

**NIKOLAOS STERGIULAS**

Professor  
Department of Physics, Aristotle University of Thessaloniki

**CURRICULUM VITAE**

Thessaloniki  
May 2017

## 1. Personal Information

NAME:	Nikolaos Stergioulas
DATE OF BIRTH:	21 March 1967
PLACE OF BIRTH:	Gütersloh, Germany
CITIZENSHIP:	Greek
FAMILY STATUS:	Married with one child
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## 2. Studies

- **B.Sc. in Physics**, Department of Physics, Aristotle University of Thessaloniki, 1991
- **M.Sc. in Physics**, Department of Physics, University of Wisconsin-Milwaukee, 1993
- **Ph.D.**, Department of Physics, University of Wisconsin-Milwaukee, 1996

## 3. Fellowships

- **Teaching Assistant**, Department of Physics, University of Wisconsin-Milwaukee, 1991-1995
- **National Science Foundation Research Assistant**, Department of Physics, University of Wisconsin-Milwaukee, 1993-1996
- **Post-Doctoral Guest Scientist**, Max-Planck-Institute for Gravitational Physics (Albert-Einstein-Institute), Potsdam, March - May 1998
- **Expert Visiting Scientist Fellowship**, NATO 2001

## 4. Positions

- **Professor**, Department of Physics, Aristotle University of Thessaloniki, May 2017 - present
- **Associate Professor**, Department of Physics, Aristotle University of Thessaloniki, January 2012 - April 2017
- **Assistant Professor**, Department of Physics, Aristotle University of Thessaloniki, July 2004 - December 2011
- **Lecturer**, Department of Physics, Aristotle University of Thessaloniki, November 1999 - June 2004
- **Post-Doctoral Research Scientist**, Max-Planck-Institute for Gravitational Physics (Albert-Einstein-Institute), Potsdam, September 1998 - October 1999
- **Post-Doctoral Guest Scientist**, Max-Planck-Institute for Gravitational Physics (Albert-Einstein-Institute), Potsdam, March - May, 1998

## 5. Visiting Researcher or Visiting Professor

- **University of Illinois at Urbana-Champaign**,

- April 1996
- **Max-Planck-Institute for Gravitational Physics, Potsdam**
  - March - May 1998
  - March 2001
  - September 2004
  - March 2007
  - April 2012
- **Observatoire de Paris, Meudon**
  - March 1998
- **University of Tuebingen**
  - April 1998
  - July 2004
  - October 2007
  - July 2010
  - June - September 2013
- **Max-Planck-Institute for Astrophysics, Garching**
  - Januar 1999
  - November 2003
  - November 2004
  - Februar 2008
  - July 2008
  - November 2010
  - December 2010
  - September 2012
  - October 2012
  - September 2013
- **Washington University, St. Louis**
  - March 1999
- **University of Wisconsin-Milwaukee**
  - March 1999
  - August 2007
  - June 2015
- **University of Southampton**
  - June 1999
  - November 2013
- **Nicolaus Copernicus Astronomical Center, Warsaw**
  - June 2000
  - May 2002
  - September 2011
  - February 2013
- **University of Rome**
  - January 2001
- **Pennsylvania State University**
  - October 2002
- **SISSA, Trieste**
  - January 2001
  - November 2001
  - November 2002
  - November 2006
- **University of Kyoto**
  - February 2005

- **University of Valencia**  
April 2005  
November 2009  
February 2012
- **Louisiana State University**  
February 2007
- **University of Parma**  
March 2007  
November 2011
- **University of Jena**  
October 2008
- **Max-Planck-Institut for Gravitational Physics - Hannover**  
March 2009
- **Polish Academy of Sciences, Warsaw**  
June 2009
- **Institute for Nuclear Theory, Seattle**  
July 2014
- **Stockholm University**  
April 2015
- **University of Nottingham**  
April 2016
- **Heidelberg Institute for Theoretical Studies**  
November 2016

## 6. Studies - Degrees - Positions

I was born in Gütersloh, Germany in 1967, where I graduated from the German junior high school (Realschule). In 1982 I moved to Greece and graduated from high school (λύκειο) in 1985.

I started my studies in the Department of Physics at Aristotle University of Thessaloniki (AUTH) in 1986. During my studies I became interested in General Relativity and wrote a diploma thesis under the supervision of Prof. Sotirios Persides. I received the B.Sc. in Physics in June 1991 and in September of the same year I was accepted with a teaching assistant fellowship for graduate studies in the Department of Physics of the University of Wisconsin-Milwaukee (UWM).

I received the M.Sc. in Physics in 1993 and continued, under the supervision of Prof. John. L. Friedman for my Ph.D., which I received in May of 1996. From January 1997 to 1998 I completed my military service in Greece.

From March to May 1998 I was a visiting research fellow at the Max-Planck-Institute for Gravitational Physics, Potsdam and from September 1998 to October 1999 I was a post-doctoral research associate at the same institute.

In November of 1999 I became Lecturer at the Department of Physics of AUTH with the subject "Theory of Relativity", while in July of 2004 I became an Assistant Professor with the same subject. I became tenured in 2008 and in January of 2012 I became an Associate Professor with the same subject, which is my current position. In November of 2016 I was elected as Professor and I assumed duties in May 2017.

## 7. Teaching and Academic Activities

### 7.1 Teaching

University of Wisconsin-Milwaukee, Department of Physics

- **General Physics (Mechanics)** (2nd year): as teaching assistant, 1991-1993
- **General Physics (Electricity-Magnetism)** (2nd year): as teaching assistant, 1991-1993
- **General Physics Laboratory** (1st year): as teaching assistant, in 1991 and in 1994
- **Astrophysics** (4th year): as teaching assistant, in 1994

Aristotle University of Thessaloniki, Department of Physics, B.Sc. Program

Compulsory courses:

- **Astronomy and Astrophysics** (3rd year: from 2009 to present (full semester)
- **General Mathematics I (Calculus)** (1st year): from 2015 to present (full semester)
- **Computer Programming and Computational Physics** (1st year): from 2015 to 2016 (full semester)
- **Laboratory of Applied Informatics** (1st year): from 1999 to 2009 (full semester)

Elective courses:

- **General Theory of Relativity** (4th year): from 2003 to present (half semester)
- **Numerical Analysis** (3rd year): από το 2000 to present (half semester)
- **Astrophysics** (4th year): from 2000-2013 and 2016 to present (half semester)
- **Mechanics of Continuous Media** (4th year): from 2000 to 2012 (full semester)
- **Applications of Computational Physics II** (4th year): from 2002 to 2005 (half semester)
- **Computational Physics** (4th year): from 2012 to 2015 (full semester)

Aristotle University of Thessaloniki, Department of Physics, M.Sc. Program “Computational Physics”

Compulsory courses:

- **Computational Mathematics (1<sup>st</sup> year M.Sc.)**, from 2007 to present (half semester)
- **Programming Tools**, from 2014 to present (2 weeks)

Elective courses:

- **Computational Fluid Mechanics**, from 2004 to 2006 (full semester)

I suggested the teaching of and designed the curriculum of the course **Computational Fluid Mechanics** at the start of the M.Sc. in “Computational Physics” in 2004.

I co-designed the curriculum of the course **Computational Mathematics** in the initial M.Sc. Program in “Computational Physics” and of the course **Computational Tools** in the updated program in 2014.

I suggested the teaching of and designed the curriculum of the course **Fluid Mechanics** in the new B.Sc. Program of the Department of Physics (it will be taught in the future).

## 7.2 Supervision of Ph.D. Students - Member in Ph.D. Committees

*As main supervisor:*

1. **Panagiotis Iosif** «Dynamics of Relativistic Stars», Department of Physics, AUTH (start: 2012), in progress
2. **Nikolaos Tryfonidis** «Computational Study of Nonlinear Processes in Magnetohydrodynamics with Application to Astrophysics», Department of Physics, AUTH (start: 2013), in progress
3. **Gkratsia Tantilian** «Efficient Parallel Algorithms for the Study of the Dynamics of Relativistic Stars», Department of Physics, AUTH (start: 2014), in progress

*As co-supervisor:*

1. **Reiner Birkel**, “Stationary, Axisymmetric Neutron Stars with Meridional Circulation in General Relativity”, *TU-Muenchen/Max-Planck-Institute for Astrophysics*, Ph.D. awarded on 12/1/2010. Co-supervision from start to finish with Prof. E. Mueller of MPA Garching in the framework of a bilateral research program with support from IKY and DAAD (IKYDA), in which I was the P.I.
2. **Michael Gabler**, “Magnetohydrodynamical Oscillations of Magnetars”, *TU-Muenchen/Max-Planck-Institute for Astrophysics*, Ph.D. awarded on 26/11/2011. Co-supervision from start to finish with Prof. E. Mueller of MPA Garching in the framework of a bilateral DAAD fellowship.

