

Toyama International Workshop on "Higgs as a Probe of New Physics 2013" (HPNP2013)
February 13–16, 2013, University of Toyama, Toyama, Japan

Program

Last Updated: February 9, 2013

13 February (Wed)						
8:00–8:45 Kaigi–Shitsu (B136) Registration						
8:45–9:00						
9:00–9:30		Tamokuteki Hall (B243)	Opening Session	Chair: T. Shindou		
9:00	9:30	Opening remark		S. Kanemura	University of Toyama	30 min
		Welcome Address (President of University of Toyama)		Prof. S. Endo	University of Toyama	
		Announcements		M. Kakizaki	University of Toyama	
9:30–10:30		Tamokuteki Hall (B243)	Invited Talk	Chair: T. Shindou		
9:30	10:30	Overview of the Higgs physics (I)		A. Djouadi	Laboratoire de Physique Théorique d'Orsay	60 min
10:30–10:50 Break (20 min)						
10:50–12:20		Tamokuteki Hall (B243)	Invited Talks	Chair: S. Kanemura		
10:50	11:40	Current Status and Future Prospect of the LHC Experiment		J. Tanaka	ICEPP, University of Tokyo	50 min
11:40	12:20	Inert Doublet Model with 125 GeV Higgs		M. Krawczyk	University of Warsaw	40 min
12:20–13:30 Lunch (70 min)						
13:30–15:00		Tamokuteki Hall (B243)	Higgs WG	Chair: J. Kubo		
13:30	14:00	Electroweak Baryogenesis		E. Senaha	Korea Institute for Advanced Study	30 min
14:00	14:30	Dark Matter, Inflation and Higgs Physics		T. Nabeshima	University of Toyama	30 min
14:30	15:00	Neutrino Mass in TeV–Scale New Physics Models		H. Sugiyama	University of Toyama	30 min
15:00–15:20 Break (20 min)						
15:20–16:50		Tamokuteki Hall (B243)	Contributed Talks	Chair: A. Arhrib		
15:20	15:50	Status of Inert Doublet Model in the light of the 125 GeV scalar		M. Tytgat	Université libre de Bruxelles	30 min
15:50	16:20	Higgs at Seesaw Type II		E. J. Chun	Korea Institute for Advanced Study	30 min
16:20	16:50	Radiative Seesaw Models and Dark Matter		J. Kubo	Kanazawa University	30 min
16:50–17:10 Break (20 min)						
17:10–18:10		Tamokuteki Hall (B243)	Contributed Talks	Chair: M. Tytgat		
17:10	17:30	Higgs couplings beyond the Standard Model		G. D. La Rochelle	L'Institut de Physique Nucléaire de Lyon	20 min
17:30	17:50	LHC SUSY searches after the Higgs discovery: respecting the muon $g-2$		S. Iwamoto	University of Tokyo	20 min
17:50	18:10	Higgs quantum numbers in vector boson fusion		K. Mawatari	Vrije Universiteit Brussel	20 min

14 February (Thu)						
9:00–11:10		Tamokuteki Hall (B243)	Invited Talks	Chair: M. Krawczyk		
9:00	10:00	Alternative futures for the Higgs data: are we approaching or receding from the decoupling limit?		H. E. Haber	University of California, Santa Cruz	60 min
10:00	10:40	Higgs boson as a probe of dark sectors with dark gauge symmetries		P. Ko	Korea Institute for Advanced Study	40 min
10:40	11:10	Avoiding Death by Vacuum		P.M. Ferreira	ISEL& CFTC Universidade de Lisboa	30 min
11:10–11:30 Break (20 min)						
11:30–12:30		Tamokuteki Hall (B243)	Contributed and Invited Talks	Chair: M. Tanimoto		
11:30	11:50	Gamma-rays constraint on Higgs Production from Dark Matter Annihilation		T. Toma	Durham University	20 min
11:50	12:10	Neutrino Oscillation		J. Kameda	ICRR, University of Tokyo	20 min
12:10	12:30	XMASS		B. Yang	ICRR, University of Tokyo	20 min
Excursion (Kamioka Tour)						
Banquet (Okudaya Ryokan)						

