

High Energy Unseparated Beam – HEUB – **A1**

Parameters:

Maximum Momentum: 28 GeV/c

Length: 130 meters

$\delta\Omega$: 0.2 msr

$\delta p/p$: 3 % fwhm

$\delta p\delta\Omega$: 0.5 msr-%

Beam Optics:

- **Corrected to first order**

Collimators:

- **4 Jaw Adjustable Collimator – A1C1**
 - (1) **Horizontal momentum collimator**
 - (2) **Vertical intensity collimator**

Target:

- **15 cm copper, water cooled, $> 2 \times 10^{13}$ p/spill maximum**
- **Shares target with A2, 6GeV beam line**
- **Target viewed through A2D1 dipole**

Production Angle: 0 deg

Flux (particles / 10^{13} protons):

- **18 GeV/c π^- , 1×10^7**

Present Use:

- **E852, Exotic Meson Search using 18 GeV/c π^- beam**
- **E891, Quark–Gluon Plasma Search, Au beam to MPS**
- **E910, EOS TPC, secondary proton beam beam to MPS**
- **E895, EOS TPC, Au beam to MPS**