

## Curriculum Vitae

Elias Kiritsis

2012

**Born:** 20 September 1962 in Fournia (GREECE)

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### University Degrees

- “Πτυχέιον” (B.S.)  
July 1984 National University of Athens
- PhD, Physics  
June 1988 California Institute of Technology

### Employment History

- 1988/91 Post-doctoral Research Associate  
University of California, Berkeley
- 1991/92 Attaché de recherche,  
Lab. de Physique Théorique de l'École Normale Supérieure
- 1992/98 Staff member, Theory Division, CERN.
- 1999/- Professor of Physics, University of Crete.
- 2002/2008 Directeur de Recherche au CNRS, Centre de Physique Théorique, Ecole Polytechnique, Paris.
- 2008/- Directeur de Recherche au CNRS, Astroparticules et Cosmologie, Université Diderot, Paris 7.

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## 1 Visiting Positions

1996/97 Guest Scientist, Leuven University, Belgium

1996/97 Guest Scientist, Padova University, Italy

1998 Guest Scientist, Lab. de Physique Théorique de l'École Polytechnique, Paris, France.

1-2/2001 Visiting Professor, Centre Emile Borel, Paris. Semester on "Supergravity, Superstrings and M-theory".

6-9/2001 Visiting Professor, Lab. de Physique Théorique de l'École Polytechnique, Paris, France.

2-9/2002 Visiting Professor, Lab. de Physique Théorique de l'École Normale Supérieure, Paris, France.

9-11/2003 Visiting Professor at the Kavli Institute of Theoretical Physics, University of California, Santa Barbara.

8-10/2006 Visiting Professor at the Kavli Institute of Theoretical Physics, University of California, Santa Barbara.

7-8/2010 Visiting Professor at the Erwin Schrödinger Institute of Theoretical Physics, Vienna.

8-9/2010 Visiting Professor at the theory group, CERN, Geneva.

## 2 Distinctions

- Recipient of a Marie Curie Excellence Grant MEXT-CT-2003-509661 from the FP6 program of the European Union. 10-15 laureates every years from all science fields.
- Member of the International advisory committee for numerous conferences in the field including the last 6 String Phenomenology conferences and the last 3 Strings conferences.

## 3 University Teaching

### 3.1 Teaching at the University of Crete

The following courses were taught since 1999, mostly in Greek, and some in English.

**spring semester 1999** : Modern Cosmology (Advanced undergraduate course, 52 hours).

**fall semester 1999** : Advanced Quantum Mechanics III (Graduate Course, 52 hours)

**spring semester 2000** : Modern Cosmology (Advanced undergraduate course, 52 hours).

**fall semester 2000** Ordinary Differential Equations (Second Year undergraduate course, 78 hours)

**spring semester 2001** Ordinary Differential Equations (Second Year undergraduate course, 78 hours). Modern Cosmology (Advanced undergraduate course, 52 hours).

**fall semester 2001** Ordinary Differential Equations (Second Year undergraduate course, 78 hours)

**fall semester 2002** Ordinary Differential Equations (Second Year undergraduate course, 78 hours). Advanced Topics in Quantum Field Theory (Graduate course, 52 hours)

**spring semester 2003** Ordinary Differential Equations (Second Year undergraduate course, 78 hours). Quantum Field Theory I (Graduate course, 52 hours).

**fall semester 2003** Advanced Topics in Quantum Field Theory (Graduate course, 52 hours)

**spring semester 2004** Quantum Field Theory I (Graduate course, 52 hours).

**fall semester 2004** Advanced Quantum Mechanics III (Graduate Course, 52 hours). Elementary Particle Physics (Advanced undergraduate course, 52 hours).

**spring semester 2005** Modern Cosmology (Advanced undergraduate course, 52 hours).

**fall semester 2005** Advanced Quantum Mechanics III (Graduate Course, 52 hours). Elementary Particle Physics (Advanced undergraduate course, 52 hours).

**spring semester 2006** Advanced Classical Mechanics (Graduate course, 78 hours).

**fall semester 2006** Elementary Particle Physics (Advanced undergraduate course, 52 hours).

**spring semester 2007** Advanced Classical Mechanics (Graduate course, 78 hours).

**fall semester 2007** Advanced Quantum Mechanics III (Graduate Course, 52 hours). Elementary Particle Physics (Advanced undergraduate course, 52 hours).

**spring semester 2008** Partial Differential Equations (second year undergraduate course, 78 hours).

**fall semester 2008** Calculus I, Lectures, Recitation (first year undergraduate course, 52 hours). Q, Partial Differential Equations (second year undergraduate course, 26 hours).

**spring semester 2009** Calculus I, exercises (first year undergraduate course, 26 hours). Quantum Field Theory II (Graduate course, 52 hours).

**fall semester 2009** Calculus I, Lectures, Recitation (first year undergraduate course, 78 hours). Quantum Field Theory I, (Graduate course, 26 hours).

**spring semester 2010** Advanced Topics in Theoretical Physics: AdS/CFT and holography (Graduate course, 52 hours). Calculus I, exercises (first year undergraduate course, 26 hours).

**fall semester 2010** Calculus I, Lectures, Recitation (first year undergraduate course, 78 hours). Quantum Field Theory I, (Graduate course, 26 hours).

**spring semester 2011:** Advanced Topics in Theoretical Physics: Non-Perturbative Quantum Field Theory (Advanced Graduate Course, 52 hours). Calculus I, exercises (first year undergraduate course, 26 hours).

### 3.2 Teaching in France

**1993-1994** : Course “Aspects Théoriques de la Physique des Particules”, given at the D.E.A. de Physique in Grenoble (in French).

**2006-2007** String Theory course in the Paris area theoretical physics masters program (DEA).(In French, 26 hours)

**2007-2008** String Theory course in the Paris area theoretical physics masters program (DEA).(In French, 26 hours)

### 3.3 Other teaching

**1985-88** :Teaching Assistant for the course of Quantum Mechanics and Statistical Mechanics  
California Institute of Technology. (In English)

**1996-97** : Course “String Theory” at the PhD program of Leuven University, Belgium and the PhD program of the University of Padova, Italy. (In English)

**2009** String Theory course in the Advanced PhD school, Paris-Brussels-Amsterdam. Course given in Brussels. (In English, 26 hours)

## 4 Student and post-doc supervision

During my tenure at CERN, (1992-1998) I have co-directed the PhD study of

- M. Vazquez Mozo , currently professor at University of Salamanca, Spain
- B. Pioline, currently permanent CNRS researcher at Université de Paris 6, France.

During the same period I supervised the research of several postdoctoral fellows:

- D. Anselmi, currently associate professor at Universitat di Pisa, Italy.
- A. Gregori, currently working in the private sector.
- M. Henningson, currently professor at Chalmers University, Sweden.
- A. Kehagias, currently assistant professor at the Technical University of Athens, Greece.
- C. Klimcik, currently Directeur de Recherche au CNRS at Institut de Mathematiques, Luminy, Marseille, France.
- M. Kreuzer, currently associate professor at Technical University, Wien, Austria.
- N. Obers, currently associate professor at Niels Bohr Institute, Copenhagen, Denmark.
- J. Papavassiliou, currently associate professor at University of Valencia, Spain.
- H. Partouche, currently permanent CNRS researcher at Centre de Physique Théorique, Ecole Polytechnique, France.
- J. Russo, currently professor at University of Barcelona, Spain.
- S. Stieberger, currently associate professor at Ludwig-Maximilians Universität, München, Germany.
- N. Tetradis, currently associate professor at the University of Athens, Greece.