*As member of the 3-member advisory committee:*

1. **Simos Konstantinidis**, “Gravitational Radiation from Stellar Systems”, Department of Physics, Aristotle University of Thessaloniki, Ph.D. awarded on 12/9/2011.
2. **Alexander Kouretsis**, Department of Physics, Aristotle University of Thessaloniki, Ph.D. awarded on 11/7/2014.
3. **Miltiadis Kadiltzoglou**, Department of Physics, Aristotle University of Thessaloniki, start: 2012, in progress.
4. **Michail Mavridis**, “Study of the anomalous diffusion in turbulent plasma with numerical simulations of the gyrokinetic equations and applications to nuclear fusion reactors”, Department of Physics, Aristotle University of Thessaloniki, start: 2012, in progress.
5. **Alexandros Papageorgiou**, «Study of Large Scale Structure», Department of Physics, Aristotle University of Thessaloniki, start: 2015, in progress.

6. **Nikolaos Triantafyllou**, (title to be defined), Department of Physics, Aristotle University of Thessaloniki, start: 2016, in progress.
7. **Konstantinos Filippou**, (title to be defined), Department of Physics, Aristotle University of Thessaloniki, start: 2016, in progress.

*As member of the 7-member examination committee:*

1. **Miltiadis Vavoulidis**, «Rotating Relativistic Stars», Department of Physics, Aristotle University of Thessaloniki, Ph.D. awarded on 5/5/2008
2. **Ifigenia Klaoudatou**, “*Physics of Cosmological Singularities in Isotropic Universes and Brane Universes*”, University of the Aegean, Ph.D. awarded on 23/5/2008.

*As external examiner:*

1. **Gian Mario Manca**, “Dynamical Instabilities in Rapidly Rotating Neutron Star Models”, Department of Physics, *University of Parma*, Ph.D. examined on 7/3/2007.
2. **Christian D. Ott**, “Stellar Iron Core Collapse in 3+1 General Relativity and The Gravitational Wave Signature of Core-Collapse Supernovae”, *University of Potsdam*, Ph.D. examined on 30/3/2007.
3. **Lucy Keer**, “Neutron Star Oscillations from Star Quakes”, University of Southampton, Ph.D. examined on 22/11/2013.
4. **Niclas Moldenhauer**, “*Initial Data for Neutron Star Binaries with Arbitrary Eccentricity*”, *University of Jena*, report submitted on 11/1/2016.
5. **Francesco Maione**, “*Gravitational-wave signal from binary neutron star merger simulations with different equation of state and mass ratio*”, *University of Parma*, January 2017

### 7.3 Supervision of M.Sc. Theses

I supervised the following Theses in the M.Sc. Program “Computational Physics” at AUTH:

1. **G. Askolidis**, “*Three-dimensional Imaging of Data from Numerical Relativity Simulations*” (2005)
2. **V. Tziampazlis**, “*Three-dimensional Simulations of Rotational Oscillations in Relativistic Stars*” (2006)
3. **D. Voukantzis**, “*Simulations of Compact Binary Systems in the Ellipsoidal Approximation*” (2007)
4. **N. Tsakiris** “*A Vacuum-Tracking Method for Oscillating Stars*” (2007)
5. **M. Anastasiou** “*Analysis of Individual Pulses from Neutron Stars*” (2007)
6. **P. Antoniadis** “*The IDO Method and its Implementation in CUDA*” (2010)
7. **V. Frogakis** “*Quasi-Periodic Alfvén Oscillations in Neutron Stars and the Numerical Solution of the MHD Equations*” (2010)
8. **P. Kalogeras** “*Theoretical and Numerical Study of the Baroclinic Instability*” (2010)

9. **G. Tantilian** “*Simulations of the Gravitational Field of a Nonrotating Neutron Star on GPU's*” (2010)
10. **P. Iosif** “*The CFC Approximation in Differentially and Uniformly Rotating Relativistic Stars*” (2011)
11. **E. Graikou** “*Timing of the Triple Pulsar System PSR J1623-2631 using TEMPO2*” (2013)
12. **K. Palapanidis** “*Equilibrium Models of Strongly Magnetized Neutron Stars*” (2014)
13. **Ch. Vourellis** “*Models of Self-Gravitating Tori around Black Holes with Non-Constant Specific Angular Momentum*” (2014)
14. **M. Andrea**, «Numerical models of magnetospheres for strongly magnetized neutron stars» (2016)

## 7.4 Supervision of B.Sc. Theses

I supervised the following B.Sc. Theses in the B.Sc. Program of the Department of Physics at AUTH:

1. **V. Paschalidis** “*Rapidly Rotating Neutron Star Models*” (2003) (continued with fellowship at the [University of Chicago](#))
2. **V. Tziampazlis** “*Observational Relativistic Phenomena in Compact Stars*” (continued in the M.Sc. Program “Computational Physics”)
3. **N. Tsakiris** “*Numerical Relativity*” (2003) (continued in the M.Sc. Program “Computational Physics”)
4. **D. Voukantzis** “*Gravitational Radiation from Compact Stars*” (2004) (continued in the M.Sc. Program “Computational Physics”)
5. **P. Charitos** “*Equations of State for Neutron Stars*” (2005) (continued with fellowship at [Imperial College, London](#))
6. **Ch. Milea** “*Gravitational Radiation in Numerical Relativity*” (2005) (continued in the Ph.D. Program of the Department of Geology)
7. **K. Metallinos** “*High-Entropy Neutron Stars*” (2006) (continued with fellowship at [Tufts University](#))
8. **S. Ilonidis** “*Relativistic Simulations of Accretion onto Compact Stars*” (2006) (continued with fellowship at [Stanford University](#))
9. **D. Manolidis** “*Self-Consistent Equilibrium Models of Neutron Stars with Tori*” (2007) (continued with fellowship at [Washington University, St. Louis](#))
10. **K. Zagkouris** “*Axisymmetric Oscillations of Relativistic Stars with Realistic Equations of State*” (2007) (continued in the M.Sc. Program “Computational Physics”)
11. **K. Dionysopoulou** “*Charged-Particle Orbits near Magnetized Black Holes*” (2008) (continued with fellowship at [Max-Planck-Institute for Gravitational Physics, Potsdam](#))
12. **T. Athanasiadis** “*Study of Epicyclic Frequencies in Accretion Disks in Scalar-Tensor Theories of Gravity*” (2013)
13. **A. Eythymiadou** “*Models of Accretion Disks Around Black Holes with a Generalized Specific Angular Momentum Distribution*” (2013) (continued in the M.Sc. Program “Computational Physics”)
14. **G. Valogiannis** “*Equilibrium Models of Magnetized Accretion Disks around Rotating Black Holes*” (2014) (continued with fellowship at [Cornell University](#))
15. **M. Andrea** “*Equilibrium Models of Strongly Magnetized Neutron Stars with Realistic Equations of State*” (2014) (continued in the M.Sc. Program “Computational Physics”)
16. **G. Lioutas** “*Damping of Neutron Star Oscillations through Gravitational Wave Emission*” (2015) (continued with fellowship at [LMU Munich](#))



## 7.5 Publications for Academic Use

I have written complete series of lectures in the form of powerpoint presentations, which are freely available in the framework “Open Academic Lectures” from the website <http://opencourses.auth.gr> for the following courses:

- “Introduction to Astronomy” (2014)
- “Computer Programming and Computational Physics” (2016)
- “Numerical Analysis” (2014, with K. Kokkotas)
- “Astrophysics” (2014, with L. Vlachos)

I have written a complete series of lectures in the form of powerpoint presentations, which is available to students at AUTH (registered on <https://elearning.auth.gr/>), for the following course:

