

KEK-PH2018 Timetable

Tuesday, 13 February 2018

- 09:00 - 09:30 Registration
- 09:30 - 10:30 Talks
Convener: Mihoko Nojiri (KEK)
- 09:30 **Late-time magnetogenesis 30'**
Speaker: Kiwoon Choi (CTPU, IBS)
- 10:00 **Lovely phase space 30'**
Speaker: Tom Melia (Kavli IPMU)
- 10:30 - 11:00 Tea Time
- 11:00 - 12:00 Talks
Convener: Alejandro Ibarra (Technical University of Munich)
- 11:00 **Axion coupled to hidden sector 30'**
Speaker: Fuminobu Takahashi (Tohoku University)
- 11:30 **Multi-Messenger Astrophysics in the Gravitational Wave Era 30'**
Speaker: Kunihito Ioka (YITP, Kyoto University)
- 12:00 - 13:30 Lunch
- 13:30 - 15:30 Joint Session with Muon g-2 Workshop
Convener: Bradley Lee Roberts (Boston University)
Location: Kobayashi Hall, Kenkyu-honkan
- 13:30 **Belle II overview 30'**
Speaker: Phillip Urquijo (University of Melbourne)
- 14:00 **Fermilab muon g-2 experiment 30'**
Speaker: Sudeshna Ganguly (University of Illinois at Urbana-Champaign)
- 14:30 **J-PARC muon g-2 experiment 30'**
Speaker: Takayuki Yamazaki (KEK)
- 15:00 **New Physics and the Muon g-2 30'**
Speaker: Hooman Davoudiasl (Brookhaven National Laboratory)
- 15:30 - 15:50 Tea Time
- 15:50 - 17:30 Short Talks
Convener: Fuminobu Takahashi (Tohoku University)
- 15:50 **High-energy neutrinos from multi-body decaying dark matter 20'**
Speaker: Nagisa Hiroshima (KEK, ICRR)
- 16:10 **Search for New physics with High multiplicity from High energy cosmic rays 20'**
Speaker: Yongsoo Jho (Yonsei University)
- 16:30 **Thermal Gravitational Contribution to Dark Matter Production 20'**
Speaker: Yong Tang (University of Tokyo)
- 16:50 **Enhanced Axion-Photon Coupling in a GUT with Hidden Photon 20'**
Speaker: Norimi Yokozaki (Tohoku University)

Wednesday, 14 February 2018

- 09:00 - 10:30 Talks
Convener: Michelangelo Mangano (CERN)
- 09:00 **Colored Dark Matter 30'**
Speaker: Alessandro Strumia (Pisa U & INFN & CERN)
- 09:30 **Addressing theoretical uncertainties in direct dark matter searches 30'**
Speaker: Ibarra Alejandro (Technical University of Munich)
- 10:00 **Recent PandaX-II Results on Dark Matter Search and PandaX-4T Upgrade Plan 30'**
Speaker: Ning Zhou (Shanghai Jiao Tong University)
- 10:30 - 11:00 Tea Time
- 11:00 - 12:00 Talks
Convener: Matthew Reece (Harvard University)
- 11:00 **Higgs precision: a window to new physics 30'**
Speaker: Kentarou Mawatari
- 11:30 **Analytic Boosted Boson Discrimination at the LHC 30'**
Speaker: Ian Mout (Berkeley)
- 12:00 - 12:10 Group Photo
- 12:10 - 13:30 Lunch
- 13:30 - 15:30 Talks
Convener: Kentarou Mawatari

- 13:30 **SM, Higgs, and BSM Physics at CMS** 50'
Speaker: Christopher Neu (University of Virginia)
- 14:20 **Latest SM results with the ATLAS detector (including SM-Higgs)** 35'
Speaker: Federico Sforza (Tufts University)
- 14:55 **Latest BSM results with the ATLAS detector** 35'
Speaker: Arturo Sanchez Pineda (Universita di Udine, ICTP and CERN)

