Introduction : Homework



4th ATF2 Project Meeting, LCWS2007, May 31, DESY

Schedule of Installation (Tentative)

Japanese Fiscal year			JFY2007											JFY2008															
								2007											2008							2009)
	Activity	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
ATF Beam operation																								\T F	2 C	om	mis	sio	nin
Reconfiguration of extraction line			prej	para	tior			par	tial	rec	ons									Ne	w ez	xt. l	ine						
Conventional Facilities																													
	detailed floor planning					bid)									New floor constructed													
	re-location/ site preparation		X-b	and	, Cr	ab																							
	floor refurbishment								Flo	oor																			
	construction of extended area											sid	e wa	ll a	nd i	roof													
	utilities; water, AC power													cab	le, p	oipe													
	construction at ATF-EXT	clean-u partial construction								reconfiguratio																			
	laser huts for BSM and LW													BS	SM			Γ	W										
Installation																													
	beam dump											DN	I P																
	magnets & supports & vacuum pip	es		magne magnets magnets																									
	cooling pipes																												
	cable tray installation											c. t	ray									c.tr	cay						
	large DC cable installation												pow	wer ca		les						p.c	able						
	small cable installation														cab	oles						cab	oles						
	power supply system															Р	S												
	new stable FD system															FD													
	Shintake monitor with IPBPM													BSN	M														
	Laser wire															ligh	nt pa	ath		1 LV	V,de	etect	tor						
	wire scanners, screen mon. etc.														wire sca			ann	ers,	scr	een	mo	nito						
		┼───						1	I														1		I I				



Hardware preparation (1) 2006

Q magnets (4 in 2006, 24 in 2005, 28 in total); 27 to be used

Support-concrete bases;

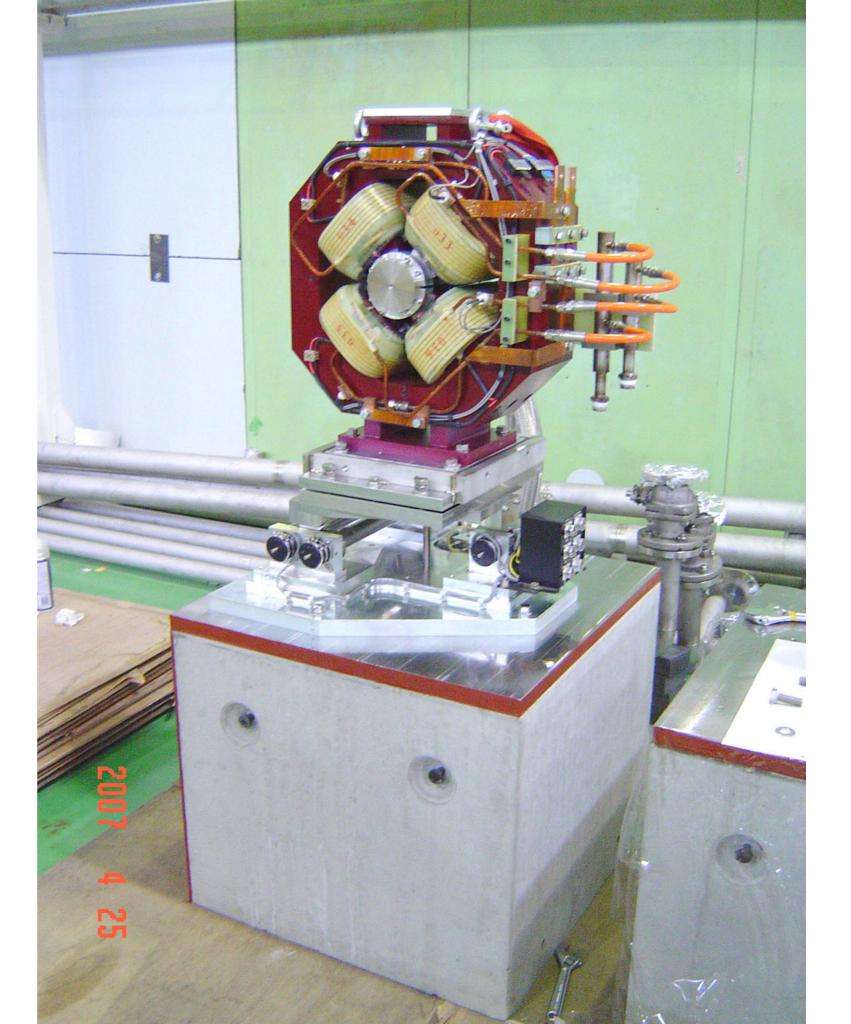
type : 1(Q+Qk+ZV),2A(Q+ZH), 2B(Q+ZV),3(Q+Sx+Q) and 4(Q)
no. : 3, 3, 1, 3 and 14 ,respectively ; so 24 in total
QBPMs (28 in 2006, 11 in 2005, 39 in total) - 33 to be used
HA power supply system

