

Overview and Meeting Plan

T.Tauchi

Second ATF2 Project Meeting, 30 May, 2006

Overview of ATF2 Status

“before this meeting”

Please look at “Status of ATF2 project”
(T.Tauchi) , on the homepage of TB and
SGCs Joint meeting, 28th May :

i.e. [http://atf.kek.jp/collab/modules/
organization/TB_SGC_meeting.php](http://atf.kek.jp/collab/modules/organization/TB_SGC_meeting.php)

Brief Summary of Present Status

- (1) Publication of the ATF2 proposal Vol.1, KEK Report 2005-2, and the Vol.2 (Timeline, Organization and Cost), KEK Report 2005-9
- (2) Optics version3.2 - removal of chicane, optimization of extraction optics
- (3) Tolerances of magnet stabilities; power supplies and GM
- (4) Q-magnets 24@IHEP in FY2005 (5 in 2006)
- (5) QBPM 2 prototypes and 11 production@PAL, Digital electronics@SLAC
- (6) IP-BPM and electronics : prototypes@KEK
- (7) Shintake monitor; upgrade, background, collimation@Tokyo univ.
- (8) Commissioning strategy, location of various monitors
- (9) Power supply system: two prototypes in JFY2006, SLAC and KEK designs
- (10) First ATF2 Project Meeting, 3-5 Feb.2006, SLAC
 - discussed on status and hardware, streamlined organization
- (11) ATF2 Power Supply (PS) Meeting, 27-28 April 2006, SLAC
- (12) Second ATF2 Project Meeting, 30 May - 1 June 2006, KEK
 - finalization of optics and layout, scheduling towards the commissioning

I. Production and Installation Policy; M.Ross

I-1 Magnet and Support session; C.Spencer, R.Sugahara

I-2 Power Supply session; P.Bellomo, M.Kumada

I-3 Laser, feedback/feedforward session; T.Takahashi

II. Major Discussion Issues;

II-1 Optics and Layout; A.Seryi

II-2 IP Configuration; P.Bambade

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

II-4 Scheduling Strategy; G.Blair

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

II-6 Budget Plan (Closed session); T.Tauchi

Conveners : Please make a few slides for summary

I . Production and Installation Policy

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.

II-1 Optics and Layout

Final optimization of optics

Summary of tolerances for magnets

(Q, Skews, Sext, B etc.) and movers

Conventional facility; Layout of beam line

-radiation safety, floor plan (concrete shields)

- also layout for;

laser system (laserwire and Shintake monitor)

magnet power station (racks)

electronics for the instrumentation

(QBPM, wire scanner, laser-wire,)

Cabling and piping route

II-2 IP Configuration

FD Supporting System

for 4 magnets of QD0,SD0, QF1,SF1 with
QBPMs, beam pipe, movers

Shintake monitor – passive/rigid or active support

Stabilization between the above two (by StaFF)

II-3 Commissioning Detailed Plan

“minimum” hardware configuration

for the beam commissioning up to the dump

magnet system, QBPMs

screen monitors

5 tungsten wire scanners and a detector

a carbon wire scanner around IP

Shintake monitor at IP

Beam collimation for Shintake monitor

etc.

Phasing for radiation safety issue ?

II-4 Scheduling Strategy

Many of the systems will be “installed” after the initial ATF2 commissioning and so we need to discuss about **when is the appropriate time for their installation and what are the necessary conditions such as space, cables and installation methods etc.**

The outcome of this session should be **a scheme to realise the ATF2 project** after the early commissioning phase.

II-5 ATF Operation During Construction and Extraction Line Modification

to keep the ATF R&D programs(DR,EXT) as much as possible.

to discuss possibility of ATF operation for October through December 2007. Also, we would like to know requirements and willingness from present programs of FONT4, feedforward, Laserwire, cavity BPM, fast kicker, Staff etc. in terms of this operation.

In addition, we would like to discuss how to move setups of the present R&Ds in the ATF2 beam line after the ATF2 commissioning in order to continue the R&Ds.

II-6 Budget Plan (Closed session)

Budget Plan and status at KEK

Budget Status in EU, USA etc.

Necessary issues/materials
for the budget approval

Agenda

available at the Indico server;

<http://ilcagenda.cern.ch/>

- Institutions

 - KEK

 - ATF2

 - Second ATF2 Project Meeting

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"Second ATF2 Project Meeting"

from Tuesday 30 May 2006 (09:00)
to Thursday 01 June 2006 (17:00)
at KEK (Meeting room, 1F, 3-gokan)

Description : We will review the status and discuss the planning details for ATF2 in 2006.

The first meeting was held at SLAC, 3-5 February 2006, whose homepage is <http://www-project.slac.stanford.edu/ilc/meetings/workshops/ATF2/feb2006/>.

General information on ATF and ATF2 is available at http://atf.kek.jp/index_skip.html and http://atf.kek.jp/collab/md/projects/project_atf2.php.

[Tuesday 30 May 2006](#) | [Wednesday 31 May 2006](#) | [Thursday 01 June 2006](#)

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Tuesday 30 May 2006

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09:00->09:30 **Registration**

09:30->10:00 **Introduction**

09:30 Greeting by J. Urakawa (10') (Slides Minutes)

09:40 Overview and meeting plan by T.Tauchi and A. Seryi (20')

10:00->12:00 **Optics and Layout** (Convener: Andrei Seryi (SLAC))

Finalization of the optics, layout including conventional facilities

10:00 Final optimization of optics by M.Woodley (40')

10:40 Summary of tolerances for magnets by S.Kuroda (10')

10:50 Layout and conventional facility by J.Urakawa and N.Terunuma (40')

11:30 Discussion (30')

12:00->13:30 **Lunch**