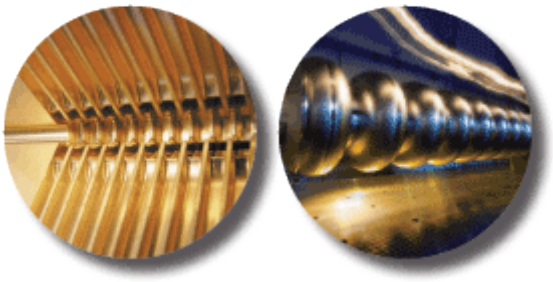
**Session Program**

**Oct 18 – 22, 2010**



# International Workshop on Linear Colliders 2010 (ECFA-CLIC-ILC Joint Meeting)

## *Accelerator session*

CERN and CICG (International Conference Centre)
Geneva, Switzerland

# Thu, October 21

8:30 AM

## Accelerator session: Joint WG 3+4

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 18 - floor "-1", Geneva, Switzerland

8:30 – 8:31 AM **WG3 WebEx information for Oct. 21 (Thursday)**

8:31 – 9:00 AM **Summary and issues of cold linac**

**Speaker**
Hitoshi Hayano

9:00 – 9:30 AM **The main issues for CLIC main linac rf structures**

**Speaker**
Walter Wuensch

9:30 – 10:00 AM **Discussion**

10:00 AM

8:30 AM

## Accelerator session: Joint WG 5+7

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 21 - floor "0", Geneva, Switzerland

8:30 – 8:50 AM

**Tuning System Design for Compact FFS Optics planned for future Linear Colliders**

**Speaker**
Dr Glen White

8:50 – 9:10 AM **ATF2 alternative lattices**

**Speaker**
Mr Eduardo Marin

9:10 – 9:30 AM **ATF2 tuning and multipoles issues**

**Speaker**
Dr Glen White

9:30 – 9:50 AM **ATF2 plan for Autum-Winter run**

**Speakers**
Nobuhiro Terunuma, Dr Toshiaki Tauchi, Dr Toshiyuki Okugi

10:00 AM

8:30 AM

## Accelerator session: WG 1 (Sources)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 19 floor "3", Geneva, Switzerland | **Convener:** Jim Clarke

8:30 – 8:50 AM **A crystal photon radiator code as event generator for GEANT4**

**Speaker**
Dr Olivier Dadoun

9:00 – 9:20 AM **Review of optical matching device for e+ beams**

**Speaker**
Changhai Xu

9:30 – 9:50 AM **RF manipulations after the AMD for CLIC**

**Speaker**
Freddy POIRIER

10:00 – 10:20 AM **Review of e+ transport from capture to Pre Damping Ring**

**Speaker**
Alessandro Vivoli

10:20 AM

8:30 AM

## Accelerator session: WG 6 (Drive beam complex and CTF3)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 5 floor "3", Geneva, Switzerland | **Convener:** Erik Adli

8:30 – 9:00 AM **Overview of the DB accelerator complex**

**Speaker**
Bernard Jeanneret

9:00 – 9:30 AM **Beam physics in DB accelerator**

**Speaker**
Avni Aksoy

9:30 – 10:00 AM **CLIC Combiner rings**

**Speaker**
Piotr Krzysztof Skowronski

10:00 AM

8:30 AM

## Accelerator session: WG 8 (Module)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 23 - floor "0", Geneva, Switzerland

9:00 – 9:20 AM **CLIC two-beam module design and integration**

**Speaker**
Mr Alexander Samoshkin

9:20 – 9:40 AM **Two-beam acceleration: two-beam prototype validation program**

**Speaker**
Germana Riddone

9:40 – 10:00 AM **Vacuum system for the CLIC two-beam modules**

**Speaker**
Mr Cedric Garion

10:00 – 10:20 AM **Status of: CLIC Two-Beam Module Magnets - R&D and Procurement**

**Speaker**
Mr Michele Modena

10:20 – 10:40 AM **Module Acquisition and Control**

**Speaker**
Mr Marc Vanden Eynden

10:40 AM

9:00 AM

## Accelerator session: WG 2 (Damping rings, ATF and CESR-TA)

**Session** |
**Location:** CERN and CICG (International Conference Centre), Room 17 (floor "-1", Geneva, Switzerland |
**Convener:** Prof. Junji Urakawa

9:00 – 9:30 AM **Collective instabilities simulations for the CLIC damping rings**

**Speaker**
Eirini Koukovini Platia

9:30 – 10:00 AM **Observations and Analysis of Fast Beam-Ion Instabilities at SOLEIL**

