

CURRICULUM VITAE

ANASTASIOS CHRISTOU PETKOU

Professor

Institute of Theoretical Physics, Department of Physics
Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece.

Personal data

Born on 28/8/1967, Greek national, married with three children aged 17, 14 and 9.

Education

- Ph.D. in Theoretical Physics , University of Cambridge D.A.M.T.P. Oct. 1991 - Feb. 1995.
Thesis title: ``*Conformal Field Theories in Dimensions $D > 2$* ``. Supervisor: Prof. H. Osborn.
- Part III of the Mathematical Tripos, Certificate for Advanced Studies in Mathematics with **Distinction**, University of Cambridge, D.A.M.T.P. Oct. 1990 - Jun. 1991.
- Undergraduate Degree in Physics *Ptychion* with **Excellent Grade 8.8/10**, Aristotle University of Thessaloniki, Department of Physics, Sep. 1985 - Sep. 1989.

Positions after the Ph.D.

- Professor, Institute of Theoretical Physics, Department of Physics, Aristotle University of Thessaloniki, Feb. 2017 – to date.
- Associate Professor, Institute of Theoretical Physics, Department of Physics, Aristotle University of Thessaloniki, Jan. 2013 – Feb. 2017.
- Assistant Professor, Department of Physics, University of Crete, Oct. 2004 – Dec. 2012.
- European RTN Postdoctoral Fellow, University of Milan-Bicocca, Department of Theoretical Physics, Dec. 2003 - Sep. 2004.
- Postdoctoral Fellow offered and Exceptional Extension of the contract, Theory Division, C.E.R.N. Switzerland, Oct. 2001 - Dec. 2003.
- European RTN Postdoctoral Fellow: University of Milan, Department of Theoretical Physics, Italy, Oct. 2000 - Sep. 2001.
- Alexander von Humboldt Research Fellow: University of Kaiserslautern, Department of Physics, Theoretical Physics, Germany, Oct. 1999 - Sep. 2000.
- Research Associate: Aristotle University of Thessaloniki, Department of Theoretical Physics, Dec. 1997 - Aug. 1998 and Dec. 1998 - Oct. 1999.
- DAAD Postdoctoral Research Fellow: Dortmund University, Department of Physics, Sep. 1998 - Nov. 1998.
- Mandatory Military Service: Greek Armed Forces Signal Corps, May 1996 - Nov. 1997.
- Research Associate and Teaching Assistant: University of Cyprus, Department of Natural Sciences, Aug. 1995 - May 1996.

Scholarships and awards

- *Alexander von Humboldt* Postdoctoral Research Fellowship: University of Kaiserslautern, Germany, Oct. 1999 - Sep. 2000.
- Greek National Scholarships Foundation I.K.Y. Postdoctoral Fellowship: Department of Theoretical Physics, Aristotle University of Thessaloniki, Dec. 1998 - Oct. 1999.
- DAAD Postdoctoral Fellowship: Dortmund University, Department of Physics, Sep. 1998 - Nov. 1998.
- University of Cambridge J.T. Knight Prize: awarded for the essay "Conformal Field Theory in More Than Two Dimensions", Apr. 1993.
- E.E.C. "Human Capital and Mobility" Fellowship: awarded for Ph.D. studies in the University of Cambridge, Oct. 1991 - Oct. 1993.
- S.E.R.C. Nuclear Physics "Quota" Award: awarded for Ph.D. studies in the University of Cambridge, Sep. 1991 - Aug. 1993.