(2) 2007-2008

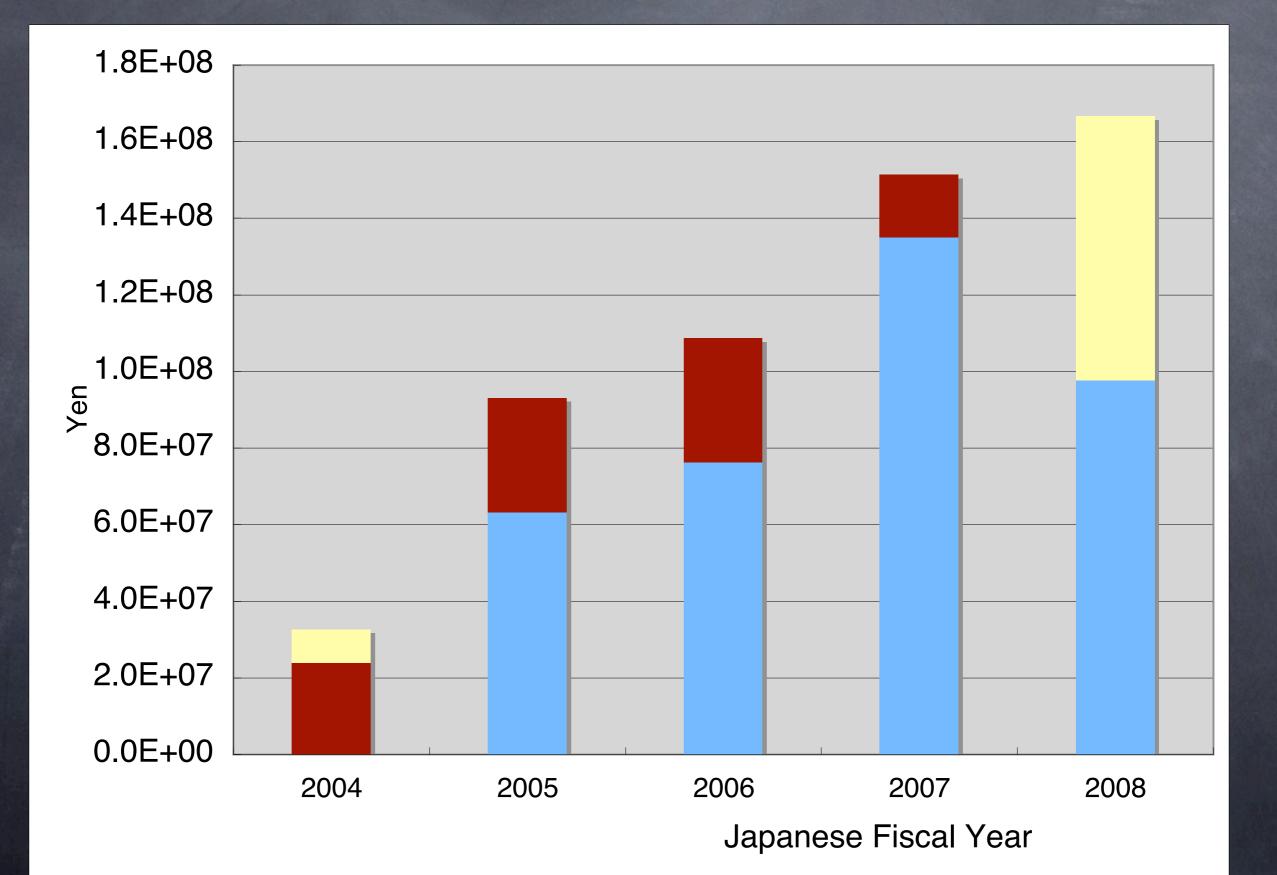
Conventional facility (including beam dump) Bending(3), sextupole(5), skew(2?) and steering(5) magnets QC3 (2) modification for QC0,QF1 S-band BPMs (4) IPBPM with Shintake monitor Rigid supports(FD system, Shintake monitor) Honda monitor, FONT, feedforward, laserwire, Monalisa etc.







