

# Konstantinos Siampos

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Date of birth: 05/09/1981, Greek Citizenship

## Academic Positions

May 2024 **Assistant Professor**, *Section of Theoretical Physics*, School of Physics, Aristotle University of Thessaloniki, Thessaloniki

## Research Positions

Oct 2019 **Post-doctoral researcher**, *Section of Nuclear and Particle Physics*, Department of Physics, National and Kapodistrian University of Athens, Athens

Oct 2017 **CERN fellow**, *Theory division*, CERN, Geneva  
Sep 2019

Oct 2014 **Post-doctoral researcher**, *Albert Einstein Centre for Fundamental Physics*, Institute for Theoretical Physics, University of Bern, Bern

Oct 2012 **Post-doctoral researcher**, *Mécanique et gravitation*, Université de Mons, Mons  
Sep 2014

Oct 2010 **Post-doctoral researcher**, *Le Centre de Physique Théorique*, École Polytechnique, Palaiseau  
Sep 2012

## Educational background

Nov 2009 **Military service: 35th Rangers Unit, Greek special forces**, Cyprus  
Aug 2010

Jun 2005 **PhD in Theoretical and Mathematical Physics**, *Department of Engineering Sciences*, University of Patras, Thesis: Superstring theory applications in gravitational problems and gauge theories, Advisor: Prof. Konstantinos Sfetsos  
Sep 2010

Oct 2003 **Master in Theoretical and Mathematical Physics**, *Department of Physics*, University of Patras, Distinction: 9.62/10, 1<sup>st</sup> out of 15 in my year  
Jun 2005

Sep 1999 **Bachelor in Physics**, *Department of Physics*, University of Patras, Distinction: 8.78/10, 1<sup>st</sup> out of 180 in my year  
Oct 2003

## Fellowships & Prizes

Oct 2017 **CERN fellowship undertaken at the theory division at CERN**, Geneva, Switzerland  
Sep 2019

Oct 2005 **Greek State Scholarships Foundation**, during PhD studies, fellowship amount 18900€  
Mar 2010

Oct 1999 **Greek State Scholarships Foundation**, during undergraduate and graduate studies  
Sep 2005

Jul 2002 **Advanced School in Physics**, Crete Centre for Theoretical Physics, Heraklion, 2<sup>nd</sup> out of 20

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## Extended scientific visits with a fellowship

- Jul 2023 Theory Unit, Physics Department, CERN, Geneva
- Jul 2022 Theory Unit, Physics Department, CERN, Geneva
- Jun 2017 Theory Unit, Physics Department, CERN, Geneva
- Apr 2016 Theory Unit, Physics Department, CERN, Geneva
- Apr-Jul 2008 Le Centre de Physique Théorique, École Polytechnique
- Jan-Apr 2008 Department of Mathematics, Kings College London

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## Teaching and Laboratory Experience

- Oct 2022 **Teaching Assistant in General relativity**, *Department of Physics, National and Kapodistrian University of Athens*  
Present
- Oct 2021 **Teaching Assistant in Quantum Field Theory**, *Department of Physics, National and Kapodistrian University of Athens*  
Present
- Jun 2005 **Teaching Assistant in General Physics Course (theory and experiment)**, *Department of Engineering Sciences, University of Patras*  
Oct 2009
- Jan 2005 **Teaching Assistant in Advanced Electrodynamics Course**, *Department of Physics, University of Patras*  
Jun 2007

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## PhD thesis committee and external examiner

- Feb 2022 **Roberto Ruiz Gil**, *Bosonic strings on  $AdS_3 \times S_3$  with Neveu-Schwarz-Neveu-Schwarz flux*, Departamento de Física Teórica, Universidad Complutense de Madrid  
PhD Defense date: 23/05/2022

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## Main research areas

1. Conformal field theories and integrable models
2. Fluid/gravity correspondence
3. Gauge/gravity duality

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## Publications and impact of research work

- Full list For an updated full list of publications with citation statistics, please click here: [inSPIREHEP](#)
- Journals 49 peer-reviewed publications, number of citations  $\approx$  1300, h-index=22
- Proceedings 6 publications
- Invited 70 times in seminars and in international conferences.
- Speaker

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## Selected peer-reviewed publications

1. F. Delduc, S. Lacroix, K. Sfetsos and K. Siampos, "RG flows of integrable  $\sigma$ -models and the twist function", JHEP 02 (2021) 065.
2. I. Antoniadis, J.-P. Derendinger, P. M. Petropoulos and K. Siampos, "All partial breakings in N=2 supergravity and their rigid limit", JHEP 1808 (2018) 045.
3. L. Ciambelli, C. Marteau, A.C. Petkou, P.M. Petropoulos and K. Siampos "Asymptotically flat holography and Carrollian fluids", JHEP 1807 (2018) 165.

4. K. Sfetsos, K. Siampos and D. C. Thompson, "On generalized integrable  $\lambda$ - and  $\eta$ -deformations and their relation", Nucl. Phys. B899 (2015) 489.
5. V. Niarchos and K. Siampos, "M2–M5 blackfold funnels", JHEP 1206 (2012) 175.

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### Main research interests/achievements

1. Partial breakings in  $N = 2$  matter-coupled supergravities, containing the universal hypermultiplet and Abelian vector multiplets with Minkowski and AdS vacua.
2. Holographic reconstruction of Ricci flat spacetimes from boundary data, i.e. a conformal Carrollian fluid living on the null infinity of the corresponding bulk solution.
3. Integrable relevant deformations of CFTs with current bilinears and interpolations between exact/coset CFTs and their quantum properties in the plane and in the upper-half plane.
4. The M2–M5 intersection in the supergravity regime using the blackfold approach and the finite temperature effects for non-extremal (non-)rotating self-dual string soliton solutions.

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### Collegial contribution and organization of conferences

- Jun 2024 Co-organizer (chair) of the CERN-SEENET-MTP PhD Training program, Aristotle University of Thessaloniki.
- Jan 2024 Co-organizer of the Recent Developments in Conformal Field Theories Workshop, Aristotle University of Thessaloniki.
- Dec 2023 Co-organizer of the annual Xmas Theoretical Physics Symposium, Aristotle University of Thessaloniki.
- Dec 2023 Co-organizer of the annual Xmas Theoretical Physics Workshop, National and Kapodistrian University of Athens.
- Oct 2023 Co-organizer of the 3rd Carroll Workshop, Aristotle University of Thessaloniki.
- Dec 2022 Co-organizer of the annual Xmas Theoretical Physics Workshop, National and Kapodistrian University of Athens.
- Nov 2019- Dec 2023 Co-organizer of the Theory Seminars, Department of Nuclear and Particle Physics, National and Kapodistrian University of Athens.
- June 2019 Co-organizer of the annual String Phenomenology conference, CERN.
- 2017-2019 Organizer of the CERN String Theory Seminars.
- 2014-2017 Organizer of the Theory Seminars, University of Bern.
- June 2015 Co-organizer of the  $\eta$ - and  $\lambda$ -deformations in Integrable Systems and Supergravity, University of Bern.
- 2012-2014 Organizer of the Theory Seminars, Université de Mons.
- 2010-2012 Organizer of the Theory Seminars, CPhT École Polytechnique.

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### Referee

Classical and Quantum Gravity (CQG), European Physical Journal C (EPJC),  
Journal of High Energy Physics (JHEP), Nuclear Physics B (NPB), Physics Letters B (PLB)