Teaching and Lecturing

- Weekly Lecture Series "From CFT to AdS and Back", Department of Physics, University of Rome "Tor Vergata", Oct. - Dec. 2015.
- IMPRS Lecture Day (4 lectures), "CFTs in Various Dimensions", Albert Einstein Institute, Potsdam, 27 Nov. 2015.
- Teaching at the Department of Physics, Aristotle University of Thessaloniki: 1) Mathematical Methods for Physics II (optional: 2013-to date), 2) Group Theory (optional: 2012-14), 3) Quantum Mechanics II (mandatory: 2012-to date), 4) General Mathematics III (mandatory: 2013-to date), 5) Mathematical Methods for Physics I (mandatory: 2015 - to date), 6) Mathematical Methods for Physics I (mandatory, 2015 – to date).
- Teaching at the Department of Physics, University of Crete in the period 2004 - 2010: 1) Modern Physics (mandatory: 2009-11) I, 2) Advanced Electromagnetism (mandatory, graduate: 2007-09), 3) Mathematics for Physicists (optional: 2004-12), 4) Gravitation (optional: 2005-07), 5) Quantum Mechanics II (optional: 2006-7), 6) Introduction to String Theory (optional: 2005-06), 7) Group Theory (optional: 2008-11), 8) Advanced Classical Mechanics (mandatory, graduate: 2009-11), 9) Differential Equations II (mandatory: 2010-12).
- *Conformal Field Theory in $D > 2$* : Series of Lectures for Research Students in the University of Milan, Training Program of the European RTN Network "The Quantum Structure of Spacetime and the Geometric Nature of Fundamental Interactions", Milan, Italy, Mar. - Apr. 2002 and Mar. - Apr. 2003.
- Lectures on "Applied AdS/CFT", SIGRAV School, Pisa Sep. 2010.

Supervising

- PhD thesis advisor of D. Iosifidis and G. Kalamakis, Department of Physics, Aristotle University of Thessaloniki (2014- to date).
- Supervisor of 8 undergraduate diploma theses, Department of Physics, Aristotle University of Thessaloniki (Oct. 2013-Jun. 2016).

- In the 3-member committee for the PhD thesis of I. Iatrakis, G. Konstantinou (University of Crete), V. Kiosses (AUTH).
- Examineur et Président of 6-person Committee for the PhD thesis of: V. Pozzoli, Ecole Polytechnique (2013).
- Official Pre-Examiner for the PhD thesis of Ville Suur-Uski, University of Helsinki, (2012).
- Departmental Supervisor in the University of Crete: Responsible for the Master's Thesis of A. Papathanasiou, (2011).
- Member of the 3-person Committees for the examination of the PhD thesis of: M. Bianchi, University of Milano-Bicocca (2011).
- Member of the 3-person Committees for the examination of the PhD thesis of: S. Maghini (2006), A. Mauri (2008), M. Leoni (2010) and S. Scoleri (2012), University of Milano.
- Member of the 7-member Committee for the PhD thesis of: K. Siampos (2009) and G. Karaiskos (2010), University of Patras, V. Kiosses (2013), Aristotle University of Thessaloniki.
- Official Departmental Supervisor in the University of Milan, Italy: Responsible for the Dissertation *Laurea Tesi*, S. Maghini (2003).

Visiting Positions

- Scientific Associate, Theoretical Physics Department, CERN, Switzerland, Feb. – Jul. 2018.
- Visiting Professor, Normal University Beijing, China, June 2017.
- Visiting CNRS Scientist, CPHT Ecole Polytechnique, 1-30 Nov. 2016 and 1-30 Nov. 2017.
- Visiting Professor, in charge of the mandatory course “Mathematical Methods for Physicist II”, University of Rome “Tor Vergata” Oct. 2015 – Jan. 2016.
- Visiting Researcher (CNRS chercheur associé niveau DR), CPHT, Ecole Polytechnique, Paris, Sep. – Nov. 2012.

Refereeing

- Regular referee for Nuclear Physics B, Physics Letters B, JHEP, Physical Review Letters and Physical Review D.
- Member of the Editorial Board for “Advances in High Energy Physics”, and Open Access Journal with impact factor 1.846.

Grants

- “EXCELLENCE” grant from the Greek Ministry of Higher Education, Feb. 2014 – Jul. 2015: value: 165.000 Euros.
- CNRS-Visiting Professorship, CPHT, Ecole Polytechnique, France: Sep. – Noe. 2012.
- Marie-Curie IEF grant with F. Dolan, Dec. 2010: value 150.000 Euros. (The grant did not start due to the tragic loss of F. Dolan.)
- Marie-Curie IEF grant, with A. Gustavsson, Dec. 2009: value 130.000 Euros. (the grant did not start as A. Gustavsson dropped it after having found a permanent job in Korea.)
- *INTERREG III* grant for scientific collaboration between Greece and Cyprus, Jan. - Dec. 2008: value 144.000 Euros.
- *Greece-France Scientific Collaboration* grant from the Greek Ministry of Higher Education, Apr. 2006 - Mar. 2008; value 12.000 Euros.

