

KONSTANTINOS D. KOKKOTAS

Chair of Theoretical Astrophysics
Eberhard Karls University of Tübingen
Tübingen, Germany

CURRICULUM VITAE

March 2013

1 PERSONAL DATA

SURNAME : **Kokkotas**
NAME : **Kostas** (Konstantinos)
DATE OF BIRTH : 27/2/1959
PLACE OF BIRTH : Thessaloniki, Greece
NATIONALITY : Greek
WORK ADDRESS : Theoretical Astrophysics (TAT)
Institute for Astronomy and Astrophysics (IAAT)
Eberhard Karls University of Tübingen
Auf der Morgenstelle 10, 72076 Tübingen, Germany
Tel: +49-7071-29-77685 Fax: +49-7071-29-5889
E-mail: kostas.kokkotas@uni-tuebingen.de
<http://www.tat.physik.uni-tuebingen.de/~kokkotas>

2 DEGREES

- **Bachelor in Mathematics**, Aristotle University of Thessaloniki, 1981
- **Master of Science**, Department of Applied Mathematics and Astronomy, University of Wales, 1985.
- **PhD in Physics**, Department of Physics, Aristotle University of Thessaloniki, 1988.

3 RESEARCH APPOINTEMENTS

- **Lecturer**, Department of Physics, AUTH, (August 1990 - April 1994).
- **Assistant Professor**, Department of Physics, AUTH, (April 1994 - November 1999).
- **Associate Professor**, Department of Physics, AUTH, (November 1999 – June 2007).
- **Professor**, Department of Physics, AUTH, (June 2007).
- **Professor**, Theoretical Astrophysics, Eberhard Karls University Tuebingen (EKUT), Germany (April 2006)
- **Adjunct Professor**, Department of Physics, Georgia Institute of Technology, USA (since October 2010)

4 TEACHING & MENTORING

4.1 Courses

- **Calculus I** (AUTH)
- **Introduction to General Relativity** (AUTH,EKUT)
- **Numerical Analysis** (AUTH)
- **Mathematical Methods in Physics** (AUTH)
- **Computational Physics** (AUTH)
- **Computational Mathematics** (AUTH)
- **Black Holes, Neutron Stars and Gravitational Waves** (EKUT)
- **Computational Methods in Physics & Astrophysics** (EKUT)
- **Field Theory** (EKUT)

- **Relativistic Astrophysics & Experimental Gravitation (EKUT)**

4.2 Doctoral and Diploma Theses Students

1. Dr. **A. Stavridis** got his PhD under my supervision in 2004.
2. Dr. **M. Vavoulidis** got his PhD under my supervision in 2007.
3. Dr. **E. Gaertig** got his PhD under my supervision in 2008.
4. Dr. **A. Colaiuda** got her PhD under my supervision in 2011
5. Dr. **S. Konstantinidis** got his PhD under my supervision in 2011
6. Dr. **D. Doneva** got her PhD partially under my supervision in 2012
7. **P. Pnigouras** expected to finish in 2015
8. **M. Herbrick** expected to finish in 2015

- I supervised 25 Diploma Theses.

4.3 Post-Doctoral Researchers

Past

1. **Dr. Johannes Ruoff** (PhD Tuebingen) April 2000- April 2002 (Marie Curie Fellowship)
2. **Dr. Emanuele Berti** (PhD Rome) November 2001 – January 2004 (TMR Network)
3. **Dr. Ulrich Sperhake** (PhD Southampton) November 2001 – September 2002 and July-September 2003 (TMR Network)
4. **Dr. Andrea Passamonti** (PhD Portsmouth) October 2005-October 2007 (Virgo Detector (VESF) Fellowship)
5. **Dr. Adamantios Stavridis** (PhD Thessaloniki) October 2005-August 2007 (Pythagoras Fellowship)
6. **Dr Hajime Sotani** (PhD Tokyo) March 2006-March 2008 (Marie Curie Fellowship)
7. **Dr. Wolfgang Kastaun**, (PhD Tuebingen) September 2007- November 2009 (SFB/TR7)
8. **Dr Hajime Sotani** (PhD Tokyo) March 2008-March 2010 (SFB/TR7)
9. **Dr Kostas Glampedakis** (PhD Cardiff) SFB/TR7 October 2008- December 2010 SFB/TR7
10. **Dr. Paul Lasky** (PhD Melbourne) June 2009 – September 2011 (Humboldt)
11. **Dr. Roman Konoplya** (PhD Kiev) November 2009 – September 2011 (Humboldt)
12. **Dr. Antonella Colaiuda** (PhD Tübingen) January 2011 – July 2012 (SFB/TR7)
13. **Dr. Bukhard Zink** (PhD Munich) September 2009- September 2011 (TAT)
14. **Dr. Andrea Passamonti** (PhD Portsmouth) October 2010- October 2012
15. **Dr. Erich Gaertig** (PhD Tuebingen) December 2008 – September 2012 (SFB/TR7, VESF)
16. **Dr. Efstratios Bouloukos** (PhD Tuebingen) December 2010-December 2012 (Humboldt)

