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: GRASSELLINO, 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**

Nb3Sn 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**

Nb3Sn 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- -> f fbar

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 HγZ coupling using e+e- -> γ 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- --> 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 HγZ coupling using e+e- -> γ 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→Zγ 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-> 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: TERAO, 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- -> 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)~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 rs>2m(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«m(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 elecktroweak scale by naturalness arguments. Light higgsinos are also well motivated from a top-down perspective. Such light $\tilde{\chi}_{\pm 1}$,$\tilde{\chi}_{01}$ 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− $\longrightarrow$ $\tilde{\chi}+\tilde{\chi}−$ 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 γγ 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 γγ overlay has a very similar topology to our signal event which makes the removal of overlay very challenging. The standard methods to remove γγ 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 ΔM 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 seesaew 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 ttbar 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 bbar 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*→ttbar 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**

ttbar 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+e - 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 mum and 5 mus 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 mum, read-out time of about 1-2 mus 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 mum 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 a pproach 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 centraltracker in the ILD for the ILC experiment. As the advantages of MPGD,ExB effect is small and a few millimeter 2-track separation is possiblecompared with MWPC readout. Electron Multipliers (GEM) or Micro-MEshGAseous Structure (Micro MEGAS) are candidate as MPGD-readout technology.Gas detector such as the MPGD has a issue of discharge. We performedthe beam test using a large prototype TPC equipped with readout modulewith double GEM. And the gating foil to suppress ion feedback was set onthe readout module. I report the analysis result including condition ofdischarge.

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