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
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 —
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
Yasuhsa 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 Wenberg 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 $B \to \rho\gamma$ decay mode with pQCD approach
Nobuhiro 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
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