- “General Mathematics I (Calculus)” (2015)

## 7.6. Administrative Work - Participation in Committees

1. Member of the **General Assembly of the Department of Physics** (2000/01, 2001/02, 2003/04, 2005/06, 2008/9, 2009/10, 2011/12, 2014/15, 2015/16).
2. **Director of the Section of Astrophysics, Astronomy and Mechanics** (2013/14, 2015/16).
3. **Coordinator of the Internal Evaluation Committee (OMEA)** in the Department of Physics (2015/16).
4. **Chairman of the Committee for the Website** of the Department of Physics (2006 - 2010).
5. Member of the **Seminar Committee** of the Department of Physics (2001 - 2010).
6. Member of the **Examination Committee for the entrance exams** in the M.Sc. Program “Computational Physics” (2007 - 2009).
7. Member of the **Erasmus Mundus Committee** of the Department of Physics (2004 - 2010).
8. Member of the **Committee for Welcoming 1st Year Students** of the Department of Physics (2005 - 2013).
9. Member of the **Committee for the Year of Physics 2005** of the Department of Physics (2005).
10. Member of the **Committee for the Celebration of 80 Years of Physics Department** (2008).
11. Organizer of the **Seminars in the Section of Astrophysics, Astronomy and Mechanics** (2000 - 2005 and 2009 - present).
12. Maintenance of the **Website of the Section of Astrophysics, Astronomy and Mechanics** (2000 - present).
13. Participation in the **EPEAK proposal for the restructuring of the undergraduate program** of the Department of Physics (2002).

## 8. Research Activities

## 8.1 Research Topics

Since 1993 I have worked on the following topics in **General Relativity**:

1. **Equilibrium models of rotating relativistic stars** [B-1, B-2, B-4, B-5, B-9, B-18, B-23, B-25, B-39, B-49, B-55]
2. **Instabilities and evolution of relativistic stars and astrophysics consequences** [B-3, B-6, B-7, B-8, B-11, B-13, B-14, B-20, B-21, B-22, B-27, B-28, B-32, B-35, B-40, C-2]
3. **Nonlinear oscillations of relativistic stars** [B-10, B-15, B-26, B-29, B-31, C-1]
4. **Magnetized stars and magnetohydrodynamical oscillations** [B-16, B-17, B-30, B-33, B-34, B-36, B-43, B-45, B-47, B-52, B-58, C-4]
5. **Numerical relativity** [B-12, B-19]
6. **Relativistic accretion disks** [B-24, B-37, B-38, B-46, B-50, B-56, B-59, C3]
7. **Scientific guidance for the design of new experimental facilities for the observation of relativistic astrophysical processes** [B-42, B-44]
8. **Rotating stars in extended theories of gravity** [B-48, B-53]
9. **Constraining the neutron star equation of state through gravitational waves** [B-41, B-51, B-54, B-57, B-60, C5]

My research began with the study of equilibrium models of relativistic stars, which I extended to the study of their oscillations, the emission of gravitational waves, the properties of strange stars, the evolution of binary systems, the influence of the equation of state on the evolution of pulsars and the simulation of relativistic stars with the methods of numerical relativity. In recent years, I focus on the study of nonlinear oscillations in rotating neutron stars, on the study of magnetohydrodynamic oscillations in strongly magnetized relativistic stars, on the construction of self-consistent models of accretion disks around black holes, on the study of accretion disk instabilities, on the study of the structure of rotating stars in extended theories of gravity and on constraining the neutron star equation of state through gravitational waves. I also participated in the science working group of a proposal for a new X-ray space telescope (LOFT) and I am a member of the CTA team at AUTH.

My research group was evaluated twice with a very high grade in proposals for Marie-Curie Post-Doctoral Fellowships submitted to the European Commission and in this way H. Dimmelmeier (2007-2008) and A. Bauswein (2013-2015) joined my group. In addition, the gravitational wave experiment VIRGO funded one of my Ph.D. students for two years with a full fellowship. Furthermore, my research was funded by five bilateral grants by GSRT or IKY-DAAD, while my group participated in five European Research Networks.

In May of 2015 I organized in Thessaloniki an international workshop on Binary Neutron Star Mergers for which I received funding from the VIRGO experiment, the COST network CompStar and the JINA-CEE institute.

During the next years, I intend to continue my close collaboration with Andreas Bauswein (who is now in Heidelberg) through the new IKY-DAAD grant that just started as well as to strengthen my collaboration with James Clark (Georgia-Tech/LIGO) and the INFN Pisa group on the data analysis for the Advanced LIGO/VIRGO detectors. My long-term collaboration with Toni Font (Valencia) and Michael Gabler (Garching) will continue (through, also, my participation in the scientific proposal for the new XIPE space telescope) and the same holds for my long-term collaboration with the research group in Tuebingen.

I will try to attract new post-doctoral researchers through Marie-Curie Fellowships as well as for my group to participate in new European networks and proposals for future detectors. Finally, with the onset of the era of gravitational wave astronomy, I expect that in the coming years the new observations will pose plenty of new questions that will need to be answered through numerical relativity simulations.

## 8.2 Talks/Lectures

### 8.2.1 Invited lectures at Summer/Winter Schools for graduate students

1. SFB School on Compact Objects, Potsdam (2004)
2. 4<sup>th</sup> Aegean Summer School on Black Holes, Mytilene (2007)
3. 44<sup>th</sup> Karpacz Winter School on Theoretical Physics “The Complex Physics of Compact Stars”, Ladek Zdroj (2008)
4. COMPSTAR 2011 School “Gravitational Waves and Electromagnetic Radiation from Compact Stars”, Catania (2011)
5. VESF School on “Gravitational Waves, Neutrinos and Multiwavelength E.M. Observations: the New Frontier of Astronomy”, Rome (2013)
6. 1<sup>st</sup> GRAWITON School, GW Initial Training Network, Pisa (2015)
7. 8<sup>th</sup> Aegean Summer School: Gravitational Waves, from Theory to Observations, Rethymno (2015)

### 8.2.2 Invited talks at conferences

1. *Workshop on Linear Perturbations in Rotating and Collapsing Stars*, Potsdam, 1998
2. *Joint European and National Astronomical Meeting JENAM'99*, Toulouse, 1999 (review)
3. *Joint European and National Astronomical Meeting JENAM'01*, Garching, 2001
4. *Workshop on Gravitational-Wave Sources*, Penn-State, HPA, 2002 (review)
5. *Workshop on High-Frequency Gravitational Waves*, Trieste, 2002,
6. *SFB Workshop on Rotating Relativistic Stars*, Jena, 2003, (review)
7. *6<sup>th</sup> Conference of the Hellenic Astronomical Society*, Athens, 2003 (main session invited talk)
8. *1<sup>st</sup> Virgo-Ego Scientific Forum*, Pisa, 2004 (review)
9. *“Albert Einstein Century” International Conference*, Paris, 2005 (review)
10. *GWADW-VESF Conference*, Isola d'Elba, 2006 (review)
11. *11<sup>th</sup> Marcel Grossmann Meeting on General Relativity*, Berlin, 2006 (review)
12. *The Schutz Symposium on Gravitational Waves and Relativistic Astrophysics*, Santorini, 2006 (review talk)
13. *6<sup>th</sup> International Workshop on “New Worlds in Astroparticle Physics”*, Faro, 2007 (review)
14. *ENTApP-GWA joint meeting “Gravitational Wave Sources and Observation”*, Tuebingen, 2007 (review)

