

Session Program

21-25 Jan 2019

CLIC Workshop 2019

Accelerator Session

CERN, Several rooms

Monday 21 January

14:00

Accelerator Session: Beam-Dynamics, System-tests, ATF2

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Convener:** Daniel Schulte

14:00–14:15 **New FFS design at 380 GeV**

Speaker

Andrii Pastushenko

14:15–14:30 **3 TeV FFS momentum bandwidth**

Speaker

Vera Cilento

14:30–14:45 **Modeling energy distribution in the FFS for CLIC luminosity**

Speaker

Renjun Yang

14:45–15:00 **The post collision line design**

Speaker

Ryan Michael Bodenstein

15:00–15:15 **Instrumentation challenges**

Speaker

Thibaut Lefevre

15:15–15:30 **Dynamic imperfection tolerances in CLIC**

Speaker

Chetan Gohil

15:30–16:00 **Coffee break**

16:00–16:15 **Resistive-wall wakes in the BDS**

Speaker

Dominik Arominski

16:15–16:30 **Photon reflections**

Speaker

Dominik Arominski

16:30–16:45 **ML modeling of luminosity for FFS tuning**

Speaker

Eduardo Marin Lacoma

16:45–17:15 **Overview of DR Challenges**

Speaker

Yannis Papaphilippou

18:00

14:00

Accelerator Session: X-Band Technologies and Technical Development

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:** Walter Wuensch, Nuria Catalan Lasheras

14:00-14:25 Update of NEXTEF activity and TD26CC high-gradient test result

Speaker

Toshiyasu Higo

Location

CERN, 503/1-001 - Council Chamber

14:25-14:50 X-band and C-band activities at SSRF/SINAP

Speaker

Wencheng Fang

Location

CERN, 503/1-001 - Council Chamber

14:50-15:15 X-band test facilities at CERN

Speaker

Nuria Catalan Lasheras

Location

CERN, 503/1-001 - Council Chamber

15:15-15:40 Meta-material accelerating structure

Speaker

Manoel Conde

Location

CERN, 503/1-001 - Council Chamber

15:40-16:10 Coffee

16:10-16:35

Single-cell SW cavity test result and future plans and TD24-Quad production

Speaker

Dr Tetsuo Abe

Location

CERN, 503/1-001 - Council Chamber

16:35-17:00 High Power Testing of High Gradient S-Band Structures for FERMI FEL

Speaker

Mr nuaman shafqat

Location

CERN, 503/1-001 - Council Chamber

17:00-17:25 Breakdown measurements in the LINAC4 RFQ

Speaker

Anna Vnuchenko

Location

CERN, 503/1-001 - Council Chamber

17:25-17:50 High-gradient test results

Speaker

Mr Lee Millar

Location

CERN, 503/1-001 - Council Chamber

17:50–18:15

High gradient test result of DCS (distributed coupling structure)

Speaker

Brandon Weatherford

Location

CERN, 503/1-001 - Council Chamber

18:15

Tuesday 22 January

09:00

Accelerator Session: Beam-Dynamics, System-tests, ATF2

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Convener:** Daniel Schulte

09:00–09:20 **Status of the pre-alignment system**

Speaker

Helene Mainaud Durand

09:20–09:40 **SwissFEL Undulator section BBA and optimisation**

Speaker

Masamitsu Aiba

09:40–10:00 **Module design**

Speaker

Carlo Rossi

10:00–10:15 **Dynamic magnetic field measurements**

Speaker

Chetan Gohil

10:15–10:30 **Temperature dependent effects**

Speaker

Carlo Rossi

10:30–11:00 **Coffee break**

11:00–11:25 **Status of the IPBSM hardware**

Speaker

Toshiyuki Okugi

11:25–11:45 **Beam-based tuning of the BDS**

Speaker

Dr Jim Alexander Ogren

11:45–12:05 **ATF2 Intensity-Dependence Studies**

Speaker

Pierre Korysko

12:05–12:25 **Beta* measurements in SKEKB to demonstrate CLIC-like FFS**

Speaker

Paul Conrad Vaagen Thrane

12:45

09:00

Accelerator Session: X-Band Technologies and Technical Development

Session | **Location:** CERN, 30/7-018 - Kjell Johnsen Auditorium | **Conveners:**
Walter Wuensch, Nuria Catalan Lasheras

09:00–09:25 **Update from Tsinghua activities**

Speaker

Jiaru Shi

09:25-09:50 **Dark current mapping, fluctuations and evolution**

Speaker

Jan Paszkiewicz

09:50-10:15 **Dark current simulations**

Speaker

Mr David Banon Caballero

10:15-10:40 **Radiation measurement and simulation**

Speaker

Dr Marca Boronat

10:40-11:10 **Coffee**

11:10-11:35 **Progress of ultrasound microscope imaging of CU samples**

Speaker

Antti Meriläinen

11:35-12:00 **36 GHz linearizer**

Speaker

Xiaowei Wu

12:00-12:25

Investigations into RF-driven dielectric-loaded accelerating structures for linear collider applications

