

**International Workshop on  
Future Linear Colliders,  
LCWS2018**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Cavity fabrication status in KEK/CFF**

*Thursday, 25 October 2018 08:30 (20 minutes)*

**Presenter:** DOHMAE, Takeshi

**Session Classification:** SRF 1

Contribution ID: 2

Type: **not specified**

## **Recent clean assembly study at KEK for keeping SRF cavity high performance in cryomodule**

*Thursday, 25 October 2018 08:50 (20 minutes)*

**Presenter:** SAKAI, Hiroshi (KEK)

**Session Classification:** SRF 1

Contribution ID: 3

Type: **not specified**

## Vertical EP status

*Thursday, 25 October 2018 09:10 (20 minutes)*

**Presenter:** CHOUHAN, Vijay (Marui Galvanizing Co., Ltd Japan)

**Session Classification:** SRF 1

Contribution ID: 4

Type: **not specified**

## **Recent SRF activities toward High-Q/High-G at KEK**

*Thursday, 25 October 2018 10:10 (20 minutes)*

**Presenter:** UMEMORI, Kensei (KEK)

**Session Classification:** SRF 1

Contribution ID: 5

Type: **not specified**

## Status of ILC Cost Reduction

*Thursday, 25 October 2018 09:50 (20 minutes)*

**Presenter:** GRASELLINO, Anna Grassellino (Fermilab)

**Session Classification:** SRF 1

Contribution ID: 6

Type: **not specified**

## **Recent progress and future prospect in KEK/STF**

*Thursday, 25 October 2018 09:30 (20 minutes)*

**Presenter:** HAYANO, Hitoshi

**Session Classification:** SRF 1

Contribution ID: 7

Type: **not specified**

## High Q/High gradient at Jlab

*Thursday, 25 October 2018 11:00 (20 minutes)*

**Presenter:** PALCZEWSKI, ari (Jefferson National Laboratory)

**Session Classification:** SRF 2



Contribution ID: 8

Type: **not specified**

## **Status Update on the Nitrogen Infusion R&D at DESY**

*Thursday, 25 October 2018 11:20 (20 minutes)*

**Presenter:** WENSKAT, Marc (DESY)

**Session Classification:** SRF 2

Contribution ID: 9

Type: **not specified**

## Update from XFEL

*Thursday, 25 October 2018 12:00 (20 minutes)*

**Presenter:** Dr OMET, Mathieu (Deutsches Elektronen-Synchrotron)

**Session Classification:** SRF 2

Contribution ID: **10**

Type: **not specified**

## **Niobium hydride studies using AFM/MFM**

*Thursday, 25 October 2018 11:40 (20 minutes)*

**Presenter:** SUNG, Zuhawn (Fermilab)

**Session Classification:** SRF 2

Contribution ID: **11**

Type: **not specified**

## **Discussion**

*Thursday, 25 October 2018 12:20 (10 minutes)*

**Session Classification:** SRF 2

Contribution ID: 12

Type: **not specified**

## Plasma processing at Fermilab

*Thursday, 25 October 2018 14:20 (20 minutes)*

**Presenter:** GIACCONE , Bianca (Fermilab)

**Session Classification:** SRF 3

Contribution ID: **13**

Type: **not specified**

## **Removed**

*Thursday, 25 October 2018 14:40 (20 minutes)*

**Session Classification:** SRF 3

Contribution ID: 14

Type: **not specified**

## **Nb<sub>3</sub>Sn R&D at Fermilab**

*Thursday, 25 October 2018 15:00 (20 minutes)*

**Presenter:** POSEN, Sam (Fermilab)

**Session Classification:** SRF 3

Contribution ID: 15

Type: **not specified**

## **Nb<sub>3</sub>Sn R&D at Cornell**

*Thursday, 25 October 2018 15:20 (20 minutes)*

**Presenter:** PORTER, Ryan (Cornell University)

**Session Classification:** SRF 3



Contribution ID: 16

Type: **not specified**

## **N-doping R&D at Darmstadt**

**Presenter:** GREWE, Ruben (TU Darmstadt)

**Session Classification:** SRF 3

Contribution ID: 17

Type: **not specified**

## Discussion

*Thursday, 25 October 2018 15:40 (20 minutes)*

**Session Classification:** SRF 3

Contribution ID: **18**

Type: **not specified**

## **Update and Lessons learned from LCLS-II CM production**

*Thursday, 25 October 2018 16:35 (20 minutes)*

**Presenter:** BURRILL, Andrew

**Session Classification:** SRF 4

Contribution ID: 19

Type: **not specified**

## **Recent progress and future prospect in KEK/STF**

**Presenter:** HAYANO, Hitoshi

**Session Classification:** SRF 4

Contribution ID: 20

Type: **not specified**

## **Power coupler R&D in KEK/COI**

*Thursday, 25 October 2018 16:55 (20 minutes)*

**Presenter:** YAMAMOTO, Yasuchika (KEK)

**Session Classification:** SRF 4

Contribution ID: 21

Type: **not specified**

## **LCLS-II Tuner and Coupler Performance in CM**

*Thursday, 25 October 2018 17:15 (20 minutes)*

**Presenter:** SOLYAK, Nikolay (FNAL)

**Session Classification:** SRF 4

Contribution ID: 22

Type: **not specified**

## Discussion

*Thursday, 25 October 2018 17:35 (30 minutes)*

**Session Classification:** SRF 4

Contribution ID: 23

Type: **not specified**

## Welcome (Local Committee)

*Monday, 22 October 2018 09:30 (5 minutes)*

**Presenter:** WHITE, Andrew (University of Texas at Arlington (US))

**Session Classification:** Opening Plenary



Contribution ID: 24

Type: **not specified**

## Welcome to UTA

*Monday, 22 October 2018 09:35 (15 minutes)*

Dr. Duane Dimos (UTA VP Research)  
Dr. Morteza Khaledi (Dean, College of Science)  
Dr. Alex Weiss (Chair, UTA Physics)

