

MARCO SCALISI

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PERSONAL INFORMATION

Name: Marco Scalisi
Date of birth: 28 April 1986
Marital status/children: Married with two children
URL for web site: <https://marcoscalisi.weebly.com/>
Inspire-hep profile: <https://inspirehep.net/author/profile/M.Scalisi.1>
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CURRENT POSITION

2020- today **Max Planck Institute for Physics** (Munich, DE)
Senior Postdoctoral Researcher

PREVIOUS POSITIONS

2017-2020 **KU Leuven** (BE)
Marie Skłodowska-Curie FWO [PEGASUS]² Postdoctoral Fellow
Apr-Jun '19 **Harvard University** (USA)
Postdoc fellow (subsidised by one grant and local salary) – Host: *Prof. M. Reece*
2016-2017 **DESY** (DE)
Postdoc fellow (SFB, Blanceflor, DAAD and Della Riccia fellow) – Host: *Prof. A. Westphal*

VISITING POSITIONS

Oct-Dec '14 **Stanford University** (USA)
Visiting research scholar (subsidised by two grants)–Hosts: *Profs. A. Linde* and *R. Kallosh*
2011-2012 **Max Planck Institute for Gravitational Physics** (AEI, Potsdam DE)
Visiting research scholar (subsidised by two grants and local salary) - Host: *Prof. D. Oriti*

EDUCATION

2016 *PhD*
University of Groningen (NL), Van Swinderen Institute
Thesis: “Inflation, Universality and Attractors”; Supervisor: *Prof. Diederik Roest*
2011 *MSc in Theoretical Physics*
University of Catania (IT) / **MPI for Gravitational Physics** (DE)
final mark 110/110 **cum laude** (first class honours degree)
Thesis title: “Fractal and noncommutative spacetimes”
Supervisors: *Dr. G. Calcagni* (CSIC), *Prof. D. Oriti* (AEI), *Prof. A. Rapisarda* (Catania U.)

FELLOWSHIPS AND AWARDS [total amount awarded ~ € 920.000]

2023 **Fulbright Fellowship** (9 months at Harvard University, ~15.000 €)
2020 **FWO Senior Postdoctoral fellowship** (3 years at KU Leuven, ~250.000 €) - *declined*
2020 **Marie Skłodowska-Curie "La Caixa" Junior Leader Fellowship Program** (3 years at UAM Madrid ~300.000 € - success rate 11%) - *declined*
2019 **FWO Grant for long visit abroad** (Harvard University)
2018 **FWO Grant** for participation in a conference abroad (COSMO-18 in South Korea)
2017 **Marie Skłodowska-Curie FWO [PEGASUS]² fellowship** (3 years at KU Leuven - ~270.000 €)

2017	DAAD short-term grant (6.000 €)
2016	"Fondazione Angelo Della Riccia" fellowship (9.000 €)
2016	Blanceflor grant (170.000 SEK ~ 18.300 €) awarded by The Foundation Blanceflor Boncompagni Ludovisi, née Bildt
2016	SFB fellowship (11.592 €) awarded by DESY
2016	Invited participant with grant at the extended workshop " <i>Supergravity: what next?</i> " hosted at GGI, Florence (IT).
2015	"Trends in Theory 2015 Poster Award " (500 €) - DRSTP – given for the best poster presentation with title " <i>Unveiling the nature of the sweet spot of Planck</i> ".
2014	Grant (2.500 €) awarded by the COST Action MP1210 for the research project "Cosmological Inflation and Quantum Gravity" to be held at SITP, Stanford University.
2014	Grant "Marco Polo Fund" (800 €) awarded by University of Groningen for the research project "Cosmological Inflation and Quantum Gravity" to be held at SITP, Stanford U.
2011	MSc in Theoretical Physics awarded cum laude
2011	Grant "International Internship Programme – Anno 2010" (1.000 €) awarded by University of Catania
2011	Grant (4.152 €) for best MSc students awarded by INFN - winner of "Concorso n. 13376/09 per il conferimento di n. 21 borse di studio per laureandi".
2011	BSc in Physics awarded cum laude

