

# Curriculum Vitae

**Dr. Savvas Nesseris**



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## *Research Positions:*

- 2015-** Ramon y Cajal Fellow at the *Instituto de Física Teórica (IFT)* in Madrid, Spain
- 2014-2015** Senior Postdoc at the *University of Geneva* in Geneva, Switzerland
- 2011-2014** Postdoc at the *Instituto de Física Teórica (IFT)* in Madrid, Spain
- 2008-2011** Postdoc at the *Niels Bohr International Academy* in Copenhagen, Denmark

## *Alma mater:*

- 2004-2008** Physics Department, Ioannina University, Greece  
Ph. D. in Physics, Advisor: Professor L. Perivolaropoulos  
Title: ‘*Cosmological constraints of generalized theories of gravity.*’
- 2000-2004** Physics Department, Ioannina University, Greece  
Title: Degree in Physics (June 2004)  
Degree: 8.18/10 (Salutatorian)

## *Funding acquired as PI:*

- “*Física Fundamental y Cosmología con cartografiados extragalácticos*”, (MICINN). No: PGC2018-094773-B-C32. Status: co-PI with Prof. Juan Garcia-Bellido. Duration: 2019-2021, total budget: 133,000 €.
- “*Going Beyond Einstein: Tests Of Gravity At Cosmological Scales*”, Ramon y Cajal project (MICINN). No: RYC-2014-15843, Status: coordinator (PI). Duration 2015-2020, total budget 308,600 €.
- “*Observational Signatures of Extended and Modified gravity theories*”, no: 09-065817/FNU (272-08-0285), Danish Research Council (FNU). Status: coordinator (PI). Duration: 2008-2010, total budget: 203,859 €.

## *Funding acquired as team member:*

- “*Física Fundamental y Cosmología con cartografiados extragalácticos*”, number: FPA2015-68048-C3-3-P. Status: team member. PI: Prof. Juan Garcia-Bellido. Duration: 2015-2018, total budget: 88,935 €.
- “*Severo Ochoa*” excellence grant, Spanish Ministry of Economy and Competitiveness, SEV-2012-024 (2013-2017) and SEV-2016-0597 (2017-2021). Status: team member, total budget 4,000,000€ per funding period
- “*Phenomenology of the Fundamental Interactions: Fields, Strings and Cosmology*”, Number: TH2/HEPHACOS S2009/ESP-147, (2010-2014). Status: team member. PI: Prof. Juan Garcia-Bellido.

*Participation in collaborations:*

*Euclid Consortium*, Theory Working group (2012-now), WP10 on external probes.  
*LISA Consortium*, Simulation and Cosmology Working group (2019-now), WP 1.7 for construction of templates for GW bursts from close hyperbolic encounters.  
*PAU Survey*, IFT team member (2013-now).

*Other merits and grants:*

*I3 Certificate* of the Spanish ministry to Science, Innovation and Universities.  
JAE Intro fellowship Grant No. JAEINT17\_EX\_004 during the Fall semester of 2017, with student C. Alvarez Luna. Total budget 2,000€.  
Distinction by the Consejo Superior de Investigaciones Científicas (CSIC) for *scientific merits* for the year 2015-2016.  
The Georgios Th. Foteinos and **Academy of Athens award for 2015** in theoretical physics, followed with a 3000€ prize.  
“*Outstanding Referee of 2014*” for the American Physical Society (APS).  
Fellow of the Greek State's Scholarships Foundation (I.K.Y.) for undergraduate (2000-2004) and postgraduate (2005-2008) studies.  
Award of Excellence from the Greek State's Scholarships Foundation (I.K.Y.) for the year 2003.

*Teaching Experience:*

- 2012-2020** **Cosmology** (Master class, compulsory course),  
Coordinator of the course with Prof. A. Knebe since academic year 2017-18  
*Instituto de Física Teórica* (IFT) in Madrid, Spain
- 2014-2020** **Advanced Cosmology** (Master class, optional course),  
*Instituto de Física Teórica* (IFT) in Madrid, Spain
- 2005-2007** Teaching Assistant at the Physics Department, Ioannina University, Greece  
Courses: *Computer Labs* (2004-2005)  
*Classical Electrodynamics I* (Winter Semesters 2005-2007)  
*Classical Electrodynamics II* (Spring Semesters 2005-2007)  
*Theoretical Cosmology* (2005-2007)