Speaker

Dr Yelong Wei

12:25-12:50 **X-band pulse compressors at Tsinghua**

Speaker

Yuliang Jiang

12:50

14:00

Accelerator Session: Beam-Dynamics, System-tests, ATF2

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Convener:** Daniel Schulte

14:00-14:20 **Beam Diagnostics**

Speaker

Michele Bergamaschi

14:20-14:40

Tests Ultra-low beta at ATF2: Octupoles / IPBSM / OTR summary of Nov/Dec run

Speaker

Renjun Yang

14:40-14:55 **FONT talk**

Speaker

Dr Douglas Robert Bett

14:55-15:10 **LAPP Collaborators, Ground motion**

Speakers
Gael Balik, Laurent Brunetti

15:10-15:30 **An acquisition system for cavity BPM**

Speakers
Alexey Lyapin, Manuel Cargnelutti, Manuel Cargnelutti

15:30-16:00 **Coffee break**

16:00-16:25 **Swiss FEL, RF stability and availability**

Speaker
Qiao Geng

16:25-16:45 **Availability studies for CLIC**

Speaker
Odei Rey Orozco

16:45-17:05 **Tests of Wakefield Monitors at CLEAR**

Speaker
Kyrre Ness Sjobaek

17:05-17:25 **Beam-based alignment performance in the main linac**

Speaker
Neven Blaskovic Kraljevic

18:00

14:00

Accelerator Session: X-Band Technologies and Technical Development

Session | **Location:** CERN, 30/7-018 - Kjell Johnsen Auditorium | **Conveners:**
Nuria Catalan Lasheras, Walter Wuensch

14:00-14:25 **X-band manufacturing at CERN**

Speaker
Joel Souza Bedolla

14:25-14:50

Building 12 GHz Traveling Wave Accelerating Structure Brazed Through Irises

Speaker
Valery Dolgashev

14:50-15:15

Thermo-mechanical simulations and measurements of CLIC accelerating structures

Speaker
Alex Vamvakas

15:15-15:40

Field homogeneity measurements with beam of the CLIC Stripline at the ALBA Storage Ring

Speaker
Francis Perez

15:40-16:10 **Coffee break**

16:10-16:35 **High stiffness cam mover prototype test results**

Speaker

Juha Kemppinen

16:35-17:00 **HTS undulator development**

Speaker

Sebastian Richter

17:00-17:25 **A proposal for a controls and data acquisition demonstrator**

Speaker

Javier Serrano

17:25-17:50

Development of PM-based Quadrupole Magnet Prototypes for the CLIC Drive Beam

Speaker

Mr Ben Shepherd

17:50-18:15

Submicron accurate CLIC accelerating structure internal alignment quantification

Speaker

Risto Montonen

18:15

Wednesday 23 January

08:30

Accelerator Session: Advanced Accelerator Technologies

Session | **Location:** CERN, 6/2-004 | **Convener:** Erik Adli

08:30–08:55 **Multi-TeV gamma-gamma colliders**

Speaker

Philipp Roloff

09:00–09:15 **AAT working group status**

Speaker

Erik Adli

09:15–09:45 **Parameter space for active plasma lenses (ONLINE)**

Speaker

Carl Andreas Lindstrom

09:45–10:15 **Modelling and optimization of a PWFA-LC stage**

Speaker

Jian Bin Ben Chen

10:15–10:45 **Coffee break**

10:45–11:15 **Status of positron acceleration in PWFA**

Speaker

Sebastien Corde

11:15–11:45 **Status of the ALEGRO initiative**

Speaker

Patric Muggli

11:45–12:00 **Discussion**

13:00

08:30

Accelerator Session: Power Sources

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin | **Convener:** Igor Syratchev

08:30–09:00 **VDBT BAC MBK klystrons family. Status report**

Speaker

Igor Guzilov

09:00–09:30 **Canon experience with high efficiency S-band klystrons**

Speaker

Toshiro Anno

09:30–10:00 **The commercial prototype of SC solenoid for 50 MW X -band klystron**

Speaker

Akira Yamamoto

10:00-10:30

High efficiency X-band klystrons development at CERN

Speaker

Igor Syratchev

10:30-11:00

Coffee break

11:00-11:30

Depressed collector option for HE 50 MW X-band klystron

Speaker

Jeff Neilson

11:30-12:00

The new concept of the compact and efficient 24 MW MBK L-band klystron for the CLIC drive beam accelerator

Speaker

Igor Syratchev

12:00-12:30

Scaling procedures and post-optimization for the design of high efficiency Klystrons

Speaker

Jinchi Cai

12:45