

Operation Schemes

RIB Physics

Pbar Physics

Atomic Physics

SIS 100

Up to 1×10^{12} ions
per 50 ns bunch

Up to 2.5×10^{13} protons
per 50 ns bunch

Up to 1×10^{10} ions

SFRS

max. 5×10^9 RIs per
cycle at 740 MeV/u

Pbar-target

8×10^7 pbars per cycle at
3 GeV

CR-Complex

Bunch rot., adiabatic debunching, stoch. precooling
Fast deceleration to
200 - 400 MeV/u

Accumulation of up to
 5×10^{11} pbars

Pbar reinjection

NESR

Electron cooling, deceleration to energies < 100 MeV/u, in-ring-experiments
(gas-jet-target, e-A collisions, electron target), fast and slow extraction