



1st IBS-Honam Focus Program on Particle Physics Phenomenology

29 -31 August 2016, Department of Physics, Chonbuk National University



Monday, 29 August 2016

- 08:30 - 09:00 Registration & Breakfast
Location: Room 217
- 09:00 - 10:15 Lecture
Convener: Jae Sik Lee (Chonnam National University)
Location: Room 216
09:00 **Higgs Physics at Lepton Colliders (I) 1h15'**
Speaker: Shinya Kanemura (University of Toyama)
- 10:15 - 10:45 Coffee
Location: Room 217
- 10:45 - 12:00 Lecture
Convener: Jae Sik Lee (Chonnam National University)
Location: Room 216
10:45 **Higgs Physics at Lepton Colliders (II) 1h15'**
Speaker: Shinya Kanemura (University of Toyama)
- 12:00 - 13:30 Lunch
Location: 2nd floor, Jinsu Hall

- 13:30 - 15:30 Talks
Convener: Jeonghyeon Song (Konkuk University)
Location: Room 216
13:30 **Probing the Anomalous Top-Yukawa Coupling at the LHC 40'**
Speaker: Chih-Ting Lu (National Tsing Hua University)
14:10 **Precision Measurements of Higgs/Higgsinos: Implications for SUSY 40'**
Speaker: Kyu Jung Bae (IBS-CTPU)
14:50 **Exotic Signatures from Higgs to SUSY: Light to Heavy 40'**
Speaker: Doyoun Kim (IBS-CTPU)
- 15:30 - 16:00 Coffee
Location: Room 217
- 16:00 - 17:50 Talks
Convener: Kyu Jung Bae (IBS-CTPU)
Location: Room 216
16:00 **A Very Light Dilaton and Relaxion 40'**
Speaker: Deog-Ki Hong (Pusan National University)
16:40 **Higgs Inflation 40'**
Speaker: Seongchan Park (Yonsei University & KIAS)
17:20 **Higgs-portal Assisted Higgs Inflation 30'**
Speaker: Jinsu Kim (KIAS)
- 17:50 - 19:00 Dinner
Location: 2nd floor, Jinsu Hall



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Tuesday, 30 August 2016

08:30 - 09:00

Breakfast

Location: Room 217

09:00 - 10:15

Lecture

Convener: Seong Youl Choi (Chonbuk National University)

Location: Room 216

09:00 **Higgs Physics at Hadron Colliders (I)** 1h15'

Speaker: Rui Santos (ISEL & CFTC-UL)

10:15 - 10:45

Coffee

Location: Room 217

10:45 - 12:00

Lecture

Convener: Seong Youl Choi (Chonbuk National University)

Location: Room 216

10:45 **Higgs Physics at Hadron Colliders (II)** 1h15'

Speaker: Rui Santos (ISEL & CFTC-UL)

12:00 - 13:30

Lunch

Location: 2nd floor, Junsu Hall

13:30 - 15:30

Talks

Convener: Deog-Ki Hong (Pusan National University)

Location: Room 216

13:30 **Hidden Light Higgs Scenario in Two Higgs Doublet Models** 40'

Speaker: Sin Kyu Kang (Seoul-Tech)

14:10 **Interference Effects to Probe Other Higgs Bosons** 40'

Speaker: Jeonghyeon Song (Konkuk University)

14:50 **Phenomenology of Coleman-Weinberg Higgs** 40'

Speaker: Hyung Do Kim (Seoul National University)

15:30 - 16:00

Coffee

Location: Room 217

16:00 - 17:20

Talks

Convener: Sin Kyu Kang (Seoul-Tech)

Location: Room 216

16:00 **Di-Higgs from R-parity Violation for Neutrino Masses** 40'

Speaker: Eung Jin Chun (KIAS)

16:40 **P-wave Stoponium Signature at the LHC** 40'

Speaker: Yeo Woong Yoon (Konkuk University)

18:00 - 20:00

Banquet: Bibimbap Set

Location: Hanguk Jib



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29 –31 August 2016, Department of Physics, Chonbuk National University



Wednesday, 31 August 2016

08:30 - 09:00

Breakfast

Location: Room 217

09:00 - 10:15

Lecture

Convener: Ki-Young Choi (Chonnam National University)

Location: Room 216

09:00 **Lessons from the 750 GeV Diphoton Excess** 1h15'

Speaker: Hyun Min Lee (Chung-Ang University)

10:15 - 10:45

Coffee

Location: Room 217

10:45 - 12:00

Lecture

Convener: Ki-Young Choi (Chonnam National University)

Location: Room 216

10:45 **Higgs Portal to the Dark World** 1h15'

Speaker: Pyungwon Ko (KIAS)

12:00 - 13:30

Lunch

Location: 2nd floor, Jinsu Hall

13:30 - 15:30

Talks

Convener: Myeonghun Park (IBS-CTPU)

Location: Room 216

13:30 **Search for Electromagnetic and Strong Charged Particles in Di-photon Channel** 30'

Speaker: Dongjin Chway (Seoul National University)

14:00 **Bound States via Higgs Boson Exchanging and Resonant Di-Higgs** 30'

Speaker: Zhaofeng Kang (KIAS)

14:30 **CP Violation in Kaons, Precision Tests of ϵ_K** 30'

Speaker: Weonjong Lee (Seoul National University)

15:00 **Probing the First Order Electroweak Phase Transition by Measurements of Gravitational Waves in Scalar Extension Models** 30'

Speaker: Toshinori Matsui (KIAS)