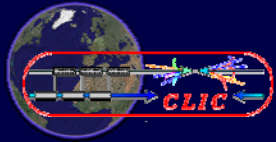


CLIC Workshop 08

CERN, 14-17 October 2007



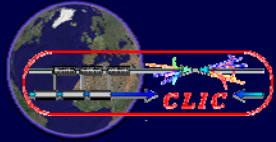
*Linear Collider Test Facilities
Working Group Program*



WHY

Mandate of the Workshop:

- Review the R&D towards CLIC feasibility demonstration and conceptual design report in 2010. This includes items of ILC-CLIC common interest as defined in the recently established ILC-CLIC Collaboration.
- Identify the R&D, facilities and engineering efforts needed in the period after 2010 to progress from a conceptual design to a technical design.
- Address particle physics and detector issues of a Multi-TeV Linear Collider.



WHAT

Test Facilities:

CTF3 at CERN

ATF/ATF2 at KEK

Nextef : Next X-band test facility at KEK

STF at KEK, ILC superconducting cavities

ESA at SLAC

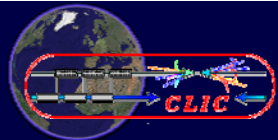
FACET at SLAC, proposed

FLASH at DESY, XFEL test facility

CESR-TA at Cornell university

ILCTA-NML at FNAL

...



WHERE



Room 60-6-002

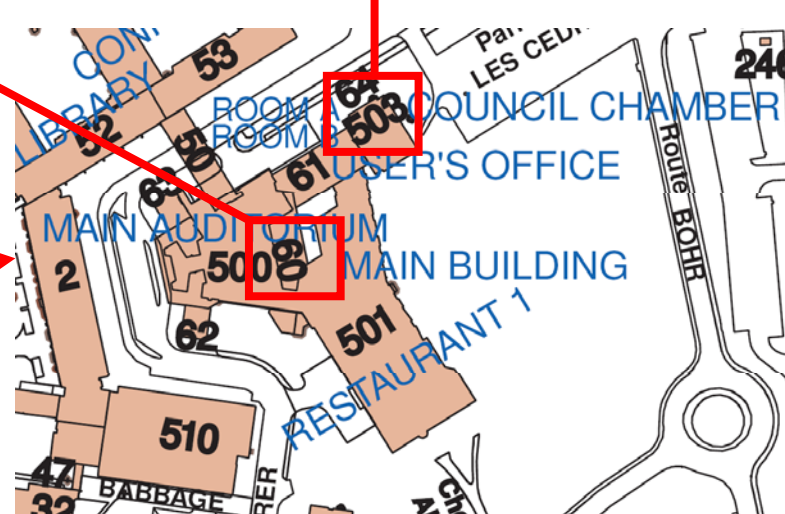
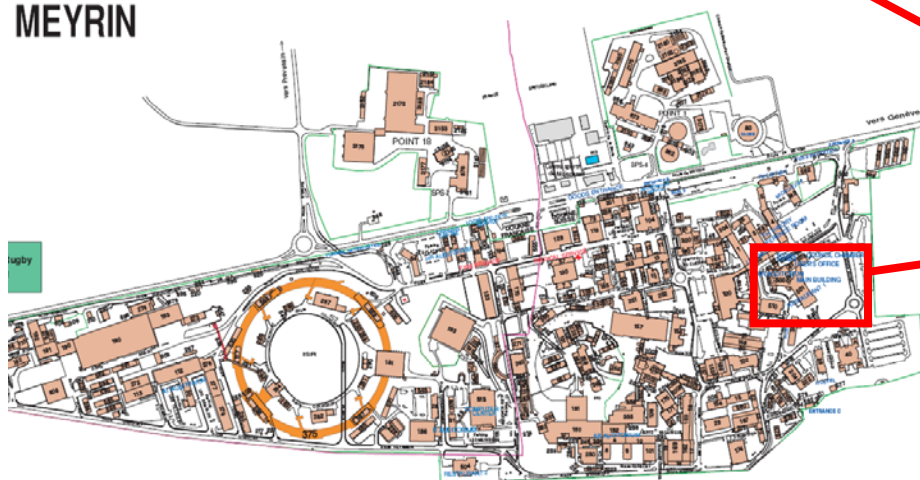
CERN-60-6-002

