

Monday 5 June

10:00 Plenary: Plenary 1 Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan 10:00-10:30 Higgs couplings to fermions Speaker Tao Han Symmetries of the 2HDM and Beyond 10:30-11:00 Speaker Prof. Apostolos Pilaftsis 11:00 11:30 Plenary: Plenary 2 Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan **General review of Higgs properties at ATLAS** 11:30-12:00 Speaker Sanmay Ganguly 12:00-12:30 The newest Higgs results at CMS Speaker Xiaohu Sun 12:30-13:00 A Classifier for VBF and GGF Higgs Productions with Deep Learning Speaker Prof. Cheng-Wei Chiang 13:00 14:30 Plenary: Plenary 3 Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan Signals of new heavy scalars in the flavor-aligned 2HDM 14:30-15:00 Speaker **Howard Haber** 15:00-15:15 Exotic but efficient channels to probe the fermiophobic Higgs boson in the type-1 2HDM Speaker Prof. Jeonghyeon Song 15:15-15:30 Double Aligned two Higgs Doublet Models at the LHC Speaker Prof. Michihisa Takeuchi 15:30-15:45 Exploring Wrong Sign Scenarios in the Yukawa-Aligned 2HDM **Speaker** Dr Kei Yagyu

15:45-16:00

Precise predictions for the trilinear Higgs coupling in arbitrary models

Speaker

Johannes Braathen

16:00 16:30

Plenary: Plenary 4

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

16:30-17:00 Pragmatic extensions of the Standard Model

Speaker

Bohdan Grzadkowski

17:00-17:30 GOOFy Symmetries of the Two Higgs Doublet Model

Speaker

Prof. Pedro Ferreira

17:30

Tuesday 6 June

09:00

Plenary: Plenary 5

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

09:00-09:30 Double Higgs Production in Composite 2HDM

Speaker

Stefania De Curtis

09:30-10:00 **Di-HPNP**

Speaker

Stefano Moretti

10:00-10:15 Precise predictions for Higgs pair productions and decays

Speaker

Prof. Jian Wang

10:15-10:30

Benchmarking Di-Higgs Production in Various Extended Higgs Sector Models

Speaker

Dr Duarte Azevedo

10:30-10:45 More realistic test on the Higgs EFT

Speaker

Kohsaku Tobioka

10:45-11:00

Coupling Sum Rules and Oblique Corrections in Gauge-Higgs Unification

Speaker

Yutaka Hosotani

11:00

14:30 **Plenary: Plenary 6**

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

14:30-15:00

Recent topics on cosmology with primordial black holes and their implications for particle physics

Speaker

Kazunori Kohri

15:00-15:15 Primordial black holes from the boiling Universe

Speaker

Ke-Pan Xie

15:15-15:30

Probing first-order electroweak phase transition via primordial black holes

Speaker

Masanori Tanaka

15:30-15:45 Quartic Gradient Flow

Speaker
Dr Ryusuke Jinno

15:45-16:00 Cosmological Phase Transitions in Composite Higgs Models

Speaker
Kohei Fujikura

16:00

Wednesday 7 June

09:00

Plenary: Plenary 7

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

09:00-09:30

BSM Higgs and an Electroweak Phase Transition: Recent Developments

Michael Ramsey-Musolf

09:30-10:00 FOEWPT, THCs and GWs in the 2HDM

Speaker

Sven Heinemeyer

10:00-10:30

Two aspects of Higgs Pair Production: Precision and Relation to Electroweak **Baroygenesis**

Speaker

Milada Margarete Mühlleitner

10:30-10:45

Shedding light on the electroweak phase transition from exotic Higgs boson decays at the lifetime frontiers

Speaker

Wei Liu

Electroweak Baryogenesis in two Higgs doublet model with alignment scenario

Speaker

Yushi Mura

11:00 11:30

Plenary: Plenary 8

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

11:30-12:00 Higgs physics with ILC

Speaker

Dr Junping Tian

12:00-12:30

Exploring new physics by comprehensive studies of loop corrected decays of various Higgs bosons

Speaker

Mariko KIKUCHI

12:30-13:00 Brief Introduction to Muon Colliders

Speaker

Tao Han

13:00

Thursday 8 June

09:00

Plenary: Plenary 9

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

09:00-09:30 Decay of the Mediator Particle at Threshold

Speaker

Dr Shigeki Matsumoto

09:30-10:00 Electroweak corrections to Scalar Dark Matter Direct Detection

Speaker

Rui Santos

10:00-10:15

Lepton flavor violation and DM constraints in a radiative seesaw model

Speaker

Osamu Seto

10:15-10:30 Light lepton portal dark matter meets the LHC

Speaker

Yuji Omura

10:30-10:45 Thermal production of bosonic dark matter and Bose-enhancement

Speaker

Wen Yin

10:45-11:00 Positivity Bounds on Higgs-Portal Dark Matter

Speaker

Dr Kimiko Yamashita

11:00 11:30

Plenary: Plenary 10

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

11:30-12:00 Detecting Hidden Photon Dark Matter via the Excitation of Qubits

Speaker

Takeo Moroi

12:00-12:15 Search for lepton flavor violation at FASER

Speaker

Takashi Shimomura

12:15-12:30 Large muon EDM in two Higgs doublet model and its extension

Speaker

Yoshihiro SHIGEKAMI

12:30-12:45

Large SU(2) multiplet scalars providing sizable muon g-2 and its phenomenology

Speaker

Prof. Takaaki Nomura

12:45-13:00 Muon (g - 2) and Thermal WIMP DM in U(1)L μ -L τ Models

Speaker

13:00

Mr Jongkuk Kim

7

Friday 9 June

09:00

Plenary: Plenary 11

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

09:00-09:30 A Theory Vision for the Higgs Boson

Speaker

Ian Low

09:30-10:00 Constraining CP4 3HDM with meson oscillations

Speaker

Prof. Igor Ivanov

10:00-10:15 Measuring the QCD color structure of the Higgs particle

Speaker

Prof. Myeonghun Park

10:15-10:30 Exposing new scalars hiding behind the Higgs boson

Speaker

Hao Zhang

10:30-10:45 Phenomenology of anomaly-free axion in three Higgs doublet model

Speaker

Kodai Sakurai

10:45-11:00

Leading two-loop corrections to the Higgs di-photon decay in the inert doublet model

Speaker

Masashi Aiko

11:00

Plenary: Plenary 12

Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

11:30-12:00 On the Weyl gravity extension of Higgs inflation

Speaker

Hyun Min Lee

12:00-12:30 Leptogenesis from a CP-violating inflation

Speaker

Dr Venus Keus

12:30-12:45 Boltzmann or Bogoliubov? A Case of Gravitational Higgs Production

Speaker

Kunio Kaneta

12:45-13:00 Polychronic Tunneling

Speaker
Yutaro Shoji

14:30

Plenary: Plenary 13
Session | Location: Osaka University, Nambu Yoichiro Hall, 1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

14:30-15:00 muTRISTAN
Speaker
Ryuichiro Kitano

15:00-15:15
Probing new physics beyond the Standard Model at multi-TeV muon colliders
Speaker
Dr Adil Jueid

Probing Baryogenesis with Radiative Beauty Decay and Electron EDM

15:45

15:15-15:45

George Wei-Shu Hou

Speaker