



FTPI Preprints - 2001

1. "Realistic Gluino Axion Model Consistent with SUSY Breaking at the TeV Scale," D.A. Demir and E. Ma. [hep-ph/0101185]
2. "Lateral Correlation of Multivalent Conterions in the Universal Mechanism of Charge Inversion," T.T. Nguyen, A.Y. Grosberg and B.I. Skhlovski [cond-mat/0101103].
3. "Ultra Light Scalars and Spiral Galaxies from Domain Wall Interactions," G. Dvali, G. Gabadadze and M. Shifman [astro-ph/0102422].
4. "Intro to SUSY World: The Beginnings of the Theory," G.L. Kane and M. Shifman. [hep-ph/0102298]
5. "The NACRE Thermonuclear Reaction Compilation and Big Bang Nucleosynthesis," R.H. Cyburt, B.D. Fields, and K.A. Olive. [astro-ph/0102179]
6. "Braneworld Flattening by a Cosmological Constant," C. Deffayet, G. Dvali, G. Gabadadze, and A. Lue. [hep-th/0104201]
7. "The CMSSM Parameter Space at Large $\tan b$," J. Ellis, T. Falk, G. Gani, K. A. Olive, and M. Srednicki. [hep-ph/0102098]
8. "Long Range Forces and SUSY Bound States," A. Ritz and A. Vainshtein. [hep-th/0102121]
9. "The Status of Big Bang Nucleosynthesis," K. A. Olive [Proceedings of the International Conference, "Cosmic Evolution," (World Scientific, 2001) pp. 27-34].
10. "Once Again on Electromagnetic Properties of Neutral Domain Wall Interacting with Charged Fermions," M.B. Voloshin. [hep-ph/0102239]
11. "Brane Induced Terms and Compact Extra Dimensions," G. Dvali, G. Gabadadze, M. Kolanovic, and F. Nitti. [hep-ph/0102216]
12. "Combining the Muon Anomalous Magnetic Moment with Other Constraints on the CMSSM," K. Olive, J. Ellis, and D. V. Nanopoulos. [hep-ph/0102331]
13. "Adsorbition of Multivalent Ions on a Charged Surface: Oscillating Inversion of Charge," T.T. Nguyen. [cond-mat/0103208]
14. "Confinement Near Argyres-Douglas Point in $N=2$ QCD and Low Energy Version of AdS/CFT Corre- spondence," A. Yung. [hep-th/0103222]
15. "A 6-D Brane World Model," P. Kanti, R. Madden, and K. A. Olive. [hep-th/0104177]
16. "How Finely Tuned is SUSY Dark Matter," K. Olive and J. Ellis. [hep-ph/0105004]
17. "Accelerating Universe from Gravity Leaking to Extra Dimensions," C. Deffayet, G. Dvali, and G. Gabadadze. [astro-ph/0105068]

