

CV
Vasilis K. Oikonomou
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EDUCATION

- PhD in Theoretical Particle and Mathematical Physics, Aristotle University of Thessaloniki, Physics Department, Quantum Field Theories at Finite Temperature and Volume
- Diploma in Physics, Aristotle University of Thessaloniki, Physics Department
- Master Degree in Chemical Education, Chemistry Department, Aristotle University of Thessaloniki

PROFESSIONAL EXPERIENCE

- Staff tenure, Physics Department Aristotle University of Thessaloniki
- Post-Doc Researcher at Max-Planck Institute for Mathematics in the Sciences, Leipzig Germany, Juergen Jost Group
- Scientific Associate, Technological Institute Serres
- European Union Funding : Supersymmetric Scenarios for Colliders and the Universe

LECTURES AT ARISTOTLE UNIVERSITY OF THESSALONIKI

- Mathematical Analysis I (Postgraduate Compulsory Course, Physics Department)
- Mathematical Analysis II (Postgraduate Compulsory Course, Physics Department)
- Theoretical Mechanics (Postgraduate Compulsory Course, Mathematics Department)
- Advanced Theoretical Mechanics (Master Course, Physics Department)
- Mathematical Methods for Physicists (Master Course, Physics Department)
- Relativistic Quantum Mechanics (Master Course, Physics Department)

INTERNATIONAL COLLABORATIONS AND INTERNATIONAL MEMBERSHIP

- Member of LISA Cosmology Working Group (LISA CosWG), papers: 2204.05434
- Member of LISA Greek Working Group, white papers: 2209.04358
- ITP, Goethe University, Frankfurt, Germany, 2022
- Collaboration with Tomsk State Pedagogical University and TUSUR, Tomsk, Russia, 2011-2022
- Collaboration with ICE-ICREA, Barcelona, Spain, 2014-
- Collaboration with Max-Planck Institute for Mathematics in the Sciences, Leipzig, Germany, 2011-
- Tuebingen University, Germany, 2019
- International Hellenic University, 2011-2020

FUNDED SCIENTIFIC VISITS

- Institute of Theoretical Physics, Goethe University, Frankfurt, Germany, 2022
- Max-Planck Institute for Mathematics in the Sciences, Leipzig, Germany, 2014
- Max-Planck Institute for Mathematics in the Sciences, Leipzig, Germany, 2018
- Tuebingen University, ITAAT, Germany 2019
- Laboratory for Theoretical Cosmology, Tomsk State University of Control Systems and Radioelectronics, 634050 Tomsk, Russia (TUSUR), Tomsk State Pedagogical University, 2015
- Laboratory for Theoretical Cosmology, Tomsk State University of Control Systems and Radioelectronics, 634050 Tomsk, Russia (TUSUR), Tomsk State Pedagogical University, 2016
- Laboratory for Theoretical Cosmology, Tomsk State University of Control Systems and Radioelectronics, 634050 Tomsk, Russia (TUSUR), Tomsk State Pedagogical University, 2017
- Laboratory for Theoretical Cosmology, Tomsk State University of Control Systems and Radioelectronics, 634050 Tomsk, Russia (TUSUR), Tomsk State Pedagogical University, 2018

GREEK RESEARCH PROJECTS-GRANTS

12 completed Research Grants, completed with International Hellenic University, 2011-2020

SCIENTIFIC INTERESTS

Cosmology, Inflationary Cosmology, Modified Theories of Gravity, Physics of the Early Universe, Dark Energy, Dark Matter, Supersymmetry, Mathematical Physics, High Energy Physics, Theoretical Physics, Epistemic Game Theory, Game Theory

PUBLICATIONS

224 articles (in 219 corresponding author), 73 single author, in international journals with referees in the field of cosmology, theoretical physics and mathematical physics, game theory, physical chemistry. 5 Publications in conference proceedings with referees. 3 Publications on Mathematical Economics and Game Theory. 1 Publication in Chemistry-Chemical Physics. 2 Publications-contributions in International Collective Volumes in Physics and Mathematical Physics.

h-index: 43 (Inspires 2022)