**Speaker**
Dr Ryutaro Nagaoka

10:00 – 10:30 AM

**Coherent synchrotron radiation for damping rings: theory and experimental proposal**

**Speaker**
Frank Zimmermann

10:30 AM

10:30 AM

## Accelerator session: Joint WG 4+6

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 5 - floor "3", Geneva, Switzerland

10:30 – 11:00 AM **What is the ideal power source for a linear collider?**

**Speaker**
Erk Jensen

11:00 – 11:30 AM **Introduction to L-band klystrons for the ILC**

**Speaker**
Dr Shigeki Fukuda

11:30 AM – 12:00 PM **Modulators for the CLIC drive beam accelerator**

**Speaker**
David Nisbet

12:00 – 12:30 PM **Drive beam accelerating structures**

**Speaker**
Rolf Wegner

12:30 PM

10:30 AM

## Accelerator session: Joint WG 7 + 8

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 22 - floor "0", Geneva, Switzerland

11:00 – 11:20 AM

**CLIC pre-alignment studies: status for CDR & prospects for TDR phase**

**Speaker**
Ms Helene Mainaud-Durand

11:20 – 11:40 AM **Feasibility of the CLIC metrological reference network**

**Speaker**
Mr Thomas Touze

11:40 AM – 12:05 PM **Stabilization achievements and plans for TDR phase**

**Speaker**
Mr Kurt Artoos

12:05 – 12:30 PM
**Hard or Soft …active isolators to stabilize the main beam quadrupoles of the CLIC ?**

**Speaker**
Mr Christophe Collette

12:30 PM

10:30 AM

## Accelerator session: WG 3 (Main linac and superconducting RF)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room, Geneva, Switzerland

10:30 – 10:50 AM **Long-term cavity R&D overview**

**Speaker**
Dr Rongli Geng

10:50 – 11:10 AM **Low-loss shape cavity**

**Speaker**
Dr fumio FURUTA

11:10 – 11:30 AM **Seamless cavity**

**Speaker**
Waldemar Singer

11:30 – 11:40 AM **Snow cleaning for high gradient**

**Speaker**
Dr Detlef Reschke

11:40 – 11:50 AM **HOM coupler heating at very high gradient**

**Speaker**
Taro Konomi

11:50 AM – 12:10 PM **Low-loss shape cavity at IHEP**

**Speaker**
Prof. Jie Gao

12:30 PM

10:30 AM

## Accelerator session: WG 5 (Interaction region, ATF2 and MDI)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 21 - floor "0", Geneva, Switzerland

10:30 – 10:50 AM **Muon cleaning in the CLIC BDS**

**Speaker**
Mr Lawrence Deacon

10:50 – 11:10 AM **CLIC collimation**

**Speaker**
Dr Javier Resta Lopez

11:10 – 11:30 AM **CLIC collimator survival**

**Speaker**
Juan Luis Fernandez Hernando

11:30 – 11:50 AM **Summary of R&D for ILC Collimators (wakefields, damage)**

**Speaker**
Nigel Watson

12:30 PM

11:00 AM

## Accelerator session: WG 1 (Sources)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 19 floor "3", Geneva, Switzerland | **Convener:** John Sheppard

11:00 – 11:20 AM **Overview for Compton Linacs based e+ sources for LC**

**Speaker**
Dr Vitaly Yakimenko

11:30 – 11:50 AM **Overview for undulators based e+ sources for LC**

**Speaker**
Dr Ian Bailey

12:00 – 12:20 PM **Overview for Ring/ERL based e+ sources for LC**

**Speaker**
Dr tsunehiko omori

12:30 PM

11:00 AM

## Accelerator session: WG 2 (Damping rings, ATF and CESR-TA)

**Session** |
**Location:** CERN and CICG (International Conference Centre), Room 17 (floor "-1", Geneva, Switzerland | **Convener:** Dr Giovanni Rumolo

11:00 – 11:30 AM **Electron Cloud instability measurements**

**Speaker**
Mr Michael Billing

11:30 AM – 12:00 PM **Electron cloud mitigation at CESRTA**

**Speaker**
Mark Palmer

12:30 PM

1:30 PM

## Accelerator session: WG 1 (Sources)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 19 floor "3", Geneva, Switzerland | **Convener:** Louis Rinolfi

1:30 – 1:50 PM **CLIC ERL based e+ source**

**Speaker**
Iryna Chaikovska

2:00 – 2:20 PM **Where we are with lasers performance for polarized e+ sources ?**

