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Description

The present volume documents the proceedings of a workshop sponsored by the Institute of Fundamental Theory at the University of Florida from February 11-13, 1994. Two thirds of the parameters used to describe the Standard Model come from the Yukawa couplings: nine masses of elementary fermions, three mixing angles, and one CP-violating angle. The articles serve as a wide-ranging introduction to mathematical treatment of quantum physics. There have been many attempts to build theories that explain these numbers, but so far none has proven conclusive. The rich variety of theoretical approaches documented here shows the vitality of this field of research, which offers tantalizing glimpses of physics beyond the Standard Model.

Yukawa Couplings and the Origins of Mass

Table of Contents

1. A New Bottom-Up Approach for the Construction of Fermion Mass Matrices, Carl H. Albright and Satyanarayan Nandi
2. Predicting the Top Quark, Higgs and Sparticle Masses in Supersymmetric Grand Unified Models, B. Ananthanarayan and Q. Shafi
3. Missing (up) Mass, Accidental Anomalous Symmetries and the Strong CP Problem, Tom Banks, Yosef Nir and Nathan Seiberg
4. Supergravity Solutions in the Low-tan β Fixed Point Region, V. Barger, M.S. Berger and P. Ohmann
5. Generic Properties of Yukawa Couplings in String Models, P. Binetruy
6. The Infrared Fixed Point of the Top Quark Mass and its Implications within the MSSM, M. Carena and C.E.M. Wagner
7. Soft Supersymmetry Breaking Parameters and Minimal SO(10) Unification, M. Carena and C.E.M. Wagner
8. Aspects of Radiative Electroweak Breaking in the Minimal Supersymmetric Extension of the Standard Model, Diego J. Castano
9. Fermion Masses from Superstring Models with Adjoint Scalars, Shyamoli Chaudhuri, Stephen-wei Chung and Joseph Lykken
10. Running of the Top Yukawa with and without Light Gluinos, L. Clavelli
11. Spontaneous CP Violation and Dedicated Studies of B Mesons, Paul H. Frampton
12. The Yukawa Coupling Hierarchy Problem, C.D. Froggatt
13. The Vacuum Energy and Fermion Mass Hierarchies, T. Gherghetta and Y. Nambu
14. Comments on Yukawa Couplings and Higgs Bosons from the CMSSM, G.L. Kane
15. Some Model-Independent Properties of Quark Mixing, A. Kusenko
16. Masses of the Light Quarks, H. Leutwyler
17. The Fermion Mass Problem in Grand Unified String Theories with SU(3) Gauge Family Symmetry, A.A. Maslikov, I.A. Naumov and G.G. Volkov
18. Approximate Flavor Symmetries, Andrija Rasin
19. Nonperturbative QCD Effects in Inclusive B Decays, Soo-Jong Rey
20. Upper Bounds in Low-Energy SUSY, G.L. Kane, Chris Kolda, Leszek Roszkowski and James D. Wells
21. Yukawa Unification: The Good, the Bad and the Ugly, Uri Sarid
22. General Analysis of Phases in Fermion Mass Matrices, Robert Shrock
23. Fermion Masses in Some Models with Horizontal Symmetries, William A. Ponce and Arnulfo Zepeda
24. Flavour Mixing and Fermion Mass Generation as a Result of Symmetry Breaking, Harald Fritzsch
25. CKM Matrix Elements: Magnitudes, Phases, Uncertainties, Jonathan L. Rosner
26. Yukawa Coupling Thresholds in the MSSM and the Minimal SUSY SU(5) GUT, Brian D. Wright

