
CURRICULUM VITAE

ALEX KEHAGIAS

Place/Date of birth : Kilkis/Greece, 20 May 1964
Nationality : Greek
Marital Status : Married, two kids
Home Address : Ivi 79, 17561 P. Faliro, Athens
Present position : Professor,
Physics Division,
School of Applied Mathematical and Physical Sciences,
National Technical University of Athens (NTUA)
Heroon Polytechniou 9, 15780 Zografou, Athens

II. STUDIES

1. First degree in Physics (B.S.), University of Ioannina, Greece (1982-1986)
2. Ph.D. in Theoretical Physics, University of Ioannina, Greece, (1987-1991)

III. EMPLOYMENT HISTORY

1. Ph.D. student, Physics Department, University of Ioannina (1987-1991)
2. Military service (1991-1993)
3. Post-doctoral researcher, Inst. of Theor. Physics, Nijmegen, The Netherlands, (1993-1994)
4. Post-doctoral researcher, Technical University of Munich, Germany (1995-1997)
5. Post-doctoral researcher, Theory Division CERN, Geneva, Switzerland (1997-99)
6. Research Associate, Physics Division, NTUA, Greece (1999-2001)
7. Research Associate, Demokritos Nuclear Research Center, Athens Greece (2002)
8. Assist. Prof., Physics Division, NTUA (2002-2009)
9. Assoc. Prof., Physics Division, NTUA (2009-2014)
10. Prof., Physics Division, NTUA (2014-)
11. Visiting Prof., University of Geneva (2013-2015)

IV. FELLOWSHIPS

1. Greek State fellowship, undertaken at the University of Ioannina, Greece (1988-1991)
2. Alexander von Humboldt Stiftung fellowship undertaken at the Physics Department, Technical University of Munich, Germany (1995-1997)
3. CERN fellowship undertaken at CERN, Geneva, Switzerland (1997-1999)

V. PROFESSIONAL INVITATIONS/SEMINARS

I have been invited for professional visits and seminars in various places. Indicative: NRC Demokritos (Athens), Max-Planck Institute (Munich), Technical University Munich, University of Munich, Dortmund University, University of Athens, Humboldt University, Ecole Polytechnique, Ecole Normale CPHT, Paris XI (Orsay), Lisbon University, Technical Institute (Lisbon), Barcelona University, Algarve University, SISSA (Trieste), ICTP (Trieste), University of Ioannina, University of Thessaloniki, CERN, Sofia University, University of Buenos Aires, University of Milano (Bicocca), University of Torino, Imperial College (London), University of Nijmegen, Kac University (Istanbul), Institute of Theoretical Physics (Warsaw), Bonn University, University of Crete (Heraklion), etc.

VI. WORKSHOPS-CONFERENCES-SCHOOLS

I have been invited to various conferences to present my work. Indicative:

1. XVII Warsaw Inter. Conf. on Elementary Particle Physics, Kasimiers, Poland, 1993
2. 27o Inter. Ahrenshoop Conf. on EPP, Wendisch-Rietz, Germany, 1993.
3. ICTP 94 Summer School on Cosmology, Trieste, 1994.
4. Summer School on Elementary Particle Physics, Corfu, Greece, 1995
5. 30o International Conference on Elementary Particle Physics, Buckow, 1996.
6. Conference on Gauge Theories, SuSy and Unification, Imperial College 1997
7. Workshop on Non-Perturbative Phenomena in Strings, Membranes and Fields, CERN, 1997
8. 6th Summer School on Elementary Particle Physics, Corfu, Greece, 1998
9. 2nd Conference on Gauge Theories, Supersymmetry and Unification, Corfu, 1998
10. 2nd La Plata Meeting on Theoretical Physics, Buenos Aires, Argentina, 1998
11. From Planck to Electroweak scale, Kazimiers, Poland, 1998
12. EURESCO Conference for Quantum Fields and Strings, Kolymbari, Crete, 2000
13. Corfu Summer Institute on Elementary Particle Physics, Corfu, Greece, 2001
14. Workshop on Elementary Particle Physics, Athens, 2002
15. RTN Winter School on Strings, Supergravity and Gauge Theory, Turin, Italy 2003
16. 2nd Aegean Summer School On The Early Universe , Syros, Greece, 2003
17. The Density perturbation in the universe: Beyond the inflaton paradigm, Athens, 04
18. The Legacy of Supergravity, Rome, Italy, 2005
19. CERN Winter School on Supergravity, Strings, and Gauge Theory, Geneve, 2006
20. MIDEAST 2007, Fourth Regional meeting in String Theory, Patras, Greece, 2007
21. Strings, Branes and Cosmology, Istanbul, Turkey, 2007
22. 10 years of AdS/CFT, Buenos Aires, Argentina, 2007
23. 4th RTN Workshop, Varna, Bulgaria 2008
24. 4th ToK Workshop on Particle Physics and Cosmology, Warsaw, Poland, 2009
25. Workshop on Fields, Strings and Cosmology, Corfu, Greece, 2010
26. 5th Odense Winter School on Theoretical Physics, Odense, Denmark, 2012,
27. Workshop on Fields and Strings: Theory - Cosmology - Phenomenology, Corfu 2011,
28. 3rd Bangkok Meeting in Theoretical Physics, Bangkok, Thailand, 2014