**Speaker**
Prof. Junji Urakawa

2:30 – 2:50 PM **Rotating targets and flux concentrator**

**Speaker**
Tom Piggott

3:00 – 3:20 PM **Issues for e+ stacking in the rings**

**Speaker**
Frank Zimmermann

3:30 PM

2:00 PM

## Accelerator session: Joint WG 5 + 8

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 22 - floor "0", Geneva, Switzerland

2:00 – 2:20 PM **Technical Integration of present MDI design**

**Speaker**
Hubert Gerwig

2:20 – 2:40 PM **MDI stabilization update**

**Speaker**
Dr Andrea Jeremie

2:40 – 3:00 PM **MDI alignment plans**

**Speaker**
Ms Helene Mainaud-Durand

3:00 – 3:20 PM **Passive isolation**

**Speaker**
Andrea Gaddi

3:20 – 3:40 PM **Background studies at ATF2 and the BDS/IR**

**Speaker**
Dr Marc Verderi

3:40 PM

2:00 PM

## Accelerator session: WG 2 (Damping rings, ATF and CESR-TA)

**Session** |
**Location:** CERN and CICG (International Conference Centre), Room 17 (floor "-1", Geneva, Switzerland |
**Convener:** Dr Yannis Papaphilippou

2:00 – 2:30 PM **Simulation of Intrabeam scattering**

**Speaker**
Alessandro Vivoli

2:30 – 3:00 PM
**Damping ring parameter dependence under the influence of Intrabeam scattering**

**Speaker**
Fanouria Antoniou

3:00 – 3:30 PM **Discussion on DR RF issues (if needed)**

3:30 PM

2:00 PM

## Accelerator session: WG 3 (Main linac and superconducting RF)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 18 - floor "-1", Geneva, Switzerland

2:00 – 2:20 PM **S1-G Lorentz Force Detuning Study**

**Speaker**
Dr Yuriy Pischalnikov

2:20 – 2:40 PM **FNAL CM1 test**

**Speaker**
Bob Kephart

2:40 – 3:00 PM **XFEL cryomodule test**

**Speaker**
Dr Denis Kostin

3:00 – 3:20 PM **Flash 9mA Study plan**

**Speaker**
Mr John Carwardine

3:30 PM

2:00 PM

## Accelerator session: WG 4 (Main linac and normal conducting RF)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 13 - floor "2", Geneva, Switzerland

2:00 – 2:25 PM **Engineering aspects and technical systems of CLIC rf structures**

**Speaker**
Germana Riddone

2:25 – 2:50 PM **Review of breakdown studies**

**Speaker**
Helga Timko

2:50 – 3:15 PM **Future directions for accelerating structures**

**Speaker**
Alexej Grudiev

3:15 – 3:30 PM **Update on CLIC DDS structure**

**Speaker**
Dr Roger Jones

3:30 PM

2:00 PM

## Accelerator session: WG 6 (Drive beam complex and CTF3)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 5 floor "3", Geneva, Switzerland | **Convener:** Roger Ruber

2:00 – 2:20 PM **Two-beam Acceleration at the TBTS**

**Speaker**
Andrea Palaia

2:20 – 2:40 PM **CALIFES Probe Beam Status**

**Speaker**
Wilfrid Farabolini

2:40 – 3:00 PM **Laser for CTF3 and Outlook for CLIC**

**Speaker**
Marta Csatari

3:00 – 3:20 PM **PHIN**

**Speaker**
Oznur Mete

3:20 – 3:40 PM **DB Injector with Thermo-ionic Cathode**

**Speaker**
Simona Bettoni

3:40 PM

2:00 PM

## Accelerator session: WG 7 (Low emittance transport and integrated simulations)

**Session** | **Location:** CERN and CICG (International Conference Centre), room 21 - floor "0", Geneva, Switzerland

2:00 – 2:20 PM **ILC feedback studies**

**Speaker**
Dr Nikolay Solyak

2:20 – 2:40 PM **Adaptive control scheme for the CLIC main linac**

**Speaker**
Jürgen Pfingstner

2:40 – 3:00 PM **Non-linear feedback controller**

**Speaker**
Gael Balik

3:00 – 3:30 PM **Discussion**

3:30 PM

4:00 PM

## Accelerator session: Joint WG 2 + 8

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 22 - floor "0", Geneva, Switzerland

