Weak Focusing versus "Strong" Focusing

	Weak foc.	Strong foc.
Kinetic energy [MeV]	232.79	
Number of periods	14	14
Circumference [m]	263	300
Focusing parameter in bends, m	0.199	0
Tunes, Q_x / Q_y	1.229 / 0.456	2.32 / 0.31
Maximum beta-function, β_x/β_y [m]	34 / 91.7	29.1 / 204
Dispersion	45.5	17.35
Maximum momentum deviation: $\Delta p/p\|_{max}$	$\pm 3.3\cdot 10^{-4}$ ♦	$\pm 8.6\cdot 10^{-4}$ ♦
Rms momentum spread	$1.1\cdot 10^{-4}$ ♥	$2.9\cdot 10^{-4}$ ♥
Hor. norm. acceptance [mm mrad]	5 ♦	5.8 ♦
Hor. /vert. norm. emittance [mm mrad]	0.56♥/1.52	0.31♥/2.2♥
Revolution frequency [kHz]	682.1	597.3
Momentum compaction, α	1.785	0.51
Slip-factor: $\eta = \alpha - 1/\gamma^2$	1.144	-0.132
Transition energy ($\gamma_{tr} = 1/\sqrt{\alpha}$), [MeV]	N/A *	376

♦ Limited by distance between bending plates ($2a = 3$ cm)

* Operation above transition because $\alpha > 1$

♥ Set by IBS

above transition

I believe this is incorrect