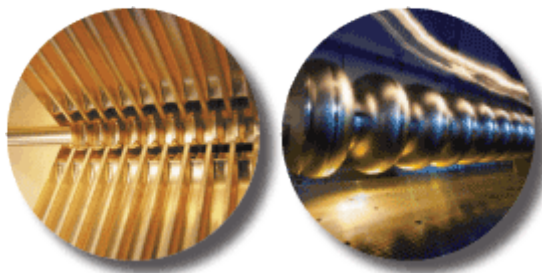


Session Program

18-22 Oct 2010



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

Accelerator Session

CERN and CICC (International Conference Centre)
Geneva, Switzerland

Wednesday 20 October

08:30

Accelerator Session: Joint WG 5+9+ECFA

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

08:30–08:31 **Webex Information**

08:31–08:50 **ILC MDI**

Speaker

Prof. Andrei Seryi

08:50–09:10 **CLIC MDI**

Speaker

Lau Gatignon

09:10–09:30 **IR location for the shallow site near Dubna**

Speaker

Andrey Dudarev

09:30–09:50 **Civil engineering for CLIC MDI**

Speaker

Martin Gastal

10:00

08:30

Accelerator Session: WG 1 (Sources)

Session | **Location:** CERN and CIG (International Conference Centre), Room 19 floor "3", Geneva, Switzerland | **Convener:** Tsunehiko Omori

08:30–09:00 **Welcome to Sources working group**

Speakers

Prof. Jim Clarke, Rinolfi Louis, Dr tsunehiko omori

09:00–09:20 **ILC e- and e+ sources overview**

Speaker

Prof. Jim Clarke

09:30–09:50 **CLIC e- and e+ sources overview**

Speaker

Rinolfi Louis

10:00–10:20 **ILC-CLIC e+ generation working group**

Speaker

Prof. Jim Clarke

10:50

08:30

Accelerator Session: WG 3 (Main Linac and superconducting RF)

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

08:30–08:31 **WG3 WebEx information for Oct. 20 (Wednesday)**

	<div>08:31–08:40</div> Technical specification/Introduction and Objectives Speaker Prof. Akira Yamamoto
	<div>08:40–09:00</div> Cavity technical specification Speaker Hitoshi Hayano
	<div>09:00–09:20</div> US cavity specification Speaker Camille Ginsburg
	<div>09:20–09:40</div> Cryomodule Technical specification Speaker Dr Norihito Ohuchi
	<div>09:40–10:00</div> Cost estimate information and discussion Speaker Peter Garbincius
10:00	
08:30	Accelerator Session: WG 4 (Main Linac and normal conducting RF) Session Location: CERN and CIG (International Conference Centre), Room 6 - floor "3", Geneva, Switzerland
	<div>08:30–09:00</div> Reort from NLCTA Speaker Chris Adolphsen
	<div>09:00–09:30</div> Report from ASTA Speaker Alessandro Cappelletti
	<div>09:30–10:00</div> Report from NEXTEF Speaker Dr Toshiyasu Higo
10:00	
08:30	Accelerator Session: WG 7 (Low emittance transport and integrated simulations) Session Location: CERN and CIG (International Conference Centre), Room 20 - floor "3", Geneva, Switzerland
	<div>08:30–08:40</div> WG7 Introduction Speakers Dr Frank Stulle, Dr Kiyoshi Kubo, Dr Nikolay Solyak
	<div>08:40–09:00</div> ILC RTML Overview Speaker Dr Andrea Latina
	<div>09:00–09:20</div> CLIC RTML Overview Speaker Dr Frank Stulle

10:00

08:45

10:10

09:00

10:45

09:20–09:40

CLIC RTML Emittance Measurement

Speaker

Hector Garcia

09:40–10:00

Summary of ILC Main Linac Specs

Speaker

Dr Kiyoshi Kubo

Accelerator Session: WG 6 (Drive beam complex and CTF3)

