

4. FELLOWSHIPS – SCHOLARSHIPS – AWARDS

- The “Advanced PPARC Fellowship” from the Particle Physics and Astronomy Research Council, United Kingdom (2003-2008).
- A two-year CERN Fellowship at the Theory Division, CERN, Switzerland (2001-2003).
- A two-year Fellowship from the European Research and Training Network (RTN) “Physics Across the Energy Frontier” at the Scuola Normale Superiore, Pisa, Italy (2000-2002).
- A one-year Fellowship from the “Greek State Scholarship Foundation” for post-doctoral research at the Physics Department, University of Ioannina (1999-2000).
- The “Special Graduate Scholarship” from the Greek Ministry of Education (1992-1997) (best grade in the Graduate Admission Exams at the University of Ioannina, Greece).
- The 4th prize in the “Summer School of Advanced Physics” (1992) organised by the Institute of Technology and Research, University of Crete, Greece.
- The “Greek State Scholarship Foundation” prize (1989-90) and (1990-91) for the second best and best grade of the year, respectively, during the second and third year of my undergraduate studies.
- The 3rd prize in the “European Contest for Young Scientists”, organized by the “Greek Mathematical Society”, for the research project “Water Powered Engine” (1990).
- Honorary awards by the Greek Ministry of Education for 5 consecutive years (1983-1988) for excellent grades during my secondary education.

5. LANGUAGES

Besides Greek, I speak English and French. I obtained the “Certificate of Proficiency in English-University of Cambridge” (with top Grade A) in 1996. I also studied French for six years at the 2nd High School of Giannitsa, Greece, and I attended intensive courses on French during my fellowship at CERN.

6. MEMBERSHIP OF PROFESSIONAL OR SCIENTIFIC BODIES

Since 2002 I am an active member of the Greek Society for the Study of High-Energy Physics (during the academic year 2011-2012 I served as a member of the Administrative Council of the Society). In addition, I am one of the founding members of the Greek Society of Gravitation, Relativity and Cosmology that was founded in 2008, and for the period 2014-2016 I serve as the vice-President of the Administrative Council of the Society. Also, during the period 2004-2008, I was a member of the Cosmology Group in the United Kingdom.

7. SCHOOLS AND CONFERENCES ATTENDED

Since 1992, when I received my diploma in Physics, I have attended the following international schools, workshops and conferences:

1. 1-28 July 1992 : “Summer School of Advanced Physics”, Heraklion, Crete, Greece.

2. 13-15 January 1994 : “Workshop on Recent Developments in High Energy Physics”, Athens, Greece.
3. 11-22 April 1994 : “Spring School and Workshop on String Theory, Gauge theory and Quantum Gravity”, Trieste, Italy.
4. 26 June-6 July 1994 : “Summer School in High Energy Physics and Cosmology”, Trieste, Italy.
5. 12-14 January 1995 : “Workshop on Recent Developments in High Energy Physics”, Thessaloniki, Greece.
6. 16-29 July 1995 : “46th Scottish Universities Summer School in Physics : General Relativity”, Aberdeen, Scotland.
7. 8-19 September 1995 : “International School of Astrophysics “D. Chalonge”, 4th Course : String Gravity and Physics at the Planck Scale”, Erice, Italy.
8. 3-6 April 1996 : “Workshop on Recent Developments in High Energy Physics”, Ioannina, Greece.
9. 14-18 April 1997 : “Duality and Supersymmetric Theories”, Cambridge, England.
10. 11-17 July 1998 : “SUSY 98”, Keble College, Oxford, United Kingdom.
11. 14-26 September 1998 : “Corfu Summer Institute on Elementary Particle Physics”, Corfu, Greece.
12. 30 September-5 October 1998 : “International Conference on Symmetries in Intermediate and High Energy Physics and Applications”, Ioannina, Greece.
13. 12-14 May 2000 : “Workshop on Continuous Advances in QCD”, Minneapolis, USA.
14. 12-17 June 2003 : “CAPP 2003: Workshop on Cosmology and Particle Physics”, CERN, Geneva, Switzerland.
15. 25-29 August 2003 : “COSMO-03”, Ambleside, Lake District, UK (*convener* of the “Early Universe” session).
16. 18-20 December 2003 : “Annual UK Theory Meeting”, Durham, UK.
17. 8-10 January 2004 : “From Fields to Strings: Circumnavigating Theoretical Physics”, Oxford, UK.
18. 5-10 July 2004 : “POST-STRINGS 2004”, Durham, UK.
19. 16-18 December 2004 : “Annual UK Theory Meeting”, Durham, UK.
20. 14 March 2005 : “UK Cosmology Meeting”, Newcastle, United Kingdom.
21. 17-23 July 2005 : “SUSY 2005”, Durham, United Kingdom.
22. 19-20 September 2005 : “UK Cosmology Meeting”, Durham, United Kingdom.
23. 16-18 December 2005 : “Annual UK Theory Meeting”, Durham, United Kingdom.
24. 29-31 August 2006 : “UK Network Cosmology Meeting, 2006”, Ambleside, UK.
25. 14 October 2006 : “Andrew Chamblin Memorial Conference”, Cambridge, United Kingdom.
26. 18-20 December 2006 : “Annual UK Theory Meeting”, Durham, United Kingdom.