During my tenure at the Centre de Physique Théorique, Ecole Polytechnique, Paris, (2002-2007) I supervised the PhD study of

- C. Jego, PhD 2007, currently working in the financial sector.
- L. Mazzanti, PhD 2007 (co-supervision with the University of Milano), , currently postdoctoral researcher at Centre de Physique Théorique, Ecole Polytechnique, France

and several postdoctoral researchers

- F. Bigazzi, currently postdoctoral researcher at the Université Libre de Bruxelles, Belgium.
- P. Camara, currently postdoctoral researcher at the Centre de Physique Théorique, Ecole Polytechnique, France.
- R. Casero, currently working in the financial sector.
- O. Corradini, currently assistant professor at Università di Bologna, Italy.
- A. Cotrone, currently postdoctoral researcher at Leuven University, Belgium.
- G. D'Appolonia, currently researcher at INFN and Università di Cagliari, Italy.
- A. Ghodsi, currently assistant professor at Ferdowsi University and researcher at the Institute for Physics and Mathematics, Teheran, Iran.
- U. Gursoy, currently postdoctoral researcher at University of Utrecht, Netherlands.
- E. Kohlprath, currently working in the financial sector.
- M. Lennek, currently postdoctoral researcher at Maxmaster University, Canada.
- T. Maillard, currently postdoctoral researcher at Centre de Physique Théorique, Ecole Polytechnique, France.
- G. Michalogiorgakis, currently postdoctoral researcher at Purdue University, USA.
- V. Niarchos, currently postdoctoral researcher at Centre de Physique Théorique, Ecole Polytechnique, France.
- F. Nitti, currently assistant professor at Université de Paris 7, France.
- A. Paredes, currently postdoctoral researcher at University of Barcelona, Spain.

At the University of Crete (1999-), I have supervised several postdoctoral researchers:

- C. Acatrinei, currently permanent researcher at IFIN-HH, Bucharest, Romania.
- K. Anagnostopoulos, currently assistant professor at National Technical University, Athens.
- D. Clancy, currently researcher at Spitzer Space Telescope, JPL, California.
- R. Guedens, currently postdoctoral researcher at University of Maryland, USA.
- A. Hammou, currently assistant professor at Oran Science and Technology University, Algeria.
- N. Irges, currently assistant professor at National Technical University, Athens.

- G. Kofinas, currently assistant professor at the University of the Aegean (Samos).
- A. Krause, currently assistant professor at Ludwig-Maximilians Universität, München, Germany.
- C. Sochichiu, currently assistant professor at Sungkyunkwan University, Korea.
- N. Tetradis, currently associate professor at the University of Athens.
- D. Yamada, currently on carrier break.

and a PhD student

- P Anastasopoulos, PhD 2005, currently postdoctoral researcher at Wien Technical University, Austria

I have also cosupervised in Crete the PhD student A. Koshelev via an Intas program INTAS, YSF-2002-42. He is currently senior researcher at the Université Libre de Bruxelles, Belgium.

I am currently supervising two PhD students in Crete, I. Iatrakis and G. Pavlopoulos. I am also supervising several postdoctoral fellows in Crete, namely, M. Jarvinen, B. S. Kim, M. Lippert, R. Meyer, T. Morita and H. B. Zhang, V. Niarchos and T. Taliotis.

## 4.1 Participation in Defence committees

I have participated in numerous PhD and Master Thesis committees, at the University of Crete, in Ecole Polytechnique, Orsay, ENS, Université Paris 6 (Jussieu), Université Paris 7 (Tolbiac), University of Roma II and University of Milano.

## 4.2 Supervision of Diploma and Master thesis

I have supervised between 1 and 3 master's thesis per year for the last 4 years at the University of Crete. I have also supervised on th average between 1-2 Diploma theses per year in the same University.

## 5 Author of books

- **E. Kiritsis**, "*Introduction to String Theory*.", Book published by [Leuven University Press](#), 1998, 315 p, ISBN 90 6186 894 7.

- **E. Kiritsis**, “*String Theory in a nutshell.*”,  
Book published by [Princeton University Press](#), 2007, 608 pages, ISBN13: 978-0-691-12230-4.

## 6 Funding

- Coordinator of Marie Curie Individual grant (European Union), Contract 300984 HWTC FP7-PEOPLE-2011-IEF, **165 k€**
- Coordinator of research grant Herakleitos (Greek Ministry of Education), 2009-2012, **45k€**.
- Coordinator of Marie Curie Individual grant (European Union), Contract PIRG06-GA-2009-256487, **45 k€**
- Coordinator of Marie Curie Individual grant (European Union), Contract PIIF-GA-2009-236088, **110 k€**
- Regional Potential program of the E.U. FP7-REGPOT-2008-1: CreteHEPCosmo-228644, **1,120 k€**
- Agence Nationale de Recherche (France), Contract : NT05\_1-41861, 2006-2008, **132 k€**
- Excellence Grant (European Union), MEXT-CT-2003-509661, 2004-2008, **923 k€**
- PICS, collaboration avec les États Unis (CNRS France), Contrat 2530, 2003-2006, **30 k€**
- PICS, collaboration avec l'Italie, (CNRS France), Contrat 3059, 2004-2007, **30 k€**
- PICS, collaboration avec la Grèce (CNRS France), Contrat 3747, 2006-2009, **30 k€**
- INTAS grant (European Union), contract 03-51-6346, **4 k€**.
- INTAS grant (European Union), contract 99-1-590, **4 k€**.
- Coordinator of the Ecole Polytechnique node of the (European Union) RTN network "Forces Universe" MRTN-CT-2004-005104, **90 k€**
- Coordinator of the Greek node of the (European Union) RTN network "Quantum structure of spacetime" HPRN-CT-2000-00131, **55 k€**
- Coordinator of Marie Curie Individual grant (European Union), Contract HPMF-CT-2000-01060, **120 k€**.
- Coordinator of Development Host Fellowship (European Union), Contract HPMD-CT-2001-00070, **223 k€**.
- Coordinator of research grant Herakleitos (Greek Ministry of Education), 2002-2005, **33 k€**.
- Coordinator of various grants from the Greek Secretariat of Research and Technology, 2002-2006, **48 k€**.
- Co-Coordinator of INTAS fellowship of A. Koshelev, Contract YSF-2002-42, **30k€**.
- Coordinator of Marie Curie Individual Grant (European Union), Contract HPMF-CT-2001-01234, **50 k€**.
- Various grants for the organization of conferences, from CNRS (14 k€), ESF/European

Union (35 k€), Orthodox Academy of Crete (60 k€), Greek Ministry of Education (38 k€), Greek Ministry of Culture (5 k€), ICTP Trieste (120 k€), Institute of Advanced Study, Princeton (30 k\$) Onassis Foundation (15 k€), ANEK (5 k€), OTE (3k€), in total: **325 k€**.

- Crete University (ELKE) grant, contract 1205, 1999-2001, **7k€**.