- *PYTHAGORAS* personal grant from the Greek Secretariat of Research and Technology, Jan. 2005 - Dec. 2007: value 50.000 Euros.

Conference organizing

- “Αυτός ο Κόσμος, ο Μικρός και Μέγας”, Day-long workshop on High-Energy Physics, for the Faculty and Students of the Physics Department, with David Gross as Main Speaker.
- “Aspects of Conformal Field Theories”, Thessaloniki 21-25 Sep. 2015 (Main organizer).
- “Progress in gauge/gravity correspondence”, Thessaloniki 16-20 Feb. 2015 (Main organizer).
- Galileo-Galilei Institute for Theoretical Physics, Florence, Italy, 10-week long workshop on “AdS4/CFT3 and the Holographic States of Matter”, Aug-Nov 2010. (Workshop Spokesperson.)
- “Gauge Theories and the Geometry of Space Time”, International Conference, Kolymbari, Crete, September 2010.
- *EUROSTRINGS 07*, Midterm Meeting of the European *SUPERSTRINGS* RTN, Kolymbari, Crete, Jul. 2007
- *1st Young Researcher's Network Meeting* of the European *SUPERSTRINGS* RTN, Heraklion, Crete, Oct. 2005.
- *ISHEPAC 2005* International School of High Energy Physics and Cosmology, Heraklion, Crete, Sep. - Oct. 2005.

Invited seminars and conference talks (upcoming and most recent sample)

2018

- CERN Scientific Associate: Feb. – Jul. 2018.
- Invited Seminars: Trinity College, Dublin, Feb. 2018

2017

- CNRS visiting professor: Ecole Polytechnique, France, November-December 2017.
- Invited seminars: CERN, May 2017.

2016

- Invited seminars: ULB Brussels, Dec. 2016.
- Invited speaker: Workshop “Gauge Theory, Strings and Holography 2016”, La Sapienza, Rome, June 2016; GGI program “Conformal Field Theories and Renormalization Group Flows in Dimensions $d > 2$ ”, Florence, Jun. 2016, MIAPP programme “Higher Spin Theory and Duality”, Max-MPI Munich, May 2016.

2015

- Invited seminars: University of Milano-Bicocca, Dec. 2015, University of Rome, “Tor Vergata”, Oct. 2015, CPHT, Ecole Polytechnique, Paris, May 2015, MPI Munich, Germany, Apr. 2015.
- Invited speaker “Higher-Spin Theory and Holography” Lebedev Institute, Moscow, Jun. 2015; “Recent Developments in High-Energy Physics and Cosmology”, Athens, Greece, Apr. 2015; “Holographic Methods for Strongly Coupled Systems”, GGI Workshop, Florence, Mar. 2015.

2014

- Invited seminars: University of Illinois at Urbana-Champaign, USA, Oct. 2014.
- Invited speaker: “Higher-Spin Symmetries and Conformal Bootstrap”, Princeton, USA, 6-7 Nov. 2014; “Quantum Field Theory, String Theory and Condensed Matter Physics”, Kolymbari, Crete, 1-7 Sep. 2014.

2013

- Invited seminars: ULB Brussels, June 2013, Institute of Theoretical Physics, University of Amsterdam, Jun. 2013.
 - Invited speaker: 19th European Workshop on String Theory, Bern, Sep. 2013; 7th Crete Regional Meeting in String Theory, Kolymbari, June 2013; GGI program: "Higher Spins, Strings and Dualities" *GGI*, Florence, Mar. 2013.
- 2012
- Invited seminars: University of Liverpool, Apr. 2012, LMU Munich, Feb. 2012.
 - Invited speaker: "Holographic applications, out-of-equilibrium phenomena, gravity & analogue gravity", Paris Ecole Normale Supérieure, Oct. 2012; "*IIP-ICTP School on Gravity and String Theory*", Natal/RN-Brazil, May, 10-24, 2012.
- 2011
- Invited seminars: Laboratoire de Physique Theorique, Orsay, Paris, June 2011, CPHT at Ecole Polytechnique, Paris, May 2011, DAMPT, University of Cambridge, UK, Mar. 2011, University Autonoma of Madrid, Madrid, Feb. 2011, University of Milano, Milano, Feb. 2011,
- Invited speaker: Workshop on AdS/CMT, APC, Paris, France, Nov. 2011; Insitute d'Ete, LPT-ENS, Paris, France, Aug. 2011.