VII. ORGANIZATION OF SCHOOLS/WORKSHOPS/CONFERENCES

I organized or co-organized various Conferences and Meetings. Indicative:

1. Fifth Hellenic school on Elementary Particle Physics, Corfu September 1995.
2. Corfu Summer Institute on EPP (6-26 Sept. 1998, Corfu), consisting of:
 - (a) 6th Hellenic School and Workshops on Elementary Particle Physics,
 - (b) Standard Model and Beyond, Euroconference,
 - (c) Physics beyond the Standard Model, TMR meeting,
 - (d) Quantum Aspects of Gauge Theories, Supersymmetry and Unification, TMR
3. Corfu Summer Institute on EPP (31 August-20 Sept. 2001, Corfu), consisting of:
 - (a) 7th Hellenic School and Workshops on Elementary Particle Physics,
 - (b) Across the present energy frontiers: Probing the Origin of Mass, TMR
 - (c) Quant. Structure of Spacetime and the Geom. Structure of Fund. Int., TMR Meeting.
4. 2nd Aegean School and Workshop on Cosmology, Syros island, September 2003.
5. European Particle Outreach Group Meeting, Athens, April 2004.
6. Density Perturbations in the Early Universe, Athens, June 2004.
7. The quantum structure of spacetime and the geometric nature of fundamental interactions, TMR Meeting, Kolymbari, Crete, September 2004.
8. Celebration of the 50th years of CERN, various activities during 2004.
9. Third Crete Regional Meeting on String Theory, Kolymbari, 2005
10. Corfu Summer Institute on EPP (2010, Corfu), consisting of:
 - (a) School and Workshops on the Standard Model and Beyond Cosmology
 - (b) School and Workshops on Fields and Strings: Theory-Cosmology Phenomenology
 - (c) ERG 2010: 5th International Conference on the Exact Renormalization Group
 - (d) Satellite Workshop on Noncommutative Field Theory and Gravity
11. Corfu Summer Institute on EPP (2011, Corfu), consisting of:
 - (a) 1st Summer School of ITN: Unification in the LHC Era
 - (b) Workshop on Noncommutative Field Theory and Gravity
12. Workshop of Fields and Strings, Theory-Cosmology-Phenomenology, Corfu, 2011
13. Corfu Summer Institute on EPP (2012, Corfu), consisting of:
 - (a) Summer School and Workshop on the Standard Model and Beyond
 - (b) TR33 - Summer Institute: Particles and the Universe
 - (c) ERG 2010: 5th International Conference on the Exact Renormalization Group
 - (d) XVII European Workshop on String Theory, Corfu, 2012

VIII. UNIVERSITY TEACHING

During the last 10 years I have been teaching various courses in the National Technical University of Athens, including:

Undergraduate:

1. *Physics I: Mechanics*,
Physics Division, NTUA (2003,2004)
2. *Physics II: Electromagnetism*,
Mech. Engineering Dept., NTUA (2003,2004), Chem. Engineering Dept., NTUA (2005)
3. *Group Theory*,
Physics Division, NTUA (2003-2013)
4. *General Relativity and Cosmology*,
Physics Division, NTUA (2005-2010)
5. *Special Relativity*,
Physics Division, NTUA (2013)
6. *Classical Electrodynamics*,
Physics Division, NTUA (2009-2012)
7. *Quantum Mechanics*,
Physics Division, NTUA (2008)
8. *Nuclear Physics*,
Hellenic Army Academy (2007)