DISSEMINATION OF SCIENCE-PUBLIC OUTREACH

My youtube lectures for Python programming for physicists and engineers:
<https://www.youtube.com/channel/UCR1fcHKAgqWJvaTogcGBbJg>

PRIZES-AWARDS-DISTINCTIONS

- Silver Medal, Tomsk State Pedagogical University, Russian Federation, 2021
- Bronze Medal, Tomsk State Pedagogical University, Russian Federation, 2018
- Honorary Full Professor, Tomsk State Pedagogical University, Russian Federation, 2021

COMMISSIONS OF TRUST

Editorial Board of International Refereed Journals

- Editor in Chief of the international journal “Symmetry” MDPI
- Member of the Editorial Board of the International Journal of Geometric Methods of Modern Physics
- Member of the Editorial Board of the international journal “Symmetry” MDPI
- Member of the Editorial Board of the Journal of Modern Physics
- Advisory Board of “SCI” MDPI
- Reviewer Board of the journal “Universe” MDPI
- *Guest Editor* of Symmetry for the special issue; Cosmology and Extra-galactic Astronomy, 2020-
- *Guest Editor* of Symmetry for 2015-2016 for the special issue Revealing the Symmetries of the Universe: Dark Energy, Inflation and Modified Gravity
- *Guest Editor* of the journal Universe for the special issue F(R) Gravity Cosmology 2018
- *Guest Editor* of Symmetry for the special issue “Inflationary Universe” 2018
- *Guest Editor* of Symmetry for the special issue “Mathematical Cosmology” 2018
- *Guest Editor* of Symmetry for the special issue “Cosmology and Extragalactic Astronomy” 2020-2021

Evaluator for International Research Programs

- External Evaluator of Scientific Projects-Proposals for INFN, Italy
- External Evaluator of Scientific Projects-Proposals for the Royal Czech Science Foundation-GRS, Czech Republic
- External Evaluator of Scientific Projects-Proposals for the Italian Ministry of Education
- External Evaluator of Scientific Projects-Proposals for the National Science Center, Poland
- External Evaluator of Chilean National Science and Technology Commission (CONICYT - Chile)
- External Evaluator for South Africa National Research Foundation
- Book and Proposal Evaluator for Elsevier
- PhD Evaluator for Napoli University
- PhD Evaluator for British University of Egypt
- PhD Evaluator for Abdul Wali Khan University Mardan

SUPERVISION OF GRADUATE AND UNDERGRADUATE STUDENT AND ARTICLES WITH THEM

COMPLETED

- Diploma Thesis of Student in Technological Educational Institute of Central Macedonia, Serres, Greece with title: Quantum information theory and Quantum computers-2010
- Nicholas Chantzarakis, MSc Diploma Thesis, from Aristotle University → PhD at Trinity College, Dublin, Ireland (full scholarship), publications in international journals with referees: arxiv numbers: 2009.12897, 1908.09218, 1908.08141, 1907.00403, 1905.01904

- Fotis Fronimos, Research Supervision, from Aristotle University → MSc at Institute of Theoretical Physics, Heidelberg, Germany, publications in international journals with referees: arxiv numbers: 2108.11231, 2108.10841, 2102.02239, 2101.00660, 2011.08680, 2011.03828, 2010.13580, 2009.12897, 2009.06113, 2007.11915, 2007.02309, 2006.05512, 2004.08884, 2003.13724
- Ifigeneia Giannakoudi, Diploma Thesis, from Aristotle University → MSc at Institute of Theoretical Physics, Perimeter Institute, Canada (full scholarship), publications in international journals with referees: arxiv numbers: 2205.08599, 2204.02454, 2105.11935
- Kostas Revis, Diploma Thesis, from Aristotle University → MSc at Aachen RWTH, Institute of Theoretical Physics, Germany, publications in international journals with referees: arxiv numbers: 2105.11935
- Eirini Lymeriadou, Supervision of Research, from Aristotle University → MSc at Bonn, Institute of Theoretical Physics, Germany (full scholarship), publications in international journals with referees: arxiv numbers: 2206.00721
- Stavros Venikoudis, MSc Diploma thesis, from Aristotle University → PhD at University of Louvain, Belgium (full scholarship), publications in international journals with referees: arxiv numbers: 2009.06113
- Iordanis Sarikeisoglou, Diploma thesis-Bibliographic on Mathematical Modelling in Game Theory, from Aristotle University → MSc at University of Thessaloniki, Greece, Department of Mathematics.
- Achilleas Gitsis, MSc Diploma thesis, from Aristotle University → PhD at University of Wroclaw, Poland (full scholarship), publications in international journals with referees: arxiv numbers: 2108.11324, 2105.11935
- Kostas Fasoulakos, Diploma thesis, from Aristotle University → Data Analyst, publications in international journals with referees: arxiv numbers: 2010.13580