27. 10-12 January 2007 : “Neutrino Mass Measurements and their Implications”, Durham, United Kingdom.
28. 29 March - 1 April 2007 : “Workshop on Recent Developments in High Energy Physics”, Athens, Greece.
29. 1-13 September 2008 : “Black Hole Theory Institute”, CERN, Geneva, Switzerland (invited to attend).
30. 8-11 June 2010 : “Recent Developments in Gravity XIV”, Ioannina, Greece.
31. 5-8 April 2012 : “Workshop on Recent Developments in High Energy Physics and Cosmology - HEP2012”, Ioannina, Greece.
32. 16-18 September 2013 : “Black Holes at all Scales”, Ioannina, Greece.
33. 10 October 2014 : “New Horizons in Particles, Strings and Membranes - FloratosFest 2014”, Athens, Greece.
34. 24 May 2015 : “Beyond the Standard Models of Particle Physics and Cosmology - Tamvakis Fest 2015”, Ioannina, Greece.
35. 25-29 May 2015 : “From Planck Scale to the Electroweak Scale - PLANCK2015”, Ioannina, Greece.

Since the end of my PhD in 1998, I have given oral presentations in the following workshops, conferences and schools:

1. 9-11 April 1998 : “Workshop on Recent Developments in High Energy Physics”, Democritos NRC, Athens, Greece.
2. 26-29 August 1998 : “8th Hellenic Conference on Gravity -NEB8”, Samos, Greece.
3. 21-25 June 1999 : “Workshop on Current Issues in String Cosmology”, Institut des Hautes Etudes Scientifiques, Paris, France (invited talk).
4. 27 June-3 July 1999 : “XIth Rencontres de Blois: Frontiers of Matter”, Blois, France.
5. 10-16 December 1999 : “PASCOS99: 7th International Symposium on Particles, Strings and Cosmology”, Lake Tahoe, California.
6. 31 July-11 August 2000 : “Santa Fe 2000 Summer Workshop on Supersymmetry, Branes and Extra Dimensions”, Santa Fe, USA (invited talk – opening talk of the Workshop).
7. 9-15 September 2000 : “Euroconference on Quantum Particles and Fields : Particle Physics and Gravitation”, Kolympari, Crete, Greece.
8. 11-16 May 2001 : European Research Conference on “From the Planck Scale to the Electroweak Scale”, La londe Les Maures, France.
9. 18-22 June 2001 : “Workshop on Physics and Astrophysics of Extra Dimensions”, Paris, France.
10. 24-27 April 2002 : “Workshop on Recent Developments in High Energy Physics”, Patras, Greece.
11. 17-23 June 2002 : “SUSY 02”, DESY, Hamburg, Germany.
12. 6-11 July 2002 : “International Conference on String Phenomenology”, Oxford, UK (invited talk).

