

2nd International Workshop on

Particle Physics and Cosmology after Higgs and Planck

後希格斯與普朗克粒子物理與宇宙學國際研討會

October 8-9, 2014 - National Center for Theoretical Sciences, Hsinchu, Taiwan

October 10-11, 2014 - Fo-Guang-Shan, Kaohsiung, Taiwan

Program

Oct. 8 (Wed.) Place: 8F, General Building II, National Tsing Hua University, Hsinchu

9:00 -9:20 Registration (8F, General Building II, NTHU, Hsinchu)

Session Chairman Hai-Yang Cheng (Academia Sinica)

9:20-9:30 Xiao-Gang He (NCTS): Welcome Speech

9:30-9:55 H. Fritzsch (University of Munich)
Composite Weak Bosons

09:55-10:20 Eung Jin Chun (KIAS, Korea)
Higgs mass in supersymmetric inverse seesaw

10:20-10:40 Yoshio Koide (Osaka Univ.)
Spectroscopy of Family Gauge Bosons

10:40-10:55 Conference Photo + Coffee Break

Session Chairman Xiao-Gang He (NCTS)

10:55-11:15 Chuan-Ren Chen (NTNU)
New Physics Effects in Higgs Pair Production

11:15-11:35 Rachik Soualah (CERN)
Experimental searches for the Higgs boson in the $t\bar{t}H$ production mode
with the ATLAS detector

11:35-11:55 Dilip K. Ghosh (INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE)
Implications of 98 GeV and 125 GeV Higgs scenario in non-decoupling
SUSY with updated ATLAS, CMS

11:55-12:15 Huitzu Tu (Academia Sinica)
Supernova Bounds on Weinberg's Goldstone Bosons

12:15-12:35 Yoshitaka Kuno (Osaka University)
Search for Charged Lepton Flavor Violation at J-PARC

12:35-13:30 Lunch Break

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Session Chairman Kingman Cheung (NTHU)

13:30-13:55 Raymond Robert Volkas (University of Melbourne)
The Hierarchy Problem: Scale Invariance and Poincare Protection

13:55-14:20 Hsiang-nan Li (Academia Sinica)
Jet substructures of boosted Higgs

14:20-14:45 Seong Chan Park (Sungkyunkwan University, Korea)
Higgs inflation and precision measurement of top quark mass

14:45-15:10 Po-Yen Tseng (NTHU)
Higgcision updates 2014

15:10-15:35 Guey-Lin Lin (NCTU)
Searching for light dark matter through neutrino signature

15:35-15:50 Coffee Break

Session Chairman Chong-Sun Chu (NTHU/NCTS)

15:50-16:15 Shin'ichi Nojiri (Nagoya Univ.)
New theory of massive spin-two field

16:15-16:35 Takuya Shiraishi (Nagoya Univ.)
The OPERA experiment

16:35-16:55 Kazuharu Bamba (Ochanomizu University)
Inflationary models and the recent observations

16:55-17:15 Y. Koyama (NTHU)
Large field Inflations from Higher-Dimensional Gauge Theories

17:15-17:35 Masahide Yamaguchi (Tokyo Institute of Technology)
Anisotropic inflation reexamined

17:35-17:55 Wolung Lee (NTNU)
On the Inflationary Magnetogenesis

18:00-20:00 Reception Dinner

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Oct. 9 (Thur.) Place: 8F, General Building II, National Tsing Hua University, Hsinchu

Session Chairman Tzu-Chiang Yuan (Academia Sinica)

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|-------------|---|
| 9:00 - 9:25 | Yuan-Hann Chang (NCU)
Status of AMS2 |
| 9:25 -9:50 | Henry Wong (Acadenia Sinica)
Sub-keV Germanium Detectors for Direct Dark Matter Searches |
| 9:50 -10:15 | Qing Wang (Tsinghua U, Beijing)
Tensions in dark matter direct detection |
| 10:15-10:40 | Yu-Feng Zhou (ITP, CAS)
Propagation of cosmic rays and dark matter indirect detection |
| 10:40-11:00 | Coffee Break |

Session Chairman Raymond Robert Volkas (University of Melbourne)

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|-------------|---|
| 11:00-11:25 | Salah Nasri (United Arab Emirates University)
Neutrino mass models and implications to cosmology |
| 11:25-11:50 | Carlo Giunti (INFN/ Universita' di Torino, Italy)
Phenomenology of Light Sterile Neutrinos |
| 11:50-12:15 | Alexander I.Studenikin (Moscow State University)
Neutrino Electromagnetic Properties |
| 12:15-12:35 | Wei Wang (SYSU, Guangzhou)
Current and future reactor neutrino experiments |
| 12:35-13:30 | Lunch Break |
| 14:00-19:00 | Trip to Kao-Hsiung |