15. “Numerical Modeling of Astrophysical Sources of Gravitational Radiation”, Valencia, 2008 (review)
16. “SFB Colloquium on Reinhard Meinel’s 50<sup>th</sup> Birthday”, Jena, 2008 (review)
17. 12<sup>th</sup> Marcel Grossmann Meeting on General Relativity, Paris, 2009 (review)
18. 2<sup>nd</sup> Workshop on Numerical Simulations in Relativistic Astrophysics (CoCoNuT Meeting), Valencia, 2009
19. COMPSTAR 2011 Workshop “Gravitational Waves and Electromagnetic Radiation from Compact Stars”, Catania, 2011 (review)
20. 10<sup>o</sup> Conference of the Hellenic Astronomical Society, Ioannina, 2011 (main session invited talk)
21. 6<sup>th</sup> International Conference on Numerical Modeling of Space Plasma Flows (ASTRONUM-2011), Valencia, 2011
22. 4<sup>th</sup> Coconut Code Meeting, Paris, 2011
23. COMPSTAR Conference, Tahiti, 2012 (plenary)
24. International Workshop Neutron Stars: Nuclear Physics, Gravitational Waves and Astronomy, Guildford, Surrey, 2013 (plenary)
25. GWA 2014 Workshop on Gravitational Wave Astronomy, Jena, 2014 (plenary)
26. INT Workshop Binary Neutron Star Coalescence as a Fundamental Physics Laboratory, Seattle, 2014 (plenary)
27. ERE2014, Spanish Relativity Meeting, Valencia, 2014 (plenary)
28. General Relativity & Gravitation, A Centennial Perspective, Penn State, 2015 (plenary)
29. Workshop on Aspects of Fluid/Gravity Correspondence, Thessaloniki, 2015 (review)
30. HEP2016 Conference in High Energy Physics and Cosmology, Thessaloniki, 2016 (plenary)
31. MODE-SNR-PWN Workshop Pulsars and their environments, Paris, 2016 (plenary)

### 8.2.3 Invited seminars at universities and research institutes

1. Observatoire de Paris, Meudon, March 1998
2. Universitaet Tuebingen, April 1998
3. Max-Planck-Institut fuer Astrophysik, Garching, January 1999
4. University of Wisconsin-Milwaukee, March 1999
5. University of Southampton, June 1999
6. Nicolaus Copernicus Astronomical Center, Warsaw, June 2000
7. University of Rome, January 2001
8. SISSA, Trieste, January 2001
9. SISSA, Trieste, November 2001
10. Universitaet Tuebingen, July 2004
11. University of Kyoto, February 2005
12. Louisiana State University, February 2007
13. University of Parma, March 2007
14. University of Wisconsin-Milwaukee, September 2007
15. ΚΕΑΕΜ, Ακαδημία Αθηνών, Σεπτέμβριος 2007
16. Max-Planck-Institut fuer Astrophysik, Garching, July 2008
17. Max-Planck-Institut fuer Gravitationsphysik, Hannover, March 2009
18. Polish Academy of Sciences, Warsaw, June 2009
19. University of Tuebingen, July 2010
20. Nicolaus Copernicus Astronomical Center, Warsaw, September 2011
21. University of Valencia, February 2012
22. ΚΕΑΕΜ, Ακαδημία Αθηνών, May 2012
23. Max-Planck-Institut fuer Gravitationsphysik, Potsdam, April 2012
24. Nicolaus Copernicus Astronomical Center, February 2013

25. University of Tuebingen, August 2013
26. University of Wisconsin-Milwaukee, July 2014
27. Stockholm University, April 2015
28. Γενικό Σεμινάριο Τμήματος Φυσικής ΑΠΘ, March 2016
29. University of Nottingham, April 2016

## 8.3 Contributed talks at conferences

### 8.3.1 At conferences outside Greece

1. *4<sup>th</sup> Midwest Relativity Meeting*, St. Louis, 1994
2. *14<sup>th</sup> International Conference on General Relativity and Gravitation*, Florence, 1995
3. *5<sup>th</sup> Midwest Relativity Meeting*, Milwaukee, ΗΠΑ, 1995
4. *19<sup>th</sup> Texas Symposium on Relativistic Astrophysics*, Paris, 1998
5. *NASA Neutron Star Grand Challenge meeting*, St. Louis, 1999
6. *9<sup>th</sup> Marcel Grossman Meeting*, Rome, 2000
7. *1<sup>st</sup> European Network Relativistic Hydrodynamics Workshop*, Potsdam, 2001
8. *4<sup>th</sup> Meeting of EU Network on Sources of Gravitational Waves*, Palma, 2002
9. *Sources of Gravitational Waves, EU Network Conference*, ICTP Trieste, 2003
10. *ENTApP 2005 Conference*, Valencia, 2005
11. *Workshop on General-Relativistic Hydrodynamics*, Potsdam, 2005
12. *ENTApP-GWA Joint Meeting*, Paris, 2006
13. *Magnetic Oscillations Workshop*, Tuebingen, 2007
14. *1<sup>st</sup> Workshop on Numerical Simulations in Relativistic Astrophysics (CoCoNuT Meeting)*, Garching, 2008
15. *1<sup>st</sup> LOFT Science Meeting*, Amsterdam, 2011

### 8.3.2 At conferences in Greece

1. *7<sup>th</sup> Conference Recent Developments in Gravity*, Athens, 1996
2. *Joint European and National Astronomical Meeting (JENAM'97) and 3<sup>rd</sup> Hellenic Astronomical Society Conference*, Thessaloniki, 1997
3. *8<sup>th</sup> Conference Recent Developments in Gravity*, Samos, 1998
4. *Current Issues of Astronomical and Planetary Environmental Concern*, Thessaloniki, 1998
5. *4<sup>th</sup> Hellenic Astronomical Society Conference*, Samos, 1999
6. *9<sup>th</sup> Conference Recent Developments in Gravity*, Ioannina, 2000
7. *Applied Differential Geometry, Lie Algebras and General Relativity*, Thessaloniki, 2000
8. *Applied Differential Geometry, Lie Algebras and General Relativity*, Thessaloniki, 2001
9. *5<sup>th</sup> Hellenic Astronomical Society Conference*, Crete, 2001
10. *2<sup>nd</sup> Meeting of EU Network on Sources of Gravitational Waves*, Chalkidiki, 2001
11. *10<sup>th</sup> Conference Recent Developments in Gravity*, Chalkidiki, 2002
12. *11<sup>th</sup> Conference Recent Developments in Gravity*, Mitilene, 2004
13. *1<sup>st</sup> Workshop on Relativistic Plasma Physics*, Thessaloniki, 2004
14. *Cosmology and Gravitational Physics*, Thessaloniki, 2005
15. *12<sup>th</sup> Conference Recent Developments in Gravity*, Nauplio, 2006
16. *8<sup>th</sup> Hellenic Astronomical Society Conference*, Thassos, 2007
17. *9<sup>th</sup> Hellenic Astronomical Society Conference*, Athens, 2009
18. *14<sup>th</sup> Conference Recent Developments in Gravity*, Ioannina, 2010
19. *1<sup>st</sup> Workshop HellasHPC*, Thessaloniki, 2010

20. *15<sup>th</sup> Conference Recent Developments in Gravity*, Chania, 2012
21. *Workshop of the Excellence Network on Magnetic Fields in Astrophysics*, Academy of Athens, 2013

## 8.4 Public Outreach talks

1. *“Black Holes and Gravitational Waves - A New Era in Astronomy”*, Thessaloniki Astronomy Club, April 2002
2. *“The Universe in X-rays”*, Thessaloniki Astronomy Club, March 2003
3. *“Astrophysics with Supercomputers”*, Open Days, Year of Physics 2005 at the Department of Physics, AUTH, October 2005
4. *“Black Holes and Gravitational Waves - A New Era in Astronomy”*, Astronomy and Space Society of Volos, March 2006
5. *“The Universe in X-rays”*, Cultural Center of Naoussa, April 2006
6. *«General Relativity: from Mathematics to Astrophysics»*, Mathematical Society of Trikala, May 2007
7. *“Recent Developments in Computational Astrophysics”*, Open Night of the Astronomy Laboratory at AUTH, June 2007
8. *“The Relative Time”*, *Neutrino Student Group at the Department of Physics, AUTH*, May 2008
9. *“Space Telescopes”*, Thessaloniki Astronomy Club, January 2009
10. *“Space Telescopes”*, Cultural Center Evosmos, April 2009
11. *“Space Telescopes”*, Cultural Center Vafopouleio, October 2009
12. *“General Relativity and Modern Applications”* Thessaloniki Astronomy Club, November 2009
13. *“Αστέρες Νετρονίων”*, Open Night of the Astronomy Laboratory at AUTH, May 2010
14. *“Relativity Today”*, 12<sup>th</sup> Summer School of the Astronomy and Space Society of Volos, July 2011
15. *“Theory of Relativity: Historical Development and Modern Experiments”*, Cultural Center of Naoussa, March 2012
16. *“Studies in Physics”*, Anatolia College, Θεσσαλονίκη, March 2012
17. *“Astronomy in the Age of Space Telescopes”*, Open Night of the Astronomy Laboratory at AUTH, March 2013
18. *“Astronomy in the Age of Space Telescopes”*, 1o Lyceum of Trikala, Μάρτιος 2013
19. *“Do Black Holes Exist?”*, Open Night of the Astronomy Laboratory at AUTH, February 2014
20. *“Gravitational Waves”*, Union of Greek Physicists (Macedonia Chapter), Cultural Center of Toumba, April 2014
21. *“Listening to the Universe with Gravitational Waves”*, AHEPA Tacoma, WA, July 2014
22. *“The Waves of Gravity”*, Thessaloniki Astronomy Club, January 2015
23. *“Exploring the Universe with Gravitational Waves”*, Cultural Center of Naoussa, November 2015
24. *“100 Years General Theory of Relativity”*, Union of Greek Physicists (Macedonia Chapter), Cultural Center of Toumba, May 2015
25. *“Exploring the Universe with Gravitational Waves”*, Mantoulidis School, Thessaloniki, April 2016
26. *“Exploring the Universe with the Waves of Gravity”*, Olympian Center for Astrophysics, Katerini, May 2016
27. *«Black Holes and Gravitational Waves»*, 2nd Lyceum of Katerini, December 2016