MEDIA ATTENTION

2016	"One step closer to finishing Einstein's work" – Science Linx News - interview article on my PhD research. (link http://www.rug.nl/sciencelinx/nieuws/2016/06/20160609_scalisi)
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INVITED LECTURES

2019	Invited Lecture on " <i>Anti-D3 brane and de Sitter space in String Theory</i> " at the Avogadro Meeting '19 (Napoli, IT)
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SELECTED INVITED SEMINARS

2023	Invited plenary speaker at the workshop "Quantum Gravity, Strings and the Swampland" of the "23rd Hellenic School and Workshops on Elementary Particle Physics and Gravity", Corfu (GR)
2023	Invited plenary speaker at the 30th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2023), Southampton (UK) – Title: " <i>Quantum Gravity Constraints on SUSY Breaking and Cosmology</i> "
2023	Invited plenary speaker at the International Conference on String Phenomenology 2023 , Institute for Basic Science, Daejeon, South Korea – Title: " <i>Quantum Gravity Constraints on Cosmic Acceleration</i> "
2023	Imperial College London, theory seminar – " <i>The scale of SUSY breaking and the Swampland</i> "
2023	CERN (CH), Cosmo Coffee seminar series of CERN (Geneva, CH),) - " <i>Dark energy, the scale of SUSY breaking and the Swampland</i> "
2023	Invited plenary speaker at the DIP Conference on Holography and the Swampland, Ben-Gurion University of the Negev (IL) - " <i>The scale of SUSY breaking and the Swampland</i> "
2022	University of Bologna (IT), theory seminar, " <i>Quantum gravity constraints on scalar potentials</i> ", theory seminar
2022	Invited plenary speaker at Workshop on Holography and the Swampland, Corfu (GR) - " <i>Scalar Potentials and the Swampland</i> ",
2022	DIP virtual seminar - " <i>Gravitino conjecture and its implications on inflationary models</i> "
2022	Invited review talk at the SCGSC 2022, Amsterdam (NL) - " <i>Cosmology and the Swampland</i> "
2022	Van Swinderen Institute (Groningen, NL), " <i>Non-extremal Black-holes and the Swampland</i> "

2021	Invited plenary speaker at workshop "Geometry, Strings and the Swampland", at Ringberg Castle, Tegernsee - <i>"The Gravitino and the Swampland"</i>
2021	NTUA (Athens, GR) High Energy Theory Seminars - <i>"The Gravitino and the Swampland"</i>
2021	INFN strings web seminars – <i>"The Gravitino and the Swampland"</i>
2021	LMU and MPP (Munich, DE), group seminar, <i>"The Gravitino and the Swampland"</i>
2021	Uni Roma Tor Vergata (IT), string seminar, <i>"The Gravitino and the Swampland"</i>
2021	Seminar Series on String Phenomenology (Harvard) – <i>"The Gravitino and the Swampland"</i>
2021	Imperial College London (UK), theory seminar - <i>"Scalar Field Variations and the Swampland"</i>
2020	UvA (Amsterdam, NL), cosmology seminar - <i>"Cosmic Acceleration and the Swampland"</i>
2019	LMU (Munich, DE), Fields and Strings seminar- <i>"dS Vacua, Inflation and the Swampland"</i>
2019	CERN (Geneva, CH) - <i>"dS Vacua, Inflation and the Swampland"</i>
2019	ICTP (Trieste, IT) - <i>"dS Vacua, Inflation and the Swampland"</i>
2019	Gordon Research Seminar (Barcelona, ES) - <i>"de Sitter Vacua and the Swampland"</i>
2019	Gordon Research Conference (Barcelona) - <i>"Inflation and the Swampland Distance Conjecture"</i>
2019	NYU, <i>"de Sitter Vacua, Inflation and the Swampland"</i>
2019	MIT, cosmology seminar series (joint with Tuft University) - <i>"de Sitter Vacua, Inflation and the Swampland"</i>
2017	Invited plenary speaker at the workshop "Post-inflationary String cosmology" at University of Bologna (IT) - <i>"Inflation and Dark Energy from an anti-D3 brane"</i>
2017	Invited plenary speaker at the "Theoretical Approaches to Cosmic Acceleration" workshop at the Lorentz Center, Leiden (NL) - <i>"Inflation and Attractors from Nilpotent Kähler corrections"</i>
2016	Invited plenary speaker at the conference "Supergravity: the next 10 years" at GGI, Florence (IT) - <i>"Inflationary Attractors vs Moduli and Corrections"</i>
2016	Invited plenary speaker at the conference "Current Problems in Theoretical Physics" (Vietri sul Mare, IT) - <i>"Inflation and attractors in supergravity"</i>
2015	Uppsala University (Uppsala, SE) - <i>"The Inflationary Universe of α-attractors"</i>
2015	Nordita, (Stockholm, SE) - <i>"The Inflationary Universe of α-attractors"</i>
2015	Swansea University (UK) - <i>"The Inflationary Universe of α-attractors"</i>
2015	ICG (Portsmouth, UK) - <i>"The Inflationary Universe of α-attractors"</i>
2015	ICTP (Trieste, IT) - <i>"The Inflationary Universe of α-attractors"</i>
2015	Invited plenary speaker at the "PhD Day 2015", organized by the Dutch Research School for Theoretical Physics - <i>"The universe of α-attractors"</i>
2015	ITF, Utrecht University (Utrecht, NL) - <i>"Inflation, dark energy and supersymmetry breaking"</i>
2012	Institute for Theoretical Physics, University of Cologne, (Cologne, DE) - <i>"Fractal and noncommutative spacetime: a connection"</i>
2011	ITF, Utrecht University (Utrecht, NL) - <i>"Fractal and noncommutative spacetime: a connection"</i>

