

Technical Board “issues”

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Outline

1. Composition
2. Internal evaluation of new proposals, of current projects and of performances
3. Future ATF & ATF2 research plan
4. (Re-) organization of operation for goal 1
5. Training junior staff to support operation
6. Emphasize (more) publications

Composition

P. Bambade

LAL (chair)

G. White

SLAC (co-chair)

K. Yokoya

KEK

T. Sanuki

Tohoku Univ.

J. Gao

IHEP

E. S. Kim

KNU

E. Elsen

DESY

A. Jérémie

LAPP

F. Zimmermann

CERN

S. Boogert

RHUL

M. Wendt

FNAL

N. Phinney

SLAC

Internal evaluations (1)

On-going activities and new proposals

Example: 13th ATF TB and SGC meeting, January 2012 (KEK)

Reviews

- | | |
|----------------------------------|--|
| 13:30 Opening 10' | <i>Nobuhiro Terunuma (KEK)</i> |
| 13:40 Comptons (KEK/LAL) 20' | <i>Jehanno Didier (LAL), Tsunehiko Omori (KEK)</i> |
| 14:00 1-2pm DR emittance R&D 20' | <i>Kiyoshi Kubo (KEK)</i> |
| 14:20 ATF2 status 30' | <i>Glen White (SLAC), Toshiyuki Okugi (KEK)</i> |

New proposals

- | | |
|--|--|
| • Theoretical and experimental investigation on resolution of optical transition radiation transverse beam profile monitor 20' | <i>Pavel Karataev (RHUL) & Alexander Aryshev (KEK)</i> |
| • Measurement of beam halo and BSM Compton recoil electrons after the BDUMP magnets 20' | <i>Philip Bambade (LAL)</i> |
| • CLIC R&D proposals for ATF/2/3 20' | <i>Rogelio Tomas (CERN)</i> |

Coffee break

- | | |
|--------------------------------------|-----------------------------|
| 16:10 Discussion 1h30' | |
| 17:40 Summary by the TB chairman 20' | <i>Philip Bambade (LAL)</i> |

Internal evaluations (2)

On-going activities and new proposals

Normally twice per year:

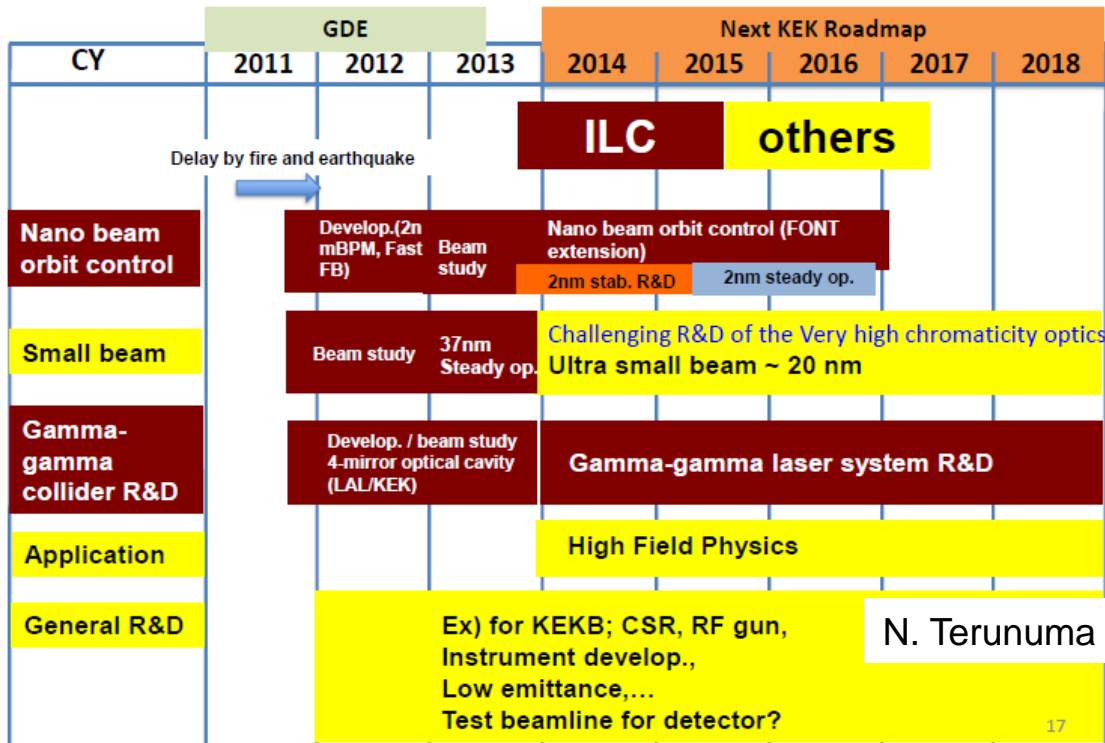
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- 13th ATF2 project meeting, Jan. 2012 (KEK)
- 14th ATF2 project meeting, Jun. 2012 (KEK)
- 15th ATF2 project meeting, Jan. 2013 (KEK)
- “ATF2 day”, ECFA LC2013, May 29, 2013 (DESY)

