











Dr. Gail Hanson, UC Riverside (KITP Neutrinos Program 4/22/03)





















Type rival earance	Conventional beam	Neutrino Factory *
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Bas	seline parameters for high er	nergy muon colliders. d Future Plans " Muo	From "Status of Muon Collide in Collider Collaboration C. M	er 1
Anl	kenbrandt et al., Phys. Rev. S	T Accel. Beams 2, 081	001 (1999).	
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	COM energy (TeV)	0.4	3.0	
	p energy (GeV)	16	16	
	p's/bunch	$2.5 \times 10^{13}$	$2.5 \times 10^{13}$	
	Bunches/fill	4	4	
	Rep. rate (Hz)	15	15	
	p power (MW)	4	4	
	μ/ bunch	$2 \times 10^{12}$	$2 \times 10^{12}$	
	μ power (MW)	4	28	
	Wall power (MW)	120	204	
	Collider circum. (m)	1000	6000	
	Ave bending field (T)	4.7	5.2	
	rms δ <i>p/p</i> (%)	0.14	0.16	
	$6D \epsilon_{6,N} (\pi m)^3$	$1.7 \times 10^{-10}$	$1.7 \times 10^{-10}$	
	rms $\varepsilon_n$ ( $\pi$ mm mrad)	50	50	
	β <sup>*</sup> (cm)	2.6	0.3	
	σ. (cm)	2.6	0.3	
	σ spot (um)	2.6	3.2	
	$\sigma_0 IP (mrad)$	1.0	1.1	
	Tune shift	0.044	0.044	
	n (effective)	700	785	
	nturns (Chooth C)	100	100	











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