PARTIALLY COMPLETED

- Panos Katzanis, MSc Diploma thesis, publications in international journals with referees: arxiv numbers: 2203.09867
- Ilias C. Papadimitriou, Diploma thesis, publications in international journals with referees: arxiv numbers: 2203.09867
- Kostas Folias, MSc Diploma thesis, bibliographic thesis

REVIEWER IN JOURNALS

1. Physics Letters B
2. Nuclear Physics B
3. Classical and Quantum Gravity
4. Physics Letters A
5. Monthly Notices of the Royal Astronomical Society
6. Annals of Physics
7. The Astrophysical Journal
8. General Relativity and Gravitation
9. Astrophysics and Space Science
10. Physics of the Dark Universe

11. International Journal of Modern Physics D
12. International Journal of Modern Physics A
13. New Astronomy Elsevier
14. Journal of Physics A
15. Gravitation and Cosmology
16. Journal of Cosmology and Astroparticle Physics (JCAP)
17. European Physical Journal C (EPJC)
18. European Physical Journal Plus
19. Chinese Journal of Physics C
20. Scientific Reports, Nature Springer
21. Foundations of Physics
22. International Journal of Geometric Methods of Modern Physics
23. Journal of Modern Physics
24. Advances in High Energy Physics
25. Advances in Astronomy
26. Information Sciences, Elsevier
27. Symmetry
28. Entropy
29. Canadian Journal of Physics
30. Royal Society Open Source
31. International journal of
32. Chinese Journal of Physics Mathematics and Statistics
33. Chinese Journal of Physics
34. Journal of Gravity
35. Universe Journal
36. Advanced Quantum Technologies
37. Universal Journal of Physics and Application
38. Theory in Biosciences
39. Asian Journal of Mathematics and Computer Research Physical Science International Journal
40. Computer Science
41. Journal of Basic and Applied Research international ? Journal of Applied Physical Science International
42. "Nuovo Cimento, Advances in Physics"
43. Universal Journal of Physics and Application
44. Proceedings of the National Academy of Sciences, Physical Sciences (NASA)
45. Physics Essays
46. Asian Journal of Mathematics and Computer Research
47. Hadronic Journal
48. Journal of Geography, Environment and Earth Science International
49. Mathematical Reviews

ORGANIZING COMMITTEE OF INTERNATIONAL CONFERENCES AND MEETINGS

- Local Organizing Committee of “Cosmology and Quantum Vacuum 2015, June 2015, Rhodes Greece
- International Advisory Board of “Siberian Cosmology Days 2015”, Tomsk, August 2015
- First TUSUR Cosmological Conference, Tomsk, Russia, August 2016
- Local Organizing Committee of “Mini-Workshop on Gravitation and Cosmology”, July 2017, Rhodes Greece
- Local Organizing Committee of “Siberian Cosmology Days 2018”, August 2018, Tomsk, Russian Federation
- Organizing Committee of “Siberian Spring Cosmology”, March 2019, Tomsk, Russian Federation
- Organizing Committee of “Recent Advances in Theoretical Cosmology and Astrophysics”, December 2021, Thessaloniki, Greece, online conference
- Organizing Committee, “5th Institute of Space Sciences Summer School (2022), Modified Gravities, Inflation, Primordial Perturbations: Theory and Computing”, July 2022, Barcelona, Spain

