

Curriculum Vitae

Name: **Luciano REZZOLLA**, Prof. Dr.
Office Address: Institute for Theoretical Physics
Max-von-Laue Str. 1,
D-60438 Frankfurt am Main, Germany
Tel. +49-69-79847871 – Fax. +49-69-79847879
email: rezzolla@th.physik.uni-frankfurt.;
webpage (group): <http://relastro.uni-frankfurt.de>
webpage (personal): <http://astro.uni-frankfurt.de/rezzolla>
Nationality: Italian

Education

1994 – 1997 Ph.D. in Relativistic Astrophysics at SISSA, Trieste, Italy Supervisor: Prof. John C. Miller
1993 – 1994 Served as Officer (Midshipman) in the Technical Corp of the Italian Navy
1991 – 1992 Research work for the Laurea (MSc) Thesis at the Astronomical Observatory, Trieste, Italy
1992 Laurea (MSc) in Physics: 110/110 cum Laude
1989 – 1991 Undergraduate work at the Department of Physics, University of Trieste, Italy
1986 – 1988 Undergraduate work at the Department of Physics, University of Bari, Italy

Employment

2017 – Director, Institute for Theoretical Physics, Frankfurt am Main
2016 – Deputy Director, Institute for Theoretical Physics, Frankfurt am Main
2015 – Senior Fellow at the Frankfurt Institute for Advanced Studies
2013 – Chair of Theoretical Astrophysics, Institute for Theoretical Physics, Frankfurt am Main
2006 – 2014 Head of the Numerical Relativity Group, Albert Einstein Institute
2004 – 2006 Director of the Computing Centre at SISSA, Trieste, Italy
2004 – 2006 Associate Professor in Relativistic Astrophysics at SISSA, Trieste, Italy
2004 – 2013 Adjunct Professor at the Department of Physics and Astronomy
Louisiana State University, Baton Rouge, USA
2000 – 2003 Assistant Professor (Ricercatore) in Relativistic Astrophysics at SISSA, Trieste, Italy
2001 – 2002 Visiting Professor during the summer period at the *Albert Einstein Institute*, Golm, Germany
1999 – 2000 Five-year Senior Research Fellow, Astrophysics Sector at SISSA, Trieste, Italy
1998 – 1999 Postdoctoral Fellowship, Physics Dept., University of Illinois at Urbana (with Prof. F. K. Lamb)
1996 – 1998 Postdoctoral Fellowship, NCSA, University of Illinois at Urbana (with Prof. S. L. Shapiro)
1993 – 1994 Served as Officer (Midshipman) in the Italian Navy. Assigned to the submarine “Gazzana”

Professional Highlights

- 2016 – Elected Director, Institute for Theoretical Physics, Frankfurt am Main (starting in 2017)
- 2016 – Member of the Editorial Board of *Nature Physics*
- 2016 Elected *Outstanding Referee* from the American Physical Society
- 2015 – Member of the Steering Board of the *Event Horizon Telescope Collaboration*
- 2015 – Appointed *Senior Fellow* at the Frankfurt Institute for Advanced Studies
- 2014 – Member of the Interim Board of the *Event Horizon Telescope Collaboration*
- 2014 – Member of the Editorial board of *Computational Astrophysics and Cosmology*
- 2013 Max-Planck Award 2013
- 2013 – 2020 Awarded ERC Synergy Grant “BlackHoleCam”
- 2013 – 2017 Chair of “NewCompStar”(MPS1304), an ESF-funded COST Action
- 2012 – 2016 Member of the Review Panel for the Canadian NSERC
- 2012 – Member of the Editorial board of *Living Reviews in Computational Astrophysics*
- 2012 Invited member on the AERES review panel for the Observatory of Paris, Meudon
- 2010 – Member of the International Society of General Relativity and Gravitation
- 2014 – Chief Editor of `hyperspace@gu`: a web blog about General Relativity and Gravitation
- 2009 – 20014 Chief Editor of `hyperspace@aei`: a web blog about General Relativity and Gravitation
- 2009 Member of SOC of *COSPAR 10, Event H02* (Probing strong gravity with gravitational and electromagnetic waves), Bremen, Germany 2010
- 2009 Member of LOC of the Conference *NRDA 2009* (Numerical Relativity, Data Analysis), Potsdam, Germany 2009
- 2009 Member of SOC 19th of *GRG19* (International conference on General Relativity and Gravitation), Mexico City, Mexico 2010
- 2007 – Member of the Executive Board of the Virgo-EGO Scientific Council (VESF)
- 2007 – Co-Chair of `CompStar`, an ESF-funded research network on compact stars
- 2007 – Member of the Steering Committee of `CompStar`
- 2006 – Member of the Editorial Board of the Journal *Classical and Quantum Gravity*
- 2006 Chair of LOC of the Conference *New Frontiers in Numerical Relativity*, Potsdam, Germany 2006
- 2006 Member of LOC of the *XI Marcel Grossman meeting*, Berlin, Germany 2006
- 2002 – 2006 Director of the Computing Centre at SISSA, Trieste, Italy
- 2004 – Adjunct Professor at the Department of Physics and Astronomy, Louisiana State University, USA
- 2004 – 2006 Member of the Executive Board of the Italian Society of Gravitational Physics and Relativity (SIGRAV)
- 2004 – Member of the Italian Society of Gravitational Physics and Relativity (SIGRAV)
- 2003 Co-Chair of LOC of the Conference *Sources of Gravitational Waves*, Trieste, Italy 2003
- 2003 Co-Director of the *Advanced School on Sources of Gravitational Waves*, Trieste, Italy 2003
- 2002 – 2004 Deputy Director of the Computing Centre at SISSA, Trieste, Italy
- 2000 Member of LOC of the Conference *Gravitational Waves: a Challenge to Theoretical Astrophysics*, Trieste Italy 2000

