











Factory Operation					
LER current PEP-II Lumi PEP-II without	trickle injection				
Particular and a second	Sun SWING shift 0.889 Live time 1 145,0 Peptum 2 2 2 2 3 7 Time (hours)				
PEP-II with trickle injection					
10 10 10 10 10 10 10 10 10 10	3 ≤ Sun Saing shift 9 06:00 + (100.00%) Stable Beams 07.56% 08:8%; DAQ on 313.70 pb FEP-IL Luminosity 306.88 pb Recréde Luminosity				
0 17 18 19 20 21 22 23 00 Time (hours)					
KEKB: 5-10 min intervals PEP-II: 10Hz (LER), 5Hz (HER)	KEKB 24hr Record: 1.243fb ⁻¹ SLAC 24hr Record: 0.911fb ⁻¹				

























































Super			SuperB	SuperKEKB		
"Ultra-high currents" $L = 0.8 \times 10^{36} \text{ cm}^{-2} \text{s}^{-1}$ @ KEK	Emittance	ε _x	1.6	9	nm	
	Horizontal beta	β_x^{*}	20	200	mm	
	Vertical beta	β_y^{+}	0.3	3	mm	
	Horizontal beam size	σ_{x}^{\ast}	5.7	42	jim	
	Vertical beam size	$\sigma_y{}^{\ast}$	35	367	nm	
SuperB "Ultra-low emittance" $L \ge 1.0 \times 10^{36} \text{ cm}^{-2} \text{s}^{-1}$ @ ~Frascati (Tor Vergata)	Bunch length	σ_{z}	6	3	mm	
	Half crossing angle	φx	17	15	mrad	
	Piwinski angle	φ	18	1	rad	
	Current(LER/HER)	Ib	2.28/1.30	9.4/4.1	A	
	Luminosity (x10 ⁸⁵)	L	10	8	cm-2g-1	
	AC Plug Power	Р	34	83	MW	

Super B Factory Proposals



