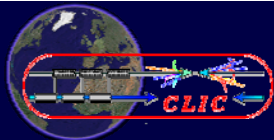


Council Chamber

CERN-503-1-001

MEYRIN



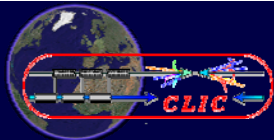


Linear Collider Test Facilities Working Group Program

CLIC 08
CERN, 14-17 October 2007

WHEN

WG schedule	Wed	Thu
Morning	8:30 - 12:30 Review of test facilities Room 60-6-002	8:30 - 10:30 Common session with Injectors & D. Rings + Instrumentation Room 60-6-002
		10:30 – 12:30 Common session with RF Structures & Sources Council Chamber
Afternoon	14:00 - 18:00 Common session with Instrumentation Room 60-6-002	14:00 – 15:40 Common session with Main-Drive Beam Dynamics + BDS & Machine-Detector Interf. Room 60-6-002
		16:00 – 18:00 Closing session (webex) Room 60-6-002



WHO

Wednesday 15 October 2008

08:30->12:30 Linear Collider Test Facilities WG

Conveners: Toshiaki Tauchi (KEK) , Roberto Corsini (CERN)

Room (60-6-002)

08:30 ATF Status (20')

08:50 Discussion (10')

09:00 ATF II Status (20')

09:20 Discussion (10')

09:30 CTF3 Status (20')

09:50 Discussion (10')

10:00 Coffee break

10:30 CTF3 Commissioning and Operation (20')

10:50 Discussion (10')

11:00 Modeling, Tools and Beam procedures in CTF3 (15')

11:15 Discussion (05')

11:20 Damping of RF deflectors vertical instability in CTF3 (20')

11:40 Discussion (10')

11:50 Status and commissioning plans for CALIFES (15')

12:05 Discussion (25')

12:30 Lunch break

J. Urakawa (KEK)

T. Tauchi (KEK)

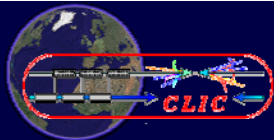
G. Geschonke (CERN)

P. Skowronski (CERN)

S. Bettoni (CERN)

D. Alesini (INFN-LNF)

W. Farabolini (CEA)



WHO

Wednesday 15 October 2008

14:00->18:00 Common Session Instrumentation - Linear Collider Test Facilities WGs

Conveners: Grahame Blair (RHUL), Thibaut Lefevre (CERN), Toshiaki Tauchi (KEK), Roberto Corsini (CERN)

Room (60-6-002)

- | | | |
|---------------------------|----------------------------------------------------------------|---------------------------|
| 14:00 | Longitudinal beam diagnostics at CTF3 (20') | A. Dabrowski (CERN) |
| 14:20 | Discussion (10') | |
| 14:30 | Coherent Diffraction study at CTF3 (20') | M. Micheler (R. Holloway) |
| 14:50 | Discussion (10') | |
| 15:00 | Femtosecond Synchronization at CTF3 (20') | Alex. Andersson (CERN) |
| 15:20 | Discussion (10') | |
| 15:30 Coffee break | | |
| 16:00 | High precision BPM at CTF3 (20') | L. Soby (CERN) |
| 16:20 | Discussion (10') | |
| 16:30 | Beam Position Monitors using Reentrant Cavity (20') | C. Simon (CEA/Saclay) |
| 16:50 | Discussion (10') | |
| 17:00 | Status on the construction of BPS at CTF3 (20') | A. Faus-Golfe (IFIC) |
| 17:20 | Discussion (10') | |
| 17:30 | Fast scanning system for the PETRA laser-wire experiment (20') | A. Bosco (JAI-RHUL) |
| 17:50 | Discussion (10') | |