**Session Classification:** Opening Plenary

Contribution ID: 25

Type: **not specified**

## **Update on ILC Status in Japan**

*Monday, 22 October 2018 09:50 (30 minutes)*

**Presenter:** YAMASHITA, Satoru (U. Tokyo)

**Session Classification:** Opening Plenary

Contribution ID: 26

Type: **not specified**

## **Update on LC activities in Europe**

*Monday, 22 October 2018 10:20 (15 minutes)*

**Presenter:** BUESSER, Karsten (DESY)

**Session Classification:** Opening Plenary

Contribution ID: 27

Type: **not specified**

## **Update on LC activities in US**

*Monday, 22 October 2018 10:35 (15 minutes)*

**Presenter:** WHITE, Andrew (University of Texas at Arlington (US))

**Session Classification:** Opening Plenary

Contribution ID: 28

Type: **not specified**

## US-Japan Caucus

**Session Classification:** Plenary 2

Contribution ID: 29

Type: **not specified**

## **LCC Report**

*Monday, 22 October 2018 11:30 (20 minutes)*

**Presenter:** EVANS, Lyn (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** Plenary 2

Contribution ID: **30**

Type: **not specified**

## **ILC Accelerator**

*Monday, 22 October 2018 11:50 (25 minutes)*

**Presenter:** MICHIZONO, Shinichiro (KEK)

**Session Classification:** Plenary 2

Contribution ID: **31**

Type: **not specified**

## **CLIC Accelerator**

*Monday, 22 October 2018 12:15 (25 minutes)*

**Presenter:** BURROWS, Philip

**Session Classification:** Plenary 2



Contribution ID: **32**

Type: **not specified**

## Precision Higgs

*Monday, 22 October 2018 13:45 (25 minutes)*

**Presenter:** TIAN, Junping (University of Tokyo)

**Session Classification:** Plenary 3

Contribution ID: 33

Type: **not specified**

## Exotic Higgs Decays

*Monday, 22 October 2018 14:10 (25 minutes)*

**Presenter:** SHELTON, Jessie (Yale U.)

**Session Classification:** Plenary 3

Contribution ID: 34

Type: **not specified**

## $e^+e^- \rightarrow f\bar{f}$

*Monday, 22 October 2018 14:35 (25 minutes)*

**Presenter:** PESKIN, Michael

**Session Classification:** Plenary 3

Contribution ID: 35

Type: **not specified**

## Top Physics

*Monday, 22 October 2018 15:00 (25 minutes)*

**Presenter:** VOS, Marcel (IFIC (UVEG/CSIC) Valencia)

**Session Classification:** Plenary 3

Contribution ID: 36

Type: **not specified**

## **SiD detector status and plans**

*Monday, 22 October 2018 16:00 (25 minutes)*

**Presenter:** STRUBE, Jan (PNNL)

**Session Classification:** Plenary 4

Contribution ID: 37

Type: **not specified**

## **ILD detector status and plans**

*Monday, 22 October 2018 16:25 (25 minutes)*

**Presenter:** LIST, Jenny (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Plenary 4

Contribution ID: **38**

Type: **not specified**

## **CLIC detector status and plans**

*Monday, 22 October 2018 16:50 (25 minutes)*

**Presenter:** ROBSON, Aidan (University of Glasgow (GB))

**Session Classification:** Plenary 4

Contribution ID: 39

Type: **not specified**

## Tracking/vertexing R&D update

*Monday, 22 October 2018 17:15 (25 minutes)*

**Presenter:** STANITZKI, Marcel

**Session Classification:** Plenary 4



Contribution ID: 40

Type: **not specified**

## Calorimetry R&D update

*Monday, 22 October 2018 17:40 (25 minutes)*

**Presenter:** JEANS, Daniel

**Session Classification:** Plenary 4

Contribution ID: 41

Type: **not specified**

## **LCB Report**

*Friday, 26 October 2018 10:40 (15 minutes)*

**Presenter:** NAKADA, T. (EPFL, Lausanne)

**Session Classification:** Final plenary

Contribution ID: 42

Type: **not specified**

## **Japan timeline moving forward**

*Friday, 26 October 2018 10:55 (20 minutes)*

**Presenter:** Dr YAMAUCHI, Masanori

**Session Classification:** Final plenary

Contribution ID: 43

Type: **not specified**

## **European Strategy update for ILC**

*Friday, 26 October 2018 11:15 (20 minutes)*

**Presenter:** FUSTER VERDU, Juan (Univ. of Valencia and CSIC (ES))

**Session Classification:** Final plenary

Contribution ID: 44

Type: **not specified**

## **European Strategy update for CLIC**

*Friday, 26 October 2018 11:35 (20 minutes)*

**Presenter:** ROBSON, Aidan (University of Glasgow (GB))

**Session Classification:** Final plenary

Contribution ID: 45

Type: **not specified**

## **US forward view on future major projects**

*Friday, 26 October 2018 11:55 (20 minutes)*

**Presenter:** Dr FALL, Chris (US Department of Energy)

**Session Classification:** Final plenary

Contribution ID: 46

Type: **not specified**

## Final summary/vision

*Friday, 26 October 2018 12:15 (30 minutes)*

**Presenter:** TAYLOR, Geoffrey Norman (University of Melbourne (AU))

**Session Classification:** Final plenary

Contribution ID: 47

Type: **not specified**

## **Simulation of Intensity dependence for ILC250 IP beam size**

*Tuesday, 23 October 2018 16:30 (40 minutes)*

**Presenter:** OKUGI, Toshiyuki (KEK)

**Session Classification:** BDS 1



Contribution ID: 48

Type: **not specified**

## **Study of Pair-Monitor for ILC using Deep Learning**

*Tuesday, 23 October 2018 17:10 (20 minutes)*

**Presenter:** Mr KOBAYASHI, Yosuke (Tohoku University)

**Session Classification:** BDS 1

Contribution ID: 49

Type: **not specified**

## **ILC Collimator Backgrounds**

*Tuesday, 23 October 2018 17:30 (20 minutes)*

**Presenter:** WHITE, Glen (SLAC)

**Session Classification:** BDS 1

Contribution ID: 50

Type: **not specified**

## **CLIC FFS 2-beam tuning with GM**

*Wednesday, 24 October 2018 08:30 (20 minutes)*

**Presenter:** MARIN LACOMA, Edu (CERN)

**Session Classification:** BDS 2

Contribution ID: 51

Type: **not specified**

## **New FFS tuning techniques and sensitivity to energy and BPM calibration**

*Wednesday, 24 October 2018 08:50 (20 minutes)*

**Presenter:** ORGEN, Jim (CERN)

**Session Classification:** BDS 2

Contribution ID: 52

Type: **not specified**

## **Optimizing CLIC 380GeV FFS with $L^*=6m$**

*Wednesday, 24 October 2018 09:10 (20 minutes)*

**Presenter:** Mr PASTUSHENKO, Andrii (Université Paris-Saclay (FR))

**Session Classification:** BDS 2

Contribution ID: 53

Type: **not specified**

## **Crystal focusing for FFS**

*Wednesday, 24 October 2018 09:30 (20 minutes)*

**Presenter:** CILENTO, Vera (Universita del Sannio (IT))

**Session Classification:** BDS 2

Contribution ID: 54

Type: **not specified**

## **Towards demonstrating CLIC FFS in SuperKEKB**

*Wednesday, 24 October 2018 11:00 (20 minutes)*

**Presenter:** THRANE, Paul Conrad Vaagen (Norwegian University of Science and Technology (NO))

**Session Classification:** BDS 3

Contribution ID: 55

Type: **not specified**

## **Impact of energy distributions on CLIC performance**

**Session Classification:** BDS 3



Contribution ID: 56

Type: **not specified**

## **Status and plans for the ATF2 ultra-low beta\* optics**

*Wednesday, 24 October 2018 11:20 (20 minutes)*

**Presenter:** CILENTO, Vera (Universita del Sannio (IT))

**Session Classification:** BDS 3

Contribution ID: 57

Type: **not specified**

## **Design and test of a very low-latency BPM signal processor for use in the CLIC IP FB system**

*Wednesday, 24 October 2018 11:40 (20 minutes)*

**Presenter:** Dr BETT, Douglas (University of Oxford)

**Session Classification:** BDS 3

Contribution ID: 58

Type: **not specified**

## **Fingerprinting models of first order electroweak phase transition using the synergy between future collider and gravitational wave experiments**

*Tuesday, 23 October 2018 08:30 (25 minutes)*

**Presenter:** Dr KAKIZAKI, Mitsuru (University of Toyama)

**Session Classification:** Higgs/EW1

Contribution ID: 59

Type: **not specified**

## **Higgs and EW physics at HL-LHC & HE-LHC**

*Tuesday, 23 October 2018 08:55 (25 minutes)*

**Presenter:** DILDICK, Sven

**Session Classification:** Higgs/EW1

Contribution ID: **60**

Type: **not specified**

## **ATLAS and CMS Higgs results from Run-2**

*Tuesday, 23 October 2018 09:20 (25 minutes)*

**Presenters:** ATLAS; BELL, Andrew

**Session Classification:** Higgs/EW1

Contribution ID: **61**

Type: **not specified**

## **Status and prospects for measurement of the bottom-Higgs coupling at LHC**

*Tuesday, 23 October 2018 09:45 (25 minutes)*

**Presenter:** WANG, Sean Jiun

**Session Classification:** Higgs/EW1

Contribution ID: 62

Type: **not specified**

## **Di-Higgs Searches at the ATLAS Detector**

*Tuesday, 23 October 2018 10:10 (25 minutes)*

**Presenter:** DELANA, Allison

**Session Classification:** Higgs/EW1

Contribution ID: 63

Type: **not specified**

## **MSSM Higgs production at ILC/CLIC and Higgs decays in the MSSM and the NMSSM and MSSM**

*Tuesday, 23 October 2018 11:00 (35 minutes)*

**Presenter:** HEINEMEYER, Sven

**Session Classification:** Higgs/EW 2 Joint with BSM



Contribution ID: 64

Type: **not specified**

# Learning from Higgs Physics at Future Higgs Factories

*Tuesday, 23 October 2018 11:35 (25 minutes)*

**Presenter:** SU, Shufang (University of Arizona)

**Session Classification:** Higgs/EW 2 Joint with BSM

Contribution ID: 65

Type: **not specified**

## **The Path to 0:01% Theoretical Luminosity Precision for the FCCee**

*Tuesday, 23 October 2018 12:00 (25 minutes)*

**Presenters:** WARD, B.F.L.; WARD, Bennie (Baylor University (US))

**Session Classification:** Higgs/EW 2 Joint with BSM

Contribution ID: 66

Type: **not specified**

## **Electric dipole moments and dark matter in a CP violating MSSM**

*Wednesday, 24 October 2018 08:30 (25 minutes)*

**Presenter:** SHINDOU, Tetsuo (Kogakuin University)

**Session Classification:** Higgs/EW 3

Contribution ID: 67

Type: **not specified**

## **Exploring first order phase transition in U(1) extended models by complementarity between collider measurements and cosmological observations**

*Wednesday, 24 October 2018 08:55 (25 minutes)*

**Presenter:** MATSUI, Toshinori (University of Toyama)

**Session Classification:** Higgs/EW 3

Contribution ID: **68**

Type: **not specified**

## **Mini review: potential of BSM searches at the CEPC**

*Wednesday, 24 October 2018 09:20 (45 minutes)*

**Presenter:** WANG, LianTao (University of Chicago)

**Session Classification:** Higgs/EW 3

Contribution ID: 69

Type: **not specified**

## **Boosted H->bb Topologies with the ATLAS Experiment at the Large Hadron Collider**

*Wednesday, 24 October 2018 10:05 (25 minutes)*

**Presenter:** SEKULA, Stephen Jacob (Southern Methodist University (US))

**Session Classification:** Higgs/EW 3

Contribution ID: 70

Type: **not specified**

## **Prospects of measuring Higgs boson decays into muon pairs at the ILC**

*Thursday, 25 October 2018 10:10 (25 minutes)*

**Presenter:** KAWADA, Shin-ichi (DESY)

**Session Classification:** Higgs/EW 4

Contribution ID: 71

Type: **not specified**

## SMEFT@LHC

**Presenter:** TROTT, Michael Robert

**Session Classification:** Higgs/EW 4



Contribution ID: 72

Type: **not specified**

## **Study of $H\gamma Z$ coupling using $e^+e^- \rightarrow \gamma H$ at the ILC**

**Presenter:** Ms AOKI, Yumi (SOKENDAI,KEK)

**Session Classification:** Higgs/EW 4

Contribution ID: 73

Type: **not specified**

## **Radiative corrections to triple Higgs coupling and electroweak phase transition: 2-loop analysis**

*Thursday, 25 October 2018 08:30 (25 minutes)*

**Presenter:** SENAHA, Eibun (KIAS)

**Session Classification:** Higgs/EW 4

Contribution ID: 74

Type: **not specified**

## **One-loop corrected Higgs boson decay rates in various extended Higgs models**

*Thursday, 25 October 2018 08:55 (25 minutes)*

**Presenter:** SAKURAI, Kodai (University of Toyama)

**Session Classification:** Higgs/EW 4

Contribution ID: 75

Type: **not specified**

## **Study of fermion pair production events at the ILC with center of mass energy of 250 GeV**

*Thursday, 25 October 2018 09:20 (25 minutes)*

**Presenter:** DEGUCHI, Yuto

**Session Classification:** Higgs/EW 4

Contribution ID: 76

Type: **not specified**

## **Measurement of the Left-Right Asymmetry in $e^+e^- \rightarrow \gamma Z$ at the 250 GeV ILC**

*Thursday, 25 October 2018 09:45 (25 minutes)*

**Presenter:** UENO, Takayuki (Tohoku University)

**Session Classification:** Higgs/EW 4

Contribution ID: 77

Type: **not specified**

## SMEFT@LHC

*Thursday, 25 October 2018 11:00 (35 minutes)*

**Presenter:** TROTT, Michael Robert

**Session Classification:** Higgs/EW 5

Contribution ID: 78

Type: **not specified**

## Study of $H\gamma Z$ coupling using $e^+e^- \rightarrow \gamma H$ at the ILC

*Thursday, 25 October 2018 11:35 (25 minutes)*

**Presenter:** AOKI, Yumi (SOKENDAI,KEK)

**Session Classification:** Higgs/EW 5

Contribution ID: 79

Type: **not specified**

## Study of $H \rightarrow Z\gamma$ branching ratio at the ILC 250GeV

*Thursday, 25 October 2018 12:00 (25 minutes)*

**Presenters:** TIAN, Junping (University of Tokyo); FUJII, Kazuki (University of Tokyo)

**Session Classification:** Higgs/EW 5



Contribution ID: **80**

Type: **not specified**

## **Measurement of the H $\rightarrow$ WW\* decay at 250 GeV ILD**

*Thursday, 25 October 2018 12:25 (25 minutes)*

**Presenter:** PANDUROVIC, Mila (University of Belgrade (RS))

**Session Classification:** Higgs/EW 5

Contribution ID: 81

Type: **not specified**

## **Prospects of measuring Higgs boson decays into muon pairs at the ILC**

**Presenter:** Dr KAWADA, Shin-ichi (DESY)

**Session Classification:** Higgs/EW 5

Contribution ID: **82**

Type: **not specified**

## **Introduction**

*Wednesday, 24 October 2018 08:30 (15 minutes)*

This short talk introduces the session and includes the complete Agenda for the day.