Current

1. **Dr. Sam Lander** (PhD Southampton) October 2011 – October 2013
2. **Dr. Daniela Doneva** (PhD Sofia) January 2012
3. **Dr. George Pappas** (PhD Athens) September 2012-September 2013

5 RESEARCH ACTIVITY

5.1 Research Interests

My research interests vary from Relativistic Astrophysics to Mathematical Physics; though, my work in Relativistic Stellar Oscillations and Instabilities is the most innovative one.

- **Geometrical Properties of Black Holes**

- **Black Hole Perturbations**
- **Perturbations of Relativistic Stars**
- **Rotational Instabilities of Relativistic Stars**
- **Detection of Gravitational Waves**
- **Binary Systems**
- **Gravitational Wave Data Analysis**
- **Mathematical Physics**

5.2 Seminars

- Invited Speaker in Conferences and Workshops
 - International: 61
 - National: 10
- Seminars at Departments & Institutes: 39
- Talks at International Conferences: 15
- Talks at National Conferences: 14
- Internal Major Colloquia: 3
- Public Talks: 8

5.3 Memberships

Elected Member

1. I was the **Secretary** of the *European Gravitational Physics Section* of the European Physical Society since 2001.
2. I was **member** of the Examiners Committee of the Hellenic Astronomical Society
3. I was **member** of the Governing Committee of the Hellenic Astronomical Society 2004-2006
4. I was **vice president** of the Hellenic Astronomical Society 2006-2008
5. I am **member** of the Executive Board of VESF (Virgo Ego Scientific Forum)
6. **Member** of the Governing Council of the International Society of General Relativity and Gravitation
7. **Chairman** of the “Hellenic Society for General Relativity, Gravitation and Cosmology” since 2010

Member

1. The Royal Astronomical Society (since 1985).
2. The International Society on General Relativity and Gravitation (since 1985).
3. International Astronomical Union (IAU), Commission 47 (since 1990).
4. Hellenic Astronomical Society (since 1994, founding member)
5. LIGO Research Community (since 1995)
6. European Astronomical Society (since 1998)
7. Gravitational Physics Section of the EPS (since 2001, founding member)
8. Hellenic Physical Society (since 2003, honorary member)
9. Virgo-Ego Scientific Forum (VESF) (since 2004)
10. German Astronomical Society (since 2007)

11. German Physical Society (since 2009)
12. Hellenic Society for General Relativity, Gravitation and Cosmology (since 2010, founding member)

5.4 Organizing/Scientific Committee of Conferences

- International: 28
- National: 13

5.5 Referee in 26 Scientific Journals

5.6 Editorial Boards

- **Managing Editor** for International Journal of Modern Physics D since October 2009.
- I was member of the Editorial Board of the **Scientific American** (Greek Edition)
- I was Editor of "Hipparchos" the journal of the Hellenic Astronomical Society 2003-7.