18:00 End session



WHO

Thursday 16 October 2008

08:30->10:30 Common Session Injectors & Damping Rings – Instrumentation - Linear Colliders Test Facilities

Conveners: L. Rinolfi (CERN), S. Guiducci (INFN), G. Blair (RHUL), T. Lefevre (CERN), T. Tauchi (KEK), R. Corsini (CERN)
Room (60-6-002)

- | | | |
|-------|--------------------------------------------------------------------|-------------------------|
| 08:30 | Linear and non-Linear Correction using Turn-by-Turn BPM Data (20') | R. Tomas (CERN) |
| 08:50 | Discussion (10') | |
| 09:00 | High Precision Emittance Measurements in the SLS (20') | Ake Andersson (MAX-Lab) |
| 09:20 | Discussion (10') | |
| 09:30 | Damping Ring BPM Developments (20') | M. Wendt (FNAL) |
| 09:50 | Discussion (10') | |

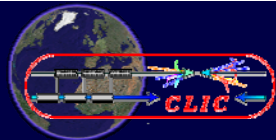
10:00 Coffee break

10:30->12:30 Common Session RF Structures & Sources - Linear Collider Test Facilities

Conveners: C. Adolphsen (SLAC), W. Wuensch (CERN), T. Tauchi (KEK), R. Corsini (CERN)
Council Chamber

- | | | |
|-------|---------------------------------------------------------------|----------------------------------------------|
| 10:30 | NEXTEV (20') | S. Matsumoto (KEK) |
| 10:50 | Discussion (05') | |
| 10:55 | SLAC + 12 GHz Klystron (20') | S. Tantawi (SLAC) |
| 11:15 | Discussion (05') | |
| 11:20 | Introduction to the CERN Klystron Test Area (20') | K-M. Schirm (CERN) |
| 11:40 | Discussion (05') | |
| 11:45 | Design&Planning Progress of the CERN Klystron Test Area (20') | F. Peauger (CEA) |
| 12:05 | Discussion (05') | |
| 12:10 | Two-Beam Test Stand Status (20') | I. Syratchev (CERN), R. Ruber (Uppsala Univ) |
| 12:30 | Discussion (05') | |

12:30 Lunch break



WHO

Thursday 16 October 2008

**14:00->15:30 Common Session Main & Drive Beam Dynamics - Linear Collider Test Facilities
- Beam Delivery System & Machine Detector Interface)**

Conveners: C. Biscari (INFN), D. Schulte (CERN), T. Tauchi (KEK), R. Corsini (CERN), A.Seryi (SLAC), R.Tomas (CERN)
Room (60-6-002)

- | | | |
|-------|-----------------------------------------------------|-------------------|
| 14:00 | Beam-based alignment studies in CTF3 (20') | E. Adli (CERN) |
| 14:20 | ATF2+CLIC BDS beam-based alignment and tuning (20') | R. Tomas (CERN) |
| 14:40 | ILC BDS alignment and tuning (20') | G. White (SLAC) |
| 15:00 | The ATF2 final doublet system (20') | A. Jeremie (LAPP) |
| 15:20 | Discussion (10') | |

15:30 Coffee break

16:00->18:00 Linear Collider Test Facilities Wkg

Conveners: Tauchi Toshiaki (KEK) , Roberto Corsini (CERN)
Room (60-6-002)

- | | | |
|-------|-------------------------------------------------------------|------------------------------|
| 16:10 | CESR TA Status and plans (20') | J. Calvey (Cornell Univ.) |
| 16:30 | Discussion (10') | |
| 16:40 | ATF II cavity BPMs (20') | S. Boogert (RHUL - by webex) |
| 17:00 | Discussion (10') | |
| 17:10 | CTF3 consolidation, evolution and future perspectives (20') | R. Corsini (CERN) |
| 17:30 | Discussion (10') | |
| 17:40 | Panel discussion on Test Facilities collaborations (20') | |

18:00 End session