**Presenter:** MONTGOMERY, Hugh (Jefferson Lab)

**Session Classification:** Industry

Contribution ID: **83**

Type: **not specified**

## **ILC Dominant Technologies**

*Wednesday, 24 October 2018 08:45 (30 minutes)*

**Presenter:** ROSS, Marc

**Session Classification:** Industry

Contribution ID: **84**

Type: **not specified**

## **Regional report - Europe**

*Wednesday, 24 October 2018 09:15 (30 minutes)*

**Presenter:** NAPOLY, Olivier

**Session Classification:** Industry

Contribution ID: 85

Type: **not specified**

## **Regional report - China**

*Wednesday, 24 October 2018 09:45 (30 minutes)*

**Presenter:** GAO, Jie (IHEP)

**Session Classification:** Industry

Contribution ID: **86**

Type: **not specified**

## **Japan - AAA status**

**Session Classification:** Industry

Contribution ID: 87

Type: **not specified**

## **Regional report - Japan - AAA status**

*Wednesday, 24 October 2018 11:00 (20 minutes)*

**Presenter:** MATSUOKA, Masanori

**Session Classification:** Industry



Contribution ID: **88**

Type: **not specified**

## **Regional report - Japan - Tohoku/Iwate**

*Wednesday, 24 October 2018 11:20 (20 minutes)*

**Presenter:** YOSHIOKA, Masakazu (KEK)

**Session Classification:** Industry

Contribution ID: 89

Type: **not specified**

## **Regional report - North America**

*Wednesday, 24 October 2018 11:40 (30 minutes)*

**Presenter:** GINSBURG, Camille

**Session Classification:** Industry

Contribution ID: 90

Type: **not specified**

## **China - Chinese Industry**

*Wednesday, 24 October 2018 13:10 (30 minutes)*

**Presenter:** PAN, Qinyan

**Session Classification:** Industry

Contribution ID: 91

Type: **not specified**

## **European Industry - SigmaPhi Experience**

*Wednesday, 24 October 2018 13:40 (20 minutes)*

**Presenter:** CAVELLIER, Mattieu

**Session Classification:** Industry

Contribution ID: 92

Type: **not specified**

## **European industry - INEUSTAR**

*Wednesday, 24 October 2018 14:00 (20 minutes)*

**Presenter:** CACERES, Javier

**Session Classification:** Industry

Contribution ID: 93

Type: **not specified**

## **Japan: Japan/Tohoku Industry - Wooden building technology for ILC**

*Wednesday, 24 October 2018 14:20 (20 minutes)*

**Presenter:** ADACHI, Hiroyuki

**Session Classification:** Industry

Contribution ID: 94

Type: **not specified**

## **Japan: Japan/Tohoku Industry - R&D of perm. magnets for ILC**

**Presenter:** MEGURO, Kazuyuki

**Session Classification:** Industry

Contribution ID: 95

Type: **not specified**

## **10. North American Experience working with labs - NOR-CAL**

**Presenter:** GREUEL, Steve

**Session Classification:** Industry



Contribution ID: 96

Type: **not specified**

## **North American Experience working with labs - ROARK**

*Wednesday, 24 October 2018 15:50 (20 minutes)*

**Presenter:** GEARING , Paul

**Session Classification:** Industry

Contribution ID: 97

Type: **not specified**

## **North American Experience working with labs - Milhous**

*Wednesday, 24 October 2018 16:10 (20 minutes)*

**Presenter:** MEISSNER, Joel

**Session Classification:** Industry

Contribution ID: 98

Type: **not specified**

## Prospects and Timeline for ILC

*Wednesday, 24 October 2018 16:30 (30 minutes)*

**Presenter:** MNICH, Joachim (Deutsches Elektronen Synchrotron (DESY))

**Session Classification:** Industry

Contribution ID: 99

Type: **not specified**

## **Japan: Japan/Tohoku Industry - R&D for Beam Transport system using perm. magnets for ILC**

*Wednesday, 24 October 2018 14:40 (20 minutes)*

**Presenter:** MEGURO, Kazuyuki

**Session Classification:** Industry

Contribution ID: **100**

Type: **not specified**

## **North American Experience working with labs NOR-CAL**

**Presenter:** GREUEL, Steve

**Session Classification:** Industry

Contribution ID: **101**

Type: **not specified**

## **Energy Saving on RF System**

*Wednesday, 24 October 2018 14:00 (20 minutes)*

**Presenter:** FUWA, Yasuhiro (Kyoto University)

**Session Classification:** CFS 1

Contribution ID: **102**

Type: **not specified**

## **Study on the Thin Film Superconducting structure**

*Wednesday, 24 October 2018 14:20 (20 minutes)*

**Presenter:** IWASHITA, yoshihisa (Kyoto Univ.)

**Session Classification:** CFS 1

Contribution ID: **103**

Type: **not specified**

## **Study on Laser and Plasma Beam Dump for the ILC**

*Wednesday, 24 October 2018 14:40 (20 minutes)*

**Presenter:** KOGA, James (QST)

**Session Classification:** CFS 1



Contribution ID: **104**

Type: **not specified**

## **Green ILC design for Kitakami site**

*Wednesday, 24 October 2018 15:00 (20 minutes)*

**Presenter:** YOSHIOKA, Masakazu (KEK)

**Session Classification:** CFS 1

Contribution ID: **105**

Type: **not specified**

## **Design check of Main beam dump**

*Wednesday, 24 October 2018 16:00 (20 minutes)*

**Presenter:** Mr MORIKAWA, Yu (KEK)

**Session Classification:** CFS 2

Contribution ID: **106**

Type: **not specified**

## **Design of other beam dumps**

*Wednesday, 24 October 2018 16:20 (20 minutes)*

**Presenter:** MORIKAWA, Yu (KEK)

**Session Classification:** CFS 2

Contribution ID: **107**

Type: **not specified**

## **beam dump room insertion into tunnel**

*Wednesday, 24 October 2018 16:40 (20 minutes)*

**Presenter:** HAYANO, Hitoshi

**Session Classification:** CFS 2

Contribution ID: **108**

Type: **not specified**

## **Cryomodule WaveGuide installation consideration in tunnel**

*Thursday, 25 October 2018 11:00 (20 minutes)*

**Presenter:** MATSUMOTO, Toshihiro

**Session Classification:** CFS 3

Contribution ID: **109**

Type: **not specified**

## **LHC/FCC/CLIC CFS study updates**

*Thursday, 25 October 2018 11:20 (20 minutes)*

**Presenter:** STUART, Matthew James (CERN)

**Session Classification:** CFS 3

Contribution ID: 110

Type: **not specified**

## **CFS risks (radiation, water, black-out, etc) discussed at Academic committee**

*Thursday, 25 October 2018 16:30 (20 minutes)*

**Presenter:** TERUNUMA, Nobuhiro (KEK)

**Session Classification:** CFS 4

Contribution ID: 111

Type: **not specified**

## **Detector Utilities including gantry crane issues**

*Thursday, 25 October 2018 16:50 (20 minutes)*

**Presenter:** SUGIMOTO, Yasuhiro (KEK)

**Session Classification:** CFS 4



Contribution ID: 112

Type: **not specified**

## **CMS gantry crane experience**

*Thursday, 25 October 2018 17:10 (20 minutes)*

**Presenter:** STUART, Matthew James (CERN)

**Session Classification:** CFS 4

Contribution ID: **113**

Type: **not specified**

## **Seismic-base-isolation for detectors and accelerator**

*Thursday, 25 October 2018 17:30 (20 minutes)*

**Presenter:** SANUKI, Tomoyuki (Tohoku University)

**Session Classification:** CFS 4

Contribution ID: 114

Type: **not specified**

## **CepC detector calorimetry**

**Presenter:** ZHANG, Yunlong

**Session Classification:** Cal/muon 1

Contribution ID: 115

Type: **not specified**

## The CMS Calorimeters: Phase 2 upgrade

*Tuesday, 23 October 2018 09:00 (30 minutes)*

**Presenter:** SEFKOW, Felix (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Cal/muon 1

Contribution ID: **116**

Type: **not specified**

## **ATLAS Calorimeter system: Run 2 performance, Phase-1 and Phase-2 upgrades**

*Tuesday, 23 October 2018 08:30 (30 minutes)*

**Presenter:** HADAVAND, Haleh (UTA)

**Session Classification:** Cal/muon 1

Contribution ID: 117

Type: **not specified**

## **Luminometers for future linear collider experiments**

*Tuesday, 23 October 2018 09:30 (30 minutes)*

**Presenter:** ABUSLEME HOFFMAN, Angel Christian (Pontifical Catholic University of Chile (CL))

**Session Classification:** Cal/muon 1

Contribution ID: **118**

Type: **not specified**

## **The CMS Muon Detectors: Phase 1 and Phase 2 upgrade**

*Tuesday, 23 October 2018 10:00 (30 minutes)*

**Presenter:** SAFONOV, Alexei

**Session Classification:** Cal/muon 1

Contribution ID: **119**

Type: **not specified**

## **Intro to CALICE/ILD SiW Ecal and recent testbeam results**

*Tuesday, 23 October 2018 14:00 (30 minutes)*

**Presenter:** IRLES, Adrian (LAL)

**Session Classification:** Cal/muon 2



Contribution ID: 120

Type: **not specified**

## **CALICE/ILD SiW-ECAL: Models and First Tests of a Long Slab**

*Tuesday, 23 October 2018 14:30 (30 minutes)*

**Presenter:** BOUDRY, Vincent (LLR)

**Session Classification:** Cal/muon 2

Contribution ID: 121