Lately mostly rather informal presentations and approval process + significant discussions concerning our scheme for international collaboration, and the strategy & plan for goal 1

- Consider resuming more classical review format for new proposals, with written submissions to rapporteurs and assessment reports
- Improve proceedings (*mea culpa* for missing minutes) and dissemination

Future ATF / ATF2 research plan

ATF Future Plan



- 1) Part of KEK internal review process (Accelerator division, Directorate)
- 2) Direct consultations of ATF KEK management team with its main international partners

→ Internal reviewing by ATF TB as advisory technical body, useful especially in case of external contributions to funding & central support

(Re-) organization of operation combining goals 1 + 2

Training of junior staff to support operation

Plea to continue training and centrally managed continuous runs

TB discussion + other ad hoc groups in past 2 years...

- Re-organization of collaboration & operation style in 2012 has been one of the keys for progress on goal 1
 - training of 12 junior scientists as “operators” (contribution from ATF R&D groups)
 - centrally agreed joint daily & weekly operation plan
 - single commissioning leader liaising between partner teams and coordinating operation → K. Kubo (KEK)
 - short continuous ATF2 periods as preparation, leading up to week(s) long fully dedicated continuous runs

- 1. Demonstrate international collaboration in accelerator operation**
- 2. Essential for future successes of goal 1 + 2**

Dissemination: publications and reports

- Global collaboration papers

- only refereed publication on ATF2: “*Present status and first results of the final focus beam line at the KEK Accelerator Test Facility*”, by P. Bambade et al. (ATF Collaboration): *Physical Review Special Topics - Accelerators and Beams* 13, 042801 (2010)
- ICFA beam dynamics letters: Extensive ATF2 reports in 2009, 2011 and 2013 issues

➔ High profile refereed publication timely following our recent goal 1 progress

- R&D team papers

- example 1: “*Cavity beam position monitor system for the Accelerator Test Facility 2*”, by Y.I. Kim et al.: *Physical Review Special Topics - Accelerators and Beams* 15, 042801 (2012)
- example 2: “*A nanometer beam size monitor for ATF2*”, by T. Suehara et al.: *Nucl. Instrum.Meth.A616(2010)1-8*

- Papers on individual research (e.g. junior scientists)

- example: “*First beam waist measurements in the final focus beam line at the KEK Accelerator Test Facility*”, by S. Bai et al.: *Physical Review Special Topics - Accelerators and Beams* 13, 092804 (2010)

- Many conference reports & posters each year !

- example: “*Latest Performance Results from the FONT5 Intra-train Position and Angle Feedback System at ATF2*”, by A. Gerbershagen et al.: IPAC-2011-MOPO017

No central management / monitoring ➔ role for TB or separate body ?

Concluding comment

- The TB is an important advisory body for the management ATF collaboration
- Also serves as forum for critical discussions
- Its role may be (somewhat) expanded in future

Thank you !