15:30 - 16:00

Tea Time

16:00 - 17:00

Short Talks

- Convener: Terada Takahiro (KEK)
- 16:00 **Weak Gravity Conjecture, Multiple Point Principle and the Standard Model Landscape** 20'
Speaker: Yuta Hamada (University of Wisconsin-Madison, KEK)
- 16:20 **Gravitational wave emission and oscillon formation in string axiverse** 20'
Speaker: Naoya Kitajima (Nagoya University)
- 16:40 **Cosmological implications of quantum scale invariance** 20'
Speaker: Kengo Shimada (EPFL)

17:00 - 19:00

Poster Session

- 17:00 **Probing Higgs self-coupling of a classically scale invariant model in $SU(2)_C \times U(1)_B$** 1h0'
Speaker: Yoshio Fujitani
- 17:00 **Indirect test of CP violation in extended Higgs sectors by precision measurements of Higgs boson couplings** 1h0'
Speaker: Katsuya Hashino (University of Toyama / Osaka university)
- 17:00 **Correlation between the decays $h \rightarrow \gamma \gamma$ and $h \rightarrow gg$ in the MSSM with quark flavor violation** 1h0'
Speaker: Keisho Hidaka (東京大学)
- 17:00 **Gravitational waves from first order electroweak phase transition in models with the $SU(1)_X$ gauge symmetry** 1h0'
Speaker: Toshinori Matsui (KIAS)
- 17:00 **Revisiting regularization for the Higgs mass with Kaluza-Klein states and Casimir effect from extra dimensions** 1h0'
Speaker: Yoshio Matsumoto (National Institute of Technology, Tsuyama College)
- 17:00 **Phenomenological study of very special relativity** 1h0'
Speaker: Alekha Chandra Nayak (Indian Institute of Technology, Kanpur)
- 17:00 **A hidden $U(1)$ gauge symmetry model realizing a neutrino specific two Higgs doublet model** 1h0'
Speaker: Takaaki Nomura (KIAS)
- 17:00 **Dynamical scalegenesis via multiple seesaw mechanisms** 1h0'
Speaker: Shohei Okawa (Nagoya University)
- 17:00 **Signals of the gauge-Higgs unification in lepton colliders** 1h0'
Speaker: Yuta Orihara (Czech Technical University)
- 17:00 **Di-hadronic molecular systems** 1h0'
Speaker: Dharmesh Rathaud (SVNIT-Surat, India)
- 17:00 **Gravity mediation saves Universal Extra Dimensions** 1h0'
Speaker: Divya Sachdeva (University of Delhi)
- 17:00 **Hyper Weakly Interacting light $U(1)$ from the String Compactifications** 1h0'
Speaker: Shohei Uemura (Kyoto Sangyo University)
- 17:00 **Simultaneous interpretation of K and B anomalies in terms of chiral-flavorful vectors** 1h0'
Speaker: Kei Yamamoto (KMI, Nagoya University)
- 17:00 **Improved analysis for CLFV processes $\mu \rightarrow e \gamma$ with gluon operators** 1h0'
Speaker: Masato Yamanaka (Matsuyama Institute)
- 17:00 **High- p_T diphoton production near top-loop threshold** 1h0'
Speaker: Hiroshi Yokoya (KIAS)
- 17:00 **Dark Gauge $U(1)$ and the DAMPE Signal** 1h0'
Speaker: Mohammadreza Zakeri (Institute of Theoretical Physics (ITP), CAS)
- 17:00 **$SU(2)_C \times U(1)_B$ in a general two Higgs doublet model** 1h0'
Speaker: Syuhei Iguro (Nagoya University)

18:00 - 21:00

Banquet

Thursday, 15 February 2018

09:00 - 10:30

Talks

- Convener: Alessandro Strumia (Pisa U & INFN & CERN)
- 09:00 **Naturalizing SUSY with the Relaxion and the Inflaton** 30'
Speaker: Tony Gherghetta (University of Minnesota)
- 09:30 **Distinguishing axions from WIMPs as CDM** 30'
Speaker: Sacha Davidson
- 10:00 **Hidden sector behind the quark mixing** 30'
Speaker: Yuji Omura (KMI, Nagoya Univ.)