Type: **not specified**

## **CALICE/ILD SiW Ecal slab production and sensor development**

*Tuesday, 23 October 2018 15:00 (30 minutes)*

**Presenter:** SUEHARA, Taikan (Kyushu University)

**Session Classification:** Cal/muon 2

Contribution ID: 122

Type: **not specified**

## **Compact CALICE/ILD SiW Ecal electronics**

*Tuesday, 23 October 2018 15:30 (30 minutes)*

**Presenter:** POESCHL, Roman (Centre National de la Recherche Scientifique (FR))

**Session Classification:** Cal/muon 2

Contribution ID: 123

Type: **not specified**

## **Sampling ECAL with segmented lead glass absorber**

*Wednesday, 24 October 2018 08:30 (24 minutes)*

**Presenter:** Mr TERADA, Reima (Shinshu University)

**Session Classification:** Cal/Muon 3

Contribution ID: 124

Type: **not specified**

## **Performance evaluation of prototype of ScECAL with high gain MPPC**

*Wednesday, 24 October 2018 08:54 (24 minutes)*

**Presenter:** YOSHIMURA, Yuya

**Session Classification:** Cal/Muon 3

Contribution ID: 125

Type: **not specified**

## **Construction and Test of the Highly Granular SiPM-on-Tile Calorimeter Prototype**

*Wednesday, 24 October 2018 09:18 (24 minutes)*

**Presenter:** SEFKOW, Felix (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Cal/Muon 3

Contribution ID: 126

Type: **not specified**

## **First Look into Test Beam Data Taken with the CALICE SiPM-on-Tile AHCAL Prototype**

*Wednesday, 24 October 2018 09:42 (24 minutes)*

**Presenter:** KRUEGER, Katja (DESY)

**Session Classification:** Cal/Muon 3

Contribution ID: 127

Type: **not specified**

## Conceptual Design of CEPC Muon Detector

*Thursday, 25 October 2018 14:00 (30 minutes)*

**Presenter:** LI, Liang (Shanghai Jiao Tong University)

**Session Classification:** Cal/Muon 5



Contribution ID: 128

Type: **not specified**

## **Perfoces of the ATLAS Muon system during the Run-II data taking and upgrade plans towards High-Luminosity LHC**

**Presenter:** TBD

**Session Classification:** Cal/Muon 5

Contribution ID: **129**

Type: **not specified**

## **CMS Muon Detectors: Run 2 experience**

*Thursday, 25 October 2018 14:30 (30 minutes)*

**Presenter:** THOMSON, Adrian

**Session Classification:** Cal/Muon 5

Contribution ID: 130

Type: **not specified**

# The CMS Calorimeters: Run 2 Experience and Phase 1

*Thursday, 25 October 2018 15:00 (30 minutes)*

**Presenter:** ADAMS, Todd (Florida State University (US))

**Session Classification:** Cal/Muon 5

Contribution ID: 131

Type: **not specified**

## **North American Experience working with labs - NOR-CAL**

*Wednesday, 24 October 2018 15:00 (20 minutes)*

**Presenter:** GREUEL, Steve

**Session Classification:** Industry

Contribution ID: 132

Type: **not specified**

## **ILD MC production**

*Tuesday, 23 October 2018 16:30 (20 minutes)*

**Presenter:** MIYAMOTO, Akiya

**Session Classification:** Sim/Reco/Perf 1

Contribution ID: 133

Type: **not specified**

## **LCIO in Jupyter notebooks**

*Tuesday, 23 October 2018 16:50 (20 minutes)*

**Presenter:** STRUBE, Jan (PNNL)

**Session Classification:** Sim/Reco/Perf 1

Contribution ID: 134

Type: **not specified**

## **Belle II computing**

*Tuesday, 23 October 2018 17:10 (20 minutes)*

**Presenter:** HARA, Takanori (KEK)

**Session Classification:** Sim/Reco/Perf 1

Contribution ID: 135

Type: **not specified**

## Dune ML

*Thursday, 25 October 2018 09:00 (20 minutes)*

**Presenter:** TERA0, Kazu (SLAC)

**Session Classification:** Sim/Reco/Perf 3



Contribution ID: 136

Type: **not specified**

## Automatic Colorization for Jet Clustering

*Thursday, 25 October 2018 09:20 (20 minutes)*

**Presenter:** Dr KURATA, Masakazu (KEK)

**Session Classification:** Sim/Reco/Perf 3

Contribution ID: 137

Type: **not specified**

## **reconstruction of $e^+ e^- \rightarrow \tau^+ \tau^-$ in ILD**

*Thursday, 25 October 2018 09:40 (20 minutes)*

**Presenter:** Mr YUMINO, Keita (SOKENDAI)

**Session Classification:** Sim/Reco/Perf 3

Contribution ID: 138

Type: **not specified**

## Quark charge identification for $e^+e^-$ to $qq$ study

*Thursday, 25 October 2018 10:00 (20 minutes)*

**Presenter:** UESUGI, Yuto (Kyushu university)

**Session Classification:** Sim/Reco/Perf 3

Contribution ID: 139

Type: **not specified**

## **Jet energy studies with ILD**

**Presenter:** ETE, Remi (DESY)

**Session Classification:** Sim/Reco/Perf 2

Contribution ID: 140

Type: **not specified**

## **Jet Performance and Validation at CLIC**

**Presenter:** SIMON, Frank

**Session Classification:** Sim/Reco/Perf 2

Contribution ID: 141

Type: **not specified**

## **Simulation status of ILD ScECAL**

**Presenter:** TERADA, Reima (Shinshu University)

**Session Classification:** Sim/Reco/Perf 2

Contribution ID: 142

Type: **not specified**

## Depth and sampling choices for SiD ECAL

**Presenter:** BRAU, Jim (University of Oregon (US))

**Session Classification:** Sim/Reco/Perf 2

Contribution ID: 143

Type: **not specified**

## **LSF Shape Cavity Development: Recent Results and Future Plan**

*Thursday, 25 October 2018 14:00 (20 minutes)*

**Presenter:** GENG, Rongli (Jefferson Lab)

**Session Classification:** SRF 3



Contribution ID: 144

Type: **not specified**

## Jet energy studies with ILD

*Thursday, 25 October 2018 11:00 (20 minutes)*

**Presenter:** ETE, Remi (DESY)

**Session Classification:** Sim/Reco/Perf 4

Contribution ID: 145

Type: **not specified**

## **Jet Performance and Validation at CLIC**

*Thursday, 25 October 2018 11:20 (20 minutes)*

**Presenter:** SIMON, Frank

**Session Classification:** Sim/Reco/Perf 4

Contribution ID: 146

Type: **not specified**

## **Simulation status of ILD ScECAL**

*Thursday, 25 October 2018 11:40 (20 minutes)*

**Presenter:** TERADA, Reima (Shinshu University)

**Session Classification:** Sim/Reco/Perf 4

Contribution ID: 147

Type: **not specified**

## **Depth and sampling choices for SiD ECAL**

*Thursday, 25 October 2018 12:00 (20 minutes)*

**Presenter:** BRAU, Jim (University of Oregon (US))

**Session Classification:** Sim/Reco/Perf 4

Contribution ID: 148

Type: **not specified**

## **HOMs measurements in 1.3GHz cavities for LCLSD-II**

*Tuesday, 23 October 2018 16:30 (25 minutes)*

**Primary author:** LUNIN, Andrei (Fermilab)

**Presenter:** LUNIN, Andrei (Fermilab)

**Session Classification:** BD&RTML 1

Contribution ID: 149

Type: **not specified**

## **LCLS-II Cryomodule performance**

*Tuesday, 23 October 2018 16:55 (25 minutes)*

**Presenter:** SOLYAK, Nikolay (FNAL)

**Session Classification:** BD&RTML 1

Contribution ID: 150

Type: **not specified**

## **Lattice decks status for ILC 250 GeV**

*Tuesday, 23 October 2018 17:20 (25 minutes)*

**Presenter:** KUBO, Kiyoshi (KEK)

**Session Classification:** BD&RTML 1

Contribution ID: 151

Type: **not specified**

## **Ultra-compressed low-power beam parameter options for a future LC**

*Thursday, 25 October 2018 08:30 (25 minutes)*

**Primary author:** YAKIMENKO, Vitaly (BNL)

**Presenter:** YAKIMENKO, Vitaly (BNL)

**Session Classification:** BD&RTML 2 joint with BDS



Contribution ID: 152

Type: **not specified**

## **Magnetic Stray-fields measurements and countermeasures**

*Thursday, 25 October 2018 08:55 (25 minutes)*

**Primary author:** GOHIL, Chetan (University of Oxford (GB))

**Presenter:** GOHIL, Chetan (University of Oxford (GB))

**Session Classification:** BD&RTML 2 joint with BDS

Contribution ID: 153

Type: **not specified**

## Energy spread optimisation in the CLIC ML at 380 GeV

*Thursday, 25 October 2018 09:20 (25 minutes)*

**Primary author:** Dr BLASKOVIC KRALJEVIC, Neven (CERN)

**Presenter:** Dr BLASKOVIC KRALJEVIC, Neven (CERN)

**Session Classification:** BD&RTML 2 joint with BDS

Contribution ID: 154

Type: **not specified**

## Physics summary

*Friday, 26 October 2018 09:45 (25 minutes)*

**Presenter:** MEADE, Patrick (Stony Brook University)

**Session Classification:** Plenary 5

Contribution ID: 155

Type: **not specified**

## **Address by DIET member Hon. Shintaro Ito**

*Friday, 26 October 2018 09:00 (20 minutes)*

**Presenter:** ITO, Shintaro (Japanese DIET)

**Session Classification:** Plenary 5

Contribution ID: 156

Type: **not specified**

## Detector summary

*Friday, 26 October 2018 08:30 (25 minutes)*

**Presenter:** SUEHARA, Taikan (Kyushu University)

**Session Classification:** Plenary 5

Contribution ID: 157