The presentations of recent public talks are available on my personal website.

## 8.5 Participation in Scientific Societies

### 8.5.1 Involvement in the Administration

- *Elected member* (two terms) on the *Executive Board* of the **Virg-Ego Scientific Forum (VESF)** (2012 - present).
- **Secretary** of the *Governing Council* of the **Hellenic Society on Relativity, Gravitation and Cosmology** (2012 - present).
- *Elected member* on the *Governing Council* of the **Hellenic Society on Relativity, Gravitation and Cosmology** (2012 - 2014).
- *Elected member* on the *Governing Council* of the **Hellenic Astronomical Society** (2008 - 2010).
- *Elected auditor* of the **Hellenic Astronomical Society** (2000-2002, 2004-2006).
- *Elected auditor* of the **Hellenic Society on Relativity, Gravitation and Cosmology** (2010 - 2012).
- *Member* of the international selection committee for the “**Basilis Xanthopoulos International Award for Research in Gravitational Physics**” (2010)

### 8.5.2 Member

- Hellenic Society on Relativity, Gravitation and Cosmology (founding member since 2010)
- Hellenic Astronomical Society (since 2000)
- International Astronomical Union (since 2012)
- Gravitational Physics Section of the European Physical Society (affiliate member, since 2000)

## 8.6 Funding of Research Activities

I have been funded for research visits, lectures or research from the following institutions:

- NSF - National Science Foundation (1991-1995, 1999, 2001, 2002)
- Max-Planck-Society (1998, 2001)
- NASA (1998-1999)
- European Commission (2000-2003, 2007-2008, 2013-2015)
- NATO (2001)
- GSRT - Greek Secretariat for Research and Technology (2001-2003, 2005-2007)
- INFN - Italian National Institute for Research in Nuclear Physics (2001, 2002)
- KBN - Polish State Committee for Scientific Research (2001, 2002, 2011)

- Greek Ministry of Education (2004-2007)
- IKY - Greek State Scholarships Foundation (2006-2008, 2012)
- ESF - European Science Foundation (2008-2012)
- AUTH Research Council (2012)
- European Gravitational Observatory (2013-2014)
- COST (2013 - 2016)
- DAAD (2016)

## 8.7 Research Grants

I was the **Principal Investigator** in the following research grants:

1. **General Secretariat of Research and Technology, Bilateral grant with Poland** “*Computational Physics of Compact Sources of Gravitational Radiation*” 20.000€ (2001-2003)
2. **General Secretariat of Research and Technology, Bilateral grant with Spain** “*Computational Tools for the Simulation of Phenomena in Relativistic Magneto-Hydrodynamics*” 20.000€ (2005-2007)
3. **State Scholarships Foundation (IKY), Bilateral IKYDA program (IKY-DAAD) with Germany** “*Simulations of Neutron Stars as Sources of Gravitational Waves*” 30.000€ (2006-2008)
4. **Marie-Curie Intra-European Fellowship** “*Realistic Supercomputer Simulations for Gravitational Wave Asteroseismology*” 100.000€ (2007-2008)
5. **State Scholarships Foundation (IKY), Bilateral IKYDA program (IKY-DAAD) with Germany** “*Multimessenger Asteroseismology of Relativistic Stars*” 20.000€ (2012)
6. **Research Committee of the AUTH Excellence Grant** “*Theoretical Study of Mass-Accretion onto Rotating Black Holes*” 4.000€ (2012)
7. **VESF Fellowship** “*Gravitational-Wave Asteroseismology for Binary Neutron Star Mergers*” 50.000€ (2013-2014)
8. **Marie-Curie Intra-European Fellowship** “*Equation of State Dependence of Neutron Star Mergers*” 165.000€ (2013-2015)
9. **State Scholarships Foundation (IKY), Bilateral IKYDA program (IKY-DAAD) with Germany** “*Modeling of Neutron Star Merger Remnants*” 4.000€ (2016)
10. **DAAD Academic Collaboration Greece-Germany** “*Neutron Stars in the Era of Gravitational Wave Astronomy*” 120.000€ (2017-19), co-P.I. with K. Kokkotas (University of Tuebingen)

I was the **National Representative** and **member of the Executive Committee** in the following European Research Networks:

1. **ESF** “*The New Physics of Compact Stars*” (2008-20012)
2. **COST** “*Exploring Fundamental Physics with Compact Stars (NewCompStar)*” (2013-2016)



I participated in the following research grants:

1. NASA “Neutron Star Merger Grand Challenge Project” (1998-1999) P.I. E. Seidel, W.-M. Suen
2. European Union Research and Training Network “Sources of Gravitational Waves” (2000-2003) P.I. E. Seidel - project coordinator, K. Kokkotas - local coordinator
3. NSF Supercomputing Grant “Numerical Relativity and Black Hole Mergers” (2001) P.I. E. Seidel
4. KBN Polish State Committee for Scientific Research “Astrophysics of Rotating Stars in General Relativity” (2001-2003) P.I. D. Gondek-Rosinska
5. Greek Ministry of Education HERAKLEITOS grant “Rotating Relativistic Stars” (2004-2006) P.I. K. Kokkotas
6. Greek Ministry of Education PYTHAGORAS grant “Large-Scale Simulations of Gravitating Astrophysical Systems” (2004-2007) P.I. Ch. Varvoglis
7. Greek Ministry of Education PYTHAGORAS II grant “Computational Physics of Magnetized Sources of Gravitational Radiation” (2005-2008) P.I. K. Kokkotas
8. ILIAS - “Integrated Large Infrastructures for Astroparticle Science” ENTApP Network-WG3 (2005-2010) coordinator K. Kokkotas
9. CTA (Cherenkov Telescope Array) Design Study (2010-2011) AUTH coordinator: A. Liolios
10. KBN Polish State Committee for Scientific Research “Neutron Stars and Black Holes as Sources of Gravitational Waves” (2010-2013) P.I. D. Gondek-Rosinska

## 8.8 Organization of Conferences

Chair of the Organizing Committee:

1. 13<sup>o</sup> Conference on Recent Developments in Gravity, Thessaloniki, 2008
2. Workshop on Binary Neutron Star Mergers, Thessaloniki, 2015

Member of the Scientific, Organizing or Local Committee:

1. 5<sup>th</sup> Midwest Relativity Meeting, Milwaukee, 1995
2. Applied Differential Geometry, Lie Algebras and General Relativity, Thessaloniki, 2000
3. 2<sup>nd</sup> Meeting of EU Network on Sources of Gravitational Waves, Chalkidiki, 2001
4. Applied Differential Geometry, Lie Algebras and General Relativity, Thessaloniki, 2001
5. 10<sup>th</sup> Conference on Recent Developments in Gravity, Chalkidiki, 2002
6. Conference on Sources of Gravitational Waves, Trieste, 2003
7. 11<sup>th</sup> Conference on Recent Developments in Gravity, Mytilene, 2004
8. Cosmology and Gravitational Physics, Thessaloniki, 2005