Postgraduate:

1. *Introduction to Supersymmetry*,
post-graduate course, Physics Division, NTUA (2nd semester 2003)
2. *General Relativity*,
post-graduate course, Physics Division, NTUA (2009-2013)
3. *Mathematical Methods in Physics*,
post-graduate course, Hellenic Open University (2005-2011)
4. *Structure of Matter and the Universe*,
post-graduate course, Hellenic Open University (2009)

IX. THESIS SUPERVISION

A) Masters:

1. I supervised the master thesis of P. Meessen at University of Nijmegen, The Netherlands (currently faculty member at University of Oviedo, Spain)
2. I supervised the master thesis of M. Zucker, at Technical University of Munich, Germany, who subsequently finished his Ph.D in Bonn University.

3. In the Physics Division, NTUA, I supervised 12 diploma thesis and 3 master thesis who continued for Ph.D degree (with an exception of two).
4. I supervised the master thesis of 9 students of the master programme of Hellenic Open University

B) Ph.Ds

B.1. Supervisor:

1. I was supervisor of Dr. S. Avramis who received his Ph.D from the School of Applied Mathematical and Physical Sciences of NTUA in 2007. (He continued post-doctoral research with Prof. J.-P Derendinger in Univ. of Neuchatel and Bern.)
2. I was supervisor of Dr. K. Matthaiopoulou who received his Ph.D from the School of Applied Mathematical and Physical Sciences of NTUA in 2010. (She continued research in industry.)
3. I was supervisor of Dr. F. Farakos, who received his Ph.D from the School of Applied Mathematical and Physical Sciences of National Technical University in 2013. (He is post-doctoral Fellow in Univ. of Brno, Czech Republic.)

B.2. Co-Supervisor:

1. I was member of the Ph.D committee Dr. P. Manouselis who received his Ph.D from the School of Applied Mathematical and Physical Sciences of NTUA.
2. I was member of the Ph.D committee of Dr. B. Zamarias, who received his Ph.D from the School of Applied Mathematical and Physical Sciences of NTUA.
3. I was member of the Ph.D committee of Dr. D. Zoakos, who received his Ph.D from the Polytechnic Department of Patras University.
4. I was member of the Ph.D committee of Dr. O. Efthimiou, who received his Ph.D from the Physics Department of Ioannina University.
5. I was member of the Ph.D committee of Dr. Ch. Bogdanos, who received his Ph.D from the Physics Department of Ioannina University.
6. I am member of the Ph.D committee of Mr. N. Karaikos, who is working on his Ph.D in the Polytechnic Department of Patras University.

C) Post-docs:

1. I was supervisor of Dr. S. Pakis who was doing post-doctoral research in the School of Applied Mathematical and Physical Sciences of the NTUA (2005-2008) .
2. I am supervisor of Dr. E. Pomoni, post-doctoral reseracher in the School of Applied Mathematical and Physical Sciences of NTUA (2012-2016)
3. I am supervisor of Dr. E. Saridakis, post-doctoral researcher in the School of Applied Mathematical and Physical Sciences of NTUA (2012-2015).
4. I am supervisor of Dr. Y. Dallianis, who is conducting post-doctoral researcher in the School of Applied Mathematical and Physical Sciences of NTUA (2012-2014).

X. RESEARCH PROJECTS IN THE LAST 10 YEARS (2003-2013).

I have been actively involved in various research projects with national or European funding. I have also coordinated projects of a total budget more than 1,000 k€.