Type: **not specified**

## Accelerator summary

*Friday, 26 October 2018 09:20 (25 minutes)*

**Presenter:** POSEN, Sam (Fermilab)

**Session Classification:** Plenary 5

Contribution ID: 158

Type: **not specified**

## **Status of intensity dependence report**

*Tuesday, 23 October 2018 08:30 (15 minutes)*

**Presenter:** LATINA, Andrea (CERN)

**Session Classification:** ATF

Contribution ID: 159

Type: **not specified**

## **Intensity-dependent effects at ATF2, simulations and measurements**

*Tuesday, 23 October 2018 08:45 (30 minutes)*

**Presenter:** KORYSKO, Pierre (University of Oxford (GB))

**Session Classification:** ATF



Contribution ID: **160**

Type: **not specified**

## **Simulations of intensity-dependent effects in the ILC BDS at 250 GeV**

*Tuesday, 23 October 2018 09:15 (30 minutes)*

**Presenter:** KORYSKO, Pierre (University of Oxford (GB))

**Session Classification:** ATF

Contribution ID: **161**

Type: **not specified**

## **Summary of status and the proposal of study plan for the ATF2 intensity dependence measurement**

*Tuesday, 23 October 2018 09:45 (30 minutes)*

**Presenter:** OKUGI, Toshiyuki (KEK)

**Session Classification:** ATF

Contribution ID: **162**

Type: **not specified**

## **LC Damping Rings Update**

*Thursday, 25 October 2018 08:30 (30 minutes)*

**Primary author:** KUBO, Kiyoshi (KEK)

**Presenter:** KUBO, Kiyoshi (KEK)

**Session Classification:** DR 1

Contribution ID: 163

Type: **not specified**

## **Complex Bend: a new lattice element for low-emittance rings**

*Thursday, 25 October 2018 09:00 (30 minutes)*

**Presenter:** Dr SMALUK, Victor (Brookhaven National Laboratory)

**Session Classification:** DR 1

Contribution ID: **164**

Type: **not specified**

## **CLIC Damping Rings**

*Thursday, 25 October 2018 09:30 (30 minutes)*

**Primary author:** PAPAPHILIPPOU, Yannis (CERN)

**Presenter:** PAPAPHILIPPOU, Yannis (CERN)

**Session Classification:** DR 1

Contribution ID: 165

Type: **not specified**

# Linear and nonlinear optics commissioning of the LHC

*Thursday, 25 October 2018 10:00 (30 minutes)*

**Primary author:** MACLEAN, Ewen H. (CERN)

**Presenter:** MACLEAN, Ewen H. (CERN)

**Session Classification:** DR 1

Contribution ID: 166

Type: **not specified**

## **Beam-based Techniques of Impedance Measurement**

**Primary author:** SMALYUK, Victor (BNL)

**Presenter:** SMALYUK, Victor (BNL)

**Session Classification:** DR 1

Contribution ID: **167**

Type: **not specified**

## **Beam-based Techniques of Impedance Measurement**

*Thursday, 25 October 2018 11:00 (30 minutes)*

**Presenter:** SMALUK, Victor (Brookhaven National Laboratory)

**Session Classification:** DR 2



Contribution ID: **168**

Type: **not specified**

## **APS lattice machine studies and APS-U optimizations**

*Thursday, 25 October 2018 11:30 (30 minutes)*

**Primary author:** SUN, Yipeng (ANL)

**Presenter:** SUN, Yipeng (ANL)

**Session Classification:** DR 2

Contribution ID: **169**

Type: **not specified**

## **High accuracy alignment of accelerator components**

*Thursday, 25 October 2018 12:00 (30 minutes)*

**Primary author:** ZORZETTI, Silvia (zorzetti@fnal.gov)

**Presenter:** ZORZETTI, Silvia (zorzetti@fnal.gov)

**Session Classification:** DR 2

Contribution ID: 170

Type: **not specified**

## **MDI for FCC-ee**

*Tuesday, 23 October 2018 16:30 (30 minutes)*

**Presenter:** VOUTSINAS, Georgios Gerasimos (DESY)

**Session Classification:** MDI/Int/Poln 1

Contribution ID: 171

Type: **not specified**

## Updating the laser-beam design of the ILC Compton polarimeters

*Tuesday, 23 October 2018 17:00 (30 minutes)*

A global review of the design of the laser-beam systems for the ILC polarimeters is made in view of modern and commercially available systems. This review is done in view of robustness of operations and ease of implementation while preserving or improving the required performances of the laser system at the Compton Interaction Point. The challenges related to precise demonstration of per-mille control of the laser-beam circular polarization at the Compton IP will be exposed, since it is one of parameters that will ultimately limit the precision of the polarimeters.

**Presenter:** MARTENS, Aurelien (Laboratoire de l'Accélérateur Linéaire Université Paris-Sud 11)

**Session Classification:** MDI/Int/Poln 1

Contribution ID: 172

Type: **not specified**

## Unveil the Nambu- Goldstone Nature of the Higgs boson by precision measurement

*Thursday, 25 October 2018 13:55 (24 minutes)*

In this talk, I will discuss about my recent work on universal relations for the Higgs couplings in composite Higgs models and their phenomenological application for the future lepton colliders. These relations are among one Higgs couplings with two electroweak gauge bosons (HVV), two Higgses couplings with two electroweak gauge bosons (HHVV), one Higgs couplings with three electroweak guage bosons (HVVV), as well as triple gauge boson couplings (TGC). All the universal relations are controlled by a single input parameter: the decay constant  $f$  of the pseudo-Nambu-Goldstone Higgs boson.

**Presenters:** LIU, Da; LIU, Da (Argonne National Laboratory)

**Session Classification:** BSM 3

Contribution ID: 173

Type: **not specified**

## The Infrared Construction of Composite Higgs Models

*Thursday, 25 October 2018 14:19 (24 minutes)*

Recently a method of constructing the non-linear sigma model using only the infrared information is developed. The infrared construction utilizes the unbroken symmetry and the Adler's zero condition as the only input, resulting in a universal Lagrangian for different symmetry breaking patterns. This implies that the interaction of Higgs bosons in composite Higgs models is universal, where the Higgs bosons act as Nambu-Goldstone bosons resulting from spontaneous symmetry breaking. In this talk I describe how the universal Lagrangian of composite Higgs models is constructed, as well as how such a Lagrangian is gauged

**Presenter:** YIN, Zhewei (Northwestern University)

**Session Classification:** BSM 3

Contribution ID: 174

Type: **not specified**

## Measurement of CP effects in Higgs decays to tau leptons at ILC250

*Thursday, 25 October 2018 14:43 (24 minutes)*

We present a measurement of the CP state of tau lepton pairs produced in Higgs decay using their spin correlations. A precision of 75mrad on the system's CP phase can be obtained using the 2/ab integrated luminosity envisaged for the ILC250 program.

**Presenter:** JEANS, Daniel

**Session Classification:** BSM 3

Contribution ID: 175

Type: **not specified**

## Search for Extra Scalars Produced in Association with Muon Pairs at the ILC

*Thursday, 25 October 2018 15:07 (24 minutes)*

In many models with extended Higgs sectors, e.g. Two Higgs Doublet Model, Next-to-Minimal Supersymmetric Standard Model and Randall Sundrum model, there exists an extra scalar  $S$ , and the coupling of  $SZZ$  can be very small, as expected from the likeness of the 125 GeV Higgs boson measured at the LHC to the SM Higgs boson. Searches for additional scalars at LEP and LHC are usually dependent on the model details, such as decay channels. Thus, it is necessary to have a more general analysis with model-independent assumptions. Furthermore, an extra scalar with suppressed couplings to the  $Z$  boson, even when its mass is smaller than 125 GeV, would have still escaped detection at LEP due to its limited luminosity. With a factor of 1000 higher luminosity and polarized beams, the International Linear Collider (ILC) is expected to have substantial discovery potential for such states. In this work, we perform a search for an extra scalar boson produced in association with  $Z$  boson at the ILC with a center-of-mass energy of 250 GeV and 500 GeV, using the full Geant4-based simulation of the ILD detector concept. In order to be as model-independent as possible, the analysis is performed using the recoil technique, in particular with the  $Z$  boson decaying into a pair of muons. As a preliminary result, exclusion cross-section limits are given in terms of a scale factor  $k$  with respect to the Standard Model Higgs-strahlung process cross section. These results, covering all possible searching regions of the extra scalar at the 250 GeV ILC and 500 GeV ILC, can be interpreted independently of the decay modes of the  $S$ .

