

YITP Workshop : “Progress in Particle Physics”

June 29 – July 2, 2004

Yukawa Institute for Theoretical Physics, Kyoto University

June 29

9:00 – 10:30

Yoshio Koide (U. Shizuoka)

Can a Flavor Symmetry exist?

Haruhiko Terao (Kanazawa)

Democratic mass matrices by strong unification and the lepton mixing angles

Nao-aki Yamashita (Saga)

Neutrino Masses and Mixing Matrix from SU(1,1) Horizontal Symmetry

— coffee break —

11:00 – 12:00

Tetsuo Shindou (KEK)

Origins of CP phases in GUT models

Koichi Matsuda (Osaka)

Phenomenological analysis of lepton and quark Yukawa couplings in SO(10) two Higgs model

— lunch —

14:00 – 15:30

Tatsu Takeuchi (Virginia Tech)

Phenomenology of not-so-heavy neutral leptons

Toshihiko Ota (Osaka)

Lepton flavor violation via Higgs bosons

Masato Senami (ICRR, Tokyo)

$B \rightarrow \phi K_s$ in vector-like quark model

— coffee break —

16:00 – 18:00

Shinya Kanemura (Osaka)

A mechanism for the top-bottom mass hierarchy

Kenichi Senda (GUAS/KEK)

The observation of neutrino from J-PARC in Korea

Zenro Hioki (Tokushima)

Optimal-observable analysis of top production/decay at photon-photon collider

Hiroyuki Kawamura (KEK)

Soft gluon resummation in transversely polarized Drell-Yan process

June 30

9:00 – 10:30 (English session)

Michael Peskin (SLAC) [review]

Beyond the Constrained Minimal Supersymmetric Standard Model

Koichi Hamaguchi (DESY)

Supergravity at Colliders

— **coffee break** —

11:00 – 12:00

Satoshi Mishima (Tohoku)

Implication of Rare B Meson Decays on Squark Flavor Mixing

Hideo Itoh (Ibaraki)

Tauonic B decay in a supersymmetric model

— **lunch** —

14:00 – 15:30

Yuji Kajiyama (Kanazawa)

Double Suppression of FCNCs in Supersymmetric Model

Shuichiro Tao (Kyushu)

Electroweak Baryogenesis in the Next-to-MSSM

Keisho Hidaka (Tokyo Gakugei)

Impact of CP phases on the search for top and bottom squarks

— **coffee break** —

16:00 – 17:30

Koichi Yoshioka (Kyushu)

Heavy Gravitino, Heavy Moduli and Supersymmetric CP Problem

Masahiro Yamaguchi (Tohoku)

Revisiting Cosmology of Heavy Gravitino Scenario

Yutaka Sakamura (KAIST)

Geometry mediated SUSY breaking

18:00 – 20:00 — **Banquet** —

July 1

9:00 – 10:00

Atsushi Hosaka (RCNP, Osaka) [review]

Pentaquark particle — from the discovery to recent developments

— coffee break —

10:30 – 11:30 (English session)

Andrew Akeroyd (KEK)

New Physics effects on leptonic decays of D^+/D_s^+ mesons

Kenji Ogawa (GUAS/KEK)

Partition function and topological susceptibility of QCD using overlap fermion

— lunch —

13:00 – 15:00

Tomomi Ishikawa (Tsukuba)

Light hadron spectrum in 2+1 flavor full QCD by CP-PACS and JLQCD collaboration

Eigo Shintani (Tsukuba)

Neutron electric dipole moment with domain-wall fermion in quenched lattice QCD

Yasuhisa Kayaba (Tsukuba)

Charmed meson spectrum and decay constants with Relativistic heavy quark action

Shinya Matsuzaki (Nagoya)

Construction of a composite model based on the principle of Complementarity

— coffee break —

15:30 – 18:00 — Poster Session —

- Midori Obara (Ochanomizu) : Symmetric mass matrix with two zeros in SUSY SO(10) GUT, lepton flavor violations and leptogenesis
- Nobuhiro Maekawa (Kyoto) : E_6 Higgs sector with horizontal symmetry
- Akira Takamura (Toyota Nat. Col. Tech.) : New Method to Approximate Oscillation Probability and CP Violation in Matter
- Motoi Endo (Tohoku) : New Constraint on Squark Flavor Mixing from ^{199}Hg Electric Dipole Moment
- Masafumi Kurachi (Nagoya) : Generalized Weinberg Sum Rules in Deconstructed QCD
- Shinji Takeda (Tsukuba) : Schrödinger functional coupling with improved gauge actions in SU(3) gauge theory
- Mika Matsumori (Nagoya) : The analysis of $B \rightarrow \rho\gamma$ decay mode with pQCD approach
- Nobuhito Maru (RIKEN) : Supersymmetric Radius Stabilization in Warped Extra Dimensions
- Naoyuki Haba (Tokushima) : Dynamical symmetry breaking in 5D gauge-Higgs unification models
- Kouhei Hasegawa (Kobe) : Protecting the primordial baryon asymmetry in the $SU(2)_L$ triplet Higgs model compatible with KamLAND and WMAP
- Masahiro Ibe (Tokyo) : A solution to the baryon and dark matter coincidence puzzle in a \tilde{N} dominated early universe

July 2

9:00 – 10:30

Noriaki Kitazawa (Tokyo Metropolitan) [review]

Intersecting D-brane Models

Tatsuo Kobayashi (Kyoto)

Fermion masses and mixing angles in string models

— coffee break —

11:00 – 12:00

Toshifumi Yamashita (Kyoto)

General formula of effective potential in 5D SU(N) gauge theory on orbifold

Tomoaki Nagasawa (Kobe)

Higgsless gauge symmetry breaking with a large mass hierarchy

— lunch —

13:30 – 16:00

Kazunori Kohri (Osaka)

Hadronic Decay of Late-Decaying Particles and Big-Bang Nucleosynthesis

Fuminobu Takahashi (ICRR, Tokyo)

Does neutrino oscillations forbid large lepton asymmetry?

Eibun Senaha (GUAS/KEK)

Measurement of Higgs self-coupling and Electroweak baryogenesis

Tomo Takahashi (ICRR, Tokyo)

Accelerating Universe and Modification of Gravity

Takayuki Hirayama (Toronto)

Classical Ghosts and the Cosmological Constant