9. *Ημέρες Εργαστηρίου Αστρονομίας ΑΠΘ*, Thessaloniki, 2007
10. *Extreme Solar Systems*, Santorini, 2007
11. 3<sup>rd</sup> NSDN Meeting *Neutron Stars as Gravitational Wave Sources*, Rome, 2009
12. 9<sup>th</sup> *Conference of the Hellenic Astronomical Society*, Athens, 2009
13. 14<sup>th</sup> *Conference on Recent Developments in Gravity*, Ioannina, 2010
14. 11<sup>th</sup> *Conference of the Hellenic Astronomical Society*, Athens, 2013
15. 16<sup>th</sup> *Conference on Recent Developments in Gravity*, Mykonos, 2014
16. 17<sup>th</sup> *Conference on Recent Developments in Gravity*, Mykonos, 2016
17. *Annual NewCompStar Conference*, Constantinople (Istanbul), 2016

## 8.9 Referee in Journals / Research Proposals / Book Proposals

I am a referee for the following scientific journals:

- *Astronomy & Astrophysics*
- *Astrophysical Journal*
- *Astrophysics and Space Science*
- *Classical and Quantum Gravity*
- *Physical Review D*
- *Physical Review Letters*
- *Monthly Notices of the Royal Astronomical Society*

I am a referee for **research proposals** submitted to ESA, NSF, the Polish KBN, the European network of supercomputing centers PRACE and the Greek General Secretariat for Research and Technology (GSRT).

I am a referee of **book proposals** for Cambridge University Press.

## 8.10 Editor in Journals

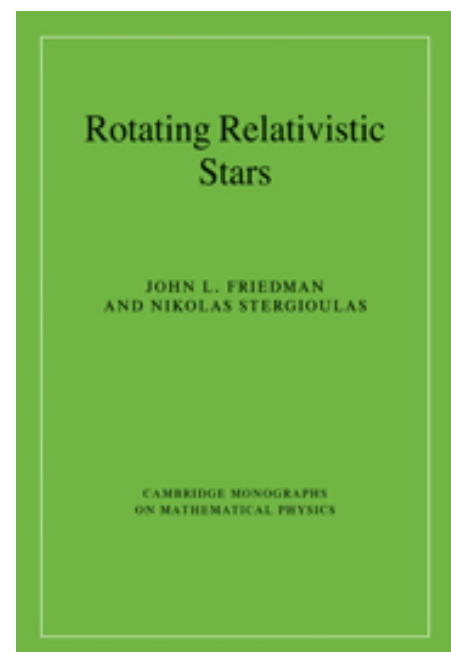
I am an **Associate Editor** for the refereed journal **General Relativity and Gravitation** (Springer).

I am an editorial advisor for HIPPARCHOS (Newsletter of the Hellenic Astronomical Society).

## 9. Publications

### 9.1 Ph.D. Thesis - Books

- A-1 **Stergioulas, N.**, The Structure and Stability of Rotating Relativistic Stars, *PhD Thesis, University of Wisconsin-Milwaukee*, (1996)
- A-2 **Friedman, J. L. & Stergioulas, N.**,  
Rotating Relativistic Stars,  
*Cambridge Monographs on Mathematical Physics*,



Cambridge University Press (2013)

429 pages

ISBN-13: 9780521872546

## 9.2 Original publications in refereed journals

- B-1 [Stergioulas, N.](#), & Friedman, J. L., Comparing Models of Rapidly Rotating Stars Constructed by Two Numerical Methods, *Astrophysical Journal*, **444**, 306 (1995)
- B-2 Koranda, S., [Stergioulas, N.](#), & Friedman, J. L., Upper Limit Set by Causality on the Rotation and Mass of Uniformly Rotating Relativistic Stars, *Astrophysical Journal*, **488**, 799 (1997)
- B-3 [Stergioulas, N.](#) & Friedman, J. L., Nonaxisymmetric Neutral Modes of Rotating Relativistic Stars, *Astrophysical Journal*, **492**, 301 (1998)
- B-4 [Stergioulas, N.](#), Rotating Stars in Relativity, *Living Reviews in Relativity*, **1**, 8 (1998)
- B-5 Nozawa, T., [Stergioulas, N.](#), Gourgoulhon, E., & Eriguchi, Y., Construction of Highly Accurate Models of Rotating Neutron Stars - Comparison of Three Different Numerical Schemes, *Astronomy & Astrophysics Suppl.*, **132**, 431 (1998)
- B-6 Morsink, S., [Stergioulas, N.](#) & Blattig, S. R., Quasi-normal Modes of Rotating Relativistic Stars - Neutral Modes for Realistic Equations of State, *Astrophysical Journal*, **510**, 854 (1999)
- B-7 Kokkotas, K., & [Stergioulas, N.](#), Analytic Description of the r-Mode Instability in Uniform Density Stars, *Astronomy & Astrophysics*, **341**, 110 (1999)
- B-8 Andersson, N., Kokkotas, K., & [Stergioulas, N.](#), On the Relevance of the r-Mode Instability for Accreting Neutron Stars and White Dwarfs, *Astrophysical Journal*, **516**, 307 (1999)
- B-9 [Stergioulas, N.](#), Kluzniak, W. & Bulik, T., Keplerian Frequencies and Innermost Stable Circular Orbits of Rapidly Rotating Strange Stars, *Astronomy & Astrophysics (Letter)*, **352**, 116 (1999)
- B-10 Font, J. A., [Stergioulas, N.](#) & Kokkotas, K. D., Nonlinear Hydrodynamical Evolution of Rotating Relativistic Stars: Numerical Methods and Code Tests, *Monthly Notices of the Royal Astronomical Society*, **313**, 678 (2000)
- B-11 Andersson, N., Jones, D. I., Kokkotas, K. D. & [Stergioulas, N.](#), R-mode Runaway and Rapidly Rotating Neutron Stars, *Astrophysical Journal (Letter)*, **534**, 75 (2000)

- B-12 Alcubierre, M., Bruegmann, B., Dramlitsch, T., Font, J. A., Papadopoulos, P., Seidel, E., Stergioulas, N. & Takahashi, R., Towards a Stable Numerical Evolution of Strongly Gravitating Systems in General Relativity: The Conformal Treatments, *Physical Review D*, **62**, 044034 (2000)
- B-13 Stergioulas, N. & Font, J. A., Nonlinear r-Modes in Rapidly Rotating Relativistic Stars, *Physical Review Letters*, **86**, 1148 (2001)
- B-14 Spyrou, N. K. & Stergioulas, N., Evolutionary Self-Energy-Loss Effects in Compact Binary Systems: Importance of Rapid Rotation and of Equation of State, *Astronomy & Astrophysics*, **366**, 598 (2001)
- B-15 Font, J. A., Dimmelmeier, H., Gupta, A. & Stergioulas, N., Axisymmetric Modes of Rotating Relativistic Stars in the Cowling Approximation, *Monthly Notices of the Royal Astronomical Society*, **325**, 1463 (2001)
- B-16 Messios, N., Papadopoulos, D. B. & Stergioulas, N., Torsional Oscillations of Magnetized Relativistic Stars, *Monthly Notices of the Royal Astronomical Society*, **328**, 1161 (2001)
- B-17 Papadopoulos, D. B., Stergioulas, N., Vlahos, L. & Kuijpers, J., Fast Magnetosonic Waves Driven by Gravitational Waves, *Astronomy & Astrophysics*, **377**, 701 (2001)
- B-18 Gondek-Rosinska, D., Stergioulas, N., Bulik, T., Kluzniak, W. & Gourgoulhon, E., Lower Limits on the Maximum Orbital Frequency Around Rotating Strange Stars, *Astronomy & Astrophysics*, **380**, 190 (2001)
- B-19 Font, J. A., Goodale, T., Iyer, S., Miller, M., Rezzolla, L., Seidel, E., Stergioulas, N., Suen, W. & Tobias, M., Three-Dimensional General Relativistic Hydrodynamics II: Long-Term Dynamics of Single Relativistic Stars, *Physical Review D*, **65**, 084024 (2002)
- B-20 Jones, D. I., Andersson, N. & Stergioulas, N., Time Evolution of the Linear Perturbations of a Rotating Newtonian Polytrope, *Monthly Notices of the Royal Astronomical Society*, **334**, 933 (2002)
- B-21 Gressman, P., Lin, L.M., Suen, W.-M., Stergioulas, N. & Friedman, J.L. Nonlinear r-Modes in Neutron Stars: Instability of an Unstable Mode, *Phys. Rev. D*, **66**, 041303(R) (2002)
- B-22 Spyrou, N. & Stergioulas, N. Spin-down of Relativistic Stars with Phase Transitions and PSR J0537-6910, *Astronomy & Astrophysics*, **395**, 151 (2002)
- B-23 Stergioulas, N., Rotating Stars in Relativity, *Living Reviews in Relativity*, **6**, 3 (2003)
- B-24 Kluzniak, W., Abramowicz, M. A., Kato, S., Lee, W. H. & Stergioulas, N., Non-linear Resonance in the Accretion Disk of a Millisecond Pulsar, *Astrophysical Journal (Letter)*, **603**, L89 (2004)
- B-25 Berti, E. & Stergioulas, N., Approximate Matching of Analytic and Numerical Solutions for Rapidly Rotating Neutron Stars, *Monthly Notices of the Royal Astronomical Society*, **350**, 1416 (2004)