Budget Profile



Conventional Facilities and Construction Schedule

(1) Floor refurbishment: bid 22 May, construction 18 June - 30 September (2) Re-configuration of extraction line in summer shutdown in 2008 (3) Major components will be installed by end of January 2008 in order to prepare the official inspection as a radiation controlled facility and to prepare heavy work at the reconfiguration in Summer 2008.

(4) Commissioning in October 2008

Clean up soon

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24th May, 2007

Optics and Commissioning

- (1) Update of the device list, M.Woodley
- (2) Relocation of kicker power supplies, N.Terunuma
- (3) One more sextupole(FFTB "1.38S3.00") ?First optimize the skew Qs, then decision.Study on roll errors of sextupoles, G.Whilte
- (4) Two skew quadrupoles for coupling correction Locations of 6 skews in total ?
- (5) Septum: alignment and feasibility study, S. Kuroda Field cal., perfomance studies, SLAC

(6) IP detailed configuration, T.Okugi (7) Dynamic tuning with ATF-GM, G.White (8) Carbon wire scanner, D. McCormick - under negatiation with LCLS group (9) New GM measurement on floor and new quadbpm-suppor in summer shutdown, A. Servi (10) Task force on "abnormal emittance growth", S.Kuroda, F.Zimmermann, P.Bambade, A.Servi (11) Nomenclature of ATF/ATF2 magnets, S.Kuroda

FD support

 (1) Stiff table with no resonance < 50Hz, LAVISta/LAPP
 (2) Rigid support of Shintake monitor, KEK
 (3) A measurement of Shintake monitor displacement with respect to the final doublet by Compact Straightness Monitor(CSM), MONALISA, D.Urner This proposal was reviewed at 4th TB/SGC meeting.

Hardware commissioning

- Magnet, Mover and Power supply

(1) Two QC3 modification with shimming for 50mm aperture by this September. These magnets can be sent to LAPP for stabilization study. SLAC

(2) Five sextupoles by end of 2007, SLAC(3) HA power supply system to be delivered to KEKlate January – early February 2008

- Instrumentation (1) FONT will demonstrate 1-d FB in ATF, 2007 (2) Laserwire : staged approach; (a) 3-angle scans possibly with integrated wire scanner, (b) micronscale system and (c) BPM integrated system (3) NanoBPM : beam test for the first pulse calibration scheme, May 2007 (4) IPBPM : R&Ds until December 2007 (5) Shintake monitor : pulsed high power laser test and gamma detector, University of Tokyo (6) Honda monitor : responsibility, KEK? (7) S-band BPMs : responsibility, RHUL, KNU

- Re-location of laserwire, nano-BPM (SLAC/LLNL), IPBPM and FONT

(1) The beam optics by each group(2) Space clearance including girders(3) Procedure to move the devices.

Summary

At this meeting, we would like to focus on commissioning strategy and hardware such as configuration, installation and schedule for coordination among them as wel as progress reports. The R&D status (progress reports) will be presented at LCWS/ILC2007, too.