**Presenter:** WANG, yan (desy)**Session Classification:** BSM 3



Contribution ID: 176

Type: **not specified**

## **A global view on the Higgs self-coupling at lepton colliders**

*Thursday, 25 October 2018 15:31 (24 minutes)*

**Presenter:** LIU, Zhen (University of Maryland)

**Session Classification:** BSM 3

Contribution ID: 177

Type: **not specified**

## **SUSY EW Production at ILC/CLIC**

*Wednesday, 24 October 2018 11:00 (22 minutes)*

-> full one loop calculations of EW SUSY production  
incl. parameter dependence analysis

**Presenter:** HEINEMEYER, Sven

**Session Classification:** BSM 2

Contribution ID: 178

Type: **not specified**

## Dark matter characterization at high energy $e^+e^-$ colliders

*Wednesday, 24 October 2018 11:22 (22 minutes)*

Once any new particle indicating new physics beyond the SM is discovered at colliders, one of the first crucial steps is to experimentally determine its spin as well as its mass. The future  $e^+e^-$  colliders provide perfect tools for studying such properties as long as kinematically accessible, because of the well-constrained event topology and the very clean experimental environment. In this talk, I will demonstrate the strong physics potential of future  $e^+e^-$  colliders in mass and spin determination for invisible particles through single-photon processes and antler-topology processes. I will discuss how a set of observables can be designed for determining the spins and chiral structures of the new particles in a rather model-independent way. By exploiting energy- and angular-dependent observables with the help of polarized beams, one can unambiguously determine the spins of invisible particles.

**Presenter:** WANG, Xing (Department of Physics and Astronomy, University of Pittsburgh)

**Session Classification:** BSM 2

Contribution ID: 179

Type: **not specified**

## Exploring dynamical CP violation induced electroweak-baryogenesis scenario by gravitational waves and colliders

*Wednesday, 24 October 2018 11:44 (22 minutes)*

By assuming a dynamical source of CP violation, the tension between sufficient CP violation for successful electroweak baryogenesis and strong constraints from current electric dipole moment measurements could be alleviated. We study how to explore such scenarios through gravitational wave detection, collider experiments, and their possible synergies with a well-studied example.

**Presenter:** QIAN, Zhuoni (University of Pittsburgh)

**Session Classification:** BSM 2

Contribution ID: **180**

Type: **not specified**

## **CLIC Yellow Report BSM physics potential**

*Wednesday, 24 October 2018 12:06 (24 minutes)*

**Presenter:** FRANCESCHINI, Roberto (Universita e INFN Roma Tre (IT))

**Session Classification:** BSM 2

Contribution ID: **181**

Type: **not specified**

## **HL/HE LHC BSM prospects**

*Tuesday, 23 October 2018 14:00 (22 minutes)*

**Presenter:** ULMER, Keith

**Session Classification:** BSM 1

Contribution ID: 182

Type: **not specified**

## The ILC as a natural SUSY discovery machine and precision microscope: from light higgsinos to tests of unification

*Tuesday, 23 October 2018 14:22 (32 minutes)*

How LHC tells us that there is excellent potential for ILC to discover new particles

Data from LHC confirm the existence of a very SM-like Higgs boson at 125 GeV.

However, it is hard to understand the existence of such a particle state when its mass is unstable under quantum corrections.

Supersymmetry tames the quantum divergences and the  $h(125)$  mass falls squarely within the narrow SUSY predicted window.

To avoid an unnatural Little Hierarchy within the MSSM, higgsinos with mass not too far from  $m(W,Z,h) \sim 100$  GeV are required.

Other sparticle contributions to the weak scale are all loop suppressed and can occur at the several TeV scale with little cost to naturalness.

While light higgsinos are difficult to see at LHC, they would easily be discovered at ILC with  $\sqrt{s} > 2m(\text{higgsino})$ .

Such light higgsinos are consistent with a SUSY DFSZ solution to the strong CP problem which also solves the SUSY  $\mu$  problem and admits a hierarchy  $\mu \ll m(\text{sparticle})$ . Dark matter is expected to be a wimp/axion admixture.

Radiative corrections drive unnatural high scale soft terms to natural values at the weak scale giving rise to barely broken EW symmetry.

Such a scenario seems to be required by the string theory landscape which favors large soft terms and a weak scale not too far from 100 GeV.

Sparticle mass predictions from the landscape are also shown.

**Presenter:** BAER, Howard (University of Oklahoma)

**Session Classification:** BSM 1

Contribution ID: **183**

Type: **not specified**

## **SUSY predictions for ILC/CLIC**

*Tuesday, 23 October 2018 14:54 (22 minutes)*

-> based on fits in various SUSY frameworks we predict where to find  
SUSY at ILC/CLIC.

**Presenter:** HEINEMEYER, Sven

**Session Classification:** BSM 1



Contribution ID: **184**

Type: **not specified**

# **Implication of Higgs Precision Measurement on New Physics**

*Tuesday, 23 October 2018 15:16 (22 minutes)*

**Presenter:** WU, Yongcheng

**Session Classification:** BSM 1

Contribution ID: 185

Type: **not specified**

## Hadron Production in Photon-Photon Processes at the ILC and BSM signatures with small mass differences

*Tuesday, 23 October 2018 15:38 (22 minutes)*

In supersymmetric extensions of the Standard Model, higgsino-like charginos and neutralinos are preferred to have masses of the order of the electroweak scale by naturalness arguments. Light higgsinos are also well motivated from a top-down perspective. Such light  $\tilde{\chi}_{\pm 1, 01}$  and  $\tilde{\chi}_{02}$  states can be almost mass degenerate. In this talk the analysis of two benchmark points which exhibits mass difference of O [GeV] in the higgsino sector is presented. Due to their mass degeneracy it is very difficult to observe the decay of such higgsinos at hadron colliders. ILC being an  $e^+e^-$  collider has the prospect of providing very clean physics environment to observe or exclude such scenarios. However, in addition to the desired  $e^+e^- \rightarrow \tilde{\chi}^+\tilde{\chi}^-$  processes, parasitic collisions of real and virtual photons radiated off the  $e^+e^-$  beams occur at the rates depending on the center of mass energy (250 GeV - 1 TeV) and other beam parameters. For instance, at a centre of mass energy 500 GeV the expectation value is about 1.05  $\gamma\gamma$  events per bunch crossing. In the given higgsino scenarios, visible decay products have low transverse momenta due to their small mass differences. This so called  $\gamma\gamma$  overlay has a very similar topology to our signal event which makes the removal of overlay very challenging. The standard methods to remove  $\gamma\gamma$  background e.g kt algorithm method remains inadequate. This talk presents a proposed solution namely a newly developed track grouping algorithm which is based on the concept of displaced vertices. The algorithm identifies and clusters the tracks from the same origin. The performance of the algorithm is studied through purity checks of clustered tracks and is presented in this talk. We also discuss the scope and the application of this algorithm on the low  $\Delta M$  higgsino analysis.

**Presenter:** SASIKUMAR, Swathi (DESY)**Session Classification:** BSM 1

Contribution ID: **186**Type: **not specified**

## lepton flavor violation searches at CLIC/LC

*Thursday, 25 October 2018 16:30 (22 minutes)*

Lepton flavour violation in seesaw models at future lepton colliders ||| The type-II seesaw and its left-right extensions are well-motivated frameworks to understand the tiny neutrino masses. Both the neutral and doubly-charged scalars from these models could couple to the charged leptons in a flavor-changing way, which is intimately related to the neutrino mass generation. A large parameter space of the lepton flavor violating couplings can be probed at future lepton colliders like CLIC, which is well beyond the current low-energy lepton flavor constraints.

**Presenter:** ZHANG, Yongchao**Session Classification:** BSM 4

Contribution ID: **187**Type: **not specified**

## ILC signatures of the minimal $U(1)_X$ extended Standard Model

*Thursday, 25 October 2018 16:52 (22 minutes)*

We consider the minimal  $U(1)_X$  extension of the Standard Model (SM), where three right-handed neutrinos (RHNs) and one SM singlet  $U(1)_X$  Higgs field are introduced. The model is anomaly free in the presence of the three RHNs. Associated with the  $U(1)_X$  symmetry breaking by the  $U(1)_X$  Higgs VEV, the RHNs acquire Majorana masses, and the seesaw mechanism for generating light SM neutrino masses is automatically implemented after the electroweak symmetry breaking. In this talk, I will report our studies on  $U(1)_X$  gauge boson signatures at the ILC with a variety of final states, such as a pair of SM fermions and  $ZH$ . I will also discuss a pair production of RHNs mediated by the  $U(1)_X$  gauge boson.

**Presenter:** OKADA, Nobuchika**Session Classification:** BSM 4

Contribution ID: **188**Type: **not specified**

## Searching for heavy neutrinos with **WWH** production

*Thursday, 25 October 2018 17:14 (22 minutes)*

Heavy neutral leptons are part of many extensions of the Standard Model, in particular seesaw models that can explain the light neutrino masses and mixing. Many search strategy have been proposed, either via the direct production of the new heavy neutral leptons or via their indirect effects in processes like lepton flavour violation. We propose here a new search strategy based on WWH production at a linear colider. It is complementary to other observables and would allow to probe the multi-TeV regime with flavour-conserving coupling which is otherwise very challenging to experimentally access