13. 23-27 September 2002: “Conference on String/Brane Cosmology”, IHES, Paris, France (*invited talk*).
14. 29 July - 2 August 2003 : “International Conference on String Phenomenology”, Durham, UK (*invited talk*).
15. 31 March - 2 April 2004 : “Exotic Signals at Hadron Colliders”, Durham, UK (*invited talk – opening talk of the Workshop*).
16. 17-23 June 2004 : “SUSY-2004”, Tsukuba, Japan.
17. 21-24 April 2005 : “2005 Workshop on Recent Advances in Particle Physics and Cosmology”, Thessaloniki, Greece.
18. 7-8 July 2005 : “IOP Meeting on Quantum Gravity: Theory and Experiment”, Durham, UK (*invited talk*).
19. 14-17 January 2006 : “Cairo International Conference on High Energy Physics (CICHEP II)”, Cairo, Egypt (*invited talk*).
20. 13-16 April 2006 : “2006 Workshop on Recent Advances in High Energy Physics and Cosmology”, Ioannina, Greece (*invited talk*).
21. 12-17 June 2006 : “14th International Conference on Supersymmetry and the Unification of Fundamental Interactions, SUSY2006”, Irvine, California, USA.
22. 18-29 September 2006 : “Brane-World Gravity: Problems and Progress”, Portsmouth, UK (*invited talk*).
23. 9-13 June 2007 : “From the Planck Scale to the Electroweak Scale”, Warsaw, Poland (*invited talk*).
24. 17-22 September 2007 : “Fourth Aegean Summer School: Black Holes”, Mytilene, Greece (*2 invited lectures*).
25. 19-23 December 2007 : “From Strings to LHC - II”, Fireflies Ashram, Bangalore, India (*invited talk*).
26. 4-6 June 2008 : “Recent Developments in Gravity - NEB XIII”, Thessaloniki, Greece (*invited talk*).
27. 25-29 August 2008 : “Models of Gravity in Higher Dimensions – From Theory to Experimental Search”, Bremen, Germany (*2 invited talks*).
28. 14-16 April 2011 : “XXIX Workshop on Recent Advances in Particle Physics and Cosmology”, Patra, Greece (*invited talk*).
29. 28 August - 1 September 2011 : “The SEENET MTP Workshop BW2011 - Particle Physics from TeV to Planck Scale”, Donji Milanovac, Serbia (*invited talk*).
30. 27 February - 2 March 2012 : “The DPG Spring Meeting”, Goettingen, Germany (*invited talk*).
31. 16-18 January 2013 : “From Classical to Quantum GR: Application to Black Holes” – COST Winter School, University of Sussex, United Kingdom (*2 invited lectures*).
32. 18-22 March 2013 : “The Biggest Accelerators in Space and on Earth”, CERN, Geneva, Switzerland (*invited talk*).

- 33.** 17-20 September 2014 : “NEB16: Recent Developments in Gravity - GR@GR”, Mykonos, Greece.
- 34.** 22-26 September 2014 : “The String Theory Universe”, Mainz, Germany.
- 35.** 15-18 April 2015 : “Recent Developments in High Energy Physics - HEP2015”, Athens, Greece.
- 36.** 12-18 July 2015 : “The Fourteenth Marcel Grossmann Meeting - MG14”, Rome, Italy (*invited talk*).

8. LONG-TERM SCIENTIFIC VISITS – SEMINARS

As a long-term visiting scientist, I have visited the following academic and research institutes: the Theory Division of the European Center for Nuclear Research (CERN) in Geneva, Switzerland (in 1993, 1995 and 1997), the Department of Theoretical Physics at the University of Oxford, UK (in 1997), the Division of Particle Physics of the Rutherford Appleton Laboratory in Oxfordshire, UK (in 1998 and 1999), the Theory Division of the Physics Department at the University of Bonn, Germany (in 2001), and the Department of Physics of the Technical University of Munich, Germany (in 2003).