PUBLICATION LIST

1) Dynamics of Finite-Temperature CFTs from OPE Inversion Formulas

By Anastasios C. Petkou, Andreas Stergiou.

arXiv:1806.02340 [hep-th].

2) The fermion-boson map for large d

By Evangelos G. Filothodoros, Anastasios C. Petkou, Nicholas D. Vlachos. (to appear in JHEP)

arXiv:1803.05950 [hep-th].

3) Flat holography and Carrollian fluids

By Luca Ciambelli, Charles Marteau, Anastasios C. Petkou, P. Marios Petropoulos, Konstantinos Siampos. (to appear in JHEP)

arXiv:1802.06809 [hep-th].

4) Covariant Galilean versus Carrollian hydrodynamics from relativistic fluids

By Luca Ciambelli, Charles Marteau, Anastasios C. Petkou, P. Marios Petropoulos, Konstantinos Siampos. (to appear in Classical and Quantum Gravity)

arXiv:1802.05286 [hep-th].

5) The Robinson-Trautman spacetime and its holographic fluid

By Luca Ciambelli, Anastasios C. Petkou, P. Marios Petropoulos, Konstantinos Siampos.

arXiv:1707.02995 [hep-th].

[10.22323/1.292.0076](https://arxiv.org/abs/10.22323/1.292.0076).

PoS CORFU2016 (2017) 076.

6) The analytic structure of conformal blocks and the generalized Wilson-Fisher fixed points

By Ferdinando Gliozzi, Andrea L. Guerrieri, Anastasios C. Petkou, Congkao Wen.

arXiv:1702.03938 [hep-th].

[10.1007/JHEP04\(2017\)056](https://arxiv.org/abs/10.1007/JHEP04(2017)056).

JHEP 1704 (2017) 056.

7) Generalized Wilson-Fisher Critical Points from the Conformal Operator Product Expansion

By Ferdinando Gliozzi, Andrea Guerrieri, Anastasios C. Petkou, Congkao Wen.

arXiv:1611.10344 [hep-th].

[10.1103/PhysRevLett.118.061601](https://arxiv.org/abs/10.1103/PhysRevLett.118.061601).

Phys.Rev.Lett. 118 (2017) no.6, 061601.

8) fermion-boson map with imaginary chemical potential

By E.G. Filothodoros, A.C. Petkou, N.D. Vlachos.

arXiv:1608.07795 [hep-th].

[10.1103/PhysRevD.95.065029](https://arxiv.org/abs/10.1103/PhysRevD.95.065029).

Phys.Rev. D95 (2017) no.6, 065029.

9) The free σ CFTs

By Andrea Guerrieri, Anastasios C. Petkou, Congkao Wen.

arXiv:1604.07310 [hep-th].

[10.1007/JHEP09\(2016\)019](https://arxiv.org/abs/10.1007/JHEP09(2016)019).

JHEP 1609 (2016) 019.

10) Geroch group for Einstein spaces and holographic integrability

By Anastasios C. Petkou, P. Marios Petropoulos, Konstantinos Siampos.

arXiv:1512.04970 [hep-th].

[10.22323/1.258.0104](https://arxiv.org/abs/10.22323/1.258.0104).

PoS PLANCK2015 (2015) 104.

11) Petrov Classification and holographic reconstruction of spacetime

By Jakob Gath, Ayan Mukhopadhyay, Anastasios C. Petkou, P. Marios Petropoulos, Konstantinos Siampos.

arXiv:1506.04813 [hep-th].

[10.1007/JHEP09\(2015\)005](https://arxiv.org/abs/10.1007/JHEP09(2015)005).

JHEP 1509 (2015) 005.