1. *The Quantum Structure of Spacetime and the Geometric Nature of Fundamental Interactions* (HPRN-CT-2000-00131. Starting date: 10/1/2000. Duration: 48 months Source: XII Directorate of EU.
Role: Member
2. *Superstring Theory* . (HPRN-CT-2000-00122. Starting date: 10/1/2000. Duration: 48 months. Source: XII Dir. of EU. Role: Member
3. *Constituents, Fundamental Forces and Symmetries of the Universe*. (HPRN-CT-2000-00131). Starting date: 11/1/2000. Duration: 48 months. Source: XII Dir. of EU.
Role: Member
4. *The Origin of Our Universe: Seeking Links between Fundamental Physics and Cosmology*. (HPRN-CT-2000-00131). Starting date: 10/1/2006 Duration: 48 months Source: XII Directorate of EU.
Role: Member
5. *Non-perturbative Quantum Field theory*, Erasmus IP grant Source:European Union and Greece.
Role: Member.
6. *AdS/CFT beyond the $N=4$ SYM paradigm*. IRG-276941 Starting date: 11/1/2012. Duration: 48 months. Source: XII Dir. of EU.
Role: Coordinator
7. *Theoretical Studies of Supergravity*. Strings and Membranes (Cont. No 680833) Starting date: 3/1/2004 Duration: 44 months. Source: Greek Ministry of Education.
Role: Coordinator
8. *Theoretical and Phenomenological Aspects of String Theory*. Cont. No 6806640) Duration: 48 months Source: Greek Ministry of Education.
Role: Coordinator
9. *String Cosmology*. (Cont. No 65138200). Starting date: 6/1/2004. Duration: 24 months Source: Research Committee NTUA. Role: Coordinator
10. *Early Universe Dynamics in String Theory*. (Cont. No 65162500). Starting date: 11/5/2007 Duration: 24 months. Source: Research Committee NTUA
Role: Coordinator
11. *Quantum Fields and Strings*. IKYDA-2001-22 (bilateral Greece-German) Starting date: 3/1/2001. Duration: 24 months. Source: Greek State Foundation Award.
Role: Member
12. *Gravity and Gauge Theories* . (bilateral Greece-France) Starting date: 3/1/2005 Duration: 24 months. Source: Greek State Foundation Awards.
Role: Member
13. *Holographic Hydrodynamics*. Starting date: 27/9/2012 Duration 36 months. Source: Co-funding from ESF and Greek State.
Role: Member
14. *General Relativity and Alternative Theories for the Description of gravity and Cosmology* . Starting date: 1/2/2012 Duration 36 months. Source: ESF and Greek State. Role: Coordinator

XI. RESEARCH

My research interests are Theoretical High Energy Physics, Particle Physics and Cosmology. In the last 5 years I work mainly on Supersymmetry, Supergravity, Inflation and Large Scale Structure. I have published **123** articles in peer reviewed journals and **15** contributions in Conference Proceedings with more than **3,3000** citations (self-citations excluded) and h-index **h=31** according to SPIRES-HEP and the ISI Web of Science.

Research Highlights:

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1. The construction of the first N=1 SYM model in AdS/CFT (Refs 1,2 below)
 2. Cosmological models in the framework of string theory and D-branes, now known in the literature as **mirage cosmology** (Ref. 3)
 3. The black-hole solution in the Horáva-Lifshitz theory known in the literature as **Kehagias-Sfetsos Black Hole** (Ref. 4).
 4. Consistent seven dimensional supergravity with boundaries (Ref. 5)
 5. Classification of all anomaly-free 6D N=1 chiral gauged supergravities (Ref. 6).
 6. Geometric transition in string and M-theory on Calabi-Yau and G_2 compactifications.
 7. The **classicalization** proposal for the solution of the unitarity problems of gravity and certain non-renormalizable interactions (Ref. 8).
 8. Consistency relations for the large scale structure of the Universe (Ref. 9)
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1. **New type IIB vacua and their F theory interpretation**
A. Kehagias. Phys. Lett. B435 (1998) 337-342.
2. **Membranes and five-branes with lower susy and their AdS supergravity duals**
S. Ferrara, A. Kehagias, H. Partouche and A. Zaffaroni. Phys.Lett. B431 (1998) 42-48.
3. **Mirage cosmology**
A. Kehagias and E. Kiritsis. JHEP 9911 (1999) 022.
4. **The Black hole and FRW geometries of non-relativistic gravity**
A. Kehagias, K. Sfetsos. Phys .Lett. B678 (2009) 123-126.
5. **Anomaly free brane worlds in seven-dimensions**
T. Gherghetta, A. Kehagias. Phys. Rev. Lett. 90 (2003) 101601.
6. **A New anomaly-free gauged supergravity in six dimensions**
S. D. Avramis, A. Kehagias, S. Randjbar-Daemi. JHEP 0505 (2005) 057.
7. **“New Model of Inflation with Non-minimal Derivative Coupling of Standard Model Higgs Boson to Gravity”**
C. Germani and A. Kehagias, Phys. Rev. Lett. **105**, 011302 (2010).
8. **UV-Completion by Classicalization**
G. Dvali, G. F. Giudice, C. Gomez, A. Kehagias. JHEP 08 (2011) 108
9. **Symmetries and Consistency Relations in Large Scale Structure of the Universe,**
A. Kehagias and A. Riotto. Nucl. Phys. B **873**, 514 (2013).