5.7 Administration

- I was **chairman** of the computers committee of the Physics Department 1999-2004.
- I have been elected as **member** of the Physics Department's Assembly for the academic years 1996-2002.
- I was **director** of the Institute for Astronomy and Astrophysics of the Karls Eberhard Karls University of Tuebingen (2010-2012)

6 PUBLICATIONS

6.1 Thesis

- A1 Normal Modes of Pulsation of Relativistic Stars,**
Master of Science Thesis, University of Wales (1985)
- A2 Contribution in the study of charged and rotating black holes,**
PhD Thesis, Aristotle University of Thessaloniki (1988)

6.2 Articles in Refereed Journals

- B1 Normal Modes of a Model Radiating System,**
K.D. Kokkotas and B.F. Schutz *Gen. Rel. Grav.* **18**, 913-921 (1986)
- B2 Reversible Evolution of Charged Ergoregions,**
K.D. Kokkotas and N.K. Spyrou *Gen. Rel. Grav.* **19**, 681-691 (1987)
- B3 Black Hole Normal Modes: A WKB approach. III The Reissner--Nordstrom black hole,**
K.D. Kokkotas and B.F. Schutz *Phys. Rev. D* **37**, 12, 3378-3387 (1988)
- B4 The Geometry of the Kerr-Newman Ergosurface,**
K.D. Kokkotas *Gen. Rel. Grav.* **20**, 8, 829-839 (1988)
- B5 WKB equivalent potentials for the q-deformed harmonic oscillator,**
D. Bonatsos, C. Daskaloyannis and K.D. Kokkotas *J. Phys. A* **24**, L795--L801 (1991)
- B6 Normal Modes of the Kerr black hole,**
K.D. Kokkotas *Clas. Quantum Grav.* **8**, 2217-2224, (1991)
- B7 W-modes: A new family of normal modes for pulsating relativistic stars,**
K.D. Kokkotas and B.F. Schutz *M.N.R.A.S.* **255**, 119-128 (1992)
- B8 WKB equivalent potentials for the SUq(1,1) and Uq(2) models,**
D. Bonatsos, C. Daskaloyannis and K.D. Kokkotas *Chem. Phys. Lett.* **193**, 191-196 (1992)
- B9 Classical potential for q-deformed harmonic oscillator,**
D. Bonatsos, C. Daskaloyannis and K.D. Kokkotas *Phys. Rev. A* **45**, R6153-R6156, (1992)
- B10 WKB Equivalent Potentials for q-Deformed Harmonic and Anharmonic Oscillators,**
D. Bonatsos, C. Daskaloyannis and K.D. Kokkotas *J. Math. Phys.* **9**, 2958-2965 (1992)
- B11 Normal Modes of the Kerr-Newman black hole,**
K.D. Kokkotas *Il Nuovo Cimento* **108B**, 991-998 (1993)
- B12 Statistical Analysis of the Estimators of the Parameters of the Gravitational Wave Signal from a Coalescing Binary,**
K.D. Kokkotas, A. Krolak and G. Tsegas *Class. Quantum Gravity* **11**, 1901-1918 (1994)

- B13 Quantum-algebraic Description of Quantum Superintegrable Systems in two dimensions,**
D. Bonatsos, C. Daskaloyannis and **K.D. Kokkotas** Phys. Rev. A **48**, R3407-R3410 (1993)
- B14 Axial Modes for Relativistic Stars,**
K.D. Kokkotas M.N.R.A.S. **268**, 1015-1018 (1994)
- B15 Gravitational Radiation from Pairs of Realistic, Non-Accreting Compact Stars,**
N.K. Spyrou and **K.D. Kokkotas** Astrophys. J. **431**, 254-263 (1994)
- B16 Deformed Oscillator Algebras for Two-Dimensional Quantum Superintegrable Systems,**
D. Bonatsos, C. Daskaloyannis and **K.D. Kokkotas** Phys. Rev. A **50**, 3700-3709 (1994)
- B17 Tidal and Tidal-Resonant Effects in Close Binary Systems,**
K.D. Kokkotas and G. Schaefer M.N.R.A.S. **275**, 301-308 (1995)
- B18 A new numerical approach to the oscillation modes of relativistic stars,**
N. Andersson, **K.D. Kokkotas** and B.F. Schutz M.N.R.A.S. **274**, 1039-1048 (1995)
- B19 On estimation of the post-Newtonian parameters in the gravitational-wave emission of a coalescing binary,**
A. Krolak, **K.D. Kokkotas** and G. Schaefer Phys. Rev. D **52**, 2089-2111 (1995)
- B20 On the oscillations spectra of ultra compact stars,**
Y. Kojima, N. Andersson and **K.D. Kokkotas** Proc. Roy. Soc. London **451**, 341-348 (1995)
- B21 On the oscillations spectra of ultracompact stars: An extensive survey of gravitational-wave modes,**
N. Andersson, Y. Kojima and **K.D. Kokkotas** Astrophys. J. **462**, 855-864 (1996)
- B22 On the estimation of parameters of the gravitational-wave signal from coalescing binaries by a network of laser interferometers,**
P. Jaranowski, **K.D. Kokkotas**, A. Krolak and G. Tsegas Class. Quantum Grav. **13**, 1279-1307 (1996)
- B23 Spacetime modes of relativistic stars,**
N. Andersson, **K.D. Kokkotas** and B.F. Schutz M.N.R.A.S. **280**, 1230-1234 (1996)
- B24 Gravitational waves and pulsating stars: What can we learn from future observations?**
N. Andersson and **K.D. Kokkotas** Phys. Rev. Lett. **77**, 4134-4137 (1996)
- B25 Pulsation Modes for increasingly relativistic polytropes,**
N. Andersson and **K.D. Kokkotas** M.N.R.A.S. **297**, 493-496 (1998)
- B26 Gravitational waves from pulsating stars: Evolving the perturbation equations for a relativistic star,**
G. Allen, N. Andersson, **K.D. Kokkotas** and B.F. Schutz Phys. Rev. D **58**, 124012 (1998)
- B27 Towards gravitational-wave asteroseismology,**
N. Andersson and **K.D. Kokkotas** M.N.R.A.S. **299**, 1059-1068 (1998)

