Injection into ESR

singleturn injection of a single bunch (length < 500 ns) from SIS

Au 330 MeV/u   63+ → 79+
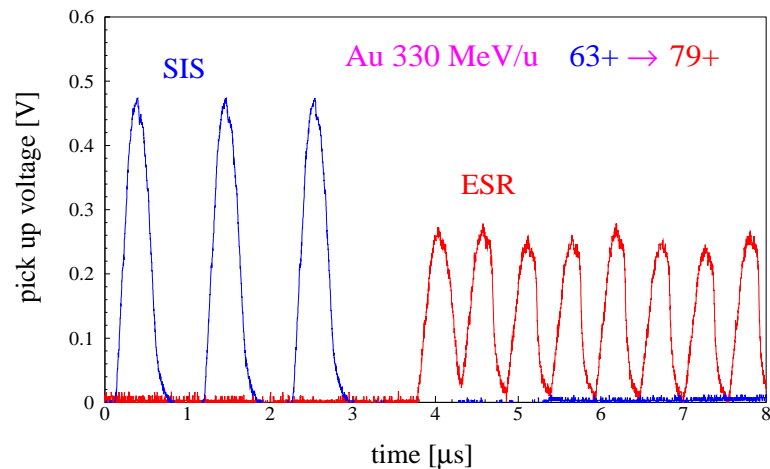
entire SIS intensity can be transferred to ESR

large ring acceptance allows beam accumulation by stacking
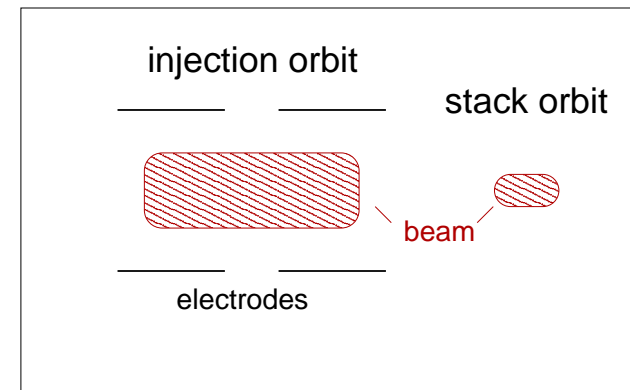
acceptance for injected beam

$\varepsilon_x = 10 \, \pi$ **mm mrad,** $\Delta p/p = \pm 3 \, ‰$

ring acceptance

$\varepsilon_x = 250 \, \pi$ **mm mrad (** $\Delta p/p = 0$ **)**

$\Delta p/p = \pm 2 \, \%$ **(** $\varepsilon_x = 0$ **)**