- B-26 **Stergioulas, N.**, Apostolatos, T. A. & Font, J. A., Nonlinear Pulsations in Differentially Rotating Neutron Stars: Mass-Shedding-Induced Damping and Splitting of the Fundamental Mode, *Monthly Notices of the Royal Astronomical Society*, **352**, 1089 (2004)
- B-27 Baiotti, L., Hawke, I., Montero, P. J., Loeffler, F., Rezzolla, L., **Stergioulas, N.**, Font, J. A. & Seidel, E., Three-Dimensional Relativistic Simulations of Rotating Neutron Star Collapse to a Kerr Black Hole, *Physical Review D*, **71**, 024035 (2005)
- B-28 Zink, B., **Stergioulas, N.**, Hawke, I., Ott, C.D., Schnetter, E. & Mueller, E., Formation of Supermassive Black Holes through Fragmentation of Toroidal Supermassive Stars, *Physical Review Letters*, **96**, 161101 (2006)
- B-29 Dimmelmeier, H., **Stergioulas, N.** & Font, J.A., Non-Linear Axisymmetric Pulsations of Rotating Relativistic Stars in the Conformal Flatness Approximation, *Monthly Notices of the Royal Astronomical Society*, **368**, 1609 (2006)
- B-30 Sotani, H., Kokkotas, K.D. & **Stergioulas, N.**, Torsional Oscillations of Relativistic Stars with Dipole Magnetic Fields, *Monthly Notices of the Royal Astronomical Society*, **375**, 261 (2007)
- B-31 Passamonti, A., **Stergioulas, N.** & Nagar, A., Gravitational Waves from Nonlinear Couplings of Radial and Polar Nonradial Modes in Relativistic Stars, *Physical Review D*, **75**, 084038 (2007)
- B-32 Zink, B., **Stergioulas, N.**, Hawke, I., Ott, C.D., Schnetter, E. & Mueller, E., Non-Axisymmetric Instability and Fragmentation of General Relativistic Quasi-Toroidal Stars, *Physical Review D*, **76**, 024029 (2007)
- B-33 Sotani, H., Kokkotas, K.D. & **Stergioulas, N.**, Alfvén Quasi-Periodic Oscillations in Magnetars, *Monthly Notices of the Royal Astronomical Society Letters*, **385**, L5-L9 (2008)
- B-34 Cerdá-Durán, P., **Stergioulas, N.** & Font, J. A., Alfvén QPOs in Magnetars in the Anelastic Approximation, *Monthly Notices of the Royal Astronomical Society*, **397**, 1607-1620 (2009)
- B-35 Zink, B., Korobkin, O., Schnetter, E. & **Stergioulas, N.**, On the Frequency Band of the f-Mode Instability, *Physical Review D*, **81**, 084055 (2010)
- B-36 Gabler, M., Cerdá-Durán, P., Font, J. A., Mueller, E. & **Stergioulas, N.**, Magneto-elastic Oscillations and the Damping of Crustal Shear Modes in Magnetars, *Monthly Notices of the Royal Astronomical Society Letters*, **410**, L37-L41 (2011)
- B-37 Korobkin, O., Abdikamalov, E. B., Schnetter, E., **Stergioulas, N.** & Zink, B. Stability of General-Relativistic Accretion Disks, *Physical Review D*, **83**, 043007 (2011)
- B-38 **Stergioulas, N.** An improved method for constructing models of self-gravitating tori around black holes, *International Journal of Modern Physics D*, **20**, 1251-1263 (2011)
- B-39 Birkl, R., **Stergioulas, N.**, & Mueller, E., Stationary, Axisymmetric Neutron Stars with Meridional Circulation in General Relativity, *Physical Review D*, **84**, 023003 (2011)
- B-40 Giacomazzo, B., Rezzolla, L. & **Stergioulas, N.**, Collapse of Differentially-Rotating Neutron Stars and Cosmic Censorship, *Physical Review D*, **84**, 024022 (2011)

- B-41 Stergioulas, N., Bauswein, A., Zagkouris, K. & Janka, H.-Th., Gravitational Waves and Non-Axisymmetric Oscillation Modes in mergers of Compact Object Binaries, *Monthly Notices of the Royal Astronomical Society*, **418**, 427-436 (2011)
- B-42 Actis, M., Agnetta, G., Aharonian, F., Akhperjanian, A., Aleksic, J., ..., Stergioulas, N., et al., Design concepts for the Cherenkov Telescope Array CTA: and advanced facility for ground-based high-energy gamma-ray astronomy, *Experimental Astronomy*, **32**, 193-316 (2011)
- B-43 Gabler, M., Cerdá-Durán, P., Stergioulas, N., Font, J. A. & Mueller, E. & , Magnetoelastic Oscillations of Neutron Stars with Dipolar Magnetic Fields, *Monthly Notices of the Royal Astronomical Society*, **421**, 2054-2078 (2012)
- B-44 Feroci M., Stella, L., van der Klis, M., Courvoisier, T. J.-L., Hernanz, M., ..., Stergioulas, N., et al., The Large Observatory for X-ray Timing (LOFT), *Experimental Astronomy*, **34**, 415-444 (2012)
- B-45 Gabler, M., Cerdá-Durán, P., Font, J. A., Mueller, E. & Stergioulas, N., Magneto-elastic oscillations of neutron stars: exploring different magnetic field configurations, *Monthly Notices of the Royal Astronomical Society*, **430**, 1811-1831 (2013)
- B-46 Korobkin, O., Abdikamalov, E. B., Stergioulas, N. , Schnetter, E., Zink, B., Rosswog, S., Ott, C. D., The runaway instability in general relativistic accretion discs, *Monthly Notices of the Royal Astronomical Society*, **431**, 349-354 (2013)
- B-47 Gabler, M., Cerdá-Durán, P., Stergioulas, N., Font, J. A., Mueller, E. & , Imprints of Superfluidity on Magnetoelastic Quasiperiodic Oscillations of Soft Gamma-Ray Repeaters, *Physical Review Letters*, **111**, 211102 (2013)
- B-48 Doneva, D., Yazadjiev, S., Stergioulas, N. , Kokkotas, K. D., Rapidly rotating neutron stars in scalar-tensor theories of gravity, *Physical Review D*, **88**, 084060 (2013)
- B-49 Doneva, D., Yazadjiev, S., Stergioulas, N. , Kokkotas, K. D., Breakdown of I-Love-Q Universality in Rapidly Rotating Relativistic Stars, *Astrophysical Journal Letters*, **781**, L6(2014)
- B-50 Gondek-Rosińska, D., Kluźniak, W., Stergioulas, N., Wiśniewicz, M., Epicyclic frequencies for rotating strange quark stars: Importance of stellar oblateness, *Physical Review D*, **89**, 104001 (2014)
- B-51 Bauswein, A., Stergioulas, N., Janka, H.-T., Revealing the high-density equation of state through binary neutron star mergers, *Physical Review D*, **90**, 023002 (2014)
- B-52 Gabler, M., Cerdá-Durán, P., Stergioulas, N., Font, J. A., Müller, E., Modulating the magnetosphere of magnetars by internal magneto-elastic oscillations, *Monthly Notices of the Royal Astronomical Society*, **443**, 1416-1424 (2014)
- B-53 Doneva, D., Yazadjiev, S., Stergioulas, N., Kokkotas, K. D., Athanasiadis, T. M., Orbital and epicyclic frequencies around rapidly rotating compact stars in scalar-tensor theories of gravity, *Physical Review D*, **90**, 044004 (2014)