- B28 Gravitational radiation limit on the spin of young neutron stars,**
N. Andersson, **K.D. Kokkotas** and B.F. Schutz *Astrophys. J.* **510**, 846 (1999)
- B29 Analytic description of the r-mode instability in uniform density stars,**
K.D. Kokkotas and N. Stergioulas *Astronomy & Astrophysics* **341**, 110-116 (1999)
- B30 On the relevance of the r-mode instability for accreting neutron stars and white Dwarfs,**
N. Andersson, **K.D. Kokkotas** and N. Stergioulas *Astrophys. J.* **516**, 307-314 (1999)
- B31 Quasi-Normal Modes of Stars and Black Holes,**
K.D. Kokkotas and B.G. Schmidt in *Living Reviews in Relativity* 2:2, (1999)
- B32 On the r-mode spectrum of relativistic stars,**
H.R. Beyer and **K.D. Kokkotas** *M.N.R.A.S.* **308**, 745-750 (1999)
- B33 Neutron Star Collisions: The Close Limit,**
G. Allen, N. Andersson, **K.D. Kokkotas**, P. Laguna, J. Pullin and J. Ruoff *Phys. Rev D* **60**, 104021 (1999)
- B34 Construction of Astrophysical Initial Data for Perturbations of Relativistic Stars,**
N. Andersson, **K.D. Kokkotas**, P. Laguna, Ph. Papadopoulos and M.S. Sypior *Phys. Rev D* **60**, 1240004 (1999)
- B35 Non-linear evolution of rotating relativistic stars,**
J.A. Font, N. Stergioulas and **K.D. Kokkotas** *M.N.R.A.S.* **313**, 678 (2000)
- B36 R-mode runaway and rapidly rotating neutron stars,**
N. Andersson, D.I. Jones, **K.D. Kokkotas** and N. Stergioulas *Astrophys. J. Lett.* **534**, 75, (2000)
- B37 Scattering of particles by neutron stars: Time-evolutions for axial perturbations,**
V. Ferrari and **K. D. Kokkotas** *Phys. Rev. D* **62**, 107504 (2000)
- B38 Radial Modes of Relativistic Stars,**
K.D. Kokkotas and J. Ruoff *Astronomy & Astrophysics* **366**, 565-572 (2001)
- B39 The R-mode Instability in Rotating Neutron Stars,**
N. Andersson and **K.D. Kokkotas** *Inter. J. of Modern Phys. D* **10**, 381 (2001)
- B40 Using the gravitational-wave fingerprints of a neutron star to reveal the equation of state,**
K.D. Kokkotas, Th. Apostolatos and N. Andersson *M.N.R.A.S.* **320**, 307-315 (2001)
- B41 On the origin of compact radio sources. The binary black hole model applied to the gamma-bright quasar PKS 0420-014,**
S. Britzen, J. Roland, J. Laskar, **K.D. Kokkotas**, R.M. Cambell and A. Witzel *Astronomy & Astrophysics* **374**, 784-799 (2001)
- B42 On the r-mode spectrum of relativistic stars in the low frequency approximation,**
J. Ruoff and **K.D. Kokkotas** *M.N.R.A.S.* **328**, 678-688 (2001)
- B43 On the r-mode spectrum of relativistic stars: Inclusion of the radiation reaction,**
J. Ruoff and **K.D. Kokkotas** *M.N.R.A.S.*, **330**, 1027 (2002)
- B44 Evolution equations for the perturbations of slowly rotating relativistic stars ,**