XII. OTHER ACTIVITIES

I am also involved to other physics related activities. Indicative:

1. Referee in research scientific journals (Physics Letters B, Nuclear Physics, Physical Review Letters, Physical Review D, Class. & Quantum Grav. ...).
2. Member of the Editorial Board of the open access Journal ISRN High Energy Physics.
3. Member of the Editorial Board of the open access ISRN Mathematical Physics.
4. Review Editor of the Swiss Frontier Journal.
5. Editor of the Greek translation of the 3 volumes of Feynman Lectures in Physics.
6. Editor of the Greek translation of “*Gravity: An Introduction to Einstein’s GR*”, by J.B. Hartl.
7. Editor of the Greek translation of “*Physics: Principles with Application*” by D.C. Giacomini.
8. Editor of various proceedings of the Conferences and Workshops mentioned in VII.
9. Member of the Board of *Corfu Summer Institute* and the *European Institute for Sciences and their Application*.
10. Member of the Senatorial Committee for culture of the National Technical University of Athens.
11. Member of the Senate of the National Technical University of Athens (2007)
12. Reviewer of the Greek Ministry of Education.
13. Reviewer of Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO, The Netherlands.
14. Outreach activities in collaboration with the Hellenic Physical Society (presentations to high-school students and teachers).

List of Publication

October 2015

1. JOURNALS

1. “The Halo Boltzmann Equation”

M. Biagetti, V. Desjacques, A. Kehagias, D. Racco and A. Riotto.
arXiv:1508.07330 [astro-ph.CO]

2. “Properties of Nilpotent Supergravity”

E. Dudas, S. Ferrara, A. Kehagias and A. Sagnotti.
arXiv:1507.07842 [hep-th]
10.1007/JHEP09(2015)217
JHEP **1509**, 217 (2015)

3. “Q-branes”

S. Abel and A. Kehagias.
arXiv:1507.04557 [hep-th] To appear in JHEP (2015)

4. “ $\mathcal{R}^2$ Supergravity”

S. Ferrara, A. Kehagias and M. Porrati.
arXiv:1506.01566 [hep-th]
10.1007/JHEP08(2015)001
JHEP **1508**, 001 (2015)

5. “Aspects of Quadratic Gravity”

L. Alvarez-Gaume, A. Kehagias, C. Kounnas, D. Lust and A. Riotto.
arXiv:1505.07657 [hep-th]

6. “A Consistency Relation for the Observed Galaxy Bispectrum and the Local non-Gaussianity from Relativistic Corrections”

A. Kehagias, A. M. Dizgah, J. Norea, H. Perrier and A. Riotto.
arXiv:1503.04467 [astro-ph.CO]
10.1088/1475-7516/2015/08/018
JCAP **1508**, no. 08, 018 (2015)