12) Instantons and the Hartle-Hawking-Maldacena Proposal for dS/CFT

By Sebastian de Haro, Anastasios C. Petkou.

arXiv:1406.6148 [hep-th].

[10.1007/JHEP11\(2014\)126](https://arxiv.org/abs/10.1007/JHEP11(2014)126).

JHEP 1411 (2014) 126.

13) The Geroch group in Einstein spaces

By Robert G. Leigh, Anastasios C. Petkou, P. Marios Petropoulos, Prasanta K. Tripathy.

arXiv:1403.6511 [hep-th].

[10.1088/0264-9381/31/22/225006](https://arxiv.org/abs/10.1088/0264-9381/31/22/225006).

Class.Quant.Grav. 31 (2014) no.22, 225006.

14) Holographic perfect fluidity, Cotton energy-momentum duality and transport properties

By Ayan Mukhopadhyay, Anastasios C. Petkou, P. Marios Petropoulos, Valentina Pozzoli, Konstantinos Siampos.

arXiv:1309.2310 [hep-th].

[10.1007/JHEP04\(2014\)136](https://arxiv.org/abs/10.1007/JHEP04(2014)136).

JHEP 1404 (2014) 136.

15) Singleton deformation of higher-spin theory and the phase structure of the three-dimensional $O(N)$ vector model

By Robert G. Leigh, Anastasios C. Petkou.

arXiv:1212.4421 [hep-th].

[10.1103/PhysRevD.88.046006](https://arxiv.org/abs/10.1103/PhysRevD.88.046006).

Phys.Rev. D88 (2013) no.4, 046006.

- 16) Holographic Fluids with Vorticity and Analogue Gravity
By Robert G. Leigh, Anastasios C. Petkou, P.Marios Petropoulos.
arXiv:1205.6140 [hep-th].
[10.1007/JHEP11\(2012\)121](https://arxiv.org/abs/10.1007/JHEP11(2012)121).
JHEP 1211 (2012) 121.
- 17) Holographic Three-Dimensional Fluids with Nontrivial Vorticity
By Robert G. Leigh, Anastasios C. Petkou, P.Marios Petropoulos.
arXiv:1108.1393 [hep-th].
[10.1103/PhysRevD.85.086010](https://arxiv.org/abs/10.1103/PhysRevD.85.086010).
Phys.Rev. D85 (2012) 086010.
- 18) Holographic torsion and the prelude to Kalb-Ramond superconductivity
By Anastasios C. Petkou.
[10.1007/978-3-642-04864-7_12](https://arxiv.org/abs/10.1007/978-3-642-04864-7_12).
Lect.Notes Phys. 828 (2011) 395-422.
- 19) Vorticity in holographic fluids
By Marco M. Caldarelli, Robert G. Leigh, Anastasios C. Petkou, P.Marios Petropoulos, Valentina Pozzoli, Konstadinos Siampos.
arXiv:1206.4351 [hep-th].
[10.22323/1.155.0076](https://arxiv.org/abs/10.22323/1.155.0076).
PoS CORFU2011 (2011) 076.
- 20) Torsional degrees of freedom in AdS4/CFT3
By Anastasios C. Petkou.
arXiv:1004.1640 [hep-th].
- 21) Gauge Fields, Membranes and Subdeterminant Vector Models
By Robert G. Leigh, Andrea Mauri, Djordje Minic, Anastasios C. Petkou.
arXiv:1002.2437 [hep-th].
[10.1103/PhysRevLett.104.221801](https://arxiv.org/abs/10.1103/PhysRevLett.104.221801).
Phys.Rev.Lett. 104 (2010) 221801.
- 22) Stochastic Quantization and AdS/CFT
By Diego S. Mansi, Andrea Mauri, Anastasios C. Petkou.
arXiv:0912.2105 [hep-th].
[10.1016/j.physletb.2010.01.033](https://arxiv.org/abs/10.1016/j.physletb.2010.01.033).
Phys.Lett. B685 (2010) 215-221.
- 23) Torsion and the Gravity Dual of Parity Symmetry Breaking in AdS(4) / CFT(3) Holography
By Robert G. Leigh, Nam N. Hoang, Anastasios C. Petkou.
arXiv:0809.5258 [hep-th].
[10.1088/1126-6708/2009/03/033](https://arxiv.org/abs/10.1088/1126-6708/2009/03/033).
JHEP 0903 (2009) 033.
- 24) Gravity in the 3+1-Split Formalism II: Self-Duality and the Emergence of the Gravitational Chern-Simons in the Boundary
By Diego S. Mansi, A.C. Petkou, Giovanni Tagliabue.
arXiv:0808.1213 [hep-th].
[10.1088/0264-9381/26/4/045009](https://arxiv.org/abs/10.1088/0264-9381/26/4/045009).
Class.Quant.Grav. 26 (2009) 045009.
- 25) Gravity in the 3+1-Split Formalism I: Holography as an Initial Value Problem