- 10:30 - 11:00 Tea Time
- 11:00 - 12:00 Talks
Convener: Pyungwon Ko (KIAS)
- 11:00 **Recent developments on rare B-decays 30'**
Speaker: Christoph Bobeth (Technical University Munich)
- 11:30 **Neutrino Oscillation Experiments and Recent Results from T2K 30'**
Speaker: Konosuke Iwamoto (University of Tokyo)
- 12:00 - 13:30 Lunch
- 13:30 - 15:30 Short Talks
Convener: Yuji Omura (KMI, Nagoya Univ.)
- 13:30 **Quark jet fraction in multi-jet final states and quark gluon discrimination 20'**
Speaker: Yasuhito Sakaki (KAIST)
- 13:50 **Searching for resonances in the Higgs cascade decay 20'**
Speaker: Dong Woo Kang (Yonsei University)
- 14:10 **The top threshold effect in the $\gamma\gamma$ production at the LHC 20'**
Speaker: Prasenjit Sanyal (Indian Institute of Technology Kanpur)
- 14:30 **H-COUP : Higher order calculations of Higgs observables in various extended Higgs sectors 20'**
Speaker: Kodai Sakurai (University of Toyama/ Osaka University)
- 14:50 **Revisiting Stop Coannihilation 20'**
Speaker: Jason Evans (KIAS)
- 15:10 - 15:50 Tea Time
- 15:50 - 17:30 Short Talks
Convener: Eung Jin Chun (KIAS)
- 15:50 **Gluino-mediated electroweak penguin with flavor-violating trilinear couplings 20'**
Speaker: Daiki Ueda (Sokendai)
- 16:10 **LHCb anomaly and B physics in flavored Z' models with flavored Higgs doublets 20'**
Speaker: Yoshihiro Shigekami (Nagoya University)
- 16:30 **Effective Higgs-nucleon coupling from lattice QCD 20'**
Speaker: Laurent Lellouch (CNRS and Aix-Marseille U.)
- 16:50 **Model independent evaluation of the Wilson coefficient of the Weinberg operator in QCD 20'**
Speaker: Tomohiro Abe (Nagoya University)
- 17:10 **Ab initio study of HVP contributions to anomalous magnetic moments of all leptons 20'**
Speaker: Kohtaroh Miura (CPT, Aix-Marseille Universite)

Friday, 16 February 2018

- 09:00 - 10:30 Talks
Convener: Tony Gherghetta (University of Minnesota)
- 09:00 **Unification from Scattering Amplitudes 30'**
Speaker: Clifford Cheung (Caltech)
- 09:30 **Cosmology of a Fine-Tuned SUSY Higgs 30'**
Speaker: Matthew Reece (Harvard University)
- 10:00 **An Update on Supersymmetric String Landscape 30'**
Speaker: Taizan Watari
- 10:30 - 11:00 Tea Time
- 11:00 - 12:00 Short Talks
Convener: Sacha Davidson (IN2P3/CNRS)
- 11:00 **Search for Dark Neutrino via Vacuum Magnetic Birefringence Experiment 20'**
Speaker: Kimiko Yamashita (Ochanomizu University)
- 11:20 **Majoron as the QCD axion in a radiative seesaw model 20'**
Speaker: Takahiro Ohata (Kyoto University)
- 11:40 **Probing new intra-atomic force with isotope shifts 20'**
Speaker: Yasuhiro Yamamoto (Yonsei University)
- 12:00 - 13:30 Lunch
- 13:30 - 14:50 Talks
Convener: Ryuichiro Kitano (KEK)
- 13:30 **Theoretical uncertainties of monojet signatures from compressed mass spectra 25'**
Speaker: Lim Sung Hak (KEK)
- 13:55 **Probing flavour-violating decays of squarks at the LHC 25'**
Speaker: Amit Chakraborty (KEK)
- 14:20 **Beyond the LHC: physics goals and CERN's plans for future colliders 30'**
Speaker: Michelangelo Mangano (CERN)
- 14:50 - 15:20 Closing