

High Energy Storage Ring HESR

magnetic rigidity of 50 Tm

maximum antiproton energy 15 GeV

stochastic (pre)cooling

electron cooling up to 5 (8) MeV

goal: energy resolution $\Delta E_p = 100$ keV

maximum luminosity $L = 2 \times 10^{32} \text{ cm}^{-2} \text{ s}^{-1}$

internal hydrogen target (gas or pellet)

option: storage of high energy ions