15 February (Fri)						
9:00–10:40		Tamokuteki Hall (B243)	Invited Talks	Chair: H. Haber		
9:00	10:00	Overview of the Higgs physics (II) : Implications of the Higgs discovery for the SM and SUSY		A. Djouadi	Laboratoire de Physique Théorique d'Orsay	60 min
10:00	10:40	126 GeV Higgs boson and universality relations in the SO(5)xU(1) gauge–Higgs unification		Y. Hosotani	Osaka University	40 min
10:40–11:00 Break (20 min)						
11:00–12:00		Tamokuteki Hall (B243)	Invited Talks	Chair: S. Moretti		
11:00	11:30	The ILC Project		H. Yamamoto	Tohoku University	30 min
11:30	12:00	Physics at the ILC		K. Fujii	KEK	30 min
12:00–13:00 Lunch (60 min)						
13:00–14:30		Tamokuteki Hall (B243)	Higgs WG	Chair: S. Iso		
13:00	13:30	Grand Unified Theories and Higgs Physics		T. Yamashita	Aichi Medical University	30 min
13:30	14:00	Scenarios with Composite Higgs Bosons		M. Hashimoto	Chubu University	30 min
14:00	14:30	SUSY Extended Higgs Sectors and Strong Dynamics		T. Yamada	University of Tokyo	30 min
14:30–14:50 Break (20 min)						
14:50–16:40		Tamokuteki Hall (B243)	Contributed Talks	Chair: Y. Hosotani		
14:50	15:20	Implication of 126 GeV Higgs boson for Planck scale physics		S. Iso	KEK	30 min
15:20	15:40	Bare Higgs mass and potential at UV cutoff		K. Oda	Kyoto University	20 min
15:40	16:00	Higgs boson mass in low energy SUSY models with vector-like matters		N. Yokozaki	Kavli Institute for the Physics and Mathematics of the Universe	20 min
16:00	16:20	LHC Higgs Signatures from Extended Electroweak Gauge Symmetry		T. Abe	Tsinghua University	20 min
16:20	16:40	Light charged particles in light of higgs to diphoton rate		S. Jung	Korea Institute for Advanced Study	20 min
16:40–17:00 Break (20 min)						
17:00–18:30		Kaigi–Shitsu (B136)	Poster Session			

16 February (Sat)						
9:00–10:10		Tamokuteki Hall (B243)	Invited Talks	Chair: P. M. Ferreira		
9:00	9:40	A 4D Composite Higgs Model: testing its scalar sector at the LHC		S. Moretti	NExT, University of Southampton	40 min
9:40	10:10	Diphoton excess in extended Higgs models		A. Arhrib	Abdelmalek Essaadi University	30 min
10:10–10:30		Break (20 min)				
10:30–12:10		Tamokuteki Hall (B243)	Invited Talks	Chair: P. Ko		
10:30	11:00	Testing custodial symmetry in Higgs sector of Georgi–Machacek model		C. W. Chiang	National Central University	30 min
11:00	11:30	2HDMs at the LHC – the story so far		R. Santos	ISEL& CFTC Universidade de Lisboa	30 min
11:30	12:10	Current Status and Future Prospect of Flavor Physics		T. Goto	KEK	40 min
12:10–13:20		Lunch (70 min)				
13:20–14:50		Tamokuteki Hall (B243)	Higgs WG	Chair: C. Chiang		
13:20	13:50	Two Higgs Doublet Models		K. Tsumura	Nagoya University	30 min
13:50	14:20	Higgs Triplet Models		K. Yagyu	National Central University	30 min
14:20	14:50	B Physics and Extended Higgs Sectors		R. Watanabe	Osaka University	30 min
14:50–15:10		Break (20 min)				
15:10–15:50		Tamokuteki Hall (B243)	Contributed Talks	Chair: R. Santos		
15:10	15:30	Flavor Physics in the multi-Higgs-Doublet Models		Y. Omura	Technische Universität München	20 min
15:30	15:50	Higgs-dilaton mixing using the modified dilaton couplings to the SM fields		D. W. Jung	Korea Institute for Advanced Study	20 min
15:50–16:45		Tamokuteki Hall (B243)	Summary Session	Chair: A. Djouadi		
15:50	16:00	Invitation to the Higgs Working Group		M. Kakizaki	University of Toyama	10 min
16:00	16:20	Poster Session Summary		T. Shindou	Kogakuin University	20 min
16:20	16:40	Workshop Summary and Concluding Remark		S. Kanemura	University of Toyama	20 min
16:40	16:45	Announcements				5 min