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Vasilis K. Oikonomou
Date of Birth: 14 May 1979, Marousi, Athens

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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

- Tomsk State Pedagogical University and TUSUR, Tomsk, Russia
- ICE-ICREA, Barcelona, Spain
- Max-Planck Institute for Mathematics in the Sciences, Leipzig, Germany
- Tuebingen University, Germany
- International Hellenic University

Funded Scientific Visits (1-3 Months)

- 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

196 articles (in 192 corresponding author), 63 single author, 189 Publications-accepted articles (in 185 corresponding 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: 37 (Inspires 2021)

COMMISSIONS OF TRUST

Editorial Board of International Refereed Journals

- 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
- Member of the Editorial Board of the international journal Open Physics
- Advisory Board of “SCI” MDPI
- Reviewer Board of the journal “Universe” MDPI
- *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)
- Book and Proposal Evaluator for Elsevier
- PhD Evaluator for Napoli University
- PhD Evaluator for British University of Egypt

Papers with my Students

- V.K. Oikonomou and F. Fronimos, Reviving non-Minimal Horndeski-like Theories after GW170817: Kinetic Coupling Corrected Einstein-Gauss-Bonnet Inflation, [arXiv:2006.05512 [gr-qc]].
- S. Odintsov, V.K. Oikonomou and F.P. Fronimos, $f(R)$ Gravity k -Essence Late-time Phenomenology, Phys. Dark Univ. **29** (2020), 100563 [arXiv:2004.08884 [gr-qc]].
- S. Odintsov, V.K. Oikonomou and F.P. Fronimos, Rectifying Einstein-Gauss-Bonnet Inflation in View of GW170817, [arXiv:2003.13724 [gr-qc]]. Published in Nucl.Phys.B 958 (2020) 115135
- V. Oikonomou and N. Chatzarakis, Canonical scalar field inflation with a Woods-Saxon potential, Annals Phys. **411** (2019), [arXiv:1908.09218 [gr-qc]].
- N. Chatzarakis and V.K. Oikonomou, Autonomous Dynamical System of Einstein-Gauss-Bonnet Cosmologies, Annals Phys. **419** (2020), 168216 [arXiv:1908.08141 [gr-qc]].
- S.Nojiri, S. Odintsov, V.K. Oikonomou, N. Chatzarakis and T.Paul, Viable inflationary models in a ghost-free Gauss-Bonnet theory of gravity, Eur. Phys. J. C **79** (2019) no.7, 565 [arXiv:1907.00403 [gr-qc]].
- V.K. Oikonomou and N. Chatzarakis, The Phase Space of k -Essence $f(R)$ Gravity Theory, Nucl. Phys. B **956** (2020), 115023 [arXiv:1905.01904 [gr-qc]].
- S.D. Odintsov, V.K. Oikonomou, F.P. Fronimos Annals Phys. 420 (2020) 168250, e-Print: 2007.02309
- V.K. Oikonomou, F.P. Fronimos, Published in: EPL 131 (2020) 3, 30001, e-Print: 2007.11915 [gr-qc]
- S.D. Odintsov, V.K. Oikonomou, F.P. Fronimos, S.A. Venikoudis, Published in: Phys.Dark Univ. 30 (2020) 100718, e-Print: 2009.06113 [gr-qc]
- V.K. Oikonomou, F.P. Fronimos, N.Th. Chatzarakis, Physics of the Dark Universe Accepted, e-Print: 2009.12897

Reviewer in Journals

1. Physics Letters B
2. Scientific Reports, Nature Springer
3. Physics Letters A
4. Monthly Notices of the Royal Astronomical Society
5. Classical and Quantum Gravity
6. Annals of Physics
7. European Physical Journal C (EPJC)
8. Nuclear Physics B
9. The Astrophysical Journal
10. New Astronomy Elsevier
11. Journal of Physics A
12. International Journal of Modern Physics D
13. International Journal of Modern Physics A
14. General Relativity and Gravitation
15. Astrophysics and Space Science
16. Physics of the Dark Universe
17. Gravitation and Cosmology
18. European Physical Journal Plus
19. Foundations of Physics
20. International Journal of Geometric Methods of Modern Physics
21. Journal of Modern Physics
22. Advances in High Energy Physics
23. Advances in Astronomy
24. Information Sciences, Elsevier
25. Symmetry
26. Entropy
27. Canadian Journal of Physics
28. Royal Society Open Source
29. International journal of
30. Chinese Journal of Physics Mathematics and Statistics
31. Chinese Journal of Physics
32. Journal of Gravity
33. Universe Journal
34. Advanced Quantum Technologies

35. Universal Journal of Physics and Application
36. Theory in Biosciences
37. Asian Journal of Mathematics and Computer Research Physical Science International Journal
38. Computer Science
39. Journal of Basic and Applied Research international ? Journal of Applied Physical Science International
40. "Nuovo Cimento, Advances in Physics"
41. Universal Journal of Physics and Application
42. Proceedings of the National Academy of Sciences, Physical Sciences (NASA)
43. Physics Essays
44. Asian Journal of Mathematics and Computer Research
45. Hadronic Journal
46. Journal of Geography, Environment and Earth Science International
47. 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

Conferences

- 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**

- October 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 in International Journals with Referees

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- [1] S. D. Odintsov, V. K. Oikonomou and F. P. Fronimos, [arXiv:2108.11231 [gr-qc]].
 [2] V. K. Oikonomou and F. P. Fronimos, Nucl. Phys. B **971** (2021), 115522 doi:10.1016/j.nuclphysb.2021.115522 [arXiv:2108.10841 [gr-qc]].

- [3] V. K. Oikonomou, *Class. Quant. Grav.* **38** (2021) no.19, 195025 doi:10.1088/1361-6382/ac2168 [arXiv:2108.10460 [gr-qc]].
- [4] V. K. Oikonomou, A. Gitsis and M. Mitrou, [arXiv:2108.11324 [gr-qc]].
- [5] V. K. Oikonomou, *Annals Phys.* **432** (2021), 168576 doi:10.1016/j.aop.2021.168576 [arXiv:2108.04050 [gr-qc]].
- [6] V. K. Oikonomou, *Class. Quant. Grav.* **38** (2021) no.17, 175005 doi:10.1088/1361-6382/ac161c [arXiv:2107.12430 [gr-qc]].
- [7] G. G. L. Nashed, S. D. Odintsov and V. K. Oikonomou, *Eur. Phys. J. C* **81** (2021), 528 doi:10.1140/epjc/s10052-021-09321-3 [arXiv:2106.13607 [gr-qc]].
- [8] V. K. Oikonomou, [arXiv:2106.10778 [gr-qc]].
- [9] A. V. Astashenok, S. Capozziello, S. D. Odintsov and V. K. Oikonomou, *EPL* **134** (2021) no.5, 59001 doi:10.1209/0295-5075/134/59001 [arXiv:2106.01234 [gr-qc]].
- [10] V. K. Oikonomou, I. Giannakoudi, A. Gitsis and K. R. Revis, [arXiv:2105.11935 [gr-qc]].
- [11] S. D. Odintsov and V. K. Oikonomou, [arXiv:2104.01982 [gr-qc]].
- [12] S. D. Odintsov and V. K. Oikonomou, *Phys. Dark Univ.* **32** (2021), 100805 doi:10.1016/j.dark.2021.100805 [arXiv:2103.07725 [gr-qc]].
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