**Total amount: about 3,530 k€**

## 7 Invited series of lectures at international schools and graduate programs

1	December 1996- -January 1997	Graduate program of Leuven University, Belgium
2	March 1997	Graduate program of Padova University, Italy
3	May 1997	La Plata School on high energy physics, Argentina.
4	July 1997	Summer School on Duality, El Escorial, Spain.
5	November 1998	First Caribbean School on String Theory, Habana, Cuba.
6	November 1998	VIII Mexican Schools of Particles and Fields, Oaxaca, Mexico.
7	March 1999	Spring School in String Theory, Trieste.
8	July 1999	Cargèse 1999 Summer School, "Particle Physics: ideas and recent developments.
9	February 2000	APCT Winter School on string theory, Seoul, Korea
10	January 2001	Semester on Supergravity, Superstrings and M-theory, Paris, France
11	June 2001	Crete Regional Meeting in String Theory, Kolymbari, Greece
12	September 2001	Corfu Summer School on High Energy Physics, Corfu, Greece
13	November 2001	Nordic School on Fields Strings and Branes, Stockholm, Sweden
14	January 2003	Winter School on String Theory, Torino, Italy
15	April 2003	Graduate program of Roma I University, Italy
16	September 2003	International School on High Energy Physics, Heraklion, Greece
17	May 2004	Italo-Hellenic School on LHC physics, Lecce, Italy
18	July 2004	The Onassis lectures on Fields and Strings Heraklion, Greece

19	August 2005	Lectures for the summer students of the CERN summer program, CERN, Geneva
20	August 2006	Lectures for the summer students of the CERN summer program, CERN, Geneva
21	July 2007	Lecture at the Les Houches school “String Theory and the Real World”, Les Houches, France
22	August 2007	Lectures for the summer students of the CERN summer program, CERN, Geneva
23	April 2008	Lectures at the IPM School, Isfahan, Iran
24	July 2008	Lectures at the advanced graduate school Pafos, Cyprus
25	August 2008	Lectures for the summer students of the CERN summer program, CERN, Geneva
26	July 2009	APCTP Focus Program: Aspects of Holography and Gauge/string duality, Pohang, Korea
27	September 2009	School on Cosmology - Strings Corfu, Greece
28	September 2009	5th Aegean Summer School “From Gravity to thermal gauge theories: the AdS/CFT correspondence”, Milos, Greece
29	September/October 2009	2009 Paris-Brussels-Amsterdam Doctoral Course Brussels, Belgium

## 8 Administrative Duties

- 1992-98 : Member of various committees of the CERN Theory Division. (fellows selection committee, chairman of the “EU matters” committee)
- 1999-02 Chair of the committee for the internationalisation of doctoral studies at the Physics Department in Crete.
- 1999-03 : Coordinator of the Greek node in the RTN program ”Quantum space-time”, HPRN-CT-2000-00131.
- 1999-2006 Coordinator of the Greek node in the INTAS networks, N 99 1 590 and 03-51-6346.
- 2004–2008 Local coordinator of the Ecole Polytechnique node in the RTN network “Forces Universe”, MRTN-CT-2004-005104. Network responsible for the organization of workshops and advanced schools.
- 2004-08 Scientific director of the Excellence Grant “Fundamental Interactions and the Structure of Space-time” MEXT-CT-2003-509661. About 1 MEuro over 4 years.
- 2005-2006 Scientific coordinator (with F. Quevedo at Cambridge) for the European teams of the international “String Vacuum Project”. Participating European groups: Cambridge, ENS, Imperial, Madrid, Munich, NIKHEF, Oxford, Polytechnique, Roma. USA participants: Arizona, Harvard, Michigan, Pennsylvania, Princeton, Rutgers, Stanford, Wisconsin.
- 2006-2008 Scientific coordinator of the Ecole Polytechnique team in the ANR project : “HEP-Cordes”
- 2006-2009 National Representative of Greece in the Programme Committee of the European ”Ideas” program.
- 2008- Member of the Research Committee of the Crete University Special account for research.
- 2009- Member of a 3-person committee responsible for the establishment of research evaluation procedures at the University of Crete.
- 2011 Member of the core 5-member committee who founded and is supervising the ESF network, HOLOGRAV, having teams from almost all European countries as well as Canada, USA, Japan, Korea, India, and Russia.
- 2011 Elected member of the board of the High Energy Particle Physics Division of the European Physical Society.

## 9 Organisation of Conferences

1. Chairman of the organizing committee of an international conference (Euro-conference) on "Quantum Fields and Strings" Crete, 7-15 Sept. 2000.  
Webpage, <http://hep.physics.uoc.gr/string2000/>
2. Chairman of the organizing committee of the school and conference "Crete regional meeting on String theory", 10-20 June 2001, Kolymbari, Crete.  
Webpage, <http://hep.physics.uoc.gr/mideast/>
3. Chairman of the organizing committee of the meeting of the Greek High Energy Physics society, "HEP 2001", 6-8 April 2001, Heraklion, Crete.  
Webpage, <http://hep.physics.uoc.gr/hep2001/>
4. Chairman of the organizing committee of the RTN meeting "Superstring Theory", 8-22 April, Heraklion, Crete.  
Webpage, <http://hep.physics.uoc.gr/sustring2001/>
5. Chairman of the organizing committee of the school and conference "Second Crete regional meeting on String theory", 19-28 June 2003, Kolymbari, Crete.  
Webpage, <http://hep.physics.uoc.gr/mideast2/>
6. Chairman of the organizing committee of the conference "RTN2004 and EXT workshop: quantum space-time", 5-11 September 2004, Kolymbari, Crete.  
Webpage, <http://hep.physics.uoc.gr/RTN2004/>
7. Chairman of the organizing committee of the school and conference "Third Crete regional meeting on String theory", 23 June-2 July 2005, Kolymbari, Crete. 2005.  
Webpage, <http://hep.physics.uoc.gr/mideast3/>
8. Member of the organizing committee of the conference "Constituents, fundamental forces and symmetries of the universe", Corfu, 20-26 September 2005.  
Webpage, <http://corfu2005.physics.uoi.gr/qu.html>
9. Member of the organizing committee of the summer institute, "Interactions Fondamentales et la structure de l'Espace-temps", ENS, Paris, 14-26 August 2006.  
Webpage, <http://www.lpt.ens.fr/cremmer/ETE06.html>
10. Member of the scientific organizing committee of the meeting "Paris-Amsterdam Joint Meeting on Holography and Black Holes", 5-6 March 2007, Paris.  
Webpage, <http://www.lpthe.jussieu.fr/paris-ams07/>
11. Member of the scientific organizing committee, of the advanced summer school "String Theory and the real world", 2-27 July 2007, Les Houches, France.  
Webpage, <http://www.lpthe.jussieu.fr/houches07/index.html>
12. Member of the organizing committee of the school and conference "Fourth Crete regional meeting on String theory", 10-17 June 2007, Patras, Greece.  
Webpage, <http://hep.physics.uoc.gr/mideast4/>

