

KYRIAKOS TAMVAKIS

Degrees

PhD in Physics, June 1978, Brown University, Providence R. I. USA

Ms in Physics, June 1976, Brown University, Providence R. I. USA

Diploma in Physics, March 1973, University of Athens, Athens, Greece

Academic Positions

Present position: Professor of Theoretical Physics at the Physics Department of the University of Ioannina (Sept.82-today).

Scientific Associate at the Theory Group, Physics Department, CERN, Geneva, Switzerland (Sept. 09-March-10)

Scientific Associate at the Theory Division, CERN, Geneva, Switzerland (Sept. 02-Feb. 03 and June 03-Sept. 03).

Scientific Associate at the Theory Division, CERN, Geneva, Switzerland (Sept.95-Sept.96).

Visiting Research Associate at the Max Planck Institute, Munich, Germany (Feb.-July 86).

Corresponding Fellow, Theory Division, CERN, Geneva, Switzerland (for a nine-month period between June 83 and Sep. 87).

Fellow at the Theory Division, CERN, Geneva, Switzerland (Sept.80-Sept.82).

Research Associate at the Theoretical Physics Chair of the National Technical University of Athens, Athens, Greece (June 79-June 80).

Research Associate at the Physics Department of Brown University, Providence, R. I. USA (March-July 1978).

Research Assistant at the Physics Department of Brown University, Providence, R. I. USA (June 75-March 78).

Teaching Assistant at the Physics Department of Brown University, Providence, R. I. USA (Sept.73-June 75).

Administrative Positions

Director of the Graduate Program in Physics of the Physics Department of the University of Ioannina (Oct. 01-today).

Chairman of the Physics Department of the University of Ioannina (Sept. 97-Sept. 01).

Director of the Graduate Programme *Advanced Studies in Physics* of the Hellenic Open University (Oct. 05-Aug. 07 and Oct. 09-today).

Chairman of the Theoretical Physics Division of the Physics Department of the University of Ioannina (Sept. 90-Sept. 95).

Member of the Research Committee of the University of Ioannina (1989-1996).

Chairman of Hellenic Society for the Study of High Energy Physics (2000-2002).

Member of the Hellenic CERN Committee (2005-09).

Member of the National Council of Science and Technology (2008-2009).

Research Programmes

1) "ΘΑΛΗΣ", funded by the Greek Ministry of Education (2012-2015), *Scientist in Charge*.

2) "ΑΡΙΣΤΕΙΑ", funded by the Greek Ministry of Research and Technology (2012-2015), *Scientist in Charge*.

3) "Universenet", Marie Curie Research Network (Oct. 2006-Sept. 2010), as *Scientist in Charge of the Greek Node*.

4) "Quest for Unification", Marie Curie Research Network (Sept. 2004-Sept. 2008), as *Scientist in Charge of the Ioannina Subnode*.

5) "Across the Energy Frontier", RTN, HPRN-CT-2000-00148 (Sept. 2000-Sept. 2004), as *Scientist in Charge of the Ioannina Subnode*.

6) "Supersymmetry and the Early Universe", RTN, HPRN-CT-2000-00152 (June 2000-Dec. 2004), as *Scientist in Charge of the Greek Node*.

- 7) “*Beyond the Standard Model*”, TMR (1996-2000), as *Scientist in Charge of the Ioannina Subnode*.
- 8) “*Flavourdynamics*”, HCM (1993-1996), as *Scientist in Charge of the Greek Node*.
- 9) “*PYTHAGORAS-II*”, funded by the Greek Ministry of Research and Technology (2005-2006), *Scientist in Charge*.
- 10) “*PENED-95*”, funded by the Greek Ministry of Research and Technology (1996-1998), *Scientist in Charge*.
- 11) Research Programmes funded by the University of Ioannina Research Committee (1990, 1993, 1997, 1999).

Educational and Outreach Programmes

- 1) “*Graduate Studies Programme in Physics of the University of Ioannina*” (2001-2003), co-funded by the Greek Ministry of Education and EU, as *Scientist in Charge*.
- 2) “*Optimization of the Undergraduate Programme in Physics of the University of Ioannina*” (1998-2000), co-funded by the Greek Ministry of Education and EU, as *Scientist in Charge*.
- 3) *Continuous Education Programme “Science and Culture”*, (1998-2006), co-funded by the Greek Ministry of Education and EU, as *Scientist in Charge*.

