AGS Beams, July 98

Beam	GeV/c	δp/p (% fwhm)	Prod. Angle (deg)	ΔΩ (msr)	Flux / 10^{13} 24 GeV/c protons on target K^+	K^-	p	$\bar{p}$	π^+	π^-	GeV/c	Purity	Remarks
Separated Charged Particle Beams													
C4	≤ 0.83	4	0	12.0	4.6×10^{6}	1.5×10^{6}	1.5×10^{9}	1.0×10^{6}	6.0×10^{9}	6.0×10^{9}	0.80	$\pi^+/K^+ = 0.4$	L = 18 m − "LESBIII" ~ 1×10^{6} stopped $K^+/10^{13}$ protons
C6,C8	≤ 0.75	5	5	10.0	1.0×10^{6}	3.3×10^{5}	3.3×10^{8}	4.6×10^{4}	2.0×10^{9}	2.0×10^{9}	0.70	$\pi^-/K^- = 5$ $\pi^+/K^+ = 1$	L = 15 m − "LESBII"
D6	≤ 1.9	6	5	1.6	5.5×10^{6}	2.3×10^{6}	3.0×10^{8}	1.1×10^{6}	4.9×10^{8}	4.1×10^{8}	1.80	$\pi^-/K^- = 0.8$ $\pi^-/\bar{p} = .07$	L = 31 m − "2GEV"
Unseparated Charged Particle Beams													
A1*	5−28	3	0	0.2	1.9×10^{6}	2.9×10^{4}	5.0×10^{9}	2.3×10^{3}	3.0×10^{7}	1.0×10^{7}	18		L = 130 m to MPS − "HEUB"
A2	< 6.5	5	3.5	0.75	5.8×10^{7}	1.9×10^{7}	6.9×10^{8}	6.3×10^{6}	1.3×10^{9}	8.8×10^{8}	6		L = 34 m − "6GEV"
A3*	1−28	4	0	0.1			6.0×10^{8}		1.0×10^{8}	4.0×10^{7}	14		Primarily HI "OR" with A1
B1*	5−28	3	0	0.05			3.0×10^{8}		3.0×10^{7}	2.0×10^{7}	14		HI/Test Beam "OR" with B5
B1'	0.5−28	8	3	.001			3.0×10^{4}		6.0×10^{4}	4.0×10^{4}	5		L = 56 m − Test Beam
B2	< 9	5	6	0.5	3.4×10^{5}	1.2×10^{5}	8.5×10^{6}	9.5×10^{4}	1.2×10^{7}	9.0×10^{7}	4		L = 40 m − Test Beam
C1	1−20	5	0	0.8	3.0×10^{7}	3.5×10^{6}	1.0×10^{9}	0.7×10^{6}	3.5×10^{8}	1.6×10^{8}	13		L = 100 m − "OR" with C5
C5*	1−28	2	0	0.15			1.0×10^{8}				13		L = 81 m − "OR" with C1
Neutral Beam													
B5	2−20		1−4.5	0.1	K^0_L flux = 1.3×10^{8} @ 3.75^0						2−20	n/ $K^0_L = 20$	L = 10 m − "OR" with B1
Muon Channel													
D2	0.025−0.15	9 (π) 30 (μ)	135 (π)	24 (π)	μ^+ flux = 2.0×10^{6} Surface μ^+ flux = 2.0×10^{6}								L = 12 m Inactive, not yet commissioned
Neutrino Beam													
U					ν flux = 2.0 x $10^{10}/m^2$ (Wide Band) $\bar{\nu}$ flux = 1.4 x $10^{10}/m^2$ (Wide Band)								Not Presently Available FEB Flux avg. over 1.5 m R. <E> = 1.4 GeV/c^2 Wide Band
g−2 π−μ Transfer Line													
V1	< 3.0	0.6	0		π^+ flux = 1.7×10^{8} μ^+ flux = 7×10^{5}						3.0		L = 120, for injection to g−2 ring commissioned in 1996

* These 0^0 beam lines can be used for full energy polarized protons and/or heavy ion beams