*Student supervision:* Mr *Manuel Trashorras*, MSc in Theoretical Physics (2014) and PhD (expected 2020, co-supervision with Prof. Juan Garcia-Bellido)  
Mr *Ruben Arjona*, MSc in Theoretical Physics (09/2018) and PhD (expected 2021)  
Ms *Judit Pérez Romero*, MSc in Theoretical Physics (IFT Madrid, 09/2017)

*Societies:*

*Red Temática de Ondas Gravitacionales (REDONGRA)*  
*Hellenic Society on Relativity, Gravitation and Cosmology*  
*Greek High Energy Physics Society*

*Publications:*

**68** publications: (56) in *International Journals* and (4) in *International Conference Proceedings*, (1) *White Paper* and (7) under *peer review*.  
Number of citations=**3,261** Average per paper (published)= **57.3**, h-index=**28**

*Foreign Languages:* **English** (fluent), **Spanish** (basic)

*Programming Skills:* *Excellent Knowledge:* Mathematica, Fortran 90/95, C, C++, shell, Python  
*Moderate Knowledge:* C#, CUDA, .NET

*Journals Refereeing:* Physical Review D (**PRD**), Physical Review Letters (**PRL**), Journal of Cosmology and Astroparticle Physics (**JCAP**), Monthly Notices of the Royal Astronomical Society (**MNRAS**), Int. J. Mod. Phys. D (**IJMPD**), Physics Letters B (**PLB**), Physics of the Dark Universe (**PDU**), Gen. Rel. & Grav. (**GERG**).

*Important Numerical Projects* (see my webpage for details):

**A Mathematica Interface for CosmoMC (v1.1).**

**A Mathematica Interface for CAMB (v1.1).**

*Conferences Organized:*

(1) “**The 25th Xmas IFT workshop**”, 11-13 December 2019, Madrid, Spain, <https://workshops.ift.uam-csic.es/Xmas19>

(2) “**Euclid WP10 2-day meeting**”, 5-6 November 2019, Madrid, Spain, <https://workshops.ift.uam-csic.es/WP10Euclid2019>

(3) “**6th LISA Cosmology Working Group Workshop**”, 14-18 January 2019, Madrid, Spain, <https://workshops.ift.uam-csic.es/lisa2019>

(4) “**Stochastic Background Data Analysis for LISA meeting**”, 9-11 January 2019, Madrid, Spain, <https://workshops.ift.uam-csic.es/lisastochastic2019>

(5) “**The 24th Xmas IFT workshop**”, 12-14 December 2018, Madrid, Spain, <https://workshops.ift.uam-csic.es/Xmas18>

(6) “**The 23rd Xmas IFT workshop**”, 13-15 December 2017, Madrid, Spain, <https://workshops.ift.uam-csic.es/Xmas17>

(7) “**School on Cosmology Tools**”, 13-17 March 2017, Madrid, Spain, <https://workshops.ift.uam-csic.es/cosmotools2017>

(8) “**The 22nd Xmas IFT workshop**”, 14-16 December 2016, Madrid, Spain, <https://workshops.ift.uam-csic.es/Xmas16>

(9) Three week program on “**Cosmic Microwave Background, Large Scale Structure and 21 cm Surveys**”, 13 June-1 July 2016, Madrid, Spain, <https://workshops.ift.uam-csic.es/21CMBLSS2016>

(10) “**School on Cosmology Tools**”, 12-15 November 2013, Madrid, Spain, <http://workshops.ift.uam-csic.es/ws/cosmolgytools13>

(11) “**Confronting theory with observations**”, 16-20 August 2010, Copenhagen, Denmark, <https://indico.nbi.ku.dk/conferenceDisplay.py?confId=179>

(12) “**NEB 14-Recent Developments in Gravity**”, 8-11 June 2010, Ioannina, Greece, <http://neb14.physics.uoi.gr/>

*Conferences & Seminars:*

Participated and presented my work in more than 30+ *international conferences/workshops* and *invited seminars* at Universities abroad.

*General Interests:*

English and French Literature of the 19<sup>th</sup> -20<sup>th</sup> centuries, Rock & Heavy Metal music, Computer vision, Byzantine and military history, Arcaeoastronomy