

## **Session Program**

**1-7 Nov 2015**



## **Linear Collider Workshop 2015 (LCWS15)**

### ***Higgs/EW***

The Fairmont Chateau Whistler  
4599 Chateau Boulevard Whistler British Columbia, Canada V0N 1B4

# Tuesday 3 November

08:30

## Higgs/EW

**Session** |

**Location:** The Fairmont Chateau Whistler, Empress B, 4599 Chateau Boulevard Whistler British Columbia, Canada V0N 1B4 |

**Conveners:**

Shinya Kanemura, Aidan Robson, Dr Junping Tian, Nathaniel Craig, Markus Klute, Heather Logan, Sven chair: Heinemeyer, Dr Timothy Barklow

08:30–09:00

### Status and prospects for di-Higgs searches and $\lambda_{HHH}$ measurements (CMS)

**Speaker**

Caterina Vernieri

09:00–09:25

### Higgs Self-Coupling Analysis at ILC

**Speaker**

Mr Masakazu Kurata

09:25–09:50

### Measurement of double Higgs production at CLIC

**Speaker**

Rosa Simoniello

09:50–10:15

### A scale-invariant Higgs sector with large anomalous Higgs self-coupling

**Speaker**

Kazuhiro Endo

10:15

10:45

## Higgs/EW: Joint Higgs/top

**Session** |

**Location:** The Fairmont Chateau Whistler, Empress B, Fuze connection details: <https://www.fuzemeeting.com/fuze/b8ba9728/31094874> |

**Conveners:**

Sven Heinemeyer, Dr Frank Simon, Dr Junping Tian, Aidan Robson, Shinya Kanemura, Heather Logan, Tim Barklow

10:45–11:10

### $t\bar{t}H$ and $tH$ production at the LHC: experimental results and prospects

**Speaker**

Iurii Ilchenko

11:10–11:30

### $t\bar{t}H$ and $tH$ production at the LHC: theory aspects (remote)

**Speaker**

Dr Laura Reina

11:30–11:55

### $e^+e^- \rightarrow t\bar{t}H$ at the LC (overview)

**Speaker**

Dr Jan Strube

11:55–12:15

### Study of Direct top Yukawa Coupling Measurement at the ILC with a Center-of-mass Energy of 500 GeV

**Speaker**

Yuji Sudo

**12:15–12:30**  **$e^+e^- \rightarrow t\bar{t}(H)$  : theory aspects****Speaker**

Jürgen Reuter

**Higgs/EW: Joint with BSM****Session** | **Location:** The Fairmont Chateau Whistler, Empress C | **Conveners:**

Heather Logan, Tim Barklow, Sven Heinemeyer, Shinya Kanemura, Aidan Robson, Dr Junping Tian, Markus chair: Klute

**13:30–14:00****Status and prospects for BSM ((N)MSSM) Higgs searches at the LHC (ATLAS)****Speaker**

Pilar Casado

**14:00–14:25****Indirect discovery reach of the additional MSSM Higgs bosons by precision measurements at future lepton colliders****Speaker**

Mitsuru Kakizaki

**14:25–14:45****Higgs boson production cross sections in the complex MSSM****Speaker**

Sven Heinemeyer

**14:45–15:10****Bound on the second lightest Higgs mass in the two Higgs doublet model****Speaker**

Shinya Kanemura

**15:10–15:30****Phenomenology of Higgs Bosons in the Georgi-Machacek Model****Speaker**

Cheng-Wei Chiang

# Wednesday 4 November

13:30

## Higgs/EW

**Session** | **Location:** The Fairmont Chateau Whistler, Empress C | **Conveners:**

Dr Junping Tian, Shinya chair: Kanemura, Heather Logan, Sven Heinemeyer, Aidan Robson, Dr Timothy Barklow

13:30–13:50

### Sensitivity of anomalous couplings between the Higgs and vector boson at the ILC

**Speaker**

Mr Tomohisa Ogawa

13:50–14:10

### Measurement of the Higgs to EW bosons decays at low and intermediate CLIC energies

**Speaker**

Dr Ivanka Bozovic-Jelisavcic

14:10–14:30

### Discrimination of extended Higgs sectors by precision measurement of the Higgs boson couplings

**Speaker**

Ms Mariko Kikuchi

14:30–14:50

### Precision calculations in the Higgs sector of the complex MSSM: Towards the LC precision

**Speaker**

Sven Heinemeyer

14:50–15:10

### H→bb/cc/gg at 350 GeV at CLIC

**Speaker**

Marco Szalay

15:10–15:30

### Physics potential for the measurement of hadronic Higgs decays and the Higgs mass at high-energy CLIC operation

**Speaker**

Dr Philipp Roloff

15:30

# Thursday 5 November

08:30

## Higgs/EW

**Session** | **Location:** The Fairmont Chateau Whistler, Empress C | **Conveners:** Sven Heinemeyer, Dr Junping Tian, Shinya Kanemura, Heather Logan, Dr Timothy Barklow, Aidan Robson, Markus chair: Klute

08:30–08:51

### Complementarity of the Higgs Physics Programs of the ILC and Circular e+e- Colliders

#### Speaker

Dr Timothy Barklow

08:51–09:12

### Higgs mass measurement using kinematic reconstruction of its hadronic decays at center-of-mass energies of 350 and 500 GeV at the ILC

#### Speaker

Aliakbar Ebrahimi

09:12–09:33

### Leptonic Higgs Recoil Analysis at the ILC for Center-of-Mass Energies 250, 350, and 500 GeV

#### Speaker

Dr Jacqueline Yan

09:33–09:54

### H -> mumu at ILC

#### Speaker

Michele Fucci Giannelli

09:54–10:15

### Precision Measurement of the W mass from a Threshold Scan Using Polarized Electrons and Positrons at ILC

#### Speaker

Dr Graham Wilson

10:15