13. Member of the organizing committee of the conference "XXXVII Paris Summer Institute on Black Holes, Black Rings and Modular Forms", ENS, Paris, 13-24 August 2007.  
Webpage, <http://string.lpthe.jussieu.fr/bhole07/>
14. Member of the organizing committee of the Einstein-Minerva Center rapid School, "String Theory, from theory to experiment", 1-4 April 2008, Weizmann Institute of Science, 2008.  
Webpage <http://www.weizmann.ac.il/conferences/RapidSchool/>
15. Member of the organizing committee of the Jerusalem workshop, "String Theory, from theory to experiment", 6-11 April 2008, Hebrew University, 2008.  
Webpage <http://www.as.huji.ac.il/workshops/isf/strings/index.php>
16. Member of the organizing committee of the String Phenomenology workshop at CERN, 21 July-15 August 2008, Webpage  
<http://ph-dep-th.web.cern.ch/ph-dep-th/content2/THInstitutes/2008/strings/strings.html>
17. Member of the organizing committee of the Institut d'Été, Paris, 25 August-5 September 2008. Webpage <http://www.phys.ens.fr/cremmer/ETE08.html>
18. Member of the organizing committee of the RTN conference, Sept 11-18, 2008, Varna, Bulgaria. Webpage <http://theo.inrne.bas.bg/dobrev/FU-4.htm>
19. Chairman of the organizing committee of the "Mini-Workshop on application of AdS/CFT to condensed matter problems", 8-12 May, 2009, Heraklion, Crete.  
Website: <http://hep.physics.uoc.gr/ads-cond-mat/AdS-cond.html>
20. Chairman of the organizing committee of the "5th Crete Regional Meeting on String Theory", June 28-July 6, 2009, Kolymbari, Crete.  
Webpage <http://hep.physics.uoc.gr/mideast5/index.html>
21. Member of the organizing committee of the conference "Crete Workshop at the Frontiers of Cosmology", 28 March-5 April 2010, Heraklion, Crete.  
Webpage: <http://hep.physics.uoc.gr/cosmo10/index.html>
22. Member of the organizing committee of the conference "Crete Conference On Gauge Theories And The Structure Of Spacetime", 11-18 September 2010, Kolymbari, Crete.  
Webpage: <http://hep.physics.uoc.gr/conf09/>
23. Member of the organizing committee of the advanced school "School and Workshop on D-brane Instantons, Wall Crossing and Microstate Counting", 15-21 November 2010, ICTP, Trieste.  
Webpage: [http://cdsagenda5.ictp.it/full\\_display.php?email=0&ida=a09223](http://cdsagenda5.ictp.it/full_display.php?email=0&ida=a09223)
24. Member of the organizing committee of the "6th Crete Regional Meeting on String Theory", June 19-26, 2011, Milos, Greece.  
Webpage <http://hep.physics.uoc.gr/mideast8/index.html>

25. Member of the organizing committee of the advanced school “Quantum Gravity and Quantum Cosmology”, 12-17 September 2011, Naxos, Greece.  
Webpage: <http://www.physics.ntua.gr/zamarias/cosmo11/>
26. Member of the organizing committee of the advanced workshop “Paris Meeting on Holography at Finite Density”, 16-18 November 2011, Paris, France.  
Webpage: [http://www.apc.univ-paris7.fr/APC/Conferences/Ads\\_CMT\\_Workshop/Home.html](http://www.apc.univ-paris7.fr/APC/Conferences/Ads_CMT_Workshop/Home.html)
27. Member of the organizing committee of the advanced workshop “APC meeting on Superluminal Neutrinos”, 12-13 January 2012, Paris, France.  
Webpage: [http://www.apc.univ-paris7.fr/APC/Conferences/APC\\_Meeting\\_on\\_Superluminal\\_Neutrinos/Home.html](http://www.apc.univ-paris7.fr/APC/Conferences/APC_Meeting_on_Superluminal_Neutrinos/Home.html)

## 10 Scientific evaluation services

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- 1988- Continual service as a referee in all major journals of High Energy physics and cosmology: *International Journal of Modern Physics*, *Journal of High Energy Physics*, *Nuclear Physics*, *Physics Letters*, *Physics Reports*, *Physical Review D*, *Physical Review Letters*, *Reviews of Modern Physics*, *Physics Letters*, *Journal of Mathematical Physics*, *Journal of Astrophysics and Cosmology*
- 1996-98 Scientific evaluator for the NATO Science program (scientific conferences).
- 2001- Scientific evaluator for the American-Israeli bi-national foundation.
- 2004-2006 Referee and panel member in various actions of the EU 6th-framework program. (Member of the EST, TOK and EIF panels of the Marie Curie program)
- 2003- Netherlands Foundation for Fundamental Research on Matter (2003-). Evaluator of applications of Junior Scientific grants.
- 2004- Particle Physics Research Council, (PPARC) UK. Regular scientific evaluator for postdoctoral applications.
- 2004- INFN, (Italy). Scientific evaluator of research proposals of Italian research teams.
- 2005- Belgian Science Policy. Scientific evaluator of networks of university research teams.
- 2006-2009 National representative of the Greek State, in the Program Committee of the "Ideas" program of the European FP7.
- 2007 Participation at an evaluation committee at Weizmann Institute of Science (Israel).
- 2007 Participation at a faculty evaluation committee at the University of Uppsala (Sweden).
- 2007- Scientific evaluations for the "Fonds Québécois de la recherche sur la nature et les technologies" (Canada).
- 2008- Scientific evaluations for the Agence Nationale de Research (ANR), France.
- 2009- Scientific evaluations for the "Greek Fellowship Institute" (IKY), Greece.
- 2010 Participation at a faculty evaluation committee at the University of Uppsala (Sweden).

- 2010 Participation at a faculty evaluation committee at the University of Chalmers (Sweden).
- 2010– Evaluations for the Institut Universitaire de France.
- 2010– Evaluator for the Fonds de la Recherche Scientifique, (FNRS), Belgium.
- 2010– Evaluator for the Israel Science Foundation (ISF), Israel.
- 2011– Evaluator for the European Research Council (ERC).
- 2011– Evaluator for rolling grants at the Science and Technology Facilities Council (STFC), UK.
- 2011– Evaluator for the German-Israeli Foundation (GIF).

## **11 Relations to industry**

From 2005 on, scientific evaluation consultant of the US technology companies: “Mission Critical Technologies”, and ”New Physics Devices” based in LA, California. Assessment is provided on various novel technology projects.

## 12 Invitations to Conferences with presentation of work

1	July 1985	Conference on High Energy Physics, Kolymbari , Greece
2	July 1986	String Theory Conference, University of California, San Diego, USA
3	July 1989	Workshop on Rational Conformal Field Theories, Aspen, Colorado, USA
4	May 1990	Yukawa International Seminar, Kyoto, Japan
5	June 1990	Trieste Conference on Topological Methods in Quantum Field Theories, ICTP, Trieste, Italy
6	May 1991	Conference on Mirror Symmetry, M.S.R.I., Berkeley, USA
7	June 1991	Conference on Infinite Analysis, R.I.M.S., Kyoto, Japan
8	July 1991	Conference on 2-d String Theory, Aspen, Colorado, USA
9	August 1991	Institut d'été de Physique, E N S, Paris, France
10	January 1992	Conference on High Energy Physics, Ioannina University, Greece
11	July 1992	Triangular Meeting, Heraklion, Greece
12	September 1992	Conference on String Theory, Quantum Gravity and the Unification of the Fundamental Interactions, Roma, Italy
13	May 1993	Conference on String Theory, ICTP, Trieste, Italy
14	May 1993	Strings 93, University of California, Berkeley, USA
15	July 1993	Europhysics Conference, Marseille, France
16	August 1993	Institut d'été, ENS, Paris, France
17	January 1994	Conference on High Energy Physics, Athens, Greece
18	March 1994	XXIX rencontres de Moriond, Meribel, France.
19	March 1994	Spring Workshop on String Theory and Quantum Gravity, Trieste, Italy.