- J. Ruoff, A. Stavridis and **K.D. Kokkotas** M.N.R.A.S., **332**, 676 (2002)
- B45 Strange stars as persistent sources of gravitational waves**,
N. Andersson, D.I. Jones, **K.D. Kokkotas** M.N.R.A.S., **337**, 1224-1232 (2002)
- B46 Inertial modes of slowly rotating relativistic stars in the Cowling approximation**,
J. Ruoff, A. Stavridis, and **K.D. Kokkotas** M.N.R.A.S. , **339**, 1170-1182 (2003)
- B47 Quasinormal modes of the Reissner-Nordstrom-anti-de-Sitter black holes: scalar, electromagnetic and gravitational perturbation.**
E. Berti and **K.D. Kokkotas** Phys.Rev.D **D67**:064020 (2003)
- B48 Asymptotic quasinormal modes of Reissner-Nordstrom and Kerr black holes**
E. Berti and **K.D.Kokkotas** Phys.Rev.D **68**:044027 (2003)
- B49 Stability of five-dimensional rotating black holes on the brane.**
E.Berti, **K.D.Kokkotas** and E.Papantonopoulos Phys.Rev.D **68**:064020 (2003)
- B50 Highly damped quasinormal modes of Kerr black holes**
E.Berti, V.Cardoso, **K.D.Kokkotas** and H.Onozawa Phys. Rev. D. Phys.Rev. D **68**:124018, (2003)
- B51 High Frequency Sources of Gravitational Waves**,
K.D. Kokkotas Class. Quantum Gravity **21**, S501 (2004)
- B52 On the w-mode instability of rotating relativistic stars**,
K.D. Kokkotas, N. Andersson and J. Ruoff Phys. Rev. D **70**:043003 (2004)
- B53 Probing Strong-Field Scalar-tensor Gravity with Gravitational Wave Asteroseismology**
H.Sotani and **K.D.Kokkotas** Phys. Rev. D **70**:084026 (2004)
- B54 Evolution equations for slowly relativistic stars**
A.Stavirids and **K.D. Kokkotas** Int.J.Modern.Physics D **14**, 543-571 (2005)
- B55 Quasinormal modes of the Kerr-Newman black hole: Coupling of electromagnetic and gravitational perturbations.**
E. Berti and **K.D.Kokkotas** Physical Review D **71**, 124008 (2005)
- B56 Stellar Oscillations in Scalar-Tensor Theory of Gravity.**
H.Sotani and **K.D.Kokkotas** Physical Review D **71**, 124038 (2005)
- B57 Torsional Oscillations of Relativistic Stars with Dipole Magnetic Fields**
H. Sotani, **K.D. Kokkotas** and N. Stergioulas M.N.R.A.S. **375**:1, 261–277 (2007)
- B58 Torsional Oscillations of Relativistic Stars with Dipole Magnetic Fields II. Global Alfvén Modes.**
H. Sotani, **K.D. Kokkotas**, N. Stergioulas and M. Vavoulidis M.N.R.A.S (2006) astro-ph/0611666
- B59 Non-radial Oscillations of Slowly and Differentially Rotating Compact Stars**
A. Stavridis, A. Passamonti and **K.D. Kokkotas** Phys. Rev. D **75**, 064019 (2007)
- B60 Torsional Oscillations of Rotating Stars**
M. Vavoulidis, A. Stavridis, **K.D. Kokkotas** and H. Beyer M.N.R.A.S. **377**, 1553 (2007),