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

Convener: Roger Ruber

08:45–09:00

Welcome

Speaker

Roger Ruber

09:00–09:30

Overview and Beam Physics

Speaker

Erik Adli

09:30–09:50

Powered Magnets, DB Formation and Decelerator

Speaker

Alexey Vorozhtsov

09:50–10:10

Serial Magnet Powering Scheme

Speaker

Serge Pittet

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

Session |

Location: CERN and CIG (International Conference Centre), Room 17 (floor "-1", Geneva, Switzerland |

Convener: Dr Mark Palmer

09:00–09:15

Working group organisation

Speaker

Yannis Papaphilippou

09:15–09:45

Design progress for the ILC Damping Rings

Speaker

Dr Susanna Guiducci

09:45–10:15

Conceptual design of the CLIC Damping Rings

Speaker

Yannis Papaphilippou

10:15–10:45

ATF status

Speaker

Prof. Junji Urakawa

09:00

Accelerator Session: WG 8 (Instrumentation)**Session** | **Location:** CERN and CICG (International Conference Centre), Room 4 - floor "0", Geneva, Switzerland**09:00–09:20** **Progress on instrumentation****Speaker**

Mr Thibaut Lefevre

09:20–09:40 **BPM R&D for ILC&CLIC ML, BPM readout electronics****Speaker**

Mr Manfred Wendt

09:40–10:00 **CLIC Drive Beam BPMs****Speaker**

Steve Smith

10:00–10:30 **XUV ODR monitor project @ CESR-TA****Speakers**

Mr Michael Biling, Mr Thibaut Lefevre

10:30

10:30

Accelerator Session: Combined session WG 5 + ECFA**Session** | **Location:** CERN and CICG (International Conference Centre), Room 21 - floor "0", Geneva, Switzerland**10:30–10:31** **Webex Information****10:31–10:50** **ILC BDS****Speaker**

Deepa Angal-Kalinin

10:50–11:10 **CLIC BDS****Speaker**

Dr Rogelio Tomas

11:10–11:30**ILC luminosity optimisation in the presence of the detector solenoid and anti-DID****Speaker**

Reine Versteegen

11:30–11:50 **CLIC solenoid and anti-solenoid impact****Speaker**

Barbara Dalena

11:50–12:10 **ILC QD0 R&D update****Speaker**

Dr Brett Parker

12:30

10:30

Accelerator Session: WG 3 (Main linac and superconducting RF)**Session** | **Location:** CERN and CICG (International Conference Centre), Room 23 - floor "0", Geneva, Switzerland**10:30–10:50****Industrialization model and progress; How to communicate with industry**

Speaker

Prof. Akira Yamamoto

10:50-11:10

Experience of the LHC cryostat assembly on site at CERN**Speaker**

Vittorio Parma

11:10-11:30

Experience from European XFEL Project**Speaker**

Dr Hans Weise

11:30-11:50

Progress and further study plan in America**Speaker**

Jim Kerby

11:50-12:10

Progress and further study plan in Asia**Speaker**

Hitoshi Hayano

12:10-12:15

Comments from AAP/PAC

12:15-12:30

general discussion

12:30

10:30

Accelerator Session: WG 4 (Main linac and normal conducting RF)**Session** | **Location:** CERN and CIG (International Conference Centre), Room 6 - floor "3", Geneva, Switzerland

10:30-10:55

Report from single-cell test area**Speaker**

Dr Valery Dolgashev

10:55-11:10

New single cell design**Speaker**

Neilson Jeff

11:10-11:40

Report from TBTS**Speaker**

Syratchev Igor

11:40-12:05

Report from TBL**Speaker**

Steffen Doebert

12:05-12:30

Report from CLIC-klystron test area**Speaker**

Karl-Martin Schirm

12:30

10:30

Accelerator Session: WG 6 (Drive beam complex and CTF3)**Session** | **Location:** CERN and CIG (International Conference Centre), Room 5 floor "3", Geneva, Switzerland |**Convener:** Erik Adli