RELEVANT CONFERENCES AND WORKSHOPS

2022	Workshop on "Holography and the Swampland", Corfu (GR)
2022	"String Phenomenology 2022" conference (<i>selected talk</i>), Liverpool University (UK)
2021	"Geometry, Strings and the Swampland" workshop, Ringberg Castle, Tegernsee (DE)
2021	"String Phenomenology 2021" online conference
2020	"String Pheno 2020" online conference hosted by Northeastern University
2019	"Challenges and Opportunities of High Frequency Gravitational Wave Detection", ICTP, Trieste
2019	"Navigating the Swampland", IFT, UAM, Madrid
2019	"Strings 2019" conference, Brussels (BE)
2019	"String Pheno 2019" conference (<i>selected talk</i>), CERN, Geneva (Switzerland)
2019	"Cosmology and String Theory" (<i>plenary talk</i>), Gordon Research Conference (Barcelona, ES)

2019	"6th LISA Cosmology Working Group Workshop", IFT, UAM, Madrid
2018	"Vistas over the Swampland", IFT, UAM, Madrid
2018	"COSMO-18" (<i>selected talk</i>), Daejeon (South Korea)
2017	"Theoretical Approaches to Cosmic Acceleration" workshop at the Lorentz Center, Leiden (NL)
2017	"PASCOS 2017" (<i>selected talk</i>), IFT, Madrid (Spain)
2016	"Supergravity: What Next?" (<i>plenary speaker</i>)– GGI, Florence (IT)
2015	"COSMO-15" (<i>selected talk</i>), Warsaw (Poland)
2015	"String Pheno 15", ICTP, Trieste (IT)
2015	"Trends in Theory 2015" 11th biennial symposium of the DRSTP, Dalfsen (The Netherlands) – <i>Award for the best poster presentation with title "Unveiling the nature of the sweet spot of Planck"</i>
2015	"Nordic String Meeting 2015" (<i>selected talk</i>) at RUG, Groningen (NL)
2015	"Eighth String Meeting: A String Theoretic Approach to Cosmology and Quantum Matter" at RUG, Groningen (NL)
2014	"Particle Cosmology after Planck", DESY theory workshop at DESY, Hamburg (DE)
2014	"QU4" - Fourth Quantum Universe Symposium at University of Groningen (NL)
2013	"String, Cosmology and Gravity Student Conference 2013" at MPI for Physics, Munich (DE)
2013	"II Postgraduate Meeting on Theoretical Physics" at IFT UAM/CSIC, Madrid (Spain)
2013	"School and Workshop on New Light in Cosmology from the CMB" at ICTP, Trieste (Italy)
2013	"Trends in theory 2013" 10th biennial symposium of the DRSTP, Dalfsen (NL) – <i>Poster "Inflation in Supergravity"</i> .
2013	"8th international Kosmologietag" workshop at IBZ, Bielefeld University, Bielefeld (DE)
2013	"QU3" - Third Quantum Universe Symposium at University of Groningen (NL)
2013	"Quantum Gravity and Fundamental Cosmology" workshop at AEI, Potsdam (DE)
2013	"Nordic String Meeting 2013" at DESY, Hamburg (DE)
2012	"QU2" - Second Quantum Universe Symposium at University of Groningen (NL)
2012	"Exploring Quantum Spacetime" - 499 WE Heraeus Seminar – workshop at the Physikzentrum, Bad Honnef (DE)
2011	"Loops 11" international conference on quantum gravity, Madrid (Spain)
2011	"Mathematical, physical and conceptual aspects of quantum gravity" workshop at Laboratoire APC, University Paris 7, Paris (France)
2011	"Quantum spacetime from discreteness to continuum" workshop at LPT, Orsay (France)

