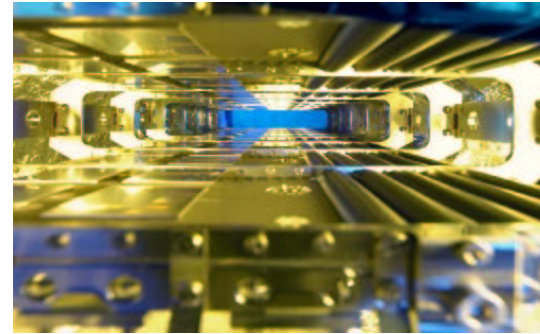
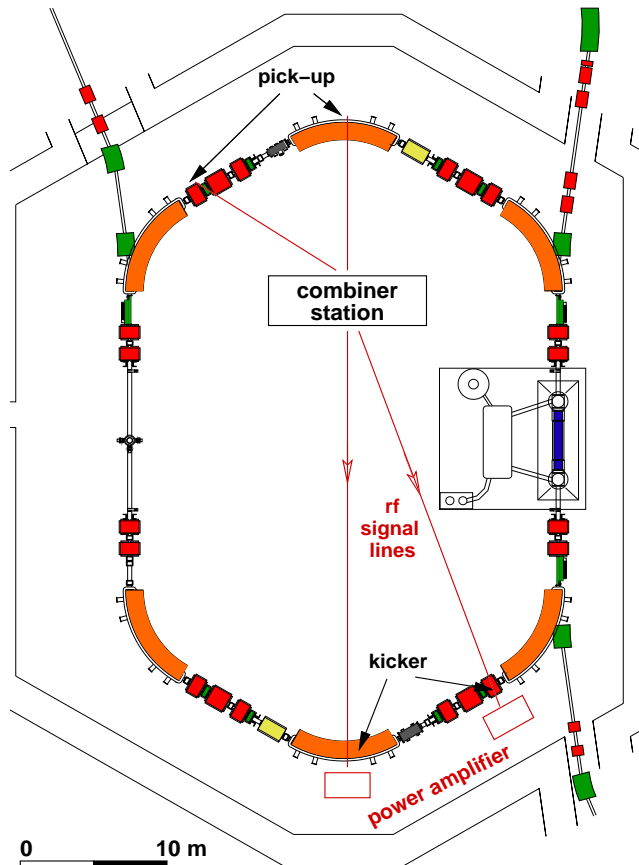


# Stochastic Cooling at the ESR

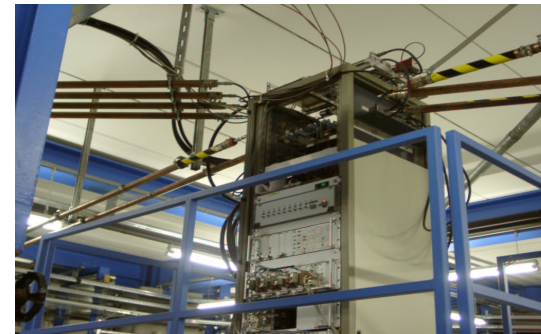
Fast pre-cooling of hot fragment beams  
in the energy range 400 – 550 MeV/u  
bandwidth 0.9 – 1.7 GHz

$$\delta p/p = \pm 3.5\text{‰} \rightarrow \delta p/p = \pm 0.1\text{‰}$$

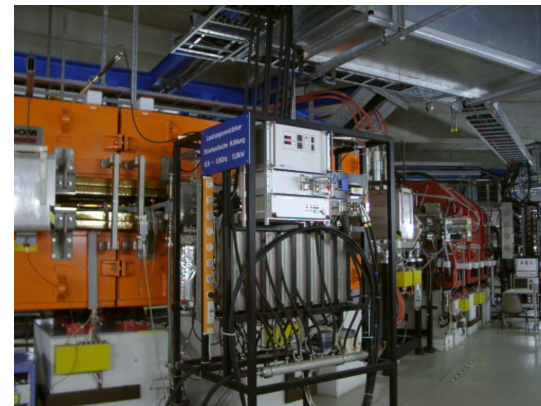
$$\epsilon = 1 \times 10^{-5} \text{ m} \rightarrow \epsilon = 2.5 \times 10^{-6} \text{ m}$$



Electrodes



Combiner station



Power amplifiers