- B-54 Clark, J., Bauswein, A., Cadonati, L., Janka, H.-T., Pankow, C., Stergioulas, N., Prospects for high frequency burst searches following binary neutron star coalescence with advanced gravitational wave detectors, *Physical Review D*, **90**, 062004 (2014)
- B-55 Iosif, P., Stergioulas, N., On the accuracy of the IWM-CFC approximation in differentially rotating relativistic stars, *General Relativity and Gravitation*, **46**, 1800 (2014)
- B-56 Papadopoulos, D. B., Contopoulos, I., Kokkotas, K. D., Stergioulas, N., Radiation from charged particles on eccentric orbits in a dipolar magnetic field around a Schwarzschild black hole, *General Relativity and Gravitation*, **47**, 49 (2015)
- B-57 Bauswein, A., Stergioulas, N., Unified picture of the post-merger dynamics and gravitational wave emission in neutron star mergers, *Physical Review D*, **91**, 124056 (2015)
- B-58 Palapanidis, K., Stergioulas, N., Lander, S. K., Magnetized neutron stars with superconducting cores: effect of entrainment, *Monthly Notices of the Royal Astronomical Society*, **452**, 3246-3255 (2015)
- B-59 Mewes, V., Font, J. A., Galeazzi, F., Montero, P. J., Stergioulas, N., Numerical relativity simulations of thick accretion disks around tilted Kerr black holes, *Physical Review D*, **93**, 064055 (2016)
- B-60 Clark, J., Bauswein, A., Stergioulas, N., Shoemaker, D., Observing gravitational waves from the post-merger phase of binary neutron star coalescence, *Classical and Quantum Gravity*, **33** 085003 (2016)
- B-61 Gabler, M., Cerdá-Durán, P., Stergioulas, N., Font, J. A., Müller, E., Coherent magneto-elastic oscillations in superfluid magnetars, *Monthly Notices of the Royal Astronomical Society*, **460**, 4242-4257 (2016)
- B-62 Mewes, V., Galeazzi, F., Font, J. A., Montero, P. J., Stergioulas, N., On the dynamics of tilted black hole-torus systems, *Monthly Notices of the Royal Astronomical Society*, **461**, 2480-2489 (2016)

### 9.3 Original publications in refereed conference proceedings

- C-1 Stergioulas, N., Kokkotas, K.D. & Hawke, I., W-Modes in Rotating Relativistic Stars, *AIP Conference Proceedings*, **848** 730 (2006)
- C-2 Kokkotas, K.D. & Stergioulas, N., Gravitational Waves from Compact Sources, in *New Worlds in Astroparticle Physics: Proceedings of the Fifth International Workshop held January 8-10, 2005, in Faro, Portugal*, p. 25-46, ed. A.M. Mourão et al., World Scientific (2006)
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- C-4 Gabler, M., Cerdá-Durán, P., Font, J. A., Stergioulas, N. & Mueller, E., Modulating magnetar emission by magneto-elastic oscillations, *Astronomische Nachrichten*, **335**, 240-245 (2014)

- C-5 **Bauswein, A., Stergioulas, N., Janka, H.-T.**, Exploring Properties of High-Density Matter through Remnants of Neutron Star Mergers, *European Physical Journal A*, **52**, id 56, 22 pages (2016)

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- D-2 **Stergioulas, N.**, Nonaxisymmetric Perturbations of Rotating Relativistic Stars, in *Abstracts of contributed papers to the 6<sup>th</sup> European and 3<sup>rd</sup> Hellenic Astronomical Society Conference*, Θεσσαλονίκη (1997)
- D-3 **Stergioulas, N., Font, J. A. & Kokkotas, K. D.**, General-Relativistic Hydrodynamical Simulations of Rotating and Pulsating Neutron Stars, in *Proceedings of the 4<sup>th</sup> Conference of the Hellenic Astronomical Society* (1999)
- D-4 **Stergioulas, N., Font, J. A. & Kokkotas, K. D.**, Nonlinear Evolution of Rotating Relativistic Stars, in *Proceedings of the 19<sup>th</sup> Texas Symposium on Relativistic Astrophysics*, Nucl. Phys. B Proc. Suppl. **80** 7 (2000)
- D-5 **Stergioulas, N. & Font, J. A.**, Nonlinear Evolution of r-Modes in Rotating Relativistic Stars, in *Highlights of Spanish Astrophysics II, Proceedings of the 4<sup>th</sup> Scientific Meeting of the Spanish Astronomical Society*, p. 185, eds. J. Zamorano et al., Kluwer publ. (2001)
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- D-7 **Stergioulas, N., Kokkotas, K.D., Andersson, N. & Jones, D. I.**, R-mode Runaway and Rapidly Rotating Neutron Stars, in *Proceedings of the 9<sup>th</sup> Marcel Grossman Meeting*, p. 2359, eds. V.G. Gurzadyan et al., World Scientific (2002)
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- D-35 Cerdá-Durán, P., Gabler, M., Mueller, E., Font, J. A., Stergioulas, N., Obergaulinger, M., Aloy, M. A., DeBrye, N., Cordero-Carrión, I. & Ibáñez, J. M., The CoCoNuT code: from neutron star oscillations to supernova explosions, in *Highlights of Spanish Astrophysics VII, Proceedings of the X Scientific Meeting of the Spanish Astronomical Society (SEA), held in Valencia, July 9 - 13, 2012*, Eds.: J.C. Guirado, L.M. Lara, V. Quilis, and J. Gorgas., pg. 940 (2013)
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- D-43 **Bauswein, Stergioulas, N., Janka, H.-T.**, Inferring neutron–star properties from gravitational–wave signals of binary mergers, *Proceedings of the “Compact Stars in the QCD Phase Diagram IV” conference*, Prerow, Sept. 26–30, 2014, arXiv:1503.08769 (2015)
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- D-46 **Stergioulas, N.**, Gravitational Waves: A new observational tool for understanding the nature of neutron stars, *Hipparchos*, **2**, 7-10 (2016)
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- E-1 **Kokkotas, K. D. & Stergioulas, N.**, eds. “*Recent Developments in Gravity*”, Proceedings of the 10<sup>th</sup> Hellenic Relativity Conference NEB-X, World Scientific Publ., Singapore (2003)
- E-2 **Spyrou, N.K., Stergioulas, N. & Tsagas, C.**, eds. “*Cosmology and Gravitational Physics*”, *Proceedings of the International Scientific Workshop in Thessaloniki, Dec. 15-16, 2006*, Ziti Press, Thessaloniki (2006)

- E-3 **Stergioulas, N.** & **Tsagas, C.**, eds. “*Recent Developments in Gravity*”, Proceedings of the 13<sup>th</sup> Hellenic Relativity Conference NEB-XIII, J. Phys., Conf. Ser., **189**, 011001 (2009)

## 9.6 Other publications

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- F-3 **Stergioulas, N.**, The Schutz Symposium on Gravitational Waves and Relativistic Astrophysics, *HIPPARCHOS*, Vol. 2, 2 (2007)
- F-4 **Stergioulas, N.**, Relativistic Hydrodynamics by Luciano Rezzolla and Olindo Zanotti, *Classical and Quantum Gravity*, **31**, 15 (2014) (**invited Book Review**)
- F-5 **Stergioulas, N.**, **Kokkotas, K.**, *The Waves of Gravity (in greek)*, BHMA Science, 4 lav. 2015
- F-6 **Kokkotas, K.**, **Stergioulas, N.**, *What Einstein Said (in greek)*, BHMA Science, 4 lav. 2015

## 9.7 Citations

I have a total of **2761** citations excluding self-citations (according to SPIRES). My Hirsch index is ***h=35 based on the total number of citations*** (the common definition) or ***h=32*** if self-citations are excluded (according to SPIRES).