20	April 1994	Rencontres sur la Cosmologie, P. Challonge, Observatoire de Paris, France.
21	June 1994	Triangular Meeting, Copenhagen, Denmark.
22	July 1994	International Conference of Mathematical Physics, Paris, France.
23	August 1994	Summer workshop, ENS, Paris, France.
24	September 1994	Conference on String Theory, Torino, Italy.
25	November 1994	Workshop on Quantum Black Holes, ENS, Paris, France.
26	March 1995	Strings 95, USC, Los Angeles, USA
27	April 1995	Spring School and workshop on String Theory, Gauge Theory and Quantum Gravity, Trieste, Italy.
28	June 1995	Four Seas Conference, Trieste, Italy.
29	July 1995	Conference on gauge theory, and Quantum Gravity, Leuven, Belgium.
30	August 1995	Institut d'été, ENS, Paris, France.
31	September 1995	Workshop from the Weak scale to the Plank scale, Santa Barbara, USA
32	July 1996	Meeting on Duality symmetries, Benasque, Spain
33	September 1996	TMR meeting on gauge theories and gravity, Heraklion, Greece
34	April 1997	Euro-conference on Duality, Cambridge, UK
35	June 1997	Strings 97 Conference, Amsterdam, Netherlands
36	August 1997	Triangular Meeting, ENS, Paris, France
37	September 1997	Conference on Advanced Quantum Field Theory, La Londe les Maures, France
38	February 1999	TMR meeting on physics beyond the standard model, Trieste, Italy
39	May 1999	XXI Triangular Meeting, Utrecht, Netherlands
40	July 1999	Workshop on D-branes, Vector bundles and bound states, IHES, Paris, France

41	August 1999	ITP workshop on Branes and gauge theories, Santa Barbara, USA
42	September 1999	TMR meeting on strings, supersymmetry and supergravity, ENS, Paris, France
43	February 2000	APCT Winter School on string theory, Seoul, Korea
44	May 2000	Workshop on String Theory, Wien, Austria
45	June 2000	Triangular Meeting, Copenhagen, Denmark
46	June 2000	SUSY2k conference, Geneva, Switzerland
47	July 2000	Beyond 4D, Trieste, Italy
48	August 2000	New Directions in Gravity, Ioannina, Greece
49	October 2000	RTN meeting, Berlin, Germany
50	January 2001	Supergravity Superstrings and M-theory, Paris, France
51	May 2001	Planck 2001, Lalonde les Maures, France
52	June 2001	Conference on Physics and Astrophysics of Extra Dimensions, Paris, France
53	July 2001	Amsterdam workshop on string theory, Amsterdam, Netherlands
54	August 2001	ENS Summer Institute, Paris, France
55	January 2002	RTN meeting, “Quantum Space-time”, Utrecht, Netherlands
56	February 2002	RTN meeting, “Superstring Theory”, Cambridge, UK
57	June 2002	Euresco Conference on string theory and gravitation, Bad Herrenalb , Germany
58	June 2002	RTN meeting on String theory, Schloss Ringberg, Germany
59	August 2002	ENS summer Institute, Paris, France
60	December 2002	RTN meeting “across the energy frontier”, Paris, France
61	March 2003	Workshop on D-brane SM building, Madrid, Spain

62	April 2003	RTN conference on String Theory, Casabianca, Italy
63	May 2003	Planck 03 Conference, Madrid, Spain
64	July 2003	Brane Cosmology Workshop, Cambridge, UK
65	August 2003	Ahrenschoop Meeting, Berlin, Germany
66	May 2004	11-th conference on mathematical physics , Teheran, Iran
67	June 2004	APC workshop on brane worlds Paris, France
68	November 2004	The String Vacuum Workshop Munich, Germany
69	March 2005	Conference on string phenomenology Perimeter Institute, Canada
70	April 2005	GDR Susy Grenoble, France
71	April 2005	Workshop on string cosmology Uppsala, Sweden
72	June 2005	Conference on string phenomenology Munich, Germany
73	October 2005	Workshop GDR, X-dimensions Lyon, France
74	October 2005	Workshop GDR, Dark Matter Annecy, France
75	November 2005	Conference EuroGDR Barcelone, Espagne
76	November 2005	PNC meeting Paris
77	December 2005	Solvay conference Brussels
78	April 2006	Annual meeting on HEP Ioannina, Grèce
79	April 2006	Cosmology, Strings, and Black Holes Copenhagen
80	May-June 2006	Workshop on String Vacua Trieste
81	June 2006	30th Johns Hopkins Workshop Firenze
82	August 2006	Conference on String Phenomenology UC Santa Barbara
83	October 2006	30 years of Supergravity Conference Paris
84	October 2006	Annual RTN Workshop Napoli 23

85	December 2006	High Energy Cosmology and Strings IHP, Paris
86	March 2007	Supersymmetry, Supergravity and Superstrings Pisa, Italy
87	March 2007	Dimensions supplémentaires du GDR-SUSY Orsay, Paris
88	April 2007	String Theory: Achievements and Perspectives Israel
89	June 2007	String Phenomenology Conference Frascati, Italy
90	July 2007	Eurostrings 2007 Kolymbari, Greece
91	August 2007	Exploring QCD: Deconfinement, Extreme environments and holography Newton Institute, Cambridge
92	August 2007	CERN TH workshop on Beyond the Standard Model Physics Geneva
93	March 2008	Rencontres de Moriond: Electroweak Interactions and unified theories La Thuile, Italy
94	April 2008	String Theory: from Theory to Experiment, Jerusalem, Israel
95	May 2008	String Phenomenology 2008, U Penn, Philadelphia, USA
96	June 2008	from Lattice to AdS/CFT, GGI institute, Firenze, Italy
97	July 2008	Eurostrings 2008, Amsterdam, Netherlands
98	September 2008	Blackholes: a landscape of theoretical physics problems, CERN, Geneva
99	September 2008	Fourth EU RTN workshop Varna, Bulgaria
100	September 2008	Superstrings@Cyprus, Agia Napa, Cyprus
101	November 2008	Consistent IR modifications of gravity, APC, Paris
102	May 2009	Cosmo Workshop Université Libre de Bryxelles
103	June 2009	String Phenomenology 2009 Warsaw, Poland
104	June 2009	Strings 2009 Roma, Italy
105	July 2009	APCTP Focus Program on Aspects of Holography and Gauge/string duality, Pousan, Korea