7. **“Black Hole Solutions in R^2 Gravity”**
A. Kehagias, C. Kounnas, D. Lust and A. Riotto.
arXiv:1502.04192 [hep-th]
8. **“What We Can Learn from the Running of the Spectral Index if no Tensors are Detected in the Cosmic Microwave Background Anisotropy”**
M. Biagetti, A. Kehagias and A. Riotto.
arXiv:1502.02289 [astro-ph.CO]
9. **“Linearized Non-Minimal Higher Curvature Supergravity”**
F. Farakos, A. Kehagias and K. Koutrolikos.
arXiv:1501.07562 [hep-th]
Nucl. Phys. B **894**, 569 (2015)
10. **“High Energy Physics Signatures from Inflation and Conformal Symmetry of de Sitter”**
A. Kehagias and A. Riotto.
arXiv:1501.03515 [hep-th]
11. **“Supersymmetry Breaking and Inflation from Higher Curvature Supergravity”**
I. Dalianis, F. Farakos, A. Kehagias, A. Riotto and R. von Unge.
arXiv:1409.8299 [hep-th]
JHEP **1501**, 043 (2015)
12. **“Halo velocity bias”**
M. Biagetti, V. Desjacques, A. Kehagias and A. Riotto.
arXiv:1408.0293 [astro-ph.CO]
Phys. Rev. D **90**, no. 10, 103529 (2014)
13. **“A Consistency Relation for the CMB B-mode Polarization in the Squeezed Limit”**
A. Kehagias, A. Moradinezhad-Dizgah, J. Norea, H. Perrier and A. Riotto.
arXiv:1407.6223 [astro-ph.CO]
JCAP **1410**, no. 10, 011 (2014)
14. **“The Imaginary Starobinsky Model and Higher Curvature Corrections”**
S. Ferrara, A. Kehagias and A. Riotto.
arXiv:1405.2353 [hep-th]
15. **“Non-local halo bias with and without massive neutrinos”**
M. Biagetti, V. Desjacques, A. Kehagias and A. Riotto.
arXiv:1405.1435 [astro-ph.CO]
16. **“The Imaginary Starobinsky Model”**
S. Ferrara, A. Kehagias and A. Riotto.
Fortschr. Physik, 1 (2014), arXiv:1403.5531 [hep-th]
17. **“Remarks about the Tensor Mode Detection by the BICEP2 Collaboration and the Super-Planckian Excursions of the Inflaton Field”**

- A. Kehagias and A. Riotto.
arXiv:1403.4811 [astro-ph.CO]
Phys. Rev. D **89**, 101301 (2014)
18. **“Testing the Origin of Cosmological Magnetic Fields through the Large-Scale Structure Consistency Relations”**
P. Berger, A. Kehagias and A. Riotto.
arXiv:1402.1044 [astro-ph.CO]
JCAP **1405**, 025 (2014)
 19. **“Spherically symmetric static solutions in a non-local infrared modification of General Relativity”**
A. Kehagias and M. Maggiore.
arXiv:1401.8289 [hep-th]
 20. **“Comments on the Starobinsky Model of Inflation and its Descendants”**
A. Kehagias, A. M. Dizgah and A. Riotto.
arXiv:1312.1155 [hep-th]
Phys. Rev. D **89**, 043527 (2014)
 21. **“Equal-time Consistency Relations in the Large-Scale Structure of the Universe”**
A. Kehagias, H. Perrier and A. Riotto.
arXiv:1311.5524 [astro-ph.CO]
 22. **“Consequences of Symmetries and Consistency Relations in the Large-Scale Structure of the Universe for Non-local bias and Modified Gravity”**
A. Kehagias, J. Norea, H. Perrier and A. Riotto.
arXiv:1311.0786 [astro-ph.CO]
Nucl. Phys. B **883**, 83 (2014)
 23. **“Vacuum structure in a chiral $R + R^n$ modification of pure supergravity”**
S. Ferrara, A. Kehagias and M. Porrati.
arXiv:1310.0399 [hep-th]
Phys. Lett. B **727**, 314 (2013)
 24. **“Conformal Symmetries of FRW Accelerating Cosmologies”**
A. Kehagias and A. Riotto.
Nucl. Phys. B **884**, 547 (2014), arXiv:1309.3671 [hep-th]
 25. **“Supersymmetry Breaking by Higher Dimension Operators”**
F. Farakos, S. Ferrara, A. Kehagias and M. Porrati.
arXiv:1309.1476 [hep-th]
Nucl. Phys. B **879**, 348 (2014)
 26. **“On the Starobinsky Model of Inflation from Supergravity”**
F. Farakos, A. Kehagias and A. Riotto.
Nucl. Phys. B **876**, 187 (2013), arXiv:1307.1137 [hep-th]