By Diego S. Mansi, A.C. Petkou, Giovanni Tagliabue.

arXiv:0808.1212 [hep-th].

[10.1088/0264-9381/26/4/045008](https://doi.org/10.1088/0264-9381/26/4/045008).

Class.Quant.Grav. 26 (2009) 045008.

26) An N=1 Superfield Action for M2 branes

By Andrea Mauri, Anastasios C. Petkou.

arXiv:0806.2270 [hep-th].

[10.1016/j.physletb.2008.07.098](https://doi.org/10.1016/j.physletb.2008.07.098).

Phys.Lett. B666 (2008) 527-532.

27) Holographic Aspects of Generalized Electric-Magnetic Dualities

By Anastasios C. Petkou.

AMS/IP Stud.Adv.Math. 44 (2008) 31-38.

28) Holographic Aspects of Electric-Magnetic Dualities

By Sebastian de Haro, Anastasios C. Petkou.

arXiv:0710.0965 [hep-th].

[10.1088/1742-6596/110/10/102003](https://doi.org/10.1088/1742-6596/110/10/102003).

J.Phys.Conf.Ser. 110 (2008) 102003.

29) Higher-Spin Gauge Fields Interacting with Scalars: The Lagrangian Cubic Vertex

By Angelos Fotopoulos, Nikos Irges, Anastasios C. Petkou, Mirian Tsulaia.

arXiv:0708.1399 [hep-th].

[10.1088/1126-6708/2007/10/021](https://doi.org/10.1088/1126-6708/2007/10/021).

JHEP 0710 (2007) 021.

30) Gravitational duality transformations on (A)dS(4)

By Robert G. Leigh, Anastasios C. Petkou.

arXiv:0704.0531 [hep-th].

[10.1088/1126-6708/2007/11/079](https://doi.org/10.1088/1126-6708/2007/11/079).

JHEP 0711 (2007) 079.

31) Conformally Coupled Scalars, Instantons and Vacuum Instability in AdS(4)

By Sebastian de Haro, Ioannis Papadimitriou, Anastasios C. Petkou.

hep-th/0611315.

[10.1103/PhysRevLett.98.231601](https://doi.org/10.1103/PhysRevLett.98.231601).

Phys.Rev.Lett. 98 (2007) 231601.

32) Constructing the cubic interaction vertex of higher spin gauge fields

By I.L. Buchbinder, Angelos Fotopoulos, Anastasios C. Petkou, Mirian Tsulaia.

hep-th/0609082.

[10.1103/PhysRevD.74.105018](https://doi.org/10.1103/PhysRevD.74.105018).

Phys.Rev. D74 (2006) 105018.

33) Instantons and Conformal Holography

By Sebastian de Haro, Anastasios C. Petkou.

hep-th/0606276.

[10.1088/1126-6708/2006/12/076](https://doi.org/10.1088/1126-6708/2006/12/076).

JHEP 0612 (2006) 076.

34) M-theory and the Gross-Neveu model in 2+1 dimensions

By Anastasios C. Petkou, George Siopsis.

hep-th/0509143.

[10.1016/j.physletb.2006.07.062](https://doi.org/10.1016/j.physletb.2006.07.062).

Phys.Lett. B640 (2006) 209-213.

35) Holography and higher-spin theories

By T. Petkou.

[10.1002/prop.200410245](https://doi.org/10.1002/prop.200410245).

Fortsch.Phys. 53 (2005) 962-969.