4:00 – 4:20 PM

**Design and prototyping of Nb3Sn wigglers for the CLIC damping rings**

**Speaker**
Mr Daniel Schoerling

4:20 – 4:40 PM **Short period NbTi wiggler prototype for CLIC damping ring**

**Speaker**
Mr Alexey Bragin

4:40 – 5:00 PM **Progress with SC wigglers at ANKA**

**Speaker**
Ms Sara Casalbuoni

5:00 – 5:20 PM **Status of ILC machine protection**

**Speaker**
Mr Marc C Ross

5:20 – 5:40 PM **Status of CLIC operation and machine protection**

**Speaker**
Mr Michael Jonker

6:00 PM

4:00 PM

## Accelerator session: WG 1 (Sources)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 19 floor "3", Geneva, Switzerland | **Convener:** Louis Rinofli

4:00 – 4:20 PM **Compton ring and stacking ring for LC**

**Speaker**
Dr Eugene Bulyak

4:30 – 4:50 PM **Polarization versus e+ yield**

**Speaker**
Wei Gai

5:00 – 5:20 PM **Update on conventional source study for LC**

**Speaker**
Dr Tohru Takahashi

5:30 – 6:00 PM **Discussions and Summary for the Sources working group**

**Speakers**
Prof. Jim Clarke, Rinolfi Louis, Dr tsunehiko omori

6:20 PM

4:00 PM

## Accelerator session: WG 3 (Main linac and superconducting RF)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room, Geneva, Switzerland

4:00 – 4:20 PM **Re-entrant shape cavity**

**Speaker**
Georg Hoffstaetter

4:20 – 4:40 PM **Seamless cavity at FNAL**

**Speaker**
Andy Hocker

4:40 – 5:00 PM **New studies of niobium material**

**Speaker**
Tom Bieler

5:00 – 5:20 PM **Atomic Layer Deposition**

**Speaker**
Thomas Prolier

5:20 – 5:40 PM **New material cavity**

**Speaker**
Grigory Eremeev

6:00 PM

4:00 PM

## Accelerator session: WG 4 (Main linac and normal conducting RF)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 13 - floor "2", Geneva, Switzerland

4:00 – 4:25 PM **Progress on investigation of dynamic vacuum**

**Speaker**
Sergio Calatroni

4:25 – 4:50 PM **Recent results on computation of CLIC rf structures using ACE3P**

**Speaker**
Arno Candel

4:50 – 5:15 PM **Design and fabrication update on PSI/Trieste X-band phase-space rotator structure**

**Speaker**
Dmitry Gudkov

5:15 – 5:40 PM **SEM images from the test structure program**

**Speaker**
Markus Aicheler

5:40 – 6:00 PM **Some gritical issues in CLIC-SLAC-KEK collaboration structures**

**Speaker**
Dr Juwen Wang

6:00 PM

4:00 PM

## Accelerator session: WG 5 (Interaction region, ATF2 and MDI)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 21 - floor "0", Geneva, Switzerland

4:00 – 4:20 PM **CLIC QD0 status**

**Speaker**
Michele Modena

4:20 – 4:40 PM **IP feedback (ATF experience, hardware)**

**Speaker**
Prof. Philip Burrows

4:40 – 5:00 PM **Vacuum in the BDS and IR regions**

**Speaker**
Raymond Veness

5:00 – 5:15 PM **Study of a 5T large aperture coil for the CLIC detector**

**Speaker**
Benoit Cure

6:00 PM

4:00 PM

## Accelerator session: WG 7 (Low emittance transport and integrated simulations)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 20 floor "3", Geneva, Switzerland

4:00 – 5:00 PM **Discussion on simulation codes**

5:00 – 6:00 PM **General Discussion**

6:00 PM

4:10 PM

## Accelerator session: WG6 (Drive beam complex and CTF3)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room 5 floor "3", Geneva, Switzerland | **Convener:** Bernard Jeanneret

4:10 – 4:40 PM **Critical Review of the CTF3 Performance**

**Speaker**
Frank Tecker

4:40 – 5:10 PM **Future Work and Upgrade of CTF3**

**Speaker**
Roberto Corsini

5:10 – 6:00 PM **Round Table, CTF3 Challenges, Today and Tomorrow**

6:00 PM

5:00 PM

## Accelerator session: WG 2 (Damping rings, ATF and CESR-TA)

**Session** | **Location:** CERN and CICG (International Conference Centre), Room, Geneva, Switzerland | **Convener:** Dr Yannis Papaphilippou

5:00 – 5:30 PM **Recommendation on ILC DR EC mitigation**

**Speaker**
Dr Mauro Pivi

5:30 – 6:00 PM
**Discussion on future R&D planning, experimental program and LER collaboration**

6:00 PM