18. "Observability of the Lightest CMSSM Higgs Boson at Hadron Colliders," by J. Ellis, S. Heinemeyer, K. A. Olive, and G. Weiglein. [hep-ph/0105061]
19. "Complexation of DNA with Positive Spheres: Phase Diagram of Charge Inversion and Reentrant Condensation," T.T. Nguyen, and B. I. Shklovskii. [cond-mat/0105078]
20. "Low Temperature Physics at Room Temperature in Water Charge Inversion in Chemical and Biological Systems," A.Y. Grosberg, T.T. Nguyen, and B.I. Shklovskii. [cond-mat/0105140]
21. "Primordial Nucleosynthesis with CMB Inputs: Probing the Early and Light Element Astrophysics," R. Cyburt, B. D. Fields, and K.A. Olive. [astro-ph/0105397]
22. "The Minimal Model of Nonbaryonic Dark Matter: A Singlet Scalar," C. Burgess, M. Pospelov, and T. ter Veldhuis. [hep-th/0011335]
23. "Nonperturbative Continuity in Graviton Mass Versus Perturbative Discontinuity," C. Deffayet, G. Dvali, G. Gabadadze, and A. Vainshtein. [hep-th/0106001]
24. "On Gribov's Ideas on Confinement," A. Vainshtein. [hep-ph/0106200]
25. "Monopole, Guino and Charge Condensates in Gauge Theories with Broken $N=2$ SUSY," A. Vainshtein. [hep-th/0106176]
26. "Scales of Gravity," G. Dvali, G. Gabadadze, M. Kolanovic, and F. Nitti. [hep-th/0106058]
27. "Non-factorization Effects in Heavy Mesons and Determination of V_{ub} from Inclusive Semileptonic B decays," M.B. Voloshin. [hep-ph/0106040]
28. "Theoretical Aspects of Dark Matter Detection," J. Ellis, A. Ferstl, and K.A. Olive. [hep-ph/0106148]
29. "Proposed Post-LEP Benchmarks for SUSY," M. Battaglia, A. De Roeck, J. Ellis, F. Gianotti, K. Matchev, K.A. Olive, and G. Wilson. [hep-ph/0106204]
30. "Introduction to the Boris Ioffe Festschrift 'At the Frontier of Particle Physics/Handbook of QCD,'" M. Shifman. [hep-ph/0102298]
31. "Comments on 'A Supernova Brane Scan,'" C. Deffayet, G. Dvali, and G. Gabadadze. [astro-ph/0106449]
32. "Semiclassical Suppression of Black Hole Production in Particle Collisions," M. B. Voloshin. [hep-ph/0107119]
33. "The Inflatino Problem in Supergravity Inflammatory Models," H.P. Nilles, K.A. Olive, and M. Peloso. [hep-ph/0107212]
34. "On the Possible Sources of D/H Dispersion at High Red Shift," B.D. Fields, K.A. Olive, J. Silk, M. Casse, and E. Vangioni-Flam. [astro-ph/0107389].
35. "Supersymmetric $B \rightarrow Xs \gamma$ with Explicit CP Violation," D. A. Demir and K. A. Olive. [hep-ph/0107329].
36. "Best Values for CP-violating Meson-nucleon Coupling Constant from Supersymmetry," M. Pospelov. [hep-ph/0109044]
37. "Search for Tracker Potentials in Quintessence Theory," V. B. Johri. [astro-ph/0108247]

38. "Phenomenology of a Realistic Accelerating Universe Using Tracker Fields," V. B. Johri. [astro-ph/0108244]
39. "Dynamically Reduced N=2 Quantum Mechanics: Descendants of Kähler Geometries," A. Losev and M. Shifman. [hep-th/0108151]
40. "Counting Supershort Supermultiplets," A. Losev, M. Shifman. and A. Vainshtein. [hep-th/0108153]
41. "Breaking CPT by Mixed Non-commutativity," I. Mocioiu, M. Pospelov, and R. Roiban. [hep-ph/0108136]
42. "Big Bang Cosmology," K.A. Olive and J.A. Peacock. [Reviews of Particle Properties 2002]
43. "Lower Limits on Soft Supersymmetry-Breaking Scalar Masses," by J. Ellis, D.V. Nanopoulos, and K.A. Olive. [hep-ph/0109288]
44. "Prospects for Detecting Supersymmetric Dark Matter of Post-LEP Benchmark Point," J. Ellis, J.L. Feng, A. Ferstl, K.T. Matchev, and K.A. Olive. [astro-ph/0110225]
45. "Frequentist Estimation of Cosmological Parameters from the MAXIMA-1 Data," M.E. Abroe, et al. (Olive). [astro-ph/0111010]
46. "Evolution of the Fine Structure Constant Driven by Dark Matter and Cosmological Constant," K.A. Olive and M. Pospelov. [hep-ph/0110377]
47. "Constraints from Accelerator Experiments on the Elastic Scattering of CMSSM Dark Matter," J. Ellis, A. Ferstl, and K.A. Olive. [hep-ph/0111064]
48. "More Remarks on Suppression of Large Black Hole Production in Particle Collisions," M.B. Voloshin. [hep-ph/0111099]
49. "Supersymmetric Dark Matter Detection at Post-LEP Benchmark Points," J. Ellis, J. Feng, A. Ferstl, K. Matchev, and K.A. Olive. [hep-ph/0111924]
50. "Calculations of Neutralino-Stop Coannihilation in the CMSSM," J. Ellis, K.A. Olive, and Y. Santoso. [hep-ph/0202110]
51. "Born-Oppenheimer Corrections to the Effective Zero-mode Hamiltonian in SYM theory," A.V. Smilga. [hep-th/0201048]
52. "See-Saw Modification of Gravity," G. Dvali, G. Gabadadze, X. Hou, and E. Sefusatti. [hep-th/0111266]
53. "Post-LEP CMSSM Benchmarks for Supersymmetry," M. Battaglia, A. De Roeck, J. Ellis, F. Gianotti, K.T. Matchev, K. Olive, L. Pape, and G.W. Wilson. [hep-ph/0112013]
54. "Quantum Tunneling: In Memory of M. Marinov," M. Shifman. [quant-ph/0204156]
55. "Lessons for QCD from Supersymmetry," M. Shifman. [Desy Library Only]
56. "Flavordynamics with Conformal Matter and Gauge Theories on Compact Hyperbolic Manifolds in Extra Dimensions," d.A. Demir and M. Shifman. [hep-ph/0112090]
57. "From Heisenberg to Supersymmetry," M. Shifman. [Desy Library Only]
58. "Lectures on Quark-hadron Duality," M. Shifman. [Desy Library Only]