10:30-11:00

Power Extraction and Transfer Structures

	<div> Speaker Alessandro Cappelletti </div>
	<div> 11:00-11:20 Decelerator Test Beam Line : status , drive beam power production </div> <div> Speaker Reidar Lunde Lillestol </div>
	<div> 11:20-11:40 Transient Beam Loading Compensation </div> <div> Speaker Oleksiy Kononenko </div>
	<div> 11:40-12:00 Permanent Magnet Quadrupoles </div> <div> Speaker Jim Clarke </div>
12:00	
10:30	<div> Accelerator Session: WG 7 (Low emittance transport and integrated simulations) Session Location: CERN and CICG (International Conference Centre), Room 20 - floor "0", Geneva, Switzerland </div> <div> 10:30-10:50 CLIC Main Linac Overview </div> <div> Speaker Dr Frank Stulle </div> <div> 10:50-11:10 Fast Beam Ion Instabilities in the CLIC Main Linac </div> <div> Speaker Adrian Oeftiger </div> <div> 11:10-11:30 CLIC Magnetic Stray Field Studies </div> <div> Speaker Jochem Snuverink </div> <div> 11:30-11:50 ILC Integrated Studies </div> <div> Speaker Dr Andrea Latina </div> <div> 11:50-12:10 CLIC Integrated Studies </div> <div> Speaker Dr Javier Resto Lopez </div> <div> 12:10-12:30 Discussion </div>
12:30	
10:30	<div> Accelerator Session: WG 9 (Civil engineering and scheduling) Session Location: CERN and CICG (International Conference Centre), Room 15 - floor "-1", Geneva, Switzerland </div> <div> 10:30-11:00 CLIC Project Schedule Status </div> <div> Speaker Katy Foraz </div> <div> 11:00-11:30 ILC Project Schedule </div> <div> Speaker Peter Garbincius </div>

12:30

11:30-12:30 **Discussion**

11:00

Accelerator Session: WG 1 (Sources)

Session | **Location:** CERN and CIG (International Conference Centre), Room 19 floor "3", Geneva, Switzerland | **Convener:** Tsunehiko Omori

11:00-11:20 **Which type of polarimetry, at which energies for LC ?**

Speaker

Sabine Riemann

11:30-11:50 **Review of the risks for e+ sources**

Speaker

Masao Kuriki

12:00-12:20 **REview of spin rotators for LC**

Speaker

Dr Andrea Latina

12:30

11:00

Accelerator Session: WG 8 (Instrumentation)

Session | **Location:** CERN and CIG (International Conference Centre), Room 4 - floor "0", Geneva, Switzerland

11:00-11:20 **Instrumentation progress at ATF2**

Speaker

Dr Toshiaki Tauchi

11:20-11:40 **Fibre Lasers for advanced beam diagnostics**

Speaker

Ms Laura Corner

11:40-12:00 **Longitudinal diagnostics for CLIC**

Speaker

Ms Anne Dabrowski

12:00-12:30 **Specifications of technical equipment for BDS**

Speaker

Mr Rogelio Tomas Garcia

12:30

11:15

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

Session | **Location:** CERN and CIG (International Conference Centre), Room 17 (floor "-1", Geneva, Switzerland | **Convener:** Dr Riccardo Bartolini

11:15-11:40 **Update of 3.2 km ILC DR design**

Speaker

Prof. Jie Gao

11:40-12:05 **Low emittance tuning at CESR-TA**

Speaker

Mr Jim Shanks

12:05-12:30 **Australian synchrotron low-emittance tuning progress**

12:30

Speaker

Mr Eugene Tan

14:00

Accelerator Session: Joint WG 6+7+8

Session | **Location:** CERN and CIG (International Conference Centre), Room 2 floor 0, Geneva, Switzerland

14:00-14:01

webex information

14:01-14:21

Concept of MB-DB phase alignment and status of solutions

Speaker

Daniel Schulte

14:20-14:40

Update on specifications

Speaker

Mr Javier Serrano

14:40-15:00

Measurements on phase stability in CTF3

Speaker

Mr Giulio Morpurgo

15:00-15:20

FONT + Fast Kicker for MB/DB phase correction

Speaker

Prof. Philip Burrows

15:20-15:40

CLIC kicker systems

Speaker

Mr Mike Barnes

15:40

14:00

Accelerator Session: WG 1 (Sources)