In addition, since 1998, I have been invited to give seminars at the following academic institutions:

- the Theoretical Physics Institute (TPI) at the University of Minnesota, USA
- the Physics Department at the University of Wisconsin, Madison
- the Theory Division of CERN, Geneva
- the Particle Physics Division, Rutherford Appleton Laboratory, United Kingdom
- the Physics Department at the University of Bonn, Germany
- the Scuola Normale Superiore, Pisa, Italy
- the International Center for Theoretical Physics (ICTP), Trieste, Italy
- the Theory Division of the University of Neuchatel, Switzerland
- the Physics Department of the Technical University of Munich (TUM), Germany
- the Physics Department at the University of Patras, Greece
- the Institute of Theoretical Physics, University of Lausanne, Switzerland
- the Theory Division at the University of Ioannina, Greece
- the Department of Applied Mathematics, University of Durham
- the Theory Division and Astrophysics Division at the University of Thessaloniki, Greece
- the Center for Particle Theory (CPT), University of Durham
- the Department of Theoretical Physics, University of Oxford
- the Department of Applied Mathematics and Theoretical Physics (DAMTP), University of Cambridge
- the Physics Department, University of Liverpool
- the School of Mathematics and Statistics, University of Newcastle
- the Physics Department at King’s College, London.
- the Institute of Cosmology and Gravitation, University of Portsmouth
- the Physics Department, Theory Division of the University of Milan, Italy
- the Polytechnic School of the University of the Aegean, Samos, Greece
- the Physics Department, Universite Libre de Bruxelles, Belgium
- the Department of Mathematical Sciences, University of Liverpool

- the Physics Department, University of Thessaloniki, Greece
- the Physics Department, University of California Santa Cruz, USA
- the Physics Department, at the National and Kapodistrian University of Athens, Greece
- the Physics Department, University of Aachen, Germany
- the Department of Applied Mathematics and Theoretical Physics (DAMTP), University of Cambridge.

9. INTERNATIONAL DISTINCTIONS

In 2001, the list with the most-cited scientific papers in Theoretical Physics for the year 2000 was announced by the SPIRES database of the University of Stanford. My article [11], listed in the section “List of Publications” and entitled “*Cosmological 3-Brane Solutions*”, appeared at place **26** of that list.

In 2005, a list with the most-cited scientists world-wide in Theoretical Physics for the period 2000-2004 was announced by the SPIRES database. My name appeared at place **256** of that list and it was one of the five most-cited Greek scientistst world-wide.

In 2010, I was awarded the title of the “Outstanding Referee” by the American Physical Society for my services as a referee for the scientific journals *Physical Review Letters* and *Physical Review D*.

Finally, in 2012, the journal *New Scientist*, in the March 10th 2012 issue, devoted the coverpage and its main article, under the title “Portal to Another Universe”, to my scientific article [49] of the section “List of Publications”. Similar articles appeared in the newspapers “USA Today” and “Kathimerini” (both in printed and on-line version), and a live interview of mine in the “Reservoir” show was transmitted by the 2nd Programme of the Greek Radio.

10. ADDITIONAL SCIENTIFIC ACTIVITIES

Since 1998, I have been regularly acting as a referee for 17 scientific journals: *Physical Review Letters*, *Physical Review D*, *JHEP*, *JCAP*, *Physics Letters B*, *Nuclear Physics B*, *Astroparticle Physics*, *Classical and Quantum Gravity*, *Europhysics Letters*, *General Relativity and Gravitation*, *Modern Physics Letters*, *Advances in High Energy Physics*, *Pramana - Journal of Physics*, *International Journal of Modern Physics*, *European Physical Journal C*, *Atoms*, *Annals of Physics*.

During the academic years 2004-2005, 2005-2006 and 2007-2007, I acted as an external referee for the assessment of research proposals submitted to the Particle Physics and Astrophysics Research Council (PPARC). In the academic year 2004-2005, I also acted as an external referee for the Ogden Prize awarded for the best doctoral theses in Particle Physics and Cosmology, by the Ogden Center, University of Durham. During the academic year 2010-2011 I also acted as an external referee for the assessment of scientific proposals submitted to the Research Council of Austria.