**Presenter:** WEILAND, Cédric**Session Classification:** BSM 4

Contribution ID: **189**

Type: **not specified**

## **Hidden Valley Search at CLIC**

*Thursday, 25 October 2018 17:36 (22 minutes)*

**Presenter:** KUCHARCZYK, Marcin

**Session Classification:** BSM 4

Contribution ID: **190**

Type: **not specified**

## **Semi-Leptonic $t\bar{t}$ at ILD**

*Wednesday, 24 October 2018 11:00 (20 minutes)*

**Presenter:** OKUGAWA, Yuichi

**Session Classification:** Top/QCD/Loop 2

Contribution ID: **191**

Type: **not specified**

## **$e^+e^-$ to $b\bar{b}$ study at the 250 GeV ILC**

*Wednesday, 24 October 2018 11:20 (20 minutes)*

**Presenter:** IRLES, Adrian (LAL)

**Session Classification:** Top/QCD/Loop 2



Contribution ID: 192

Type: **not specified**

## **380 GeV CLIC luminosity spectrum determination and impact on the top mass measurement through radiative events**

*Wednesday, 24 October 2018 12:00 (25 minutes)*

**Presenters:** SAILER, Andre (CERN); FULLANA TORREGROSA, Esteban (Univ. of Valencia and CSIC (ES))

**Session Classification:** Top/QCD/Loop 2

Contribution ID: 193

Type: **not specified**

## Scanning Strategies at the Top Threshold

**Presenter:** SIMON, Frank

**Session Classification:** Top/QCD/Loop 2

Contribution ID: 194

Type: **not specified**

## **Exclusive top production at a Linear Collider at and off the threshold**

*Thursday, 25 October 2018 14:45 (25 minutes)*

**Presenter:** REUTER, Jürgen (DESY Hamburg, Germany)

**Session Classification:** Top/QCD/Loop 4

Contribution ID: 195

Type: **not specified**

## Extracting a Short Distance Top Mass with Light Grooming

*Thursday, 25 October 2018 15:10 (25 minutes)*

**Presenter:** MANTRY, sonny mantry (University of Wisconsin at Madison)

**Session Classification:** Top/QCD/Loop 4

Contribution ID: 196

Type: **not specified**

## **Search for new physics effects through $H^* \rightarrow t\bar{t}$ decay process at ILC**

**Presenter:** FUJITANI, Yoshio (Tohoku University)

**Session Classification:** Top/QCD/Loop 4

Contribution ID: **197**

Type: **not specified**

## Top EFT fits

*Thursday, 25 October 2018 15:35 (25 minutes)*

**Presenters:** VOS, Marcel (IFIC (UVEG/CSIC) Valencia); PERELLÓ ROSELLÓ, Martín (Instituto de Física Corpuscular (IFIC) - Valencia)

**Session Classification:** Top/QCD/Loop 4

Contribution ID: **198**

Type: **not specified**

## **$t\bar{t}$ Higgs at ATLAS+CMS**

*Thursday, 25 October 2018 14:00 (25 minutes)*

**Presenter:** NARAYAN, Rohin Thampilali (University of Texas at Austin (US))

**Session Classification:** Top/QCD/Loop 4

Contribution ID: **199**

Type: **not specified**

## **Scanning Strategies at the Top Threshold**

*Thursday, 25 October 2018 14:25 (20 minutes)*

**Presenter:** SIMON, Frank

**Session Classification:** Top/QCD/Loop 4



Contribution ID: 200

Type: **not specified**

## **Advances in normal conducting accelerator structures**

*Tuesday, 23 October 2018 11:00 (20 minutes)*

**Presenter:** TANTAWI, Sami (SLAC)

**Session Classification:** Warm RF 1

Contribution ID: 201

Type: **not specified**

## **CLIC XBox test stands: Performance and operational experience**

*Tuesday, 23 October 2018 11:20 (20 minutes)*

**Presenter:** PITMAN, Samantha (CERN)

**Session Classification:** Warm RF 1

Contribution ID: 202

Type: **not specified**

## **Long-pulse, Ultra-high-gradient Radio-frequency Accelerator Structures – Better Performance through Smart Design, Manufacturing and Breakdown Suppression**

*Tuesday, 23 October 2018 11:40 (20 minutes)*

Future accelerator facilities such as the proposed MaRIE X-ray Free Electron Laser (XFEL) and compact accelerators for medical applications and National Security would greatly benefit from ultra-high gradient (UHG) radio-frequency (RF) accelerating structures. High gradient structures will reduce the construction and operational cost of large facilities and deliver engineering solutions for making compact accelerator systems transportable. Apart from high gradients, some applications need longer pulse durations that are often limited by RF pulse heating in the accelerator structure. This proposal brings together LANL experts from accelerator physics and engineering, metallurgy, and material science to undertake a systematic effort to develop a superior high gradient RF accelerating structure. The areas of research include high gradient cavity shapes (mostly standard nowadays), molecular dynamics modeling of metallic surfaces to study sources of break-down and potential suppression strategies and fabrication strategies that preserve metallurgic improvements when performing machining or forming. The object of study is a cryo-cooled copper C-band resonator.

LANL Publication: LA-UR-18-29159

**Presenter:** KRAWCZYK, Frank

**Session Classification:** Warm RF 1

Contribution ID: 203

Type: **not specified**

## **Experience with long-term operation of high-gradient accelerating structures**

*Tuesday, 23 October 2018 12:00 (20 minutes)*

**Presenter:** MILLAR, Lee (CERN/U. Lancaster)

**Session Classification:** Warm RF 1

Contribution ID: 204

Type: **not specified**

## **Fabrication of CLIC accelerating Structures and RF Components**

*Tuesday, 23 October 2018 12:20 (20 minutes)*

**Presenter:** SAUZA, Joel (CERN)

**Session Classification:** Warm RF 1

Contribution ID: 205

Type: **not specified**

## **Design study of the high efficiency L-band Klystrons at CERN**

*Tuesday, 23 October 2018 14:00 (20 minutes)*

**Presenter:** CAI, Jinchi (CERN)

**Session Classification:** Warm RF 2

Contribution ID: 206

Type: **not specified**

## **Status of the X-band, Modular Array, Multi-Beam Klystron Development Project**

*Tuesday, 23 October 2018 14:20 (20 minutes)*

**Presenter:** FRANZI, Matt (SLAC)

**Session Classification:** Warm RF 2

Contribution ID: 207

Type: **not specified**

## **Superconducting klystron focusing solenoid for high-efficiency**

*Tuesday, 23 October 2018 14:40 (20 minutes)*

**Presenter:** YAMAMOTO, Akira (High Energy Accelerator Research Organization (JP))

**Session Classification:** Warm RF 2



Contribution ID: 208

Type: **not specified**

## **Advanced normal conducting radio frequency linac concept for a high energy e<sup>+</sup>e<sup>-</sup> - linear collider**

*Tuesday, 23 October 2018 15:00 (20 minutes)*

**Presenter:** NANNI, Emilio (SLAC National Accelerator Laboratory)

**Session Classification:** Warm RF 2

Contribution ID: **209**

Type: **not specified**

## **High Efficiency X-band Klystron Design Study**

*Tuesday, 23 October 2018 15:20 (20 minutes)*

**Presenter:** NEILSON, Jeffrey (SLAC)

**Session Classification:** Warm RF 2

Contribution ID: 210

Type: **not specified**

## On-going Development of CMOS Pixel Sensors: on the road of reaching ILC vertex detector requirements

*Tuesday, 23 October 2018 11:00 (30 minutes)*

CMOS Pixel Sensors (CPS) are currently developed for the CBM Micro-Vertex Detector at FAIR/GSI, extrapolating from the ALPIDE chip fabricated for the ALICE-ITS. The MIMOSIS sensor for CBM will provide resolutions of 5  $\mu\text{m}$  and 5  $\mu\text{s}$  to comply with the CBM requirements and a 50 times higher data flow capacity compared to ALPIDE. Sensors adapted to the ILC requirements are expected to be directly derivable from this chip, with spatial resolution of about 4  $\mu\text{m}$ , read-out time of about 1-2  $\mu\text{s}$  and instantaneous data flow of about few GB/s. This talk will describe the MIMOSIS architecture and the roadmap to adapt it to the ILC requirements. Furthermore, the MIMOSIS-0 sensor, fabricated in 2017 (in the 0.18  $\mu\text{m}$  Tower-Jazz process) has been tested this current year and its results will be shown. Based on this architecture, power consumption estimates of the ILD vertex detector has been reevaluated more precisely and will also be presented. Finally, 2 double sided ladder PLUME have been operated in the BEAST-II infrastructure at superKEKB and were running continuously from March to July 2018. As a first successful use of CMOS sensors in an  $e^+e^-$  environment, a feedback experience will be provided.

**Presenter:** BESSON, Auguste Guillaume (Centre National de la Recherche Scientifique (FR))

**Session Classification:** VTX/TRK 1

Contribution ID: **211**

Type: **not specified**

## **DEPFET at Belle II**

*Tuesday, 23 October 2018 11:30 (30 minutes)*

**Presenters:** VOS, Marcel (Univ. of Valencia and CSIC (ES)); VOS, Marcel (IFIC (UVEG/CSIC) Valencia)

**Session Classification:** VTX/TRK 1

Contribution ID: 212

Type: **not specified**

## **first measurements on the FTD mock-up**

*Tuesday, 23 October 2018 12:00 (30 minutes)*

**Presenters:** VOS, Marcel (Univ. of Valencia and CSIC (ES)); VOS, Marcel (IFIC (UVEG/CSIC) Valencia)

**Session Classification:** VTX/TRK 1

Contribution ID: 213

Type: **not specified**

## **HV-CMOS- Design of a sampling pixel to minimize time-walk**

*Tuesday, 23 October 2018 15:00 (30 minutes)*

**Presenter:** ALONSO, Oscar (University of Barcelona)

**Session Classification:** VTX/TRK 2

Contribution ID: 214

Type: **not specified**

## **The CMS Tracker: Run 2 Experience and Upgrades**

*Tuesday, 23 October 2018 14:30 (30 minutes)*

**Presenter:** Mr KILPATRICK, Matthew

**Session Classification:** VTX/TRK 2

Contribution ID: 215

Type: **not specified**

## Studies on particle identification with $dE/dx$ for the ILD TPC

*Wednesday, 24 October 2018 08:30 (30 minutes)*

For the International Large Detector (ILD) at the planned International Linear Collider (ILC) a time projection chamber (TPC) is foreseen as the main tracking detector. To achieve the required point resolution, micro pattern gaseous detectors (MPGD) will be used in the amplification stage. A readout module using a stack of three gas electron multipliers (GEM) for gas amplification was developed at DESY. In a test campaign at the DESY II Test Beam Facility the performance of three of these modules was investigated. This talk will present results on the system's particle identification capabilities using the specific energy loss ( $dE/dx$ ). The results from the prototype were used to extrapolate to the performance of the full ILD TPC, where a  $dE/dx$  resolution of better than 5% could be achieved. In addition, simulation studies were performed to optimize the readout pad size for improved  $dE/dx$  separation power. These studies also investigated the possibility to measure the deposited energy by counting the number of ionization clusters (cluster counting). For small enough pads this approach was found to give similar or better performance compared to the traditional method of measuring the deposited charge.

