High Energy Unseparated Beam – HEUB – A1

Parameters:

Maximum Momentum: 28 GeV/c
Length: 130 meters
δΩ: 0.2 msr
δp/p: 3 % fwhm
δpδΩ: 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 x 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 x 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