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

Convener: Olivier Dadoun

14:00-14:20

Flux concentrator for Super KEKB

Speaker

Takuya Kamitani

14:30-14:50

French 4-mirrors cavity results

Speaker

Prof. fabian zomer

15:00-15:20

Japanese cavity: results, status and future

Speaker

Dr tsunehiko omori

16:00-16:20

Liquid lead target tests

Speaker

Dr tsunehiko omori

16:30-16:50

Status of hybrid targets R&D

Speaker

Dr Tohru Takahashi

16:50

14:00

Accelerator Session: WG 3 (Main linac and superconducting RF)**Session** | **Location:** CERN and CIG (International Conference Centre), Room 23 - floor "0", Geneva, Switzerland**14:00-14:20 S1-G Cavity Test Summary****Speaker**

Eiji Kako

14:20-14:40 S1-G Cryomodule Thermal Performance**Speaker**

Dr Norihito Ohuchi

14:40-15:00 S1-G GRP/Cavities movement during cool-down**Speaker**

Prof. Kiyosumi Tsuchiya

15:00-15:20 S1-G Tuner Performance Study**Speaker**

Carlo Pagani

15:20-15:40 DRFS test preparation at S1-G**Speaker**

Dr Shigeki Fukuda

15:40

14:00

Accelerator Session: WG 4 (Poster session)**Session** | **Location:** CERN and CIG (International Conference Centre), EP floor "2", Geneva, Switzerland**14:00-14:01****Design and fabrication update on PSI/Trieste x-band phase-space rotator structure (D. Gudkov, A. Samoshkin, JINR, Dubna, Russia, G. Riddone, R. Zennaro, S. Atieh, CERN, Geneva, Switzerland, M. Dehler, J-Y. Raguin, PSI, Villigen, Switzerland)****14:01-14:02****Engineering design and fabrication of X-band damped detuned structure (V. Soldatov, D. Gudkov, A. Samoshkin (JINR); G. Riddone, A. Grudiev, S. Atieh, A. D'Elia (CERN); V. F. Khan, R. M. Jones (UMAN/Cockroft)****14:02-14:03****Engineering design and fabrication of X-band ac. structure TD24 with WFM (F. Peauger, P. Girardot, CEA Saclay, France, A. Andersson, G. Riddone, S. Atieh, CERN, Geneva, Switzerland, A. Samoshkin, A. Solodko, D. Gudkov, JINR, Dubna, Russia, R. Zennaro, PSI, Villigen, Switzerland)****14:03-14:04****Engineering design and fabrication of X-band ac. structures TD24 R05 and TD24 R05 SiC (G. Riddone, A. Grudiev, S. Atieh, CERN, Geneva, Switzerland, A. Solodko, A. Samoshkin, D. Gudkov, JINR, Dubna, Russia)****14:04-14:05****Engineering design and fabrication of PETS (D. Gudkov, V. Soldatov, , A. Samoshkin, A. Olyunin (JINR); S. Atieh, I. Syrathev, G. Riddone (CERN))**

14:05-14:06

Conceptual design X-band ac. structure TD26 CC SiC (A. Grudiev, G. Riddone, CERN, Geneva, Switzerland, A. Samoshkin, A. Solodko, D. Gudkov, JINR, Dubna, Russia)

14:06-14:07

Fabrication of X-band RF accelerating structures at CERN (S. Lebet, Ph. De Souza, M. Aicheler, M. Malabaila, M. Taborelli, S. Atieh, CERN, V. Sibue, BODYCOTE)

14:07-14:08

Engineering design and Production of X-band RF components (G. Riddone, I. Syratchev, CERN, Geneva, Switzerland, I. Kossyvakis, NTUA, Greece, M. Filippova, A. Solodko, A. Olyunin, JINR, Dubna, Russia)

14:08-14:09

Integration of RF structures in the two-beam module (A. Samoshkin, D. Gudkov JINR, Dubna, Russia, G. Riddone, CERN)

14:09-14:10

Thermo-mechanical model of two-beam module (R. Nousiainen, G. Riddone, K. Österberg)

14:10-14:11

Studies on high-precision machining and assembly of CLIC RF structures (J. Huopana, S. Atieh, G. Riddone, K. Österberg)

14:11-14:12

Manufacturing and Test folder for RF structures and RF components (H. Tiainen, R. Bray, M. Saifoulina, M. Filippova)