106	August 2009	Conference X-QCD Seoul, Korea
107	August 2009	Institut d'Ete ENS, Paris
108	September 2009	Porto Meeting Porto, Portugal
109	February 2010	IPMU Conference Tokyo, Japan
110	March 2010	"String Theory and Extreme Matter" Heildeberg, Germany
111	April 2010	"Fundamentals of Gravity" Munich, Germany
112	June 2010	Planck Conference CERN, Geneva
113	July 2010	String Theory Workshop Amsterdam, Netherlands
114	July 2010	String Phenomenology 2010 Paris, France
115	August 2010	ESI Workshop on AdS/CFT Vienna, Austria
116	August-September 2010	Heavy Ion Institute CERN, Geneva
117	October 2010	String Cosmology IPMU, Tokyo
118	November 2010	AdS/CMT GGI, Firenze, Italy
119	November 2010	Workshop on instantons, black holes and microstate counting ICTP, Trieste, Italy
120	February 2011	Workshop on dynamical processes in AdS/CFT Cambridge, UK
121	May-June 2011	Planck 2011 conference Lisbon, Portugal
122	June 2011	Workshop on "Black Hole Answers for Condensed Matter Questions" Leiden, The Netherlands
123	July 2011	EPS Conference 2011 Grenoble, France
124	August 2011	Institut d'Été ENS, Paris, France

## 13 Professional Invitations/Seminars

1.	March 1988	University of Texas A & M, College Station, USA
2.	April 1988	University of Texas, Austin, USA
3.	May 1988	Harvard University, Boston, USA
4.	February 1989	University of Florida, Gainesville, USA
5.	February 1989	University of Miami, USA
6.	June 1989	University of Crete, Heraklion, Greece
7.	July 1989	Aspen Center for Theoretical Physics, USA
8.	September 1989	Caltech, Pasadena, USA
9.	January 1990	Columbia University, NY, USA
10.	February 1990	Harvard University, Boston, USA
11.	March 1990	Syracuse University, USA
12.	March 1990	Rochester University, USA
13.	March 1990	S.L.A.C., Stanford, USA
14.	September 1990	Caltech, Pasadena, USA
15.	January 1991	Columbia University, NY, USA
16.	February 1991	Princeton University, USA
17.	March 1991	Harvard University, Boston, USA
18.	May 1991	Caltech, Pasadena, USA
19.	June 1991	R.I.M.S.-Yukawa Institute, Kyoto, Japan
20.	July 1991	Aspen Center for Theoretical Physics, USA
21.	July-August 1991	CERN, Geneva, Switzerland
22.	August 1991	ENS, Paris, France
23.	January 1992	Ioannina University, Greece
24.	January 1992	Thessaloniki University, Greece
25.	July 1992	Crete University, Heraklion, Greece
26.	January 1993	Hebrew University, Jerusalem, Israel
27.	January 1993	Tel-Aviv University, Tel-Aviv, Israel
29.	May 1993	ICTP et SISSA, Trieste, Italy
30.	May 1993	University of California, Berkeley, USA
31.	June 1993	Caltech, Pasadena, USA
32.	October 1993	Ecole Polytechnique, Paris, France
33.	November 1993	Humbolt University, Berlin, Germany
34.	January 1994	University of Athens, Greece
35.	March 1994	CEA Saclay, Paris, France
36.	March 1994	ENS, Paris, France
37.	April 1994	Orsay, Paris, France
38.	July 1994	Ecole Polytechnique, Paris, France
39.	August 1994	ENS, Paris, France

40.	September 1994	Torino University, Italy
41.	November 1994	ENS, Paris, France
42.	November 1994	Caltech, Pasadena, USA
43.	December 1994	USC, Los Angeles, USA
44.	December 1994	UCLA, Los Angeles, USA
45.	December 1994	ITP, Santa Barbara, USA
46.	December 1994	UC Berkeley, USA
47.	February 1995	Yale University, New Haven, USA
48.	March 1995	Harvard University, Boston, USA
49.	March 1995	MIT, Boston, USA
50.	March 1995	Princeton University, USA
51.	March 1995	University of Pennsylvania, Philadelphia, USA
52.	March 1995	USC, Los Angeles, USA
53.	April 1995	ICTP, Trieste, Italy
54.	June 1995	ICTP, Trieste, Italy
55.	July 1995	Leuven University, Leuven, Belgium
56.	August 1995	ENS, Paris, France
57.	September-October 1995	ITP, Santa Barbara, USA
58.	September 1995	Caltech, Pasadena, USA
59.	October 1995	USC, Los Angeles, USA
60.	January 1996	Roma II University, Roma, Italy
61.	February 1996	Napoli University, Italy
62.	February 1996	Imperial College, London, UK
63.	February 1996	Cambridge University, UK
64.	March 1996	Ecole Polytechnique, Paris, France
65.	October 1996	Ecole Polytechnique, Paris, France
66.	November 1996	Leuven University, Belgium
67.	December 1996	ENS and Paris VI, Paris, France
68.	February 1997	Padova University, Italy
69.	March 1997	Leuven University, Belgium
70.	April 1997	Newton Institute, Cambridge, England
71.	May 1997	Max Planck Institute, Potsdam, Germany
72.	August 1997	ENS, Paris, France
73.	September 1997	Crete University, Heraklion, Greece
74.	April-June 1998	Ecole Polytechnique, Paris, France
75.	July-August 1998	Crete University, Heraklion, Greece
76.	September 1998	Triangular Meeting, Kolymbari, Greece
77.	October 1998	Ecole Polytechnique, Paris, France
78.	October 1998	Geneva University, Switzerland
79.	June 1999	CERN, Geneva, Switzerland
80.	August 1999	University of California, Berkeley, USA

81.	August 1999	Caltech, Pasadena, USA
82.	January 2000	ENS, Paris, France
83.	February 2000	Korea Advanced Study Institute, Seoul, Korea
84.	May 2000	Erwin Schrödinger Institute, Wien, Austria
85.	May 2000	ENS, Paris, France
86.	June 2000	Niels Bohr Institute, Copenhagen, Denmark
87.	June 2000	CERN, Geneva, Switzerland
88.	July 2000	ICTP, Trieste, Italy
89.	August 2000	CERN, Geneva, Switzerland
90.	October 2000	Humbolt University, Berlin, Germany
91.	November 2000	Oxford University, Oxford, UK
92..	December 2000	University of Cyprus, Nicosia, Cyprus
93.	January 2001	Institut Henri Poincare, Paris, France
94.	January 2001	Ecole Normale Superieure, Paris, France
95.	January 2001	Saclay, Paris, France
96.	May 2001	Saclay, Paris, France
97.	June 2001	Ecole Polytechnique, Paris, France
98.	July 2001	University of Amsterdam, Netherlands
99.	August 2001	ENS, Paris, France
100.	February 2002	Newton Institute, Cambridge, UK
101.	March 2002	IHES, Paris, France
102.	June 2002	CERN, Geneva, Switzerland
103.	August 2002	CERN, Geneva, Switzerland
104.	November 2002	ICTP, Trieste, Italy
105.	December 2002	ENS, Paris, France
106.	January 2003	University of Torino, Italy
107.	February 2003	King's College, London, UK
108.	March 2003	Autonoma U., Madrid
109.	April 2003	University of Roma I, Italy
110.	April 2003	University of Lecce, Italy
111.	July 2003	University of Cambridge, UK
112.	October 2003	KITP, Santa Barbara, USA
113.	October 2003	Stanford University, Palo Alto, USA
114.	October 2003	UC Berkeley, USA
115.	November 2003	UCLA, Los Angeles, USA
116.	November 2003	Caltech, Pasadena, USA
117.	January 2004	Weizmann Institute, Rehovot
118.	January 2004	Hebrew University, Jerusalem
119.	May 2004	IPM, Teheran
120.	May 2004	University of Lecce, Italy
121.	August 2004	CERN
122.	November 2004	Munich University