CONFERENCES

- 4th Conference “Physics of Aqueous Solutions” December 2021, Moscow, Russian Federation, online conference **invited talk**.
- Recent Advances in Theoretical Cosmology and Astrophysics, December 2021, Thessaloniki, Greece, online conference **Organizer**
- Cosmology and the Quantum Vacuum 2019, April 2019, Barcelona, Spain **invited talk**
- Siberian Cosmology Days 2018, Tomsk, August 2018, Russian Federation **invited talk**
- 2018 April, Brain storming on neutron stars in modified gravity, Barcelona, Spain **invited talk**
- “Mini-Workshop on Gravitation and Cosmology”, July 2017, Rhodes Greece **Organizer**
- August 2016 Quantum Field Theory and Gravity 2016, Tomsk Russia **invited talk**
- August 2016 First TUSUR Cosmological Conference, Tomsk, Russia, **invited talk**
- July 2015 Compact Stars and Black Holes, Tuebingen, Germany **invited talk**
- June 2015 Cosmology and the Quantum Vacuum, Rhodes, Greece (**Organizer**)
- September 2014 Cosmology and Quantum Vacuum, Benasque Spain **invited talk**
- June 2013 Prague, Quantum Symmetries and Integrability **invited talk**
- September 2012 ICMSQUARE, Budapest, **invited talk**
- Octomber 2012 Leipzig, Symposium on Money Value and Capital Transfers
- January 2012 Leipzig, Rationalizability and Economics
- September 2006 Renormalization Group Equations 2006, Leykada, Greece
- University of Athens September 2005 Third Aegean Summer School on Cosmology and the Early Universe, Chios, Greece
- National Technical University of Athens April 2005 Recent Developments In High Energy Physics, Thessaloniki, Aristotle University of Thessaloniki, Greece
- May 2004 Italo-Hellenic School of Physics 2004,The Physics of LHC, Lecce, Italy, University of Lecce
- September 2003 Second Aegean Summer School on Cosmology and the Early Universe, Syros, Greece

- National Technical University of Athens April 2003 Recent Developments In High Energy Physics, Athens, National Technical University of Athens
- April 2002 Recent Developments In High Energy Physics, Patras, University of Patras September
- 2001 Corfu Summer Institute on Elementary Particle Physics, Corfu, National Technical University of Athens
- July 2001 "Non Linear Dynamics", Patras, University of Patras, Greece

COMPUTER SKILLS

- MsOffice in Windows, Word, Excel, Access, Internet Explorer, Outlook, PowerPoint, Degrees: Foundation Level Certificate, University of Cambridge, Advanced level Certificate Excellent knowledge of: Mathematica, Maple, Adobe Dreamweaver, Adobe Photoshop 7, Origin, Latex, HTML 4, Director MX
- Excellent knowledge of PYTHON 3.8 for scientific numerical problems in physics.

PUBLICATIONS IN ECONOMICS IN INTERNATIONAL JOURNALS WITH REFEREES

1. Periodic Strategies a New Solution Concept-Algorithm for non-trivial Strategic Form Games, V.K. Oikonomou, Juergen Jost, Advances in Complex Systems, Vol. 20, No. 5 (2017) 1750009
2. Periodic Strategies II: Generalizations and Extensions, V.K. Oikonomou, Juergen Jost, Advances in Complex Systems: Vol. 23, No. 02, 2050005 (2020), arXiv:2005.12832
3. Periodic Strategies and Rationalizability in Perfect Information 2-Player Strategic Form Games, V.K. Oikonomou, Juergen Jost, Journal of Physics: Conference Series, Volume 410, Issue 1, 012070 (2013)

PUBLICATIONS IN CHEMISTRY

On Non-Linear Behavior of Viscosity in Low-Concentration Solutions and Aggregate Structures, V.K. Oikonomou, **Symmetry** 2018, 10(9), **368**

PUBLICATIONS IN THEORETICAL PHYSICS, MATHEMATICAL PHYSICS, HIGH ENERGY PHYSICS, THEORETICAL ASTROPHYSICS AND THEORETICAL COSMOLOGY IN INTERNATIONAL JOURNALS WITH REFEREES