RELEVANT SCHOOLS AND LECTURE SERIES (ATTENDED)

2017	"Mediterranean School of Complex Networks" – Salina (IT)
2016	Selected participant at the " Cargèse Summer School " for Quantum Gravity, Cosmology and Particle Physics (Cargèse, Corsica)
2015	"String-Pheno-Cosmo 2015", school on methods for string phenomenology, GGI, Firenze
2015	"CERN Winter School on Supergravity, Strings, and Gauge Theory 2015", at CERN, Geneva (Switzerland).
2014	"Postgraduate AIO/OIO THEP school 2014" organized by DRSTP, Doorn (NL)
2013	Lectures on "Cosmology for string theorists" given by Prof. D. Baumann, within the "Amsterdam-Brussels-Paris Doctoral School 2013" at IoP, UVA (NL)
2013	"School and Workshop on New Light in Cosmology from the CMB" at ICTP, Trieste
2013	"Advanced DGP Physics School on Inflation and CMB" at Physikzentrum, Bad Honnef (Germany).
2013	"Postgraduate AIO/OIO THEP school 2013" organized by DRSTP, Doorn (NL)
2012	" Amsterdam-Brussels-Paris Doctoral School " on quantum field theory, strings and gravity, partly supported by the International Solvay Institute
2012	"Summer School on Cosmology" at ICTP, Trieste (Italy)
2012	"International school on Strings and Fundamental Physics" at DESY, Hamburg (DE)
2011	"Sixth Aegean summer school – Quantum Gravity and Cosmology", Naxos (Greece)

SUPERVISION OF DOCTORAL STUDENTS

2023 Supervision of **PhD student** Joaquin Masias at the Max Planck Institute for Physics, Munich

SUPERVISION OF PRE-DOCTORAL STUDENTS

2022 Supervision of **master thesis**. Student: Benjamin Muntz (Elite Msc Course TMP, LMU/TUM Munich) - Research Project Title: *"Gravitino Conjecture and Emergent Strings"*

2022 Supervision of **master thesis**. Student: Arda Hasar (LMU, Munich)
Research Project Title: *"Gravitino Conjecture and Modular Symmetries"*

2022 Supervision of **master thesis**. Student: Joaquin Masias (LMU, Munich)
Research Project Title: *"Particle Production during Inflation and the Swampland"*

2021 Supervision of **master thesis**. Student: Guoen Nian (LMU, Munich)
Research Project Title: *"Field Geometry, Scalar Potentials and the Swampland Distance Conjecture"*

2020 Supervision of **bachelor thesis**. Students: Sibylle Baré and Mostafa Habibi (KU Leuven)
Research Project Title: *"Universality of Cosmic Inflation at large-N"*

2018 Supervision of **bachelor thesis**. Students: Quentin Coppée and Simon Mellaerts (KU Leuven)
Research Project Title: *"Gravitational waves from binary systems"*

2015 Supervision of **master thesis**. Student: Samuele Sottile (University of Catania)
Research project title: *"Field range bounds in cosmological inflation"*

2015 Supervision of **master thesis**. Student: Pelle Werkman (University of Groningen)
Research project title: *"Alpha-attractors and moduli stabilization"*

TEACHING ACTIVITIES

2017-20 Teaching assistant for the **"Quantum field theory"** course (given by Prof. A. Sevrin) at VUB and KU Leuven (Belgium).

