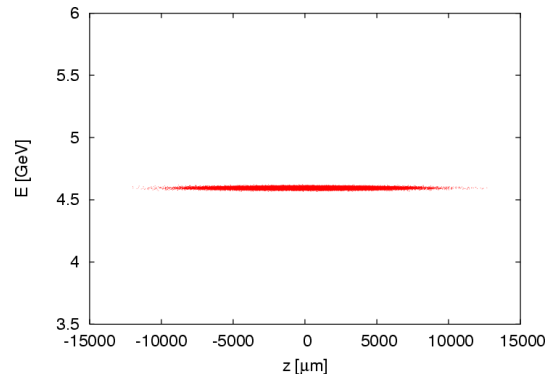
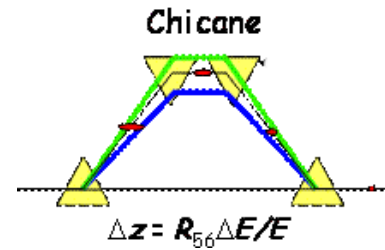
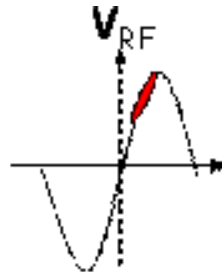
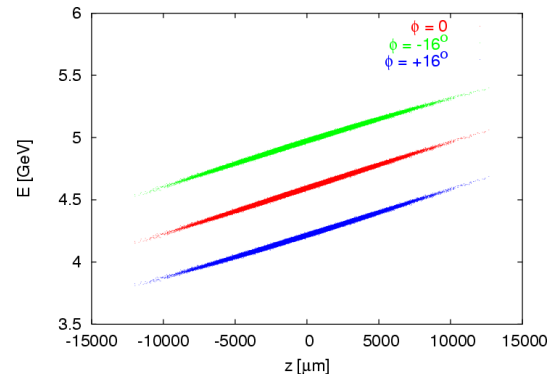


RF Phase, Bunch Compression and DFS

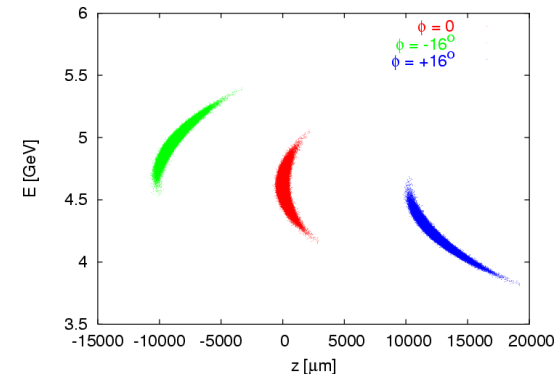
- Off-phase beams get different acceleration, therefore they gain different energy
⇒ they may work as *help beams* for Dispersion Free Steering.



(a)



(b)



(c)

Simulation Procedure and First Results

- Bunch Compressor:
 - Hand-made lattice
 - Full six-dimensional tracking in the BC
 - Synchrotron radiation emission considered

- Emittance growth reduction:
 - 1. One-to-One Correction
 - 2. Dispersion Free Steering
 - 4. Emittance Tuning Bumps (P.Eliasson)