Organization of Conferences

- 1) “*HEP-2012*”, 2012, Ioannina, as Chairman of the Organizing Committee.
- 2) “*Universenet School*”, 2008, Mytilene, Greece, as member of the Organizing Committee.
- 3) “*HEP-2006*”, 2006, Ioannina, as Chairman of the Organizing Committee.
- 4) “*HEP-2000*”, 2000, Ioannina, as Chairman of the Organizing Committee.
- 5) “*Current Problems in Particle Physics and Cosmology*”, 1990, Ioannina, as member of the Organizing Committee.

Other activities

Invited speaker at U. of Crete, NRC Demokritos, Ecole Polytechnique, Scuola Normale Pisa, ICTP Trieste, U. of Oxford, Rutherford Lab., U. Warsaw, King’s College, etc.

Supervision of PhD students: J. Rizos (1992), P. Kanti (1997), A. Dedes (1997), C. Bogdanos (2008), O. Efthimiou (2008).

Books and Articles in Books: “Introduction to Quantum Mechanics” (Leader Books, 2003), in Greek; “Classical Electrodynamics” (Leader Books, 20013), in Greek; “Problems and Solutions in Quantum Mechanics” (Cambridge University Press, 2005); “An Introduction to Cosmology” in “The Physics of the Early Universe” ed. E. Papantonopoulos, Lecture Notes in Physics 653, Springer 2004; “An Introduction to Particle Physics” in “Cosmological Crossroads” ed S. Cotsakis and E. Papantonopoulos, Springer 2002.

Total Number of Publications and Citations. h index.

Total number of published articles: 108. Total number of citations: 5052. h-index : 35

Top Ten Publications

1. Weak Symmetry Breaking by Radiative Corrections in Broken Supergravity. John R. Ellis, J.S. Hagelin, D. V. Nanopoulos, K. T.. Phys.Lett. B125 (1983) 275. *470 cit.*
2. Grand Unification in Simple Supergravity. J. R. Ellis, D. V. Nanopoulos, K. T.. Phys.Lett. B121 (1983) 123. *469 cit.*
- 3.No-Scale Supersymmetric Standard Model. J. R. Ellis, A.B. Lahanas, D. V. Nanopoulos, K. T.. Phys.Lett. B134 (1984) 429. *cit. 444*
4. Naturally Massless Higgs Doublets in Supersymmetric SU(5). A. Masiero, D. V. Nanopoulos, K. T., T. Yanagida. Phys.Lett. B115 (1982) 380. *316 cit.*
5. Singularity - free cosmological solutions of the superstring effective action. I. Antoniadis, J. Rizos, K. T.. Nucl.Phys. B415 (1994) 497-514. *207 cit.*
6. Gaugino Masses And Grand Unification. J. R. Ellis, K. Enqvist, D. V. Nanopoulos, K. T.. Phys.Lett. B155 (1985) 381. *145 cit.*
7. Localized gravitons, gauge bosons and chiral fermions in smooth spaces generated by a bounce. A. Kehagias, K. T.. Phys.Lett. B504 (2001) 38-46. *cit. 152*

8. Stabilized NMSSM without domain walls. C. Panagiotakopoulos, K. T.. Phys.Lett. B446 (1999) 224-227. *cit. 137*
9. Phenomenology of a new minimal supersymmetric extension of the standard model. A. Dedes, C. Hugonie, S. Moretti, K. T.. Phys.Rev. D63 (2001) 055009. *cit. 106*
10. Primordial Inflation in Simple Supergravity D. V. Nanopoulos, Keith A. Olive, M. Srednicki, K. Tamvakis, Phys.Lett. B123 (1983) 41. *cit. 127*