14:12-14:13

A DAMPED AND DETUNED STRUCTURE FOR THE MAIN LINACS FOR CLIC (V. F. Khan, A. D'Elia, A. Grudiev, R. M. Jones, G. Riddone, V. Soldatov, W. Wuensch, R. Zennaro, School of Physics and Astronomy, The University of Manchester, Manchester, U.K., The Cockcroft Institute of Accelerator Science and Technology, Daresbury, U.K., CERN, Geneva, Switzerland, JINR, Dubna, Russia, PSI, Villigen, Switzerland)

14:13-14:14

A HIGH PHASE ADVANCE DAMPED AND DETUNED STRUCTURE FOR THE MAIN LINACS OF CLIC (V. F. Khan, A. D'Elia, A. Grudiev, R. M. Jones, W. Wuensch, School of Physics and Astronomy, The University of Manchester, Manchester, U.K., The Cockcroft Institute of Accelerator Science and Technology, Daresbury, U.K., CERN, Geneva, Switzerland)

14:14-14:15

Comparative studies of rf and dc breakdowns (J.W.Kovermann, CERN and 3.Phys.Inst. B, RWTH Aachen, Germany)

14:15-14:16

A SLED type pulse compressor for the CERN X-band test stand (J.W.Kovermann, K.Schirm, S.Doebert, I.Syratchev (CERN Switzerland))

14:16-14:17

Molecular Dynamics simulations of nanoscale metal tips under electric fields including electronic processes (S. Parviainen, F. Djurabekova, K. Nordlund (Helsinki Institute of Physics (HIP) and Department of Physics))

14:17-14:18

Dislocations emitted from void under tensile stress - growth on surface (A. Pohjonen, F. Djurabekova, K. Nordlund, A. Kuronen (Helsinki Institute of Physics (HIP) and Department of Physics), S. Fitzgerald (Culham Centre for Fusion Energy, Abingdon))

14:18-14:19

Particle-In-Cell & Molecular Dynamics modelling of vacuum arcs (H. Timko, F. Djurabekova, K. Nordlund, S. Parviainen, A. Pohjonen, A. Ruzibaev, J. Samela (HIP), K. Matyash, R. Schneider (IPP), S. Calatroni, M. Taborelli, W. Wuensch (CERN))

14:19-14:20

DC Spark Setup (S. Calatroni, J. Kovermann, C. Pasquino, R. Santiago Kern, M. Taborelli, H. Timko (CERN))

14:20-14:21

DC Breakdown Measurements (S. Calatroni, A. Descoeudres, C. Pasquino, R. Santiago Kern, M. Taborelli, H. Timko (CERN))

14:21-14:22

Announcement of Workshop "Mechanisms of Vacuum Arcs" (F. Djurabekova, K. Nordlund (HIP), W. Wuensch, S. Calatroni (CERN))

14:22-14:23

Tuning of CLIC Accelerating Structure Prototypes at CERN (Jiaru Shi, Alexej Grudiev, Andrey Olyunin, Walter Wuensch (CERN))

14:23-14:24

Some information from Nextef (Toshiyasu Higo (KEK))

14:24-14:25

SEM In-situ Field Emission Experiments for Breakdown Study (SEM In-situ Field Emission Experiments for Breakdown Study (Uppsala University, Uppsala, Sweden))