122.	November 2004	Munich University
123.	May 2005	Université d'Amsterdam
124.	August 2005	CERN, Genève
125.	November 2005	Université de Barcelone
126.	February 2006	Université de Roma Tor Vergata
127.	February 2006	Athens Polytechnic
128.	February 2006	University of Crete, Heraklion
129.	April 2006	Trinity College, Dublin
130.	June 2006	Galileo Galilei Institute, Firenze
131.	September 2006	KITP, UC Santa Barbara
132.	September 2006	Stanford
133.	September 2006	Caltech
134.	September 2006	LMU, Munich
135.	January 2006	CERN
136.	January 2007	ETH, Zürich
137.	February 2007	U. Roma II, Tor Vergata
138.	February 2007	Nikhef et U. de Amsterdam
139.	May 2007	Universidad Autonoma de Barcelona
140.	June 2007	Universitat de Roma II, Tor Vergata
141.	June 2007	University of Patras
142.	July-August 2007	CERN
143.	August 2007	Newton Institute, Cambridge
144.	November 2007	Max Planck Institut, Munich
145.	January 2008	CERN, Geneva
146.	February 2008	Uppsala, Sweden
147.	February 2008	Imperial College, London
148.	April 2008	Yerevan Institute for Physics, Armenia
149.	April 2008	Hebrew University, Jerusalem
150.	April 2008	IPM, Teheran, Iran
151.	May 2008	University of Pennsylvania, Philadelphia, USA
152.	June 2008	Galileo Galilei Institute, Firenze, Italy
153.	July 2008	University of Amsterdam, Netherlands
154.	July 2008	University of Cyprus, Nicosia, Cyprus
155.	July-August 2008	CERN, Geneva
156.	August 2008	ENS, Paris
157.	September, 2008	CERN, Geneva
158.	September 2008	Université Libre de Bruxelles, Belgium
159.	November 2008	APC, Paris
160.	December 2008	APC, Paris
161.	December 2008	KU Leuven, Belgium
162.	January 2009	ENS, Paris
163.	February 2009	CERN, Geneva

164	March 2009	University of Barcelona, Spain
165	March 2009	University of Ioannina, Greece
166	April 2009	RIKEN, Japan
167	April 2009	IPMU, Tokyo, Japan
168	April 2009	Yukawa Institute, Kyoto, Japan
169	April 2009	Hanyang University of Technology, Singapore
170	May 2009	Université Libre de Bryxelles, Belgium
171	May 2009	APC, Paris
172	June 2009	Université d'Orsay, Paris
173	June 2009	University of Warsaw, Poland
174	June 2009	University of Roma, Tor Vergata, Italy
175	July 2009	APCTP, Pohang, Korea
176	August 2009	Seoul National University, Korea
177	August 2009	CERN, Geneva
178	August 2009	ENS, Paris
179	September 2009	APC, Paris
180	September 2009	University of Porto, Portugal
181	September 2009	Université Libre de Bryxelles, Belgium
182	November 2009	ENS, Paris
183	December 2009	KU Leuven, Belgium
184	December 2009	ICTS, Bangalore, India
185	February 2010	IPMU, Kashiwa, Japan
186	March 2010	Imperial College, London
187	March 2010	King's College, London
188	March 2010	University of Heildenberg, Germany
189	April 2010	LMU, Munich, Germany
190	May 2010	University of Uppsala, Sweden
191	May 2010	APC, Paris
192	June 2010	CERN, Geneva
193	June 2010	Perimeter Institute, Canada
194	June-July 2010	University of Amsterdam, The Netherlands
195	July 2010	ENS, Paris
196	July-August 2010	CERN, Geneva
197	August 2010	Technical University of Vienna, Austria
198	September 2010	APC, Paris
199	September 2010	Université d'Orsay, Paris
200	October 2010	IPMU, Tokyo
201	November 2010	GG Institute, Firenze
202	November 2010	University of Roma II, Italy
203	November 2010	ICTP, Trieste, Italy
204	December 2010	Hebrew University, Jerusalem, Israel
205	January 2011	Tel Aviv University, Israel
206	January 2011	Weizmann Institute of Science, Rehovot, Israel
207	January 2011	Ben Gurion University, BerSheva , Israel

208	February 2011	University of Cambridge, UK
209	April 2011	Feza Gursey Institute, Istanbul, Turkey
210	April 2011	Koc University, Istanbul, Turkey
211	June 2011	Institute Superior Tecnico, Lisbon , Portugal
212	June 2011	University of Leiden, The Netherlands
213	July 2011	CERN, Geneva
214	August 2011	ENS, Paris
215	September 2011	CERN, Geneva

## 14 List of Publications of Elias Kiritsis:

My work has more than 6800 citations (compiled mostly from SPIRES and Science Citation Index). It includes 3 papers with more than 200 citations, 16 papers with more than 100 citations and 34 papers with more than 50. The h-index=50. A detailed list of citations can be downloaded (as a postscript or PDF file) from <http://hep.physics.uoc.gr/~kiritsis/test/index.html>

The present file contains hyperlinks (blue and red) which link to the associated papers: files at the ArXiv, files in a private repository and published versions.

- **Papers submitted refereed journals**
  
- **Publications in refereed journals**
  
- **Publications in Conventional Conference Proceedings**
  
- **Publications in Electronic Conference Proceedings**
  
- **Invited reviews**
  
- **Lectures given at international Schools**
  
- **Books**
  
- **Editor of Proceedings**
  
- **Thesis and unpublished preprints**

## Papers submitted in refereed journals

1. **Matti Jarvinen, Elias Kiritsis,**  
*Holographic Models for QCD in the Veneziano Limit.*  
CCTP-2011-30;  
[arXiv:1112.1261 \[hep-ph\]](#)
2. **Elias Kiritsis and Anastasios Taliotis,**  
*Multiplicities from black-hole formation in heavy-ion collisions.*  
CCTP-2011-33;  
[arXiv:1111.1931 \[hep-ph\]](#)
3. **Elias Kiritsis, Liuba Mazzanti and Francesco Nitti** *Dressed spectral densities for heavy quark diffusion in holographic plasmas.* CCTP-2011-29;  
[arXiv:1111.1008 \[hep-th\]](#)
4. **Elias Kiritsis and George Pavlopoulos,**  
*Heavy quarks in a magnetic field.*  
CCTP-2011-36;  
[arXiv:1111.0314 \[hep-th\]](#)
5. **Elias Kiritsis and Anastasios Taliotis,**  
*Mini-Black-Hole production at RHIC and LHC.*  
CCTP-2011-35;  
[arXiv:1110.5642 \[hep-ph\]](#)
6. **Ioannis Iatrakis and Elias Kiritsis,**  
*Vector-axial vector correlators in weak electric field and the holographic dynamics of the chiral condensate.*  
CCTP-2011-28;  
[arXiv:1109.1282 \[hep-ph\]](#)
7. **B. S. Kim, E. Kiritsis, C. Panagopoulos,**  
*“Strange metal behavior from the light-cone AdS black hole”*  
CCTP-2010-25;  
[arXiv:1012.3464 \[cond-mat.str-el\]](#)

