

HPNP2017 - The 3rd Toyama International Workshop on "Higgs as a Probe of New Physics 2017"

Wednesday, 1 March 2017 - Sunday, 5 March 2017

**University of Toyama
Programme**

Wednesday, 1 March 2017

Opening session (09:00 - 09:30)

time	title	presenter
09:00	Opening Address and Charge of HPNP2017	KANEMURA, Shinya

Oral session - Tamokuteki Hall (Room B243) (09:30 - 10:30)

time	title	presenter
09:30	A Theorist's Outlook for Higgs physics beyond the Standard Model	HABER, Howard
10:00	Higgs Couplings Measurements and New Physics	WAGNER, Carlos E.M.

Oral session - Tamokuteki Hall (Room B243) (11:00 - 12:30)

time	title	presenter
11:00	Measurements & BSM Searches in the Higgs Sector at the LHC	OKAWA, Hideki
11:45	ILC, project status and physics with focus on electroweak symmetry breaking	FUJII, Keisuke

Oral session - Tamokuteki Hall (Room B243) (14:00 - 16:00)

time	title	presenter
14:00	Charged Higgs bosons in 2HDMs at the LHC	MORETTI, Stefano
14:30	The alignment limit in two-Higgs-doublet models	KRAML, Sabine
15:00	Comparing extended scalar sectors at the LHC	SERRA RIBEIRO DOS SANTOS, Rui Alberto
15:30	Threshold corrections to the heavy Higgs decay	YOKOYA, Hiroshi
15:45	Exploring a heavy charged Higgs using jet substructure at the LHC	SHARMA, Pankaj

Oral session - Tamokuteki Hall (Room B243) (16:30 - 18:30)

time	title	presenter
16:30	Probing the Higgs self coupling via single Higgs production at the LHC	GIARDINO, Pier Paolo
17:00	Higgs boson couplings in the non-minimal Higgs sectors	YAGYU, Kei
17:30	Higgs characterisation: spin and parity properties	MAWATARI, Kentarou
18:00	Heavy Higgs boson lineshape in the $t\bar{t}b\bar{b}$ final state	ZHANG, Cen
18:15	Vacuum Structure of the complex singlet-doublet model	FERREIRA, Pedro

Thursday, 2 March 2017

Oral session - Tamokuteki Hall (Room B243) (08:45 - 10:30)

time	title	presenter
08:45	SUSY Higgs Bosons in the Light of LHC Data	HEINEMEYER, Sven
09:15	Complete Renormalisation of the NMSSM at One-Loop	BOUDJEMA, Fawzi
09:45	Signals at LHC and dark matter in a supersymmetric left-right model	HUITU, Katri
10:15	Coupled system of two ~ 125 GeV Higgs bosons in the (complex) NMSSM	MUNIR, Shoaib

Oral session - Tamokuteki Hall (Room B243) (11:00 - 12:30)

time	title	presenter
11:00	Origin of Higgs: gauge-Higgs unification at LHC/ILC and beyond	HOSOTANI, Yutaka
11:30	Theory and Phenomenology of Composite 2-Higgs Doublet Models	DE CURTIS, Stefania
12:00	Light Higgs from Pole Attractor	MATSEDONSKYI, Oleksii
12:15	Bound States via Higgs Exchanging and Heavy Resonant Di-Higgs	KANG, zhaofeng

Oral session - Tamokuteki Hall (Room B243) (14:00 - 16:00)

time	title	presenter
14:00	Doublet and singlet extensions of the SM	KRAWCZYK, Maria
14:30	Topics in extended Higgs sector Models	ARHRIB, Abdesslam
15:00	Higgs boson pair production in the Georgi-Machacek model at the LHC	CHIANG, Cheng-Wei
15:30	New physics deviations in Higgs pair production at the LHC	GROEBER, Ramona
15:45	Enhanced di-Higgs signals at hadron colliders probe singlet scalar, coupled to colored sector	NISHIWAKI, Kenji

Poster Session I - Kaigi-Shitsu (Room B136) (16:30 - 18:30)

title	presenter	board
Double Higgs production at the 14 TeV LHC and the 100 TeV pp-collider	LI, Gang	
Fine-Tuning in the BLSSM	KING, Simon	
Exotic Higgs Decays at the LHeC	ZHANG, Chen	
Dark Matter Annihilating into Sterile Neutrino	TANG, Yi-Lei	
Derivative interpretation of matrix model and gravity	KAWANA, Kiyoharu	
A search for a light $L_{\mu}-L_{\tau}$ gauge boson at Belle-II	HOSHINO, Shihori	
Two-loop effective potential for a scale-invariant Higgs sector	FUJITANI, Yoshio	
Indirect search of additional Yukawa interactions by precision measurements of Higgs boson couplings	KIKUCHI, Mariko	
Discrimination of extended Higgs models using the synergy between measurements of gravitational waves and colliders experiments	HASHINO, Katsuya	
Higgs-flavon mixing and Dark Matter	KEUS, Venus	

Non-minimal quartic inflation in classically conformal U(1)' extended standard model	TAKAHASHI, Dai-suke	
Destabilization of the electroweak vacuum from preheating	RUSAK, Stanislav	
Thermal Freeze-Out of Two-Component Dark Matter	AOKI, Mayumi	

Friday, 3 March 2017

Oral session - Tamokuteki Hall (Room B243) (08:45 - 10:15)

time	title	presenter
08:45	Neutrino experiments at Kamioka	NAKAHATA, Masayuki
09:30	Gravitational wave astronomy	KAWAMURA, Seiji