2012-15 Teaching assistant for the **"Relativistic quantum mechanics"** course (given by Prof. E. Bergshoeff in 2013 and by Dr. D. Roest in 2014 and 2015) at University of Groningen (RUG), Groningen (The Netherlands)

2013-14 Teaching assistant for the **"Mechanics and relativity"** course (given by Prof. E. Pallante and Prof. E. Van der Giessen) at University of Groningen (RUG), Groningen (The Netherlands)

INSTITUTIONAL RESPONSABILITIES

2020-24 **"External expert"** in the Advisory Panel for Ms. Andriana Makridou, Mr. Christian Kneissl and Aleksandar Gligovic at the Max Planck Institute for Physics, Munich (DE)

ORGANISATIONAL ACTIVITY

2023 Founder and main organizer of the **Munich Theoretical Cosmology meetings** (include Max Planck Institute for Physics Max Planck Institute for Astrophysics, LMU and TUM)

2023 Organizer of the international **Seminar Series in String Phenomenology** (<https://sites.google.com/view/string-pheno-seminars>)

2023 Invited convener and organizer of the parallel session **"Supergravity and Cosmology"** at the **SUSY 2023** international conference, Southampton (UK).

2023 Elected organizer of the **Gordon Research Seminar** **"String Theory, Cosmology and Particle Astrophysics"** – **"Cosmic puzzles and Quantum Gravity"** – Lucca (IT)

2013-14 Organizer of the **"High-energy postgraduate meetings"** at the University of Groningen

COMMISSIONS OF TRUST

Referee for *Journal of Mathematical Physics*, *JHEP*, *PLB*, *JCAP*, *Symmetry*, *European Physical Journal C*, *IJMPA*

Grant Reviewer, Austrian Academy of Sciences

Review Editor, *Frontiers in Astronomy and Space Sciences* and *Frontiers in Physics*

Reader for the European Network of Postdoc applications (led by KU Leuven).

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2018-today	Marie Curie Alumni Association
2017-today	Member of DAAD Alumni Association
2009-today	Member of the European Physical Society EPS
2009-today	Member of the Italian Physical Society SIF
2012-16	Member of the Dutch Research School of Theoretical Physics (DRSTP)
2011	Member of INFN
2006-07	Member of the amateur astronomy group UAI (Unione Astrofili Italiani)
2003-06	Member of the amateur astronomy group Gruppo Astrofili Catanesi "Guido Ruggeri"

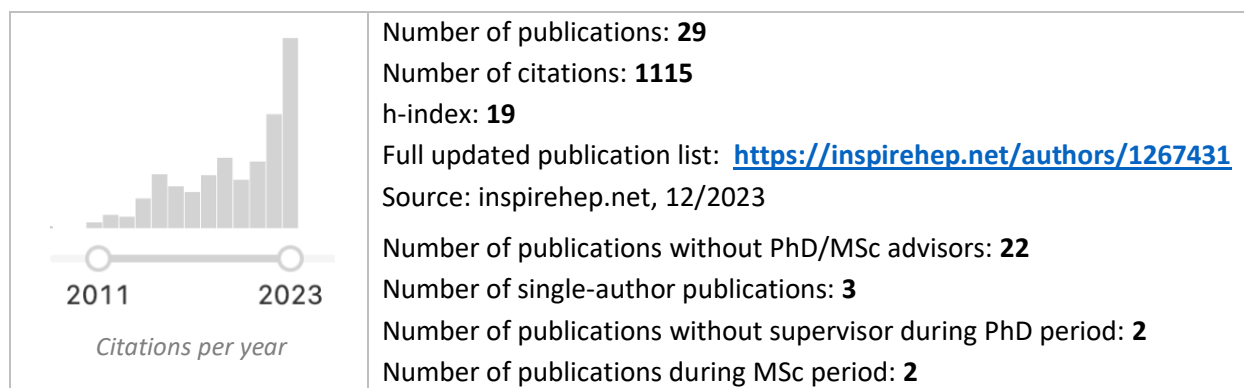
MAJOR COLLABORATIONS

2016-today	Member of the LISA consortium (cosmology working group)
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INTERNATIONAL COLLABORATION NETWORK