## Publications in refereed journals

8. **B. Gouteraux and E. Kiritsis,**  
*“Generalized Holographic Quantum Criticality at Finite Density”.*  
CCTP-2011-20;  
[arXiv:1107.2116 \[hep-th\]](#) Published in **JHEP 1112 (2011) 036.**

9. **E. Kiritsis and V. Niarchos**,  
“*Josephson Junctions and AdS/CFT Networks*”  
CCTP-2011-13;  
[arXiv:1105.6100 \[hep-th\]](#)  
Published in **JHEP 1107 (2011) 112**. Erratum-ibid. 1110 (2011) 095.
10. **A. Buchel, U. Gursoy and E. Kiritsis**,  
“*Holographic bulk viscosity: GPR versus EO*”.  
UWO-TH-11-5, CCTP-2011-12, CERN-PH-TH-2011-074;  
[arXiv:1104.2058 \[hep-th\]](#) Published in **JHEP 1109 (2011) 095**.
11. **E. Kiritsis and V. Niarchos**,  
“*Large- $N$  limits of 2d CFTs, quivers and AdS<sub>3</sub> duals*”,  
CCTP-2010-19;  
[arXiv:1011.5900 \[hep-th\]](#) Published in **JHEP 1104 (2011) 113**
12. **I. Iatrakis, E. Kiritsis and A. Paredes**,  
“*An AdS/QCD model from tachyon condensation, II*”  
CCTP-2010-13;  
[arXiv:1010.1364 \[hep-ph\]](#) Published in **JHEP 1011 (2010) 123**..
13. **U. Gursoy, E. Kiritsis, L. Mazzanti and F. Nitti**,  
“*Langevin diffusion of heavy quarks in non-conformal holographic backgrounds*”.  
CCTP-2010-6;  
[arXiv:1006.3261 \[hep-th\]](#) Published in **JHEP 1012 (2010) 088** .
14. **C. Charmousis, B. Gouteraux, B.S. Kim, E. Kiritsis and R. Meyer**,  
“*Effective Holographic Theories for low-temperature condensed matter systems*”.  
CCTP-2010-5;  
[arXiv:1005.4690 \[hep-th\]](#) Published in **JHEP JHEP 1011:151,2010**.
15. **I. Iatrakis, E. Kiritsis and A. Paredes**,  
“*AdS/QCD model from an effective action for open string tachyons*”.  
CCTP-2010-2;  
[arXiv:1003.2377 \[hep-ph\]](#) Published in **Phys.Rev.D81:115004,2010**..
16. **E. Kiritsis**,  
“*Spherically symmetric solutions in modified Horava-Lifshitz gravity*”.  
CCTP-2009-20;  
[arXiv:0911.3164 \[hep-th\]](#) Published in **Phys.Rev.D81:044009,2010**.
17. **E. Kiritsis, and G. Kofinas**,  
“*On Horava-Lifshitz “Black Holes”*”.  
CCTP-2009-16;  
[arXiv:0910.5487 \[hep-th\]](#) Published in **JHEP 1001:122,2010**.
18. **E. Kiritsis, M. Lennek and B. Schellekens**,  
“*SU(5) orientifolds, Yukawa couplings, Stringy Instantons and Proton Decay*”

- CCTP-2009-15, CPHT-RR82-0809, NIKHEF/2009-18;  
[arXiv:0909.0271 \[hep-th\]](#) Published in *Nucl.Phys.* **B829** 298-324,2010.
19. **U. Gursoy, E. Kiritsis, G. Michalogiorgakis and F. Nitti**,  
 “*Thermal Transport and Drag Force in Improved Holographic QCD*”,  
 CPHT-RR052.0609, ITP-UU-09/022, SPIN-09/21;  
[arXiv:0906.1890 \[hep-ph\]](#) Published in *JHEP* 0912:056,2009.
20. **P. Anastasopoulos, E. Kiritsis and A. Lionetto**,  
 “*On mass hierarchies in orientifold vacua.*”  
 ROM2F-2009-08, CERN-PH-TH-2009-063;  
[arXiv:0905.3044 \[hep-th\]](#) Published in *JHEP* 0908:026,2009.
21. **E. Kiritsis, G. Kofinas**,  
 “*Hořava-Lifshitz Cosmology.*”  
[arXiv:0904.1334 \[hep-th\]](#) Published in *Nucl.Phys.*B821:467-480,2009
22. **U. Gursoy, E. Kiritsis, L. Mazzanti, F. Nitti**,  
 “*Improved Holographic Yang-Mills at Finite Temperature: Comparison with Data.*”;  
 CPHT-RR012.0309,  
[arXiv:0903.2859 \[hep-th\]](#) Published in *Nucl.Phys.*B820:148-177,2009.
23. **E. Kiritsis**,  
 “*Dissecting the string theory dual of QCD.*”  
[arXiv:0901.1772 \[hep-th\]](#) Published in *Fortsch.Phys.*57:396-417,2009.
24. **U. Gursoy, E. Kiritsis, L. Mazzanti and F. Nitti**  
 “*Holography and Thermodynamics of 5D Dilaton-gravity*”;  
 CPHT-RR-088-1108  
[arXiv:0812.0792 \[hep-th\]](#) Published in *JHEP* 0905:033,2009.
25. **E. Kiritsis, M. Lennek and B. Schellekens**  
 “*Free Fermion Orientifolds*”;  
 CPHT-RR-081-1008  
[arXiv:0811.0515 \[hep-th\]](#) Published in *JHEP* 0902:030,2009.
26. **E. Kiritsis, B. Schellekens and M. Tsulaia**,  
 “*Discriminating MSSM families in (free-field) Gepner Orientifolds*”;  
 CPHT-RR059-0808, NIKHEF-2008-012, TUW-08-08;  
[arXiv:0809.0083 \[hep-th\]](#) Published in *JHEP* 0810:106,2008.
27. **E. Kiritsis and V. Niarchos**,,  
 “*Interacting String Multi-verses and Holographic Instabilities of Massive Gravity,*”;  
 CPHT-RR-041-0608,  
[arXiv:0808.3410 \[hep-th\]](#) Published in *Nucl.Phys.*B812:488-524,2009.
28. **E. Kiritsis and V. Niarchos**,  
 “*(Multi)Matrix Models and Interacting Clones of Liouville Gravity,*”;

- CPHT-RR-030-0508,  
[arXiv:0805.4234 \[hep-th\]](#) Published in **JHEP 0808:044,2008**.
29. **U. Gursoy, E. Kiritsis, L. Mazzanti and F. Nitti**,  
 “*Deconfinement and Gluon Plasma Dynamics in Improved Holographic QCD*,”  
 CPHT-RR024-0408  
[arXiv:0804.0899 \[hep-th\]](#) Published in **Phys.Rev.Lett.101:181601,2008**.
30. **U. Gursoy, E. Kiritsis et F. Nitti**,  
 “*Exploring improved holographic theories for QCD: Part II*.”  
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## Invited reviews

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171. **E. Kiritsis**, “*D-branes in standard model building , gravity and cosmology*”  
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174. **E. Kiritsis** “*Holographic QCD*” Lectures given at the [Fifth Aegean Summer School](#)  
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