Single Author Publications

- [1] V. K. Oikonomou, Nuclear Physics B in press[arXiv:2210.02861 [gr-qc]].
- [2] V. K. Oikonomou, Astropart. Phys. **144** (2023), 102777 doi:10.1016/j.astropartphys.2022.102777 [arXiv:2209.09781 [gr-qc]].
- [3] V. K. Oikonomou, EPL **139** (2022) no.6, 69004 doi:10.1209/0295-5075/ac8fb2 [arXiv:2209.08339 [hep-ph]].
- [4] V. K. Oikonomou, Phys. Rev. D **106** (2022) no.4, 044041 doi:10.1103/PhysRevD.106.044041 [arXiv:2208.05544 [gr-qc]].
- [5] V. K. Oikonomou, Annalen Phys. **534** (2022), 2200134 doi:10.1002/andp.202200134 [arXiv:2205.15405 [gr-qc]].
- [6] V. K. Oikonomou, Astropart. Phys. **141** (2022), 102718 doi:10.1016/j.astropartphys.2022.102718 [arXiv:2204.06304 [gr-qc]].
- [7] V. K. Oikonomou, Symmetry **14** (2022), 1 doi:10.3390/sym14010032 [arXiv:2112.10221 [gr-qc]].

- [8] V. K. Oikonomou, *Class. Quant. Grav.* **38** (2021) no.19, 195025 doi:10.1088/1361-6382/ac2168 [arXiv:2108.10460 [gr-qc]].
- [9] V. K. Oikonomou, *Annals Phys.* **432** (2021), 168576 doi:10.1016/j.aop.2021.168576 [arXiv:2108.04050 [gr-qc]].
- [10] V. K. Oikonomou, *Class. Quant. Grav.* **38** (2021) no.17, 175005 doi:10.1088/1361-6382/ac161c [arXiv:2107.12430 [gr-qc]].
- [11] V. K. Oikonomou, *Int. J. Geom. Meth. Mod. Phys.* **19** (2022) no.07, 2250099 doi:10.1142/S0219887822500992 [arXiv:2106.10778 [gr-qc]].
- [12] V. K. Oikonomou, *Eur. Phys. J. Plus* **136** (2021) no.2, 155 doi:10.1140/epjp/s13360-020-01012-4 [arXiv:2101.00665 [gr-qc]].
- [13] V. K. Oikonomou, *Phys. Rev. D* **103** (2021) no.12, 124028 doi:10.1103/PhysRevD.103.124028 [arXiv:2012.01312 [gr-qc]].
- [14] V. K. Oikonomou, *Phys. Rev. D* **103** (2021) no.4, 044036 doi:10.1103/PhysRevD.103.044036 [arXiv:2012.00586 [astro-ph.CO]].
- [15] V. K. Oikonomou, *EPL* **130** (2020) no.1, 10006 doi:10.1209/0295-5075/130/10006 [arXiv:2004.10778 [gr-qc]].
- [16] V. K. Oikonomou, *Annals Phys.* **409** (2019), 167934 doi:10.1016/j.aop.2019.167934 [arXiv:1907.02600 [gr-qc]].
- [17] V. K. Oikonomou, *Phys. Rev. D* **99** (2019) no.10, 104042 doi:10.1103/PhysRevD.99.104042 [arXiv:1905.00826 [gr-qc]].
- [18] V. K. Oikonomou, *Int. J. Geom. Meth. Mod. Phys.* **16** (2019) no.03, 1950048 doi:10.1142/S0219887819500488 [arXiv:1805.11945 [gr-qc]].
- [19] V. K. Oikonomou, *Phys. Rev. D* **97** (2018) no.6, 064001 doi:10.1103/PhysRevD.97.064001 [arXiv:1801.03426 [gr-qc]].
- [20] V. K. Oikonomou, *Int. J. Mod. Phys. D* **27** (2018) no.05, 1850059 doi:10.1142/S0218271818500591 [arXiv:1711.03389 [gr-qc]].
- [21] V. K. Oikonomou, *Int. J. Mod. Phys. D* **27** (2017) no.02, 1850009 doi:10.1142/S0218271818500098 [arXiv:1709.02986 [gr-qc]].
- [22] V. K. Oikonomou, *Mod. Phys. Lett. A* **32** (2017) no.33, 1750172 doi:10.1142/S0217732317501723 [arXiv:1706.00507 [gr-qc]].
- [23] V. K. Oikonomou, *Phys. Rev. D* **95** (2017) no.8, 084023 doi:10.1103/PhysRevD.95.084023 [arXiv:1703.10515 [gr-qc]].
- [24] V. K. Oikonomou, *Int. J. Mod. Phys. D* **26** (2017) no.10, 1750110 doi:10.1142/S0218271817501103 [arXiv:1703.09009 [gr-qc]].
- [25] V. K. Oikonomou, *Mod. Phys. Lett. A* **32** (2017) no.10, 1750067 doi:10.1142/S0217732317500675 [arXiv:1703.06713 [gr-qc]].
- [26] V. K. Oikonomou, *Grav. Cosmol.* **23** (2017) no.2, 162-170 doi:10.1134/S0202289317020074
- [27] V. K. Oikonomou, *Mod. Phys. Lett. A* **31** (2016) no.33, 1650191 doi:10.1142/S0217732316501911 [arXiv:1609.03156 [gr-qc]].
- [28] V. K. Oikonomou, *Phys. Rev. D* **94** (2016) no.4, 044004 doi:10.1103/PhysRevD.94.044004 [arXiv:1607.07107 [gr-qc]].
- [29] V. K. Oikonomou, *Astrophys. Space Sci.* **361** (2016) no.7, 211 doi:10.1007/s10509-016-2800-6 [arXiv:1606.02164 [gr-qc]].
- [30] V. K. Oikonomou, *Astrophys. Space Sci.* **362** (2017) no.2, 28 doi:10.1007/s10509-017-3014-2 [arXiv:1605.08404 [gr-qc]].

