Homeworks and Goals of the meeting

T.Tauchi Third ATF2 Project Meeting, 18 December,2006 Homeworks assigned at the 2nd ATF2 Project Meeting **.** Production and Installation Policy; M.Ross I-1 Magnet and Support session; C.Spencer, R.Sugahara (1) New 5 Sextupoles with 190mm s-band BPMs (2) New 3 Bends with less sextupole components (3) QC3 for QDO, QF1 with s-band BPMs, No octupole (4) QD6 with hole for the LW signal, simulation by RHUL I-2 Power Supply session; P.Bellomo, M.Kumada (1) Prototype system for continued testing until August (2) remote and local on/off control of each module (3) CAD file (DXF format) of ATF area for the PS location I-3 Monitor, feedback/feedforward sesson; Y.Honda (1) Locations of FONT and LWs (laser hut) (2) LW : Background from a IPBSM collimation ? (3) IPBSM : 2-3m long space behind the dump (4) QBPM in QEA-magnet, and design of s-band BPM

II. Major Discussion Issues; II–1 Optics and Layout; A.Seryi

Layout for construction (=location and strength of bends & position of dump) should be fixed before end of June
 Several modifications still need to be checked, e.g. drift after the dump, space between B5 & QD6, spacing in FD for final design of the sextupoles and BPMs, location of collimator and its effect be studied

(3) Mark will collect all the information and put them in the MAD file which can be used for drawing the detailed configuration, i.e. three dimensional drawings.
(4) more advanced method of skew quadrupole correction
(5) need to develop tuning and correction methods with higher order knobs as well

II-2 IP Configuration; P.Bambade

(1) Final Doublet layout : T.Okugi ↔ C. Spencer ↔ A.Jérémie is and must become detailed (2) check for NO enhancements of lower frequency drifts (3) check stabilization with 4 FFTB movers (and suitable loads on top) : measurements, simulation (4) Modify support base of FFTB movers \rightarrow thinner by 8 cm (+ some margin...) (5) Conventional support of IPBSM (Shintake monitor) to be designed (6) MonALiSA : where are reference points on the IPBSM and FD system, where we need a room (30–50cm) above either?

II-3 Commissioning Detailed Plan; T.Okugi (F.Zimmermann)

No

(1) New 5 stripline BPMs with "90°" phase (2) 4 screen monitors, which are present ones. (3) 2 ICTs (Integrated Current Transformers). (4) collimator at SF5 with 5cm long bellows at both ends - background for LWs to be checked by simulation - movable in X and Y (15mm min. diameter) ? (5) QD6 ; hole for the LW signal - QBPM as well - 50mm diameter from the LW, while 24mm aperture at the upstream magnets (6) 2 s-band BPMs at both sides of the last Bend; location ?

(7) A carbon wire scanner between QDO and IP; location ?(8) Urakawa BSM just downstream of IP; location, when ?

II-4 Scheduling Strategy; G.Blair

(1) Where to put FONT and feedforward? (2) What type of BPM and where ? - dedicated stripline BPMs? (3) How to handle multi-bunch operation in IP-BPMs (4) LW : First installation of laser hut; 2nd, first stage of light transport system; 3rd, add IP's as project progresses (5) LW : where is a micron-size IP ? New idea (6) IPBSM : beam size > 360nm(V) and 1800nm(H) by LW mode ? (7) installation of IPBPM after the first commissioning (8) New funding is being sought for some; outcome expected at the end of 2006 (9) General schedules will be drafted and gathered in time for the next ATF2 meeting.

II-5 ATF Operation During Construction and Extraction Line Modification; **P.Burrows**

 Needs more detailed schedule for ATF2 installations in order to optimise ATF operations + ATF2 installation and minimize overall downtime

 (2) Need to collect requests for space in ATF2 beamline: feedback/feedforward, upstream LW IP?, cavity BPMs (NanoBPM, IP BPM), MonaLISA ...
 so that optics design can be finalised

Meeting Plan

Production and Installation Policy, 1–3

we would like to hear and discuss on the policy or strategy for completion of ATF2 project as well as present status from major sub-groups.

1. Instrumentation (2.6h), P. Burrows and T. Tauchi FONT, Feedforward, QBPM electronics, LW/BSM signals and backgrounds, Shintake monitor (BSM), IPBPM and Nano pattern target at IP

2. Magnet, mover and alignment (2h), C. Spencer and R. Sugahara

dipoles, sextupoles and modification of QC3 for FD, magnetic field measurement of Qs, support system, LW beam at QD6, a new adjustable permanent Q

3. Power supply (0.6h), B. Lam and M. Kumada progress, schedule, responsibilities, magnetic field stability

Discussion Sessions, 1–6

- Conventional facilities and construction schedule
 (1h), N. Terunuma
- (1) conventional facility radiation safety, floor plan (beam line, utilities, concrete shields and laser huts)
 (2) construction of ATF2 beam line and re-configuration of ATF extraction line
 - Re-Location of existing devices (1h), Y. Honda suggested layout, LW layout, nanoBPM triplet, feedback kickers for FONT

3. Optics and Commissioning (2 x 2 h), A. Seryi,
R. Tomas, T. Okugi and S. Kuroda
(1) New extraction line tuning (coupling and dispersion correction), (2) Recent ATF2 FF optics, (3) BBA and optics diagnostics, (4) Beam size tuning without Shintake monitor,
(5) Final beam size tuning, (6) International collaborations.