As a research fellow in Scuola Normale Superiore in Pisa, I co-organised the seminar series on *Particle Physics and Cosmology*. During the academic year 2003-2004, I co-organised the *Oxford/RAL* seminar series on *Particles and Fields* at the Theoretical Physics, University of Oxford. Finally, during the academic year 2005-2006, I co-organised the *CPT Colloquia Series* at the Center for Particle Theory, University of Durham.

11. ORGANISATION OF CONFERENCES

As a member of the Organising Committee or convener of a session, I have contributed (or, I am currently contributing) to the organisation of the following conferences:

- (i) “*Recent Developments in Gravity - NEB17*”, Mykonos, Greece (19-22 September 2016).
- (ii) “*Celebrating the 100th Anniversary of the General Theory of Relativity*”, Athens, Greece (25 November 2015).
- (iii) “*Planck-2015: From the Planck Scale to the Electroweak Scale*”, Ioannina, Greece (25-29 May 2015).
- (iv) “*Beyond the Standard Models of Particle Physics and Cosmology - Tamvakis Fest 2015*”, Ioannina, Greece (24 May 2015).
- (v) “*Workshop on Recent Developments in High Energy Physics and Cosmology - HEP2012*”, Ioannina, Greece (5-8 April 2012).
- (vi) “*NEB-XIV: Recent Developments in Gravity*”, Ioannina, Greece (8-11 June 2010).
- (vii) “*4th Aegean Summer School: Black Holes*”, Mytilene, Greece (17-22 September 2007).
- (viii) : “*SUSY 2005*”, Durham, UK (18-23 July 2005).
- (ix) : “*COSMO-03*”, Ambleside, Lake District, UK (25-29 August 2003, convener of the Early Universe session).
- (x) : “*Workshop on Recent Developments in High Energy Physics*”, Ioannina, Greece (April 1996).
- (xi) : “*1st Hellenic Conference of Physics Students*”, Ioannina, Greece (May 1992).

12. OUTREACH ACTIVITIES

In October 2012 and 2013 I participated in the Welcome Lectures for the first-year students of the Physics Department of the University of Ioannina by presenting a talk entitled “From the Wormholes of the Universe to the Black Holes at LHC”. In October 2015, I participated again in the same series of lectures with a talk having the title “Albert Einstein: from the smallest to the largest”.

On the 11th of February 2013, after an invitation by the Historical and Cultural Society of Giannitsa “Filippos”, I presented a talk in the context of lectures of the Open Public University of the Municipality of Pella with title “Travels in Space and Time”. The same year I published a 6-page article on the same topic in the journal “Filippos” that is issued by the Historical and Cultural Society of Giannitsa every three months.

On the 11th of February 2013, after an invitation by the Head Master of the Elementary School of Paralimni, Giannitsa, I presented a talk on general physics for the pupils of the school with title “Travelling inside our Universe”.

Finally, in June 2014 I was invited as a speaker to the Summer School for Physics of the Municipality of Pella that is organised every year under the auspices of the Greek Society of Physicists.

I gave two lectures of total duration of 3 hours with titles “The Theories of Einstein for space and time” and “Black Holes and Wormholes”, respectively.

13. TEACHING EXPERIENCE

My teaching experience, as well as my current teaching obligations, are summarised below:

- **Department of Physics, University of Ioannina (2006-2015):** Teaching of three compulsory (C) courses of the 1st and 2nd year and of five optional (O) courses of the 3rd/4th year.

