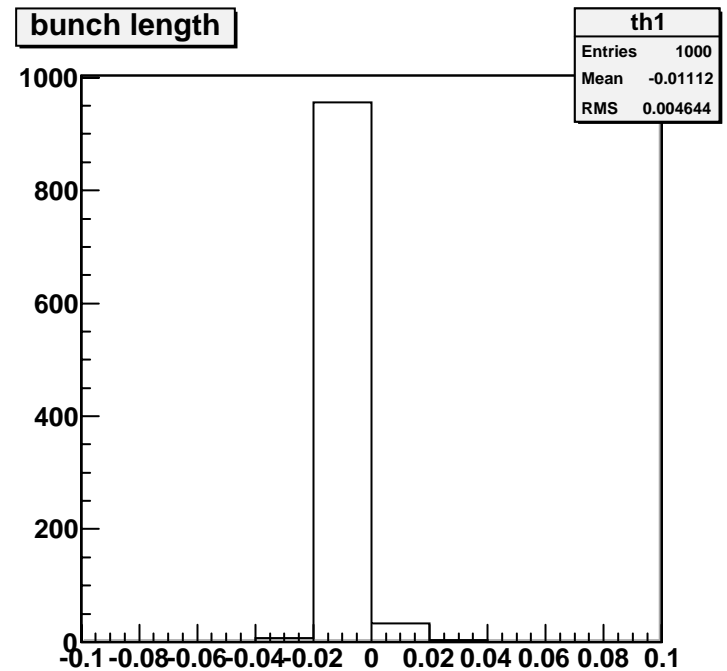


18% particles survive

# 200 MHz RF



8% of particles survive



5 mm bunch length achieved

# summary

- To put collimators along the beam line, a few percent of particles survive.
- Further work on the optimization of this scheme
- Other schemes are welcome to produce hard-edged and intense beam