- B61 Gravitational Radiation from weakly magnetized dust collapse**
H. Sotani, Shijun Yoshida and **K.D. Kokkotas** Phys. Rev. D **75**, 084015 (2007)
- B62 Non-Axisymmetric Oscillations of Differentially Rotating Compact Stars**
A. Passamonti, A. Stavridis and **K.D. Kokkotas** Phys. Rev. D **77**, 024029 (2008)
- B63 Alfen QPOs in Magnetars**
H. Sotani, **K.D. Kokkotas** and N. Stergioulas M.N.R.A.S **385**, L5-L9 (2008)
- B64 Constraints on the Magnetic Field of Magnetars**
H. Sotani, A. Colaiuda and **K.D. Kokkotas** M.N.R.A.S **385** 2161-2165 (2008)
- B65 Crustal Oscillations of Slowly Rotating Relativistic Stars**
M. Vavoulidis, **K.D. Kokkotas** and A. Stavridis M.N.R.A.S **384** , 1711 -1724 (2008)
- B66 Oscillations of Rapidly Rotating Relativistic Stars**
E. Gaertig, **K.D. Kokkotas** Phys. Rev. D **78** 064063 (2008)
- B67 Alfvén Polar Oscillations of Relativistic Stars**
H. Sotani, and **K.D. Kokkotas** M.N.R.A.S **395**, 1163 (2009)
- B68 On the QPOs oscillation in Magnetars.**
A. Colaiuda, H. Beyer and **K.D. Kokkotas** M.N.R.A.S **396**, 1441 (2009)
- B69 Relativistic g-modes in rapidly rotating neutron stars**
E. Gaertig, **K.D. Kokkotas** Phys. Rev. D **80**, 064026 (2009)
- B70 Oscillations and instabilities of fast and differentially rotating relativistic stars**
C. Kruger, E. Gaertig & **K.D. Kokkotas**, Phys. Rev. D **81**, 084019 (2010)
- B71 Charged Anti - de Sitter scalar-tensor black holes and their thermodynamic phase structure**
D.D. Doneva, S.S. Yazadjiev, **K.D. Kokkotas**, I.Zh. Stefanov, M.D. Todorov
Phys. Rev. D **81**, 104030 (2010),
- B72 On the saturation amplitude of the f-mode instability**
W. Kastaun, B. Willburger and **K. D. Kokkotas** Phys. Rev D **82**, 104036 (2010)
- B73 Quasi-normal modes, bifurcations and non-uniqueness of charged scalar-tensor black holes**
D.D. Doneva, S. S. Yazadjiev, **K.D. Kokkotas**, I.Zh. Stefanov Phys. Rev. D **82**, 064030 (2010)
- B74 High-order perturbations of a spherical collapsing star**
David Brizuela, Jose M. Martin-Garcia, Ulrich Sperhake, and **K.D. Kokkotas** Phys. Rev D **82**, 104039 (2010)
- B75 MYRIAD : A new N-body code for simulations of star clusters**
S. Konstantinidis & **K.D. Kokkotas** A&A **522**, A70 (2010)
- B76 Quasinormal modes, scattering and Hawking radiation of Kerr-Newman black holes in a magnetic field**
K. D. Kokkotas, R. A. Konoplya, A. Zhidenko Phys. Rev D **83**, 02431 (2011)

