	Debuncher (Fermilab)	AC (CERN 80's)	AD (CERN 00's)
Proton beam energy	120 GeV	26 GeV	
Circunference Length	505 m	182 m	
Momentum acceptance	8.9 GeV/c ± 2%	3.5 GeV/c ± 3%	
POT/year	1.5×10^{19}	5×10^{19}	2×10^{18}
Fraction of π/POT	8×10^{-4}	6×10^{-4}	
Fraction of μ / POT	2×10^{-5}	2.4×10^{-5}	
Total useful π /year	1.7×10^{15}	3×10^{15}	1.2×10^{14}
Total useful μ /year	4.2×10^{13}	1.7×10^{14}	6.7×10^{12}

	Debuncher	AC	AD	
a. Number of "useful" seconds/year	10^7	10^7		
b. Protons on target per pulse	3×10^{12}	1.2×10^{13}		
c. Repetition time (sec)	2	2.4	60	
d. Protons on target (POT)/year	1.5×10^{19}	5×10^{19}	2×10^{18}	a·b/c
e. Pion production efficiency (3.5 GeV/c ± 3%)		2×10^{-2}		
f. Horn efficiency to capture pions		3×10^{-2}		
g. Efficiency to capture muon from pion (μ/π)	2.5×10^{-2}	4×10^{-2}		
h. Fraction of π / POT	8×10^{-4}	6×10^{-4}		e·f
i. Fraction of μ / POT	2×10^{-5}	2.4×10^{-5}		e·f·g
j. Fraction of pions decaying in straight section	20×10^{-2}	10×10^{-2}		
k. Fraction of muons in straight section	14×10^{-2}	14×10^{-2}		
l. Number of useful pions/year	1.7×10^{15}	3×10^{15}	1.2×10^{14}	d·h·j
m. Number of useful muons/year	4.2×10^{13}	1.7×10^{14}	6.7×10^{12}	d·i·k