59. "Single State Supermultiplet in 1+1 Dimensions," A. Losev, M. Shifman, and A. Vainshtein. [hep-th/0011027]
60. "Zero-bias Anomaly in Disordered Wires," E.G. Mishchenko, A.V. Andreev, and L.I. Glazman. [cond-mat/0106448]
61. "Kondo Effect in Real Quantum Dots," M. Pustilnik and L.I. Glazman. [cond-mat/0105115]
62. "Revival of the Kondo Effect," L. Kowenhoven and L.I. Glazman. [cond-mat/0104100]
63. "Quantum Effects in Coulomb Blockade," I.L. Aleiner, P.W. Brouwer, and L.I. Glazman. [cond-mat/0103008]
64. "Kondo Effect Induced by a Magnetic Field," M. Pustilnik and L.I. Glazman. [cond-mat/0102458]
65. "Tunneling Between Two Semiconductors with Localized Electrons: Can It Reveal the Coulomb Gap?," A.I. Larkin and B.I. Shklovskii. [cond-mat/0109494]
66. "Fluctuation Phenomena in Superconductors," A.I. Larkin and A.A. Varlamov. [cond-mat/0109177]
67. "Disorder and Quantum Fluctuations in Superconducting Films in Strong Magnetic Fields," V.M. Galitski and A.I. Larkin. [cond-mat/0104347]
68. "Kinetics of Macroion Coagulation Induced by Multivalent Counterions," T.T. Nguyen and B.I. Shklovskii. [cond-mat/0110186]
69. "A Model of Inversion of DNA Charge by a Positive Polymer: Fractionization of the Polymer Charge," T.T. Nguyen and B.I. Shklovskii. [cond-mat/0109002]
70. "Low Temperature Physics at Room Temperature in Water: Charge Inversion in Chemical and Biological Systems," A.Yu. Grosburg, T.T. Nguyen, and B.I. Shklovskii. [cond-mat/0105140]
71. "Complexation of DNA with Positive Spheres: Phase Diagram of Charge Inversion and Re-entrant Condensation," T.T. Nguyen and B.I. Shklovskii. [cond-mat/0105078]
72. "Adsorption of Multivalent Ions on a Charged Surface: Oscillating Inversion of Charge," T.T. Nguyen and B.I. Shklovskii. [cond-mat/0103208]
73. "Lateral Correlation of Multivalent Counterions is the Universal Mechanism of Charge Inversion," T.T. Nguyen, A.Yu. Grosberg, and B.I. Shklovskii. [cond-mat/0101103]