**Presenter:** KRAEMER, Uwe (DESY)

**Session Classification:** VTX/TRK 3



Contribution ID: 216

Type: **not specified**

## Studies on a TPC test beam using double GEM module with a gating foil

*Wednesday, 24 October 2018 09:00 (30 minutes)*

Micro Pattern Gaseous Detectors (MPGD)-based TPC is proposed as central tracker in the ILC for the ILC experiment. As the advantages of MPGD, ExB effect is small and a few millimeter 2-track separation is possible compared with MWPC readout. Electron Multipliers (GEM) or Micro-Mesh Gaseous Structure (Micro MEGAS) are candidate as MPGD-readout technology. Gas detector such as the MPGD has a issue of discharge. We performed the beam test using a large prototype TPC equipped with readout module with double GEM. And the gating foil to suppress ion feedback was set on the readout module. I report the analysis result including condition of discharge.

**Presenters:** SHOJI, Aiko; SHOJI, Aiko (Iwate University)

**Session Classification:** VTX/TRK 3

Contribution ID: 217

Type: **not specified**

## **Performance of a GridPix TPC readout based on the Timepix3 chip**

*Wednesday, 24 October 2018 09:30 (30 minutes)*

**Presenter:** Mr LIGTENBERG, Kees (Nikhef)

**Session Classification:** VTX/TRK 3

Contribution ID: **218**

Type: **not specified**

## **Discussion and Next steps in the report**

*Tuesday, 23 October 2018 10:15 (15 minutes)*

**Presenter:** LATINA, Andrea (CERN)

**Session Classification:** ATF

Contribution ID: 219

Type: **not specified**

## A large area strip hodoscope based on the SiD strip tracker

*Tuesday, 23 October 2018 14:00 (30 minutes)*

The DESY II Test Beam Facility is one of few facilities around the world capable of providing multi GeV particle beams. It is, as such, a key component in current particle detector development including

development of detectors for the International Linear Collider (ILC) .

As part of the AIDA2020 project, a new large area silicon hodoscope has been designed for installation at the DESY II Test Beam Facility. The sensor used in the hodoscope is based on the Silicon Detector (SiD) strip tracker which was successfully assembled at DESY. The hodoscope is to be used

as the reference tracker for ongoing measurements of the Linear Collider Time Projection Chamber

Collaboration to determine the achievable momentum resolution of their detector as part of ongoing

research for the International Large Detector (ILD). In this talk, the current state of the hodoscope system as well as results from the first test beam with the SiD tracker sensor will be provided.

**Presenter:** KRAEMER, Uwe (DESY)

**Session Classification:** VTX/TRK 2

Contribution ID: 220

Type: **not specified**

## **The AHCAL Tokyo module: alternative geometry and scintillator**

*Wednesday, 24 October 2018 10:06 (24 minutes)*

**Presenter:** Mr TSUJI, Naoki (The University of Tokyo)

**Session Classification:** Cal/Muon 3

Contribution ID: 221

Type: **not specified**

## **Design status of E-driven ILC Positron Source**

*Tuesday, 23 October 2018 08:30 (30 minutes)*

**Primary author:** Mr NAGOSHI, Hisayasu (Hiroshima University)

**Presenter:** Mr NAGOSHI, Hisayasu (Hiroshima University)

**Session Classification:** Sources 1

Contribution ID: 222

Type: **not specified**

## **E-DrivenTarget Design and it R&D Status**

*Tuesday, 23 October 2018 09:00 (30 minutes)*

**Primary author:** OMORI, tsunehiko (KEK)

**Presenter:** OMORI, tsunehiko (KEK)

**Session Classification:** Sources 1

Contribution ID: 223

Type: **not specified**

## **Radiation effect on the target and capture devices**

*Tuesday, 23 October 2018 09:30 (30 minutes)*

**Primary author:** TAKAHASHI, Tohru

**Presenter:** TAKAHASHI, Tohru

**Session Classification:** Sources 1



Contribution ID: 224

Type: **not specified**

## Discussion

*Tuesday, 23 October 2018 10:00 (30 minutes)*

**Session Classification:** Sources 1

Contribution ID: 225

Type: **not specified**

## **A Proposal of Tunnel Layout for Positron Source**

*Tuesday, 23 October 2018 11:00 (30 minutes)*

**Primary author:** OMORI, tsunehiko (KEK)

**Presenter:** OMORI, tsunehiko (KEK)

**Session Classification:** Sources 2

Contribution ID: 226

Type: **not specified**

## **A Yield calculation for E-Driven ILC Positron Source**

*Tuesday, 23 October 2018 11:30 (30 minutes)*

**Primary author:** FUKUDA, Masafumi (KEK: High energy accelerator research organization)

**Presenter:** FUKUDA, Masafumi (KEK: High energy accelerator research organization)

**Session Classification:** Sources 2

Contribution ID: 227

Type: **not specified**

## Discussion

*Tuesday, 23 October 2018 12:00 (30 minutes)*

**Session Classification:** Sources 2

Contribution ID: 228

Type: **not specified**

## **Status of material load experiments at MAMI in Mainz**

*Tuesday, 23 October 2018 14:00 (30 minutes)*

**Primary author:** USHAKOV, Andriy (University of Hamburg)

**Presenter:** USHAKOV, Andriy (University of Hamburg)

**Session Classification:** Sources 3

Contribution ID: 229

Type: **not specified**

## **Status of Target R&D for undulator-based e+ source**

*Tuesday, 23 October 2018 14:30 (30 minutes)*

**Primary author:** RIEMANN, Sabine (Deutsches Elektronen-Synchrotron (DE))

**Presenter:** RIEMANN, Sabine (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Sources 3

Contribution ID: 230

Type: **not specified**

## **A Study of Realistic Undulator Field for Positron Generation**

*Tuesday, 23 October 2018 15:00 (30 minutes)*

**Primary author:** Mr ALHARBI, Khaled (University of Hamburg)

**Presenter:** Mr ALHARBI, Khaled (University of Hamburg)

**Session Classification:** Sources 3

Contribution ID: 231

Type: **not specified**

## Optimization of undulator parameters for 125 GeV drive beam

*Tuesday, 23 October 2018 15:30 (30 minutes)*

**Primary author:** Mr FORMELA, Manuel (DESY)

**Co-author:** MOORTGAT-PICK, Gudrid

**Presenter:** Mr FORMELA, Manuel (DESY)

**Session Classification:** Sources 3



Contribution ID: 232

Type: **not specified**

## **A Study of Yield calculation for Undulator ILC Positron Source**

*Tuesday, 23 October 2018 16:30 (30 minutes)*

**Primary author:** FUKUDA, Masafumi (KEK: High energy accelerator research organization)

**Presenter:** FUKUDA, Masafumi (KEK: High energy accelerator research organization)

**Session Classification:** Sources 4

Contribution ID: 233

Type: **not specified**

## **Polarized Positron Beam R&D at Jefferson Lab**

*Tuesday, 23 October 2018 17:00 (30 minutes)*

**Primary author:** GRAMES, Joseph (JLab)

**Presenter:** GRAMES, Joseph (JLab)

**Session Classification:** Sources 4

Contribution ID: 234

Type: **not specified**

## Discussion

*Tuesday, 23 October 2018 17:30 (30 minutes)*

**Session Classification:** Sources 4

Contribution ID: 235

Type: **not specified**

## H→bb,cc,gg at ILD at 500 GeV

*Wednesday, 24 October 2018 11:40 (20 minutes)*

**Presenter:** KURATA, Masakazu (KEK)

**Session Classification:** Top/QCD/Loop 2

Contribution ID: 236

Type: **not specified**

## **Analytical modeling of CLIC energy distributions for CLIC luminosity**

*Wednesday, 24 October 2018 12:00 (20 minutes)*

**Presenter:** YANG, Renjun (LAL)

**Session Classification:** BDS 3

Contribution ID: 237

Type: **not specified**

# Cryogenic Photoinjector Source for Linear Colliders

*Tuesday, 23 October 2018 15:40 (20 minutes)*

**Presenter:** ROSENZWEIG, James

**Session Classification:** Warm RF 2

Contribution ID: 238

Type: **not specified**

## **PM HOMs measurements in 1.3GHz cavities for LCLSD-II**

*Thursday, 25 October 2018 09:45 (25 minutes)*

**Primary author:** LUNIN, Andrei (Fermilab)

**Presenter:** LUNIN, Andrei (Fermilab)

**Session Classification:** BD&RTML 2 joint with BDS

Contribution ID: **239**

Type: **not specified**

## Welcome and Plans

*Wednesday, 24 October 2018 14:00 (15 minutes)*

**Presenters:** WHITE, Andy; STANITZKI, Marcel

**Session Classification:** SiD meeting



Contribution ID: 240

Type: **not specified**

## News on KPiX & Tracker

*Wednesday, 24 October 2018 14:15 (20 minutes)*

**Presenter:** KRAEMER, Uwe (DESY)

**Session Classification:** SiD meeting

Contribution ID: 241

Type: **not specified**

## News on KPiX ECAL

*Wednesday, 24 October 2018 14:35 (20 minutes)*

**Presenter:** BREIDENBACH, Martin (SLAC)

**Session Classification:** SiD meeting

Contribution ID: 242

Type: **not specified**

## Optimization Introduction

*Wednesday, 24 October 2018 15:10 (10 minutes)*

**Presenter:** STRUBE, Jan (PNNL)

**Session Classification:** SiD meeting

Contribution ID: 243

Type: **not specified**

## **UTA PFA studies**

*Wednesday, 24 October 2018 15:25 (15 minutes)*

**Session Classification:** SiD meeting

Contribution ID: 244

Type: **not specified**

## Hexagons in the HCAL

*Wednesday, 24 October 2018 14:55 (10 minutes)*

**Presenters:** EIGEN, Gerald (University of Bergen (NO)); EIGEN, Gerald (University of Bergen)

**Session Classification:** SiD meeting