Oral session - Tamokuteki Hall (Room B243) (10:45 - 12:00)

time	title	presenter
10:45	LISA as a probe of the Higgs sector and TeV-scale particle physics	NARDINI, Germano
11:15	Probing physics behind the electroweak symmetry breaking at future gravitational wave interferometers and future collider experiments	KAKIZAKI, Mitsuru
11:45	Analytic approach to gravitational waves from bubble collisions	JINNO, Ryusuke

Saturday, 4 March 2017

Oral session - Tamokuteki Hall (Room B243) (08:45 - 10:30)

time	title	presenter
08:45	Electroweak Baryogenesis	RAMSEY-MUSOLF, Michael
09:15	Electroweak Baryogenesis with Flavor Violation	SENAHA, Eibun
09:45	Electroweak baryogenesis and flavor physics	KONSTANDIN, Thomas Markus
10:15	The hierarchical two-Higgs-doublet model: probing the EW phase transition at the LHC	MIMASU, Ken

Oral session - Tamokuteki Hall (Room B243) (11:00 - 12:30)

time	title	presenter
11:00	The Multiple Point Principle (TBC)	NIELSEN, Holger
11:30	Renormalization-Scale Uncertainty in the Decay Rate of False Vacuum	SHOJI, Yutaro
11:45	Higgs-portal assisted Higgs inflation	KIM, Jinsu
12:00	Dark matter and bounds on the reheating temperature	TAKAHASHI, Tomo

Oral session - Tamokuteki Hall (Room B243) (14:00 - 15:30)

time	title	presenter
14:00	Breit-Wigner resonance in cosmology	GRZADKOWSKI, Bohdan
14:30	DM models with (pseudo)scalar mediators	KO, Pyungwon
15:00	Dark matter physics, flavor physics and LHC constraints in the dark matter model with a bottom partner	OMURA, Yuji
15:15	Bosonic seesaw portal dark matter	ISHIDA, Hiroyuki

Poster Session II - Kaigi-Shitsu (Room B136) (16:00 - 18:00)

title	presenter	board
Renormalized Field Vacuum Fluctuations and Inflationary Electroweak Vacuum Instability	MATSUI, Hiroki	
Perturbative Unitarity vs. Electroweak precision tests in Extend Higgs Sectors	NAGAI, Ryo	
Hidden QCD Phase Transition in a Scale Invariant Theory	GOTO, Hiromitsu	
The long-lived gluino displaced verities search at LHC	ITO, Hayato	
Collider signals of W' and Z' bosons in the gauge-Higgs unification	FUNATSU, Shuichiro	
Direct and indirect searches of MeV scale gauge boson in $L_{\mu} - L_{\tau}$ symmetry	KANETA, Yuya	
Light Stop, Heavy Higgs, and Heavy Gluino in Supersymmetric Standard Models with Extra Matters	KURAMOTO, Wataru	
Constraints on mixed complex scalar WIMP dark matter scenarios	SANTA, Akiteru	
A Dirac neutrino mass model with dark matter and electroweak baryogenesis	SAKURAI, Kodai	
Strongly interacting theories and various structure of Yukawa couplings (in progress)	HASHIMOTO, Michio	

Gravitational relaxation of electroweak hierarchy problem	MATSUMOTO, Yoshio	
WW scattering in a radiative electroweak symmetry breaking scenario	ENDO, Kazuhiro	
D-brane instantons for Kähler moduli stabilization in semi-realistic magnetized orbifold models	UEMURA, Shohei	
Loop-Induced Neutrino Masses in Gauged $U(1)_{B-L}$ Extensions with Dark Matter	TSUMURA, KOJI	

Sunday, 5 March 2017

Oral session - Tamokuteki Hall (Room B243) (08:45 - 10:30)

time	title	presenter
08:45	Toward the Origin of the Neutrino Mass	SUGIYAMA, Hiroaki
09:15	Scale Invariant, Dark Matter and Neutrino Mass	AHRICHE, Amine
09:45	Physics of right-handed neutrinos with GeV-scale masses	ASAKA, Takehiko
10:15	Displaced heavy neutrinos from Higgs decay in abelian extensions of the Standard Model	DELLE ROSE, Luigi

Oral session - Tamokuteki Hall (Room B243) (11:00 - 12:30)

time	title	presenter
11:00	A consistency check for new resonance at the LHC and beyond	PARK, Seongchan
11:30	Electroweak production of multiple scalars in the two-Higgs doublet model	ENBERG, Rikard
12:00	Gravitational waves for exploring the first order phase transition with Higgs portal dark matter	MATSUI, Toshinori
12:15	Models of radiatively induced Quark and Lepton Masses with extra U(1) gauge symmetry	NOMURA, Takaaki

Oral session - Tamokuteki Hall (Room B243) (14:00 - 15:30)

time	title	presenter
14:00	Linking LFV Higgs couplings and CP violation beyond the SM	DIAZ-CRUZ, Lorenzo
14:30	Muon specific two-Higgs doublet model	ABE, Tomohiro
14:45	Splitting Mass Spectra and Muon g-2 in Higgs-Anomaly Mediation	YOKOZAKI, Norimi
15:00	e^+e^- to $h\bar{t}t$ as a probe of Higgs CP property	ZHENG, Ya-Juan
15:15	Production of neutral and charged Higgs bosons at the future collider ep LHeC	HERNÁNDEZ, Jaime

Summary session (15:45 - 16:15)

time	title	presenter
15:45	Workshop Summary and Concluding Remark	KANEMURA, Shinya