

Curriculum Vitae

Leandros Perivolaropoulos

Contact Information

Position: Professor of Physics
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Nationality: Greek
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Research Productivity

Research Papers: 154 (inspirehep link), Citations: 8,629, h-index: 49. Published Papers: 128, Citations: 8,187, h-index: 47. Citations per paper (avg): 56. Presentations in Conferences: 70, International Conferences Organized: 7, Invited Presentations at Conferences: 29, Other Invited Presentations: more than 30, Research Grants (Partner): 8, Single Authored Research Publications: 39.

Education

Ph.D. in Physics, Brown University, U.S.A. (1988-1991) - Thesis: *Macro and Micro Physics of Cosmic Strings*, Advisor: Prof. Robert Brandenberger. M.Sc. in Physics, Brown University, U.S.A. (1986-1988). B.Sc. in Physics, University of Ioannina (1981-1985) - GPA: Excellent (8 and 23/40). Certificate of Postgraduate Training in Education, Hellenic Open University (1998-1999) - Subject: Open and Distance Learning.

Professional Experience

Professor, University of Ioannina (2010-present). Associate Professor, University of Ioannina (2002-2010). Visiting Research Fellow, Institute of Nuclear Physics, Democritos, Athens, Greece (2000-2001). Counseling Professor, Hellenic Open University (1999-present) - Courses: Open-Distance Learning, Introduction to Physical Sciences, Classical Physics, Advanced Studies in Physics. Visiting Associate Professor (PD407-Adjunct), University of Crete (1996-1999). Research Fellow, MIT, invited by Prof. Guth (1994-1995). Postdoctoral Research Fellow, Harvard-Smithsonian Center for Astrophysics (1991-1994). Graduate Student Research Fellow, Brown University (1988-1991).

Selected Research Grants

Tilted Cosmology (2020 – Present), Role: Partner, Funding Source: Hellenic Foundation of Research and Innovation (HFRI). Scalar Fields in Curved Spaces: Soliton Solutions, Observational Results and Gravitational Waves (2020 – 2021), Role: Principal Investigator, Funding Source: European Social Fund (ESF). Research Funding Program: THALIS (2010 – 2015), Role: Partner, Funding Source: European Union and Greek national funds. Research Funding Program: ARISTEIA (2010 – 2015), Role: Partner, Funding Source: European Union and Greek national funds. Research Funding Program: MRTPN-CT-2006 035863-1 (UniverseNet) (2006 – 2010), Role: Partner, Funding Source: European Research and Training Network. Research Funding Program: PYTHAGORAS-1 (2004 – 2006), Role: Partner, Funding Source: Operational Program for Education and Initial Vocational Training of the Hellenic Ministry of Education.

Selected Courses Taught

Classical Electrodynamics I (2005 – 2011 2015 – Present), Gravity and General Theory of Relativity (2019 – Present), Cosmology (2014 – 2015 2019 – Present), Gravity and Cosmology (2006 – 2007 2015 – 2019), Quantum Mechanics II (2011 – 2016), Classical Mechanics II (2002 – 2005), Introductory Physics and Math (2002 – 2014).

Selected Publications

For the full list of my publications please visit the following: Google Scholar. Some selected publications include: "Gravitational transitions via the explicitly broken symmetron screening mechanism" (arXiv: 2203.10374), "Cosmology Intertwined: A Review of the Particle Physics, Astrophysics, and Cosmology Associated with the Cosmological Tensions and Anomalies" (JHEAp 34, 2022), "Challenges for CDM: An update" (arXiv:2105.05208), "A $w - M$ phantom transition at $z \approx 0.1$ as a resolution of the Hubble tension" (Phys.Rev.D 103, 2021), "Scalar tachyonic instabilities in gravitational backgrounds: Existence and growth rate" (Phys.Rev.D 102, 2020), "H0 tension, phantom dark energy, and cosmological parameter degeneracies" (Phys.Rev.D 101, 2020), "Tension of the EG statistic and redshift space distortion data with the Planck-CDM model and implications for weakening gravity" (Phys.Rev.D 101, 2020), "Evolution of the $f\sigma_8$ tension with the Planck15/CDM determination and implications for modified gravity theories" (Phys.Rev.D 97, 2018), and many more.