Stanford University, US (Prof. Andrei Linde, Prof. Renata Kallosh)
Harvard University, US (Prof. Matthew Reece)
Winnepeg University, CA (Dr. Evan McDonough)
King's College London, UK (Dr. Nicole Righi)
University of Bologna, IT (Prof. Michele Cicoli, Dr. Francisco Pedro)
Universidad Autónoma de Madrid, ES (Prof. Juan Garcia-Bellido)
CERN, CH (Dr. Mauro Pieroni, Dr. Irene Valenzuela)
DESY, Hamburg, DE (Prof. Alexander Westphal)
University of Groningen, NL (Prof. Diederik Roest)
Swansea University, UK (Dr. Ivonne Zavala)

PUBLICATION LIST



Note: The order of the authors is alphabetical in my field high energy theoretical physics.

30. D. Lüst, J. Masias, M. Pieroni, M. Scalisi
"Inflationary Particle Production and the Swampland"
To appear
29. LISA Cosmology Working Group - Eleni Bagui et al (including M. Scalisi)
"Primordial black holes and their gravitational-wave signatures"
[arXiv:2310.19857]
28. J. Freigang, D. Lüst, G. Nian, M. Scalisi
"Cosmic Acceleration and Turns in the Swampland"
JCAP 11 (2023) 080 - [arXiv:2306.17217]
27. M. Cicoli, M. Licheri, R. Mahanta, E. McDonough, F. Pedro, M. Scalisi
"Early Dark Energy in Type IIB String Theory"
JHEP 06 (2023) 052 - [arXiv: 2303.03414]
26. N. Cribiori, A. Gneccchi, D. Lüst, M. Scalisi
"On the correspondence between black holes, domain walls and fluxes"
JHEP 05 (2023) 033 - [arXiv:2302.03054]
25. L. A. Anchordoqui, I. Antoniadis, N. Cribiori, D. Lüst, M. Scalisi
"The Scale of Supersymmetry Breaking and the Dark Dimension"
JHEP 05(2023)060 - [arXiv:2301.07719]
24. E. McDonough, M. Scalisi
"Towards Early Dark Energy in String Theory"
[arXiv:2209.00011] – [submitted to *JHEP* – under review]
23. LISA Cosmology Working Group – P. Auclair et al. (including M. Scalisi)
"Cosmology with the Laser Interferometer Space Antenna"
Living Rev Relativ 26, 5 (2023) - [arXiv: 2204.05434]
22. N. Cribiori, M. Dierigl, A. Gneccchi, D. Lüst, M. Scalisi
"Large and Small Non-extremal Black Holes, Thermodynamic Dualities, and the Swampland" –
JHEP 10 (2022) 093 - [arXiv: 2202.04657]
21. N. Cribiori, D. Lüst, M. Scalisi
"The Gravitino and the Swampland"
JHEP 06 (2021) 071 – [arXiv: 2104.08288]
20. M. Scalisi, P. Soler, V. Van Hemelryck, T. Van Riet
"Conifold dynamics and axion monodromies"
JHEP 10 (2020) 133 - [arXiv: 2007.15391]
19. M. Scalisi
"Inflation, higher spins and the Swampland"
Phys.Lett.B 808 (2020) 135683 - [arXiv: 1912.04283]
18. R. Kallosh, A. Linde, E. McDonough, M. Scalisi
"dS Vacua and the Swampland"
JHEP 1903 (2019) 134 - [arXiv:1901.02022]
17. M. Scalisi, I. Valenzuela
"Swampland Distance Conjecture, Inflation and α -Attractors"
JHEP 1908 (2019) 160 - [arXiv:1812.07558]
16. R. Kallosh, A. Linde, E. McDonough, M. Scalisi
"4d Models of dS Uplift in KKLT"
Phys.Rev. D 99 (2019) no.4, 046006 - [arXiv:1809.09018]
15. R. Kallosh, A. Linde, E. McDonough, M. Scalisi
"de Sitter Vacua with a Nilpotent Superfield"
Fortsch.Phys. 2018 1800068 - [arXiv:1808.09428]