4. IP configuration (2.5h), A. Jeremie andP. Bambade

Rigid support for BSM, GM measurement at the ATF, CERN CLIC table performance, vibration correction, Monalisa and FFTB mover performance

5. Scheduling (2h), G. Blair

for FONT, MonaLisa, Stable(CLIC) Table, Laser-wire, nBPM, IPBPM and IPBSM etc. about 12 minutes to each subcomponent, and about 30 minutes for discussion of the global schedule and to highlight any scheduling conflicts

6. Budgets (2h, closed session), J. Urakawa,
A. Seryi and T. Tauchi
Budget plan at KEK, IHEP, PAL, SLAC, FNAL, EU, CERN,
DESY, UK, LAL, LAPP etc.

Summaries

Conveners are asked for summaries at each sessions.

11:20->12:20 Summaries Toshiaki Tauchi (<i>KEK</i>)) Description: summaries of each sessions by the conve	and Conclusions (Convene	er: Andrei Seryi (<i>SLAC</i>) ,
11:20 🖉 🖻 Conventional facilities and	d construction schedule (05')	Nobuhiro Terunuma (KEK)
11:25 🖉 🖻 Re-location of existing de	evices (05')	Yosuke Honda (KEK)
11:30 🖉 🖻 Instrumentation (05')		Toshiaki Tauchi (<i>KEK</i>)
11:35 🖋 🖻 Magnet, mover and align	ment (05')	Ryuhei Sugahara (<i>KEK</i>)
11:40 🖉 🖻 IP configuration (05')	Philip Bambade (Laboratoire de	e l''Accelerateur Lineaire (LAL) (IN2P3) (LAL))
11:45 Commissionin (10')	g Toshiyuki Okugi	(<i>KEK</i>) , Andrei Seryi (<i>SLAC</i>) , Rogelio Tomas (<i>CERN</i>)
11:55 🖋 🖻 Conclusions (25')	Andrei Seryi ((SLAC) , Toshiaki Tauchi (KEK)

Agenda

available at the Indico server;

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- all sessions 🛟 details: contribution 🛟	
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Third ATF2 Project Meeting	from Monday 18 December 2006 (09:00) to Wednesday 20 December 2006 (12:20) at KEK (<i>meeting room, 1F, 3-gokan</i>) chaired by: <i>Toshiaki Tauchi (KEK) , Andrei Seryi (SLAC</i>)
Description: Status reports, detailed plan in 2007	
Mone	day 18 December 2006 Tuesday 19 December 2006 Wednesday 20 December 2006
Monday 18 December 2006	tope
09:30->10: Introduction (Convener: Andrei Seryi (SLAC))	upioad
09:30 🗹 🖻 (10') (ﷺ Minutes; 🛸 Slides 🖾 🕮)	Junji Orakawa (KEK)
09:40 🖉 🔤 🖹 Homeworks and goals of the meeting (20')	Andrei Seryi (SLAC) , Toshiaki Tauchi (KEK)
10:00->11:00 Conventional facilities and construct	tion schedule (Convener: Nobuhiro Terunuma (<i>KEK</i>))
11:00 coffe	ee break
11.20->12.20 Re-Location of existing devices (Conve	ner: Yosuka Honda (KEK))
11:20 2 🖂 📴 🖹 Layout draft to start with (10)	Yosuke Honda (KEK)
11:30 🖋 📾 🖹 LW layout (10')	Grahame Blair (Royal Holloway)
11:40 🖋 📴 🖹 nanoBPM triplet (10')	Stewart Boogert (Royal Holloway, University of London)
11.50 . 2 Cm Phase and a second second	
11.50 🕑 🔤 Possible location for feedback kickers (10')	Toshiyuki Okugi (KEK)

Goals

Fully prepared hardwares and softwares (confirmation) Consensus of Schedules (installation and commissioning) International organizations (beam tuning/commissioning etc.)

Banquet, 18:30–20:30, 19th December

Application and cancellation by 13:00, 19th December

四季を楽しむ和食処







茨城県つくば市の和食料理店「割烹 一の矢」へようこそ。法事・宴会・七五三 無料送迎いたします。 会席料理・海鮮料理・刺身・活うなぎ・寿司・天婦羅など、心を込めた和食料理の数々をご提供いたします。 筑波学園都市の中でも最大規模の飲食店を誇り、家族連れでも、友人同士でも楽しめる御座敷席、テープル席、 完全個室の大・小12室、最大150名までの宴会場を御用意しております。 鮮度の良い海鮮料理、四季折々の旬の素材をごゆっくりお楽しみください。

