

**Session Program**

**18-22 Feb 2019**

**HPNP2019 - The 4th International Workshop  
on "Higgs as a Probe of New Physics 2019"**

***Poster Session***

Osaka University, Nambu Yoichiro Hall  
1-1 Machikaneyama-cho, Toyonaka, Osaka, Japan

## Tuesday 19 February

16:05

### Poster Session: Poster Session I

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

16:05-18:20

#### Off-shell Higgs effects of a classically scale invariant model in $e^+e^-$ processes

##### Speaker

Yoshio Fujitani

16:05-18:20

#### Discrimination of Dark Matter Velocity Distribution by Directional Detection

##### Speaker

Dr Keiko Nagao

16:05-18:20

#### Generation of particle number asymmetry with inflaton background

##### Speaker

Mr Apriadi Salim Adam

16:05-18:20

#### Foreground effect on the J-factor estimation of dwarf spheroidal galaxies

##### Speaker

shunichi horigome

16:05-18:20

#### Is there a Higgs mechanism in the dark sector?

##### Speaker

Dr Mengchao Zhang

16:05-18:20

#### Muon g-2 and FCNC in Split-Family SUSY

##### Speaker

Motoo Suzuki

16:05-18:20

#### Probing charged Higgs bosons at the LHC using top polarization

##### Speaker

Adil Jueid

16:05-18:20

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

##### Speaker

Dr Fa Peng Huang

16:05-18:20

#### Coupling unification in an extension of the minimal dark matter model and collider signatures

##### Speaker

Ms Kana Hayami

16:05-18:20

**Loop corrections to dark matter direct detection in a pseudoscalar mediator dark matter model****Speaker**

Motoko Fujiwara

16:05-18:20

**GUT inspired  $SO(5) \times U(1) \times SU(3)$  gauge-Higgs unification****Speaker**

Dr Shuichiro Funatsu

16:05-18:20

**LFV decays of Higgs boson and dark matter in new model for Dirac neutrino masses****Speaker**

Kazuki Enomoto

16:05-18:20

**Higgs Inflation and the Refined dS Conjecture****Speaker**

Sung Mook Lee

16:05-18:20

**Custodial symmetry violation in the Georgi-Machacek model****Speaker**

Ben Keeshan

16:05-18:20

**Testability of the extended Higgs models by collider and gravitational-wave experiments****Speaker**

Katsuya Hashino

16:05-18:20

**Two-loop corrections to the Higgs trilinear coupling in models with extended Higgs sectors****Speaker**

Johannes Braathen

16:05-18:20

**Indirect search for CP-violation in the Higgs sector by the precision test of Higgs couplings****Speaker**

Mr Mitsunori Kubota

16:05-18:20

**Light charged Higgs boson with dominant decay to quarks and its search at LHC and future colliders****Speaker**

Muyuan Song

16:05-18:20

**Constraints on a light scalar in a singlet Higgs extension of the SM at Belle-II****Speaker**

Miki Yonemura

## Thursday 21 February

15:15

### Poster Session: Poster Session II

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

**15:15–17:30** **Probing the Higgs boson-gluon coupling at  $e^+e^-$  colliders**

**Speaker**

Gexing Li

**15:15–17:30** **Three-component dark matter system in a radiative seesaw model**

**Speaker**

Daiki Kaneko

**15:15–17:30**

**Same sign pair production of singly-charged Higgs bosons at hadron colliders**

**Speaker**

Masashi Aikou

**15:15–17:30**

**One-loop corrections to Higgs branching ratios in extended Higgs models**

**Speaker**

Kodai Sakurai

**15:15–17:30**

**The search for Z-funnel WIMP at ILC**

**Speaker**

Taisuke Katayose

**15:15–17:30**

**Numerical study of the  $\mathcal{N}=2$  Landau-Ginzburg model**

**Speaker**

Okuto Morikawa

**15:15–17:30**

**Probing Naturalness by the Tail of the Off-shell Higgs via Polarization Tagging**

**Speaker**

Zhuoni Qian

**15:15–17:30**

**Probing electroweak multiplet dark scalars indirectly through  $e^+e^- \rightarrow Z H$  process**

**Speaker**

Ya Zhang

**15:15–17:30**

**Fermion mass hierarchy in grand Gauge-Higgs unification**

**Speaker**

Mr Yoshiki Yatagai

**15:15–17:30**

**Suppression of dark matter-nucleon scattering in singlet Higgs extension of the SM and its signature at collider experiments**

**Speaker**  
Sachiho Abe

**15:15–17:30**   **Phase Transitions in Twin Higgs Models**

**Speaker**  
Kohei Fujikura

**15:15–17:30**

**Effect of Scattering Amplitude Interference Terms On the Search for a Charged Higgs Boson**

**Speaker**  
Riley Patrick

**15:15–17:30**

**Probing Electroweakly Interacting Massive Particles with Precision Measurements at 100 TeV Hadron Colliders**

**Speaker**  
Mr So Chigusa

**15:15–17:30**

**Deep learning in searching for a broad  $t\bar{t}$  resonance at the LHC**

**Speaker**  
Ke-Pan Xie

**15:15–17:30**

**On the fine-tuning of Higgs inflation in metric and Palatini formulations**

**Speaker**  
Mio Kubota

**15:15–17:30**

**Electroweak vacuum collapse induced by Higgs vacuum fluctuations around evaporating black holes**

**Speaker**  
Hiroki Matsui

**15:15–17:30**

**Scotogenic dark matter and single-zero textures of the neutrino mass matrix**

**Speaker**  
Dr Teruyuki Kitabayashi

**15:15–17:30**

**Symmetry and Geometry in Generalized Higgs Sector**

**Speaker**  
Dr Nagai Ryo

**15:15–17:30**

**Dark Matter Signals at the LHC from a 3HDM**

**Speaker**  
Diana Rojas-Ciofalo

17:30