14. M. Dias, J. Frazer, A. Retolaza, M. Scalisi, A. Westphal
"Pole N-flation"
JHEP 1902 (2019) 120 - [arXiv:1805.02659]
13. E. McDonough, M. Scalisi
"Inflation from Nilpotent Kähler Corrections"
JCAP11(2016)028 - [arXiv:1609.00364]
12. D. Roest, M. Scalisi, P. Werkman
"Moduli Backreaction on Inflationary Attractors"
Phys.Rev. D94 (2016) no.12, 123503 - [arXiv:1607.08231]
11. M. Scalisi
"Inflation, Universality and Attractors" - PhD thesis. University of Groningen.
ISBN 978-90-367-8946-2 (printed version), ISBN 978-90-367-8945-5 (electronic version)
10. D. Roest, M. Scalisi
"Inflation: observations and attractors"
Contribution to Springer Proceedings in Physics (Book 176), "Theoretical Frontiers in Black Holes and Cosmology", Springer; 1st ed. 2016 edition, ISBN 978-3-319-31351-1
9. M. Scalisi
"Cosmological α -Attractors and de Sitter Landscape"
JHEP12(2015)134 - [arXiv:1506.01368]
8. D. Roest, M. Scalisi
"Cosmological Attractors from α -Scale Supergravity "
Phys. Rev. D92 (2015) 4, 043525 - [arXiv:1503.07909]
7. A. Linde, D. Roest, M. Scalisi
"Inflation and Dark Energy with a Single Superfield"
JCAP03(2015)017 - [arXiv:1412.2790]
6. R. Kallosh, A. Linde, M. Scalisi
"Inflation, de Sitter Landscape and Super-Higgs effect"
JHEP03(2015)111 - [arXiv:1411.5671]
5. J. Garcia-Bellido, D. Roest, M. Scalisi, I. Zavala
"The Lyth bound of inflation with a tilt"
Phys. Rev. D 90, 123539 (2014) - [arXiv:1408.6839]
4. J. Garcia-Bellido, D. Roest, M. Scalisi, I. Zavala
"Can CMB data constrain the inflationary field range?"
JCAP09(2014)006 - [arXiv: 1405.7399]
3. D. Roest, M. Scalisi, I. Zavala
"Kähler potentials for Planck inflation"
JCAP11(2013)007, [arXiv:1307.4343]
2. G. Calcagni, G. Nardelli, M. Scalisi
"Quantum mechanics in fractional and other anomalous spacetimes" - J. Math. Phys. 53, 102110 (2012) - [arXiv:1207.4473]
1. M. Arzano, G. Calcagni, D. Oriti, M. Scalisi
"Fractional and noncommutative spacetimes"
Phys. Rev. D 84, 125002 (2011) - [arXiv:1107.5308]

PERSONAL SKILLS AND COMPETENCES

Languages:	Italian	(mother tongue)
	English	(proficiency level)
	German	(upper intermediate level)

Soft Skill Courses:	<p>2022 – “Basics of Science Communication” of the National Institute for Science Communication (NaWik)</p> <p>2021 – “Effective Proposal Writing” course given by SB Science Management for the Max Planck Academy</p> <p>2020 - “Science Communication and Media Training ” course given by Vijay Balakrishan for the Max Planck Academy</p> <p>2013 - “Science Communication” course given by <i>In vivo communicaties</i></p>
Computer skills:	<p>Knowledge and experience of:</p> <ul style="list-style-type: none"> • Windows • Mac OS • Linux (Scientific Linux, Ubuntu) <p>Programming languages:</p> <ul style="list-style-type: none"> • C • Python • Latex • Mathematica

REFERENCES

Prof. Dieter Lüst

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Prof. Andrei Linde,

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Prof. Renata Kallosh

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Prof. Diederik Roest

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Prof. Alexander Westphal

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Email: alexander.westphal@desy.de

Prof. Juan Garcia Bellido,

Instituto de Física Teórica IFT-UAM-CSIC, Universidad Autónoma de Madrid,
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Prof. Sergio Ferrara

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Tel. +41 22 76 72831, Email: Sergio.Ferrara@cern.ch