Publications of the last ten years

1. On Discrete R-Symmetries in MSSM and its Extensions. M. Paraskevas, K. Tamvakis, Phys.Rev. D86 (2012) 015009
2. Bimaximal mixing from lopsided neutrinos. M. Paraskevas, K. Tamvakis, Phys.Rev. D85 (2012) 073014
3. Hierarchical neutrino masses and mixing in non minimal-SU(5). M. Paraskevas, K. Tamvakis, Phys.Rev. D84 (2011) 013010
4. Hierarchical Neutrino Masses and Mixing in Flipped-SU(5). J. Rizos, K. T.. Phys.Lett. B685 (2010) 67-71.
5. Inflation with the right-handed sneutrino revisited. O. Eftimiou , K. T.. Phys.Lett. B685 (2010) 235-238.
6. Supersymmetric Inflation with the Ordinary Higgs?. K. T.. Phys.Lett. B689 (2010) 51-54.
7. Pseudo-3-branes in a curved 6D bulk. C. Bogdanos, A. Kehagias, K. T.. Phys.Lett. B656 (2007) 112-118.
8. Scalar Emission in the Bulk in a Rotating Black Hole Background. S. Creek, O. Eftiou, P. Kanti, K. T.. Phys.Lett. B656 (2007) 102-111.
9. Greybody factors in a rotating black-hole background. II. Fermions and gauge bosons. S. Creek, O. Eftimiou, P. Kanti, K. T.. Phys.Rev. D76 (2007) 104013.
10. Synergistic Gravity and the Role of Resonances in GRS-Inspired Braneworlds. C. Bogdanos, A. Dimitriadis, K. T.. Class.Quant.Grav. 25 (2008) 045008
11. Cosmic Acceleration Data and Bulk-Brane Energy Exchange. C. Bogdanos, S. Nesseris, L. Perivolaropoulos, K. T.. Phys.Rev. D76 (2007) 083514
12. Greybody factors for brane scalar fields in a rotating black-hole background. S. Creek, O. Eftimiou , P. Kanti, K. T.. Phys.Rev. D75 (2007) 084043
13. Brane Cosmology with a Non-Minimally Coupled Bulk-Scalar Field. C. Bogdanos, A. Dimitriadis, K. T.. Class.Quant.Grav. 24 (2007) 3701-3712
14. Dark energy from bulk matter. C. Bogdanos, A. Dimitriadis, K. T.. Phys.Rev. D75 (2007) 087303
15. Brane Cosmological Evolution With Bulk Matter. C. Bogdanos, K. Tamvakis. Phys.Lett. B646 (2007) 39-46
16. Brane models with a Ricci-coupled scalar field. C. Bogdanos, A. Dimitriadis, K. T.. Phys.Rev. D74 (2006) 045003
17. Graviton emission in the bulk from a higher-dimensional Schwarzschild black hole. S. Creek, O. Eftimiou, P. Kanti, K. T.. Phys.Lett. B635 (2006) 39-49
18. Bulk Higgs with 4-D gauge interactions. A. Kehagias, K. T.. Phys.Lett. B628 (2005) 262-274
19. Box compactification and supersymmetry breaking. A. Kehagias, K. T.. Phys.Lett. B603 (2004) 249-256
20. Naturally small Dirac neutrino masses in supergravity. S. Abel, A. Dedes, K. T.. Phys.Rev. D71 (2005) 033003
21. Quest for localized 4-D black holes in brane worlds. 2. Removing the bulk singularities. P. Kanti, I. Olasagasti, K. T.. Phys.Rev. D68 (2003) 124001
22. Gravity in higher codimension de Sitter brane worlds. I. Olasagasti, K. T.. Phys.Rev. D68 (2003) 064016
23. Challenges and obstacles for a bouncing universe in brane models. P. Kanti, K. T.. Phys.Rev. D68 (2003) 024014

24. Schwarzschild black branes and strings in higher dimensional brane worlds. P. Kanti, I. Olasagasti, K. T.. Phys.Rev. D66 (2002) 104026
25. Graviton localization and Newton law for a dS(4)-brane in 5-D bulk. A. Kehagias, K. T.. Class.Quant.Grav. 19 (2002) L185
26. Quest for localized 4-D black holes in brane worlds. P. Kanti, K. T.. Phys.Rev. D65 (2002) 084010
27. A Note on brane cosmology. A. Kehagias, K. T.. Phys.Lett. B515 (2001) 155-160
28. A selftuning solution of the cosmological constant problem. A. Kehagias, K. T.. Mod.Phys.Lett. A17 (2002) 1767-1774