27. **“Ghost-free Supersymmetric Galileons”**
F. Farakos, C. Germani and A. Kehagias.
JHEP **1311**, 045 (2013), arXiv:1306.2961 [hep-th]
28. **“Symmetries of Vector Perturbations during the de Sitter Epoch”**
M. Biagetti, A. Kehagias, E. Morgante, H. Perrier and A. Riotto.
JCAP **1307**, 030 (2013). arXiv:1304.7785 [astro-ph.CO]
29. **“Decoupling Limits of sGoldstino Modes in Global and Local Supersymmetry”**
F. Farakos and A. Kehagias.
Phys. Lett. B **724**, 322 (2013), arXiv:1302.0866 [hep-th]
30. **“Symmetries and Consistency Relations in the Large Scale Structure of the Universe”**
A. Kehagias and A. Riotto.
Nucl. Phys. B **873**, 514 (2013), arXiv:1302.0130 [astro-ph.CO]
31. **“Global Supersymmetry on Curved Spaces in Various Dimensions”**
A. Kehagias and J. G. Russo.
Nucl. Phys. B **873**, 116 (2013), arXiv:1211.1367 [hep-th]
32. **“Non-Linear Single Higgs MSSM”**
F. Farakos and A. Kehagias.
Phys. Lett. B **719**, 95 (2013), arXiv:1210.4941 [hep-ph]
33. **“The Four-point Correlator in Multifield Inflation, the Operator Product Expansion and the Symmetries of de Sitter”**
A. Kehagias and A. Riotto.
Nucl. Phys. B **868**, 577 (2013), arXiv:1210.1918 [hep-th]
34. **“Emerging Potentials in Higher-Derivative Gauged Chiral Models Coupled to N=1 Supergravity”**
F. Farakos and A. Kehagias.
JHEP **1211**, 077 (2012), arXiv:1207.4767 [hep-th]
35. **“Operator Product Expansion of Inflationary Correlators and Conformal Symmetry of de Sitter”**
A. Kehagias and A. Riotto,
Nucl. Phys. B **864**, 492 (2012), arXiv:1205.1523 [hep-th]
36. **“A New Class of Four-Dimensional N=1 Supergravity with Non-minimal Derivative Couplings”**
F. Farakos, C. Germani, A. Kehagias and E. N. Saridakis.
JHEP **1205**, 050 (2012), arXiv:1202.3780 [hep-th]
37. **“Vanishing Cosmological Constant by Gravitino-Dressed Compactification of 11D Supergravity”**

- F. Farakos, A. Kehagias and E. N. Saridakis.
JHEP **1112**, 107 (2011), arXiv:1111.1577 [hep-th]
38. **“Relativistic Superluminal Neutrinos”**
A. Kehagias.
arXiv:1109.6312 [hep-ph]
39. **“Classicalization of Gravitons and Goldstones”**
G. Dvali, C. Gomez and A. Kehagias.
JHEP **1111**, 070 (2011), arXiv:1103.5963 [hep-th]
40. **“UV-Protected Inflation”**
C. Germani and A. Kehagias.
Phys. Rev. Lett. **106**, 161302 (2011), arXiv:1012.0853 [hep-ph]
41. **“UV-Completion by Classicalization”**
G. Dvali, G. F. Giudice, C. Gomez and A. Kehagias.
JHEP **1108**, 108 (2011), arXiv:1010.1415 [hep-ph]
42. **“Cosmological Perturbations in the New Higgs Inflation,”**
C. Germani and A. Kehagias,
JCAP **1005**, 019 (2010) [arXiv:1003.4285 [astro-ph.CO]].
43. **“New Model of Inflation with Non-minimal Derivative Coupling of Standard Model Higgs Boson to Gravity,”**
C. Germani and A. Kehagias,
Phys. Rev. Lett. **105**, 011302 (2010) [arXiv:1003.2635 [hep-ph]].
44. **“Scalar perturbations in p-nflation: the 3-form case”**
C. Germani and A. Kehagias
JCAP **0911**, 005 (2009) [arXiv:0908.0001 [astro-ph.CO]]
45. **“Relativistic Quantum Gravity at a Lifshitz Point”**
C. Germani, A. Kehagias and K. Sfetsos
JHEP **0909**, 060 (2009) [arXiv:0906.1201 [hep-th]]
46. **“The black hole and FRW geometries of non-relativistic gravity”**
A. Kehagias and K. Sfetsos
Phys. Lett. B **678**, 123 (2009) [arXiv:0905.0477 [hep-th]]
47. **“P-nflation: generating cosmic Inflation with p-forms”**
C. Germani and A. Kehagias
JCAP **0903**, 028 (2009) [arXiv:0902.3667 [astro-ph.CO]]
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