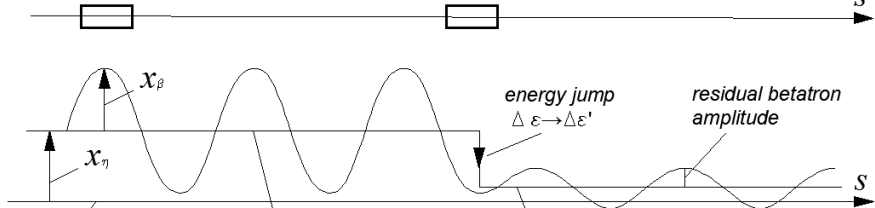


pickup undulator

kicker undulator

s



x_β

energy jump
 $\Delta\varepsilon \rightarrow \Delta\varepsilon'$

residual betatron amplitude

x_η

s

equilibrium closed orbit for ε_0

instantaneous closed orbit for $\varepsilon_0 + \Delta\varepsilon$

new instantaneous closed orbit for $\varepsilon_0 + \Delta\varepsilon'$