- [31] V. K. Oikonomou, Int. J. Mod. Phys. D **25** (2016) no.07, 1650078 doi:10.1142/S0218271816500784 [arXiv:1605.00583 [gr-qc]].
- [32] V. K. Oikonomou, Int. J. Geom. Meth. Mod. Phys. **13** (2016) no.03, 1650033 doi:10.1142/S021988781650033X [arXiv:1512.04095 [gr-qc]].
- [33] V. K. Oikonomou, Universe **2** (2016) no.2, 10 doi:10.3390/universe2020010 [arXiv:1511.09117 [gr-qc]].
- [34] V. K. Oikonomou, Phys. Rev. D **92** (2015) no.12, 124027 doi:10.1103/PhysRevD.92.124027 [arXiv:1509.05827 [gr-qc]].
- [35] V. K. Oikonomou, Gen. Rel. Grav. **47** (2015) no.10, 126 doi:10.1007/s10714-015-1970-9 [arXiv:1412.8195 [gr-qc]].
- [36] V. K. Oikonomou, Astrophys. Space Sci. **359** (2015) no.1, 30 doi:10.1007/s10509-015-2478-1 [arXiv:1412.4343 [gr-qc]].
- [37] V. K. Oikonomou, Int. J. Geom. Meth. Mod. Phys. **12** (2015), 1550114 doi:10.1142/S0219887815501145 [arXiv:1412.0244 [hep-th]].
- [38] V. K. Oikonomou, Astrophys. Space Sci. **352** (2014), 925-935 doi:10.1007/s10509-014-1976-x [arXiv:1403.6690 [gr-qc]].
- [39] V. K. Oikonomou, Annals Phys. **350** (2014), 179-197 doi:10.1016/j.aop.2014.07.020 [arXiv:1402.5239 [hep-th]].
- [40] V. K. Oikonomou, Found. Phys. **45** (2015) no.1, 44-61 doi:10.1007/s10701-014-9844-7 [arXiv:1402.2835 [hep-th]].
- [41] V. K. Oikonomou, Mod. Phys. Lett. A **29** (2014) no.25, 1450131 doi:10.1142/S0217732314501314 [arXiv:1401.6974 [gr-qc]].
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- [43] V. K. Oikonomou, Int. J. Geom. Meth. Mod. Phys. **11** (2014), 1450011 doi:10.1142/S021988781450011X [arXiv:1309.2964 [hep-th]].
- [44] V. K. Oikonomou, Int. J. Geom. Meth. Mod. Phys. **13** (2016) no.06, 1650083 doi:10.1142/S0219887816500833 [arXiv:1308.2960 [math-ph]].
- [45] V. K. Oikonomou, Class. Quant. Grav. **31** (2014), 025018 doi:10.1088/0264-9381/31/2/025018 [arXiv:1308.2085 [hep-th]].
- [46] V. K. Oikonomou, Grav. Cosmol. **19** (2013), 188-192 doi:10.1134/S0202289313030092 [arXiv:1308.1234 [gr-qc]].
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- [48] V. K. Oikonomou, Nucl. Phys. B **870** (2013), 477-494 doi:10.1016/j.nuclphysb.2013.02.004 [arXiv:1308.0461 [hep-th]].
- [49] V. K. Oikonomou, Gen. Rel. Grav. **45** (2013), 2467-2481 doi:10.1007/s10714-013-1597-7 [arXiv:1304.4089 [gr-qc]].
- [50] V. K. Oikonomou, Int. J. Mod. Phys. A **28** (2013), 1350106 doi:10.1142/S0217751X13501066 [arXiv:1303.2537 [math-ph]].
- [51] V. K. Oikonomou, J. Phys. Conf. Ser. **410** (2013), 012141 doi:10.1088/1742-6596/410/1/012141
- [52] V. K. Oikonomou, Int. J. Mod. Phys. A **28** (2013), 1350090 doi:10.1142/S0217751X13500905 [arXiv:1208.0740 [hep-th]].
- [53] V. K. Oikonomou, Phys. Lett. B **721** (2013), 312-318 doi:10.1016/j.physletb.2013.03.013 [arXiv:1208.5358 [hep-th]].

