COLLIDER PARAMETERS

c of m Energy	GeV	3000	400	100		
p Energy	GeV	16	16	16		
p's/bunch	10^{13}	2.5	2.5	5		
bunches/fill		4	4	2		
rep rate	Hz	15	15	15		
p power	MW	4	4	4		
μ/bunch	10^{12}	2	2	4		
μ power	MW	28	4	1		
wall power	MW	204	120	81		
collider circ	m	6000	1000	300		
min depth (ν)	m	300	.7	.01		
rms Δp/p	%	.16	.14	.12	.01	.003
rms ϵ_n	π mm mrad	50	50	85	195	280
β^*	cm	0.3	2.3	4	9	13
σ_z	cm	0.3	2.3	4	9	13
σ_r spot	μm	3.2	24	82	187	270
tune shift		0.043	0.043	0.05	0.02	.015
Luminosity	$cm^{-2}s^{-1}$	$5\ 10^{34}$	10^{33}	$1.2\ 10^{32}$	$2\ 10^{31}$	10^{31}
c of m ΔE/E	10^{-5}	80	80	80	7	2
Higgs/year	10^3 year^{-1}			1.6	4	4