- B77 Gravitational waves from neutron stars: Promises and challenges**
N. Andersson, V. Ferrari, D.I. Jones, **K.D. Kokkotas**, B. Krishnan, L. Rezzolla, B. Zink
G.R.G 43, 409-436 (2011)
- B78 Magnetars oscillations in the presence of a crust**
A. Colaiuda and **K.D. Kokkotas** **MNRAS 414**, 3014 (2011)
- B79 Bayesian timing analysis of giant flare of SGR 1806–20 by RXTE PCA**
V. Hambaryan, R. Neuhauser, and **K.D. Kokkotas** **A&A 528**, A45 (2011)
- B80 Gravitational wave asteroseismology with fast rotating neutron stars**
E. Gaertig and **K.D. Kokkotas** **Phys. Rev. D 83**, 064031 (2011)
- B81 Hydromagnetic Instabilities in Neutron Stars**
P. Lasky, B. Zink, , **K.D. Kokkotas**, K. Glampedakis **Ap. J Letters 735**, L20 (2011)
- B82 The f-mode instability in relativistic neutron stars**
E. Gaertig, B. Zink, **K.D. Kokkotas**, K. Glampedakis, **Phys. Rev. Letters 107**, 101102 (2011)
- B83 Time Evolution of the Radial Perturbations and Linear Stability of Solitons and Black Holes in a Generalized Skyrme Model**
D.D. Doneva, **K.D.Kokkotas**, I.Zh. Ivanov, S.S.Yazadjiev
Phys. Rev. D 84, 084021 (2011)
- B84 Are gravitational waves from giant magnetar flares observable?**
B. Zink, P.D. Lasky, **K.D. Kokkotas** **Phys. Rev. D 85**, 024030 (2012)
- B85 Coupled polar-axial magnetar oscillations**
A. Colaiuda, **K.D.Kokkotas** **MNRAS 423**, 811 (2012)
- B86 Gravitational Waves and Hydromagnetic Instabilities in Rotating Magnetized Neutron Stars**
P. Lasky, B. Zink, **K.D. Kokkotas** **Phys. Rev. D** (2012) [arXiv:1203.3590v1](https://arxiv.org/abs/1203.3590v1) [astro-ph.SR]
- B87 Kicking massive black holes off clusters : Intermediate-mass ratio inspirals**
S. Konstantinidis, P. Amaro-Seoane, **K.D. Kokkotas** **A&A** in press (2013)
[arXiv e-print](https://arxiv.org/abs/1108.5175) (arXiv:1108.5175)
- B88 Gravitational waves from the evolution of the f-mode instability**
A.Passamonti, E. Gaertig, **K.D.Kokkotas**, D. Doneva **Phys.Rev. D** in press (2013)
[arXiv:1209.5308v1](https://arxiv.org/abs/1209.5308v1) [astro-ph.SR]
- B89 Shear and interface modes excitation as precursor signal of short gamma-ray bursts**
A.Colaiuda, **K.D. Kokkotas**, M. Vavoulidis **A&A** in press (2013)
- B90 Oscillations of magnetized stars and black holes**
H. Sotani, **K.D. Kokkotas**, C. Sopuerta and P. Laguna **Phys. Rev. D** in press (2013)

6.3 Many Author Articles in Refereed Journals

C1 Third generation of gravitational wave observatories and their science reach

Michele Punturo et al (**K.D. Kokkotas** & 134 authors)
Class. Quantum Grav. **27** 084007 (2010).

C2 The Einstein Telescope: a third-generation gravitational wave observatory

Michele Punturo et al (**K.D. Kokkotas** & 134 authors)
Class. Quantum Grav. **27** 194002 (2010).

C3 Sensitivity Studies for Third-Generation Gravitational Wave Observatories

S.Hild et al (**K.D. Kokkotas** & 134 authors)
Class. Quantum Grav, **28**, Issue 9, pp. 094013 (2011) [arXiv e-print](#)
(arXiv:1012.0908)

C4 Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy Actis et al (**K.D. Kokkotas** & 662 authors) Experimental Astronomy, **32**, 193-316 (2011)

C5 The Large Observatory for X-ray Timing (LOFT)

Feroci M et al (**K.D. Kokkotas** & 202 authors)
Experimentl Astronomy in pres (2011) [arXiv e-print](#) (arXiv:1107.0436)

C6 Scientific Objectives of Einstein telescope

Sathyaprakash B et al (**K.D. Kokkotas** & 224 coauthors)
Plenary talk given at Amaldi Meeting, July 2011;
Class. Quantum Grav. 29, 124013, 2012 [arXiv:1206.0331v1](#) [gr-qc]

C7 Scientific Potential of Einstein Telescope

Sathyaprakash B et al (**K.D. Kokkotas** & 134 authors)
Proceedings of the Moriond Meeting 2011 at La Thuille, Italy
[arXiv e-print](#) (arXiv:1108.1423)

6.4 Review Articles and Invited Articles / Book Editor

Book Editor

Recent Developments in Gravity: Proceedings of the 10th Hellenic Relativity Conference Kalithea/Chalkidiki, Greece 30 May - 2 June 2002
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