36) Holography, duality and higher-spin theories

By Anastasios C. Petkou.

hep-th/0410116.

37) Double-trace deformations and $SL(2,Z)$ action on three-dimensional CFTs

By A.C. Petkou.

[10.1002/prop.200410156](https://doi.org/10.1002/prop.200410156).

Fortsch.Phys. 52 (2004) 636-641.

38) $SL(2,Z)$ action on three-dimensional CFTs and holography

By Robert G. Leigh, Anastasios C. Petkou.

hep-th/0309177.

[10.1088/1126-6708/2003/12/020](https://doi.org/10.1088/1126-6708/2003/12/020).

JHEP 0312 (2003) 020.

39) Holography of the $N=1$ higher spin theory on $AdS(4)$

By Robert G. Leigh, Anastasios C. Petkou.

hep-th/0304217.

[10.1088/1126-6708/2003/06/011](https://doi.org/10.1088/1126-6708/2003/06/011).

JHEP 0306 (2003) 011.

40) Evaluating the AdS dual of the critical $O(N)$ vector model

By Anastasios C. Petkou.

hep-th/0302063.

[10.1088/1126-6708/2003/03/049](https://doi.org/10.1088/1126-6708/2003/03/049).

JHEP 0303 (2003) 049.

41) Rotating strings in confining AdS / CFT backgrounds

By A. Armoni, J.L.F. Barbon, A.C. Petkou.

hep-th/0209224.

[10.1088/1126-6708/2002/10/069](https://doi.org/10.1088/1126-6708/2002/10/069).

JHEP 0210 (2002) 069.

42) Nonprotected operators in $N=4$ SYM and multiparticle states of $AdS(5)$ SUGRA

By G. Arutyunov, S. Penati, A.C. Petkou, A. Santambrogio, E. Sokatchev.

hep-th/0206020.

[10.1016/S0550-3213\(02\)00679-X](https://doi.org/10.1016/S0550-3213(02)00679-X).

Nucl.Phys. B643 (2002) 49-78.

43) Orbiting strings in AdS black holes and $N=4$ SYM at finite temperature

By A. Armoni, J.L.F. Barbon, A.C. Petkou.

hep-th/0205280.

[10.1088/1126-6708/2002/06/058](https://doi.org/10.1088/1126-6708/2002/06/058).

JHEP 0206 (2002) 058.

44) Boundary multitrace deformations and OPEs in AdS / CFT correspondence

By Anastasios C. Petkou.
hep-th/0201258.
[10.1088/1126-6708/2002/06/009](https://arxiv.org/abs/10.1088/1126-6708/2002/06/009).
JHEP 0206 (2002) 009.

45) dS / CFT correspondence on a brane
By A.C. Petkou, G. Siopsis.
hep-th/0111085.
[10.1088/1126-6708/2002/02/045](https://arxiv.org/abs/10.1088/1126-6708/2002/02/045).
JHEP 0202 (2002) 045.

46) Dynamical aspects of N=4 SYM(4)
By A.C. Petkou.
[10.1002/1521-3978\(200105\)49:4/6<617::AID-PROP617>3.0.CO;2-E](https://arxiv.org/abs/10.1002/1521-3978(200105)49:4/6<617::AID-PROP617>3.0.CO;2-E).
Fortsch.Phys. 49 (2001) 617-624.

47) Universality and a generalized C function in CFTs with AdS duals
By D. Klemm, A.C. Petkou, G. Siopsis, D. Zanon.
hep-th/0104141.
[10.1016/S0550-3213\(01\)00514-4](https://arxiv.org/abs/10.1016/S0550-3213(01)00514-4).
Nucl.Phys. B620 (2002) 519-536.

48) Exceptional nonrenormalization properties and OPE analysis of chiral four point functions in N=4 SYM(4)
By G. Arutyunov, B. Eden, A.C. Petkou, E. Sokatchev.
hep-th/0103230.
[10.1016/S0550-3213\(01\)00569-7](https://arxiv.org/abs/10.1016/S0550-3213(01)00569-7).
Nucl.Phys. B620 (2002) 380-404.

49) Entropy bounds, monotonicity properties and scaling in CFTs
By D. Klemm, A.C. Petkou, G. Siopsis.
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