15:30

14:00

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

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

14:00-14:20

CLIC Post-collision line and dumps

Speaker

Edda Gschwendtner

14:20-14:40

CLIC Crab cavities

Speaker

Dr Amos Dexter

14:40-15:00

500 GeV CLIC BDS

15:30	<p>Speaker Guillermo Zamudio Ascencio</p>
14:00	<p>Accelerator Session: WG 9 (Civil engineering and scheduling) Session Location: CERN and CIG (International Conference Centre), room 15 - floor "-1", Geneva, Switzerland</p> <p>14:00-14:20 Lessons from LHC Helium Release and Radiation to Electronics</p> <p>Speaker Sylvain Weisz</p> <p>14:20-14:40 CLIC CES Chapter for CDR</p> <p>Speaker John Andrew Osborne</p> <p>14:40-15:00 Cryogenic Systems for Asian Sites</p> <p>Speaker Kenji Hosoyama</p> <p>15:00-15:30 Discussion</p>
15:30	
16:00	<p>Accelerator Session: Joint WG 2+4+8 Session Location: CERN and CIG (International Conference Centre), Room 2 - floor "0", Geneva, Switzerland Convener: Dr Alexej Grudiev</p> <p>16:00-16:10 Introduction</p> <p>Speaker Susanna Guiducci</p> <p>16:10-16:35 Transient beam loading correction at ILC DR</p> <p>Speaker Dr Kiyoshi Kubo</p> <p>16:35-17:00 RF system issues due to pulsed beam in ILC DR</p> <p>Speaker Sergey Belomestnykh</p> <p>17:00-17:25 Conceptual design of the CLIC damping rings RF system</p> <p>Speaker Mr Alexej Grudiev</p> <p>17:25-18:00 Discussion on 50% duty cycle operation of the ILC DR and synergies with CLIC DR RF design</p>
18:00	
16:00	<p>Accelerator Session: Joint WG 3 + 9 Session Location: CERN and CIG (International Conference Centre), Room 23 - floor "0", Geneva, Switzerland</p> <p>16:00-16:30 Design Progress for Asian Single Tunnel Configuration</p> <p>Speaker Mr MASANOBU MIYAHARA</p> <p>16:30-17:00 Review of Main Linac Tunnel Dimensioning</p>

18:00	<div> <div> Speaker Dr atsushi Enomoto </div> </div>
16:00	<div> <div> 17:00-18:00 Discussion </div> </div>
	<div> <div> Accelerator Session: Joint WG 5 +7 Session Location: CERN and CICG (International Conference Centre), Room 21 - floor "0", Geneva, Switzerland </div> </div>
	<div> <div> 16:00-16:20 IP feedback performance in ILC and CLIC </div> <div> Speaker Dr Javier Resta Lopez </div> </div>
	<div> <div> 16:20-16:40 Correction of ground motion in the CLIC BDS </div> <div> Speaker Jochem Snuerink </div> </div>
	<div> <div> 16:40-17:00 CLIC FFS tuning overview </div> <div> Speaker Barbara Dalena </div> </div>
	<div> <div> 17:00-17:20 CLIC FFS new tuning techniques </div> <div> Speaker Dr Andrea Latina </div> </div>
18:00	<div> <div> 17:20-17:40 Overall simulation of luminosity preservation </div> <div> Speaker Daniel Schulte </div> </div>
16:00	<div> <div> Accelerator Session: WG 1 (Sources) Session Location: CERN and CICG (International Conference Centre), Room 19 floor "3", Geneva, Switzerland Convener: Tohru Takahashi </div> </div>
	<div> <div> 17:00-17:20 Review of polarized electron sources for LC </div> <div> Speaker Dr John Sheppard </div> </div>
	<div> <div> 17:30-17:50 Where we are with lasers performance for polarized e- sources ? </div> <div> Speaker Massimo Petrarca </div> </div>
18:20	<div> <div> 18:00-18:20 CEBAF experience with high voltage gun </div> <div> Speaker Matt Poelker </div> </div>
16:00	<div> <div> Accelerator Session: WG 4 (Poster Session) Session </div> </div>
18:00	
16:10	<div> <div> Accelerator Session: WG 6 (Drive beam complex and CTF3) Session Location: CERN and CICG (International Conference Centre), Room 5 floor "3", Geneva, Switzerland Convener: Frank Tecker </div> </div>
	<div> <div> 16:10-16:50 CTF3 instrumentation, opportunities and limitations </div> </div>

Speaker

Anne Dabrowski

16:50-17:10

CTF3 BPMs : electronics, radiation, operational challenges

Speaker

Lars Soby

17:10-17:30

Longitudinal beam profiling with coherent diffraction radiation

Speaker

Konstantin Lekomtsev

17:30-17:50

Current stability of the CTF3 beam

Speaker

Guido Sterbini

17:50-18:10

Phase stability of the CTF3 beam

Speaker

Alexey Dubrovskiy

18:10