Academic Year	Winter Semester	Spring Semester
2006 – 2007	–	Cosmology (O) Particle Physics (O)
2007 – 2008	Linear Algebra and Elements of Analytical Geometry (C)	Cosmology (O) Particle Physics (O)
2008 – 2009	Linear Algebra and Elements of Analytical Geometry (C) Differential and Integral Calculus (C)	Cosmology (O)
2009 – 2010	Maternal Leave	Maternal Leave
2010 – 2011	Linear Algebra and Elements of Analytical Geometry (C) Differential and Integral Calculus (C)	Gravity and General Theory of Relativity (O)
2011 – 2012	Differential and Integral Calculus (C)	Gravity and General Theory of Relativity (O) Statistical Physics II (O)
2012 – 2013	Differential and Integral Calculus (C)	Gravity and General Theory of Relativity (O) Statistical Physics II (O)
2013 – 2014	Differential and Integral Calculus (C)	Gravity and General Theory of Relativity (O) Statistical Physics II (O)
2014 – 2015	Sabbatical	Sabbatical
2015 – 2016	Classical Mechanics I (C)	Cosmology (O) Statistical Physics II (O) History of Natural Sciences (O)

- **Department of Mathematical Sciences, University of Durham, UK (2004-2006):** Teaching of tutorials in three compulsory (C) courses of the 1st year and of a post-graduate course (G).

Academic Year	Winter Semester	Spring Semester
2004 – 2005	Analysis (2 tutorial groups) Calculus-Geometry (1 tutorial group) Algebra (2 tutorial groups)	Cosmology (G)
2005 – 2006	Analysis (2 tutorial groups) Algebra (3 tutorial groups)	Cosmology (G)
2006 – 2007	Analysis (3 tutorial groups)	–

- **Department of Theoretical Physics, University of Oxford, UK (2003-2004):** Teaching of a post-graduate (G) course.

Academic Year	Winter Semester	Spring Semester
2003 – 2004	–	Gravity and Cosmology (G)

- **Department of Physics, University of Ioannina (1993-1997):** Teaching of tutorials in two compulsory (C) courses of the 4th year and of two post-graduate courses (G).

Academic Year	Winter Semester	Spring Semester
1993 – 1994	Quantum mechanics (G)	Statistical Physics (G)
1994 – 1995	–	Statistical Physics (G) Quantum mechanics (G)
1995 – 1996	Statistical Physics I	Statistical Physics II
1996 – 1997	Statistical Physics I	–

My duties as a tutor included: the solution of exercises, the grading of weekly-submitted homeworks by the students, discussion sessions with students for questions and clarifications, a few tutorial lessons per semester inside the class, and exam vigiliations.

- **1997:** I worked part-time as a private tutor on physics courses for University students for a total period of six months.

● **1992-1998:** As a graduate student, in my free time, I regularly helped in voluntary astronomy sessions, for the undergraduate students, organised by the Astronomy group of the Physics Department at the University of Ioannina for observing the night sky with the University telescope.

14. STUDENT SUPERVISING EXPERIENCE

During my career so far, I have contributed to the scientific supervision of several under-graduate and post-graduate students. In detail:

Diploma Theses:

- **Philip Dobbs:** undergraduate student at the University of Oxford during the academic year 2003-2004. I supervised his diploma thesis entitled “Brane Models: Black-Hole and Cosmological Solutions”.
- **Petros Kottas:** undergraduate student at the University of Ioannina during the academic year 2007-2008. I supervised his diploma thesis entitled “Black Hole Solutions in Models with Extra Spacelike Dimensions”.
- **Thomas Pappas:** undergraduate student at the University of Ioannina during the academic year 2011-2012. I supervised his diploma thesis entitled “Study of the Characteristics of Schwarzschild-type Black Holes in 4 dimensions and their generalisation in Extra-Dimensional Spacetimes”.
- **Athanasios Bakopoulos:** undergraduate student at the University of Ioannina during the academic year 2011-2012. I supervised his diploma thesis entitled “General Theory of Relativity: Applications, Solutions and Field Equations”.
- **Maria Tilemachou:** undergraduate student at the University of Ioannina during the academic year 2013-2014. I supervised her diploma thesis entitled “Cosmological Constant: From Einstein to Quintessence”.
- **Konstantinos Anastasiou:** undergraduate student at the University of Ioannina during the academic year 2013-2014. I supervised his diploma thesis entitled “Standard Cosmological Model and the solution of its problems by Inflation”.
- **Giorgos Antoniou:** undergraduate student at the University of Ioannina during the academic year 2015-2016. I am supervising his diploma thesis on topics of Gravity, Black Holes and Wormholes.