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Program

Oct. 10 (Friday) Place: Fo-Guang-Shan, Kao-Hsiung

Session Chairman Yu-Feng Zhou (ITP, CAS)

9:00 -9:25 John N. Ng (TRIUMF, Canada)
How Majoron connects to dark matter and dark radiation

9:25 -9:50 Pyungwon Ko (KIAS, Korea)
Dark matter models with gauged hidden sectors

9:50-10:15 Robert Thomas Foot (University of Melbourne)
Dark matter with mirror model

10:15-10:40 Jinn-Quk Gong (APCTP, Korea)
Dark matter and the formation of small scale structure

10:40-11:00 Coffee Break

Session Chairman Qing Wang (Tinghua Univ., Beijing)

11:00-11:20 Yu-Feng Li (IHEP, CAS)
The JUNO experiment

11:20-11:40 Shao-Min Chen (Tsinghua U, Beijing)
Neutrino physics possibilities in Jinping underground lab

11:40-12:00 Gui-Jun Ding (USTC, Hefei)
Neutrino flavor mixing and leptonic CP violation

12:00-12:20 Shu Luo (Xiamen University)
Neutrinos from the centre of GRB

12:20-12:40 Swee Ping Chia (University of Malaya)
Vertex Function of Double Photon Penguin

12:40-14:00 Lunch Break

14:00-17:30 Tour

17:30-19:30 Dinner

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Session Chairman Kazuharu Bamba (Ochanomizu University)

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|-------------|--|
| 19:30-19:50 | Da Huang (NTHU)
Multi-component Dark Matter |
| 19:50-20:10 | Yong Tang (KIAS, Korea)
Self-Interacting Dark Matter and Sterile Neutrinos |
| 20:10-20:30 | Zhao-Feng Kang (KIAS, Korea)
Miracles of Right-handed Neutrino Dark Matter By Scale Invariance |
| 20:30-20:45 | Yen-Hsun Lin (IoP/NCTU) *student
Indirect dark matter search: Implication on IceCube and JUNO |
| 20:45-21:00 | Yao-Yu Lin (LeCosPA/NTU) *Student
Gravitational Slingshot as a Solution to Cold Dark Matter Cusp-Core Problem |
| 21:00-21:15 | Chia-Chun Chang (NTNU) *Student
Probing Dark Energy Effects on Structure Formations |
| 21:15-21:30 | Yugo Abe (Shinshu University, Japan) *Student
Inflation from Higher-Dimensional Gravity and Gauge Theory |

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Oct. 11 (Sat.) Place: Fo-Guang-Shan, Kao-Hsiung

Session Chairman Wen-Li Yang (Northwest Univ., China)

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|-------------|---|
| 9:00 -9:20 | Jian-Xin Lu (USTC, Hefei)
Can a holography be inferred simply from thermodynamics? |
| 9:20 -9:40 | Yong-Chang Huang (Beijing University of Technology)
Canonical quantization theory of general singular QED system of
Fermi field interaction with generally decomposed gauge potential |
| 9:40-10:00 | Yu-Xiao Liu (Lanzhou Univ.)
Localization and mass spectrum of fermion on brane |
| 10:00-10:20 | Masaya Kohda (CYCU)
Rates and Asymmetries of $B \rightarrow \pi l^+ l^-$ Decays |
| 10:20-10:40 | Yu-Kuo Hsiao (NCTS)
Glueball identification in baryonic B decays |
| 10:40-10:55 | Coffee Break |

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Session Chairman John N. Ng (TRIUMF, Canada)

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|-------------|--|
| 10:55-11:15 | Wei-Tou Ni (NTHU)
Recent Developments in Gravitational Wave Detection:
from Earth-Based Interferometers to CMB Polarization Observations |
| 11:15-11:35 | Xin Zhang (Northeastern University, Shenyang)
Sterile neutrinos: implications for cosmology after BICEP2 |
| 11:35-11:55 | I-Chin Wang (Tamkang University)
Naturally Large Tensor-to-scalar Ratio in Inflation |
| 11:55-12:15 | Chung-Chi Lee (NCTS)
Matter Power Spectrum in Exponential Gravity with Massive Neutrino |
| 12:15-12:35 | Zhi-Bing Li (SYSU, Guangzhou)
Axion condensation as a model of the dark matter |
| 12:35-12:55 | Keiko I. Nagao (Niihama College, Japan)
Measurement of dark matter distribution with directional detector |
| 12:55-14:00 | Lunch Break |
| 14:30-19:30 | Trip to Hsinchu |