

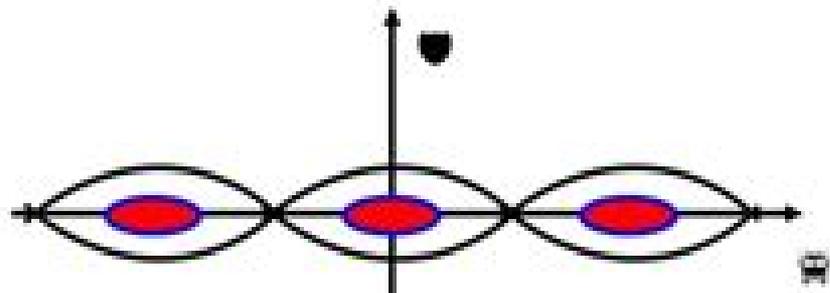
# Bunch length pre-compression

## motivation:

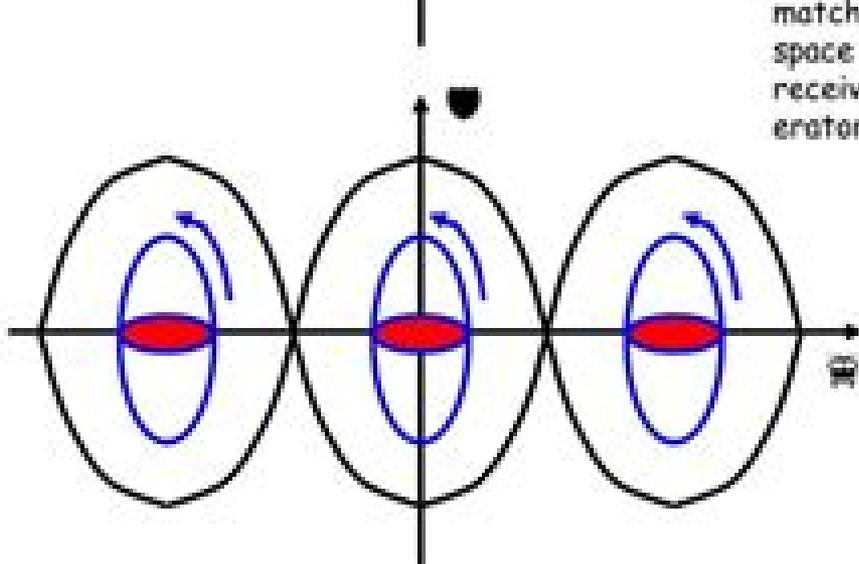
- produce short bunches (at "expense" of increased energy spread)
- for longitudinal matching from one accelerator to a downstream accelerator
- for reducing beam loss in downstream transfer line with high dispersion
- for longitudinal phase space matching (energy spread to bucket in receiving accelerator)

concept: induce longitudinal quadrupole-mode oscillation by variation of rf voltage amplitude

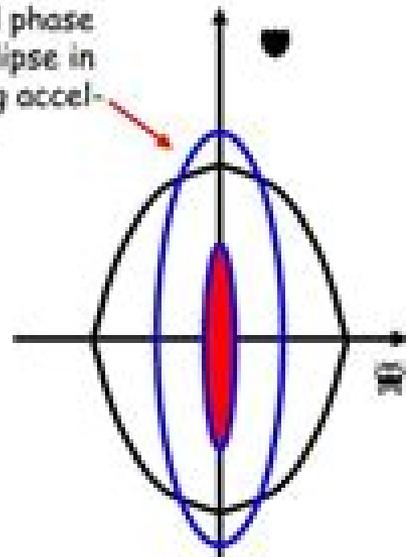
initial state:  
bunches matched  
in longitudinal  
phase space



mismatch in  
longitudinal  
phase space  
after raising  
cavity voltage



matched phase  
space ellipse in  
receiving accel-  
erator



longitudinal  
phase space  
after 1/4  
synchrotron  
oscillation  
period

# 3 Bunch Compression And Longitudinal Beam Dynamics

## 3 1

**Yan Bai**



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