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- [56] V. K. Oikonomou, Int. J. Geom. Meth. Mod. Phys. **12** (2015) no.09, 1550090 doi:10.1142/S0219887815500905 [arXiv:1109.6170 [hep-th]].
- [57] V. K. Oikonomou, Nucl. Phys. B **856** (2012), 1-25 doi:10.1016/j.nuclphysb.2011.10.031 [arXiv:1107.0497 [hep-th]].
- [58] V. K. Oikonomou, Nucl. Phys. B **850** (2011), 273-286 doi:10.1016/j.nuclphysb.2011.04.021 [arXiv:1103.1289 [hep-th]].
- [59] V. K. Oikonomou, Eur. Phys. J. Plus **126** (2011), 118 doi:10.1140/epjp/i2011-11118-5 [arXiv:1102.3665 [hep-th]].
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- [61] V. K. Oikonomou, J. Phys. Conf. Ser. **283** (2011), 012026 doi:10.1088/1742-6596/283/1/012026 [arXiv:1009.5222 [hep-th]].
- [62] V. K. Oikonomou, Mod. Phys. Lett. A **25** (2010), 2611-2619 doi:10.1142/S0217732310033839 [arXiv:1001.2433 [hep-th]].
- [63] V. K. Oikonomou, Mod. Phys. Lett. A **25** (2010), 767-779 doi:10.1142/S0217732310032810
- [64] V. Oikonomou, Symmetry **2** (2010), 366-387 doi:10.3390/sym2010366
- [65] V. K. Oikonomou, Theor. Math. Phys. **166** (2011), 337-355 doi:10.1007/s11232-011-0027-9 [arXiv:0905.1465 [hep-th]].
- [66] V. K. Oikonomou, Commun. Theor. Phys. **55** (2011), 101-110 doi:10.1088/0253-6102/55/1/20 [arXiv:0905.4928 [hep-th]].
- [67] V. K. Oikonomou, Mod. Phys. Lett. A **24** (2009), 2405-2423 doi:10.1142/S0217732309031703 [arXiv:0903.4159 [hep-th]].
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