Post-graduate (M.Sc.) Theses:

- **Ben Dixon:** post-graduate (M.Sc.) student at the University of Durham during the academic year 2004-2005. I supervised his Master thesis entitled “Hawking radiation from higher-dimensional black holes: the scalar case”.
- **Timothy Franklin:** post-graduate (M.Sc.) student at the University of Durham during the academic year 2004-2005. I supervised his Master thesis entitled “Scalar radiation from higher-dimensional black holes on the brane and bulk”.

- **Athanasios Bakopoulos:** post-graduate (M.Sc.) student at the University of Ioannina during the academic year 2015-2016. I am supervising his Master thesis on topics of Gravity and Gravito-Electromagnetism.

Doctoral (P.h.D.) Theses:

- **Thomas Flacke and Babiker Hassanain:** doctoral (P.h.D.) students at the University of Oxford under the supervision of Prof. John March-Russell and myself. I contributed to the supervision of their field-work and research activity (on the implications of the existence of extra dimensions to Particle Physics and Cosmology) during the academic year 2003-2004.
- **Simon Creek:** doctoral (P.h.D.) student at the University of Durham during the period 2004-2007. I supervised his doctoral thesis entitled “Higher-Dimensional Black Holes: Brane-world Stars and Hawking Radiation”, which led to 5 publications in high-standard international scientific journals (the articles [38], [39], [41], [42], and [43]) which have received more than 220 citations.
- **Nikolaos Pappas:** doctoral (P.h.D.) student at the University of Ioannina during the period 2007-2013. I supervised his doctoral thesis entitled “Study of the Properties of Black-Hole Solutions in the Context of Four-Dimensional and Extra-Dimensional Theories of Gravity”, which led to 5 publications in high-standard international scientific journals (the joint articles [47], [48], and [51] kai two single-authored articles of the student). In total, these works have received more than 50 citations.
- **Thomas Pappas:** doctoral (P.h.D.) student at the University of Ioannina. Since 2013, I have been supervising his doctoral thesis entitled “Black Holes and Wormholes in the Context of Theories with Extra Spacelike Dimensions”. So far, our collaboration has led to two scientific articles ([54] and [57]).

Finally, as a research associate, I have worked closely with the following PhD students and thus unofficially supervised part of their Ph.D. research activity:

- **Seok-cheon Lee:** doctoral (P.h.D.) student at the University of Minnesota under the supervision of Prof. Keith A. Olive. Our close and continuous collaboration led to the publication [25] in 2003 with the participation of his supervisor.
- **Chris Harris:** doctoral (P.h.D.) student at the University of Cambridge under the supervision of Prof. Bryan Webber. Our particularly productive and close interaction led to the publication of the scientific articles [29], [33] and [34] without the participation of his supervisor. These three works have so far received more than 350 citations.

15. COMPUTING SKILLS

For the needs of my research activities, I have used FORTRAN programs and MATHEMATICA for the solution of a system of differential equations. I have also used MATHEMATICA for tensor analysis, symbolic calculations, numerical evaluations and algebraic integration. Finally, I am familiar with graphic packages such as Gnuplot and Xmgr.

16. PARTICIPATION IN RESEARCH PROGRAMS

Since 1993 and until today, I have participated in the following research programs:

- As a member of the research group of the Division of Theoretical Physics at the Physics Department of University of Ioannina I participated in the European program “Flavourdynamics” (CHRX-CT93-0132) the period 1993-1995.
- As a member of the research group of the Division of Theoretical Physics at the Physics Department of University of Ioannina I participated in the European program “Beyond the Standard Model” (ERBFMRX-CT96-0090) the period 1996-1998.
- As a member of the research group of the Scuola Normale Superiore in Pisa, Italy, I participated in the European program “Across the Energy Frontiers” (HPRN-CT-2000-00148) the period 2000-2001.
- Principal Investigator of the scientific program PPA/A/S/2002/00350 of the British Council for Particle Physics and Astronomy (PPARC) with a five-year duration and total budget of 200000 GBP for the period 2003-2008.
- As a member of the research group of the Department of Theoretical Physics of University of Oxford I participated in the European program “Quest for Unification” (MRTN-CT-2004-503369) the period 2003-2004.
- As a member of the research group of the Department of Mathematical Sciences of the University of Durham I participated in the European program “UniverseNet” (MRTN-CT-2006-035863-1) the period 2006-2007.
- As a member of the research group of the Division of Theoretical Physics at the Physics Department of University of Ioannina I participated in the European program “UniverseNet” (MRTN-CT-2006-035863-1) the period 2007-2010.
- As an associate researcher I participated in the European program COST Action MP0905 “Black Holes in a Violent Universe” (2011-2014).
- As a member of the research group of the Division of Theoretical Physics at the Physics Department of University of Ioannina I participated in the Greek/European program “THALIS. Investing in the society of knowledge through the European Social Fund” (2012-2015).
- As a member of the research group of the Division of Theoretical Physics at the Physics Department of University of Ioannina I participated in the Greek/European program “ARIS-TEIA. Investing in the society of knowledge through the European Social Fund” (2012-2015).
- As an associate researcher I participated in the European program COST Action MP1210 “The String Theory Universe” (2012-2015). I am also the substitute member of the Managing Committee of the program in Greece.

17. THESES - CONFERENCE PROCEEDINGS - BOOKS

- [1] “Stellar Evolution and Study of Stars with Chromospheric Activity RSCVn”, P. Kanti, Diploma Thesis, University of Ioannina (1992), under the supervision of Professor V. Tsikoudi.
- [2] “ $12\mu\text{m}$ Emission from Active Stars”, V. Tsikoudi and P. Kanti, *Proceedings of the Conference of the European Astronomical Society*, Torun, Poland (1993).
- [3] “Black Holes in the Framework of the 4-dimensional Effective Theory of Heterotic Superstrings at Low Energies”, P. Kanti, Doctoral Thesis, University of Ioannina Publications (1998), 197 pages, hep-th/9804194.
- [4] “*Linear Stability of Dilatonic Black Holes*”, P. Kanti, talk at the “International Workshop on Recent Developments in High Energy Physics”, Research Center “Democritus”, Athens, Greece (1998), hep-th/9804203.
- [5] “*5-Dimensional Assisted Inflation and the Remedy of the Fine-Tuning Problem*”, P. Kanti, “*Proceedings of the XIth Rencontres de Blois: Frontiers of Matter*”, Ed. J. Tran Thanh Van, Blois, France, (1999), hep-ph/9909535.
- [6] “*Cosmological 3-Brane Solutions*”, P. Kanti, *Proceedings of the 7th International Symposium on Particles, Strings and Cosmology, PASCOS 99*, sel. 141, Eds. K. Cheung, J. Gunion and S. Mrenna, World Scientific, 2000.
- [7] “*Reading the number of extra dimensions in the spectrum of Hawking radiation*”, P. Kanti, in the *Proceedings of the 2nd International Conference on String Phenomenology 2003*, Eds. V. Sanz, S. Abel, J. Santiago and A. Faraggi, pp. 207-215, World Scientific, Singapore, 2004.
- [8] “*Hawking radiation from Higher-Dimensional Black Holes*”, P. Kanti, in the *Proceedings of the International Conference SUSY 2004*, Eds. K. Hagiwara, J. Kanzaki and N. Okada, pp. 697-701, KEK, Tsukuba, 2004.
- [9] “*What can we learn from a higher-dimensional decaying black hole?*”, P. Kanti, in the *Proceedings of the 2nd Cairo International Conference on High Energy Physics (CICHEP 2)*, AIP Conf. Proc. 881 (2007) 30-39.
- [10] “*What can we learn from a higher-dimensional decaying black hole?*”, P. Kanti, in the *Proceedings of the SUSY06: 14th International Conference on Supersymmetry and the Unification of Fundamental Interactions*, AIP Conf. Proc. 903 (2007) 467-470.
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