

Machine Parameters

2017/September/1	LER	HER	unit	
E	4.000	7.007	GeV	
I	3.6	2.6	A	
Number of bunches	2,500			
Bunch Current	1.44	1.04	mA	
Circumference	3,016.315		m	
ϵ_x/ϵ_y	3.2(1.9)/8.64(2.8)	4.6(4.4)/12.9(1.5)	nm/pm	() : zero current
Coupling	0.27	0.28		includes beam-beam
β_x^*/β_y^*	32/0.27	25/0.30	mm	
Crossing angle	83		mrad	
α_p	3.20×10^{-4}	4.55×10^{-4}		
σ_δ	$7.92(7.53) \times 10^{-4}$	$6.37(6.30) \times 10^{-4}$		() : zero current
V_c	9.4	15.0	MV	
σ_z	6(4.7)	5(4.9)	mm	() : zero current
v_s	-0.0245	-0.0280		
v_x/v_y	44.53/46.57	45.53/43.57		
U_0	1.76	2.43	MeV	
$\tau_{x,y}/\tau_s$	45.7/22.8	58.0/29.0	msec	
ξ_x/ξ_y	0.0028/0.0881	0.0012/0.0807		
Luminosity	8×10^{35}		$\text{cm}^{-2}\text{s}^{-1}$	

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Circumference	3,016.315		m	
ϵ_x/ϵ_y	3.2(1.9)/8.64(2.8)	4.6(4.4)/12.9(1.5)	nm/pm	() : zero current
σ_x^*/σ_y^*	10/48	11/62	$\mu\text{m}/\text{nm}$	includes beam-beam
β_x^*/β_y^*	32/0.27	25/0.30	mm	
Crossing angle	83		mrad	
α_p	3.20×10^{-4}	4.55×10^{-4}		
σ_δ	$7.92(7.53) \times 10^{-4}$	$6.37(6.30) \times 10^{-4}$		() : zero current
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