Over the years I have produced many images from the simulations that I have carried out. Many of them have been used by me and others for public outreach and have appeared on newspapers, magazines, calendars, and of course the internet; you can find many of them after searching for “black holes” or “neutron stars”. Some of these images have also won prestigious awards. Animations of my simulations have ended up on the NASA YouTube totalling more than 700,000 downloads, eventually ending-up on the New York Times.

SCIENTIFIC JOURNALS for which I act as Referee:

- *Annalen der Physik*,
- *Astroparticle Physics*,
- *Astrophysical Journal*,
- *Classical and Quantum Gravity*,
- *International Journal of Modern Physics A*,
- *Journal of Applied Mathematics and Physics*,
- *Journal of Cosmology and Astroparticle Physics (JCAP)*,
- *Journal of Geometry and Physics*,
- *Monthly Notices of the Royal Astronomical Society*,
- *Physical Review Letters*,
- *SIAM Journal on Scientific Computing*
- *Astronomy and Astrophysics*,
- *Astrophysical Journal Letters*,
- *Astrophysics and Space Science*,
- *General Relativity and Gravitation*,
- *International Journal of Modern Physics D*,
- *Journal of Computational Physics*,
- *Journal of Fluid Mechanics*,
- *Journal of High Energy Physics (JHEP)*,
- *Physical Review D*,
- *Physics Letters B*,

FUNDING AGENCIES for which I act as Referee:

- *Austrian Science Fund (FWF), Austria*
- *Czech Academy of Science (CAS), Czech Republic*
- *Danish Council for Independent Research, Denmark*
- *Deutsche Forschungsgemeinschaft (DFG), Germany*
- *European Research Council (ERC), EU*
- *German-Israeli Foundation, Germany-Israel*
- *Italian Ministry of University and Research (MIUR), Italy*
- *Irish Research Council for Science, Engineering and Technology (IRCSET), Ireland*
- *National Research Foundation (NRF), South Africa*
- *National Science Foundation (NSF), USA*
- *Natural Sciences and Engineering Research Council (NSERC), Canada*
- *Netherlands Organisation for Scientific Research (NWO), The Netherlands*
- *Research Research Foundation Flanders (FWO), Belgium*
- *Research Grants Council Hong Kong (CERG), China*
- *Science & Technology Facilities Council (STFC), United Kingdom*
- *Swiss National Science Foundation (SNF), Switzerland*

BOOKS

- 2013 *Astrophysical Black Holes*
L. Rezzolla, Chapter 1, Springer Verlag, Heidelberg
- 2013 *Relativistic Hydrodynamics*
L. Rezzolla, O. Zanotti, Oxford University Press
- 2010 Editor of the Special Issue *MICRA2009*
C. Ott, C. Pethick, and L. Rezzolla, *Class. Quantum Grav.* 27 (2010) 110302
- 2007 Editor of the Special Issue *New Frontiers in Numerical Relativity*
M. Campanelli and L. Rezzolla, *Class. Quantum Grav.* 24 (2007) S1-S379
- 2001 Editor of the Proceedings Book *Gravitational Waves: A Challenge to Theoretical Astrophysics*
V. Ferrari, J. C. Miller and L. Rezzolla, ICTP Lecture Series, Vol. 3, ISBN 92-95003-05-5

Research Grants (2006-2016)

- 2016 Postdoctoral fellowship from the Alexander von Humboldt Foundation (awarded to Dr. A. Nathanail).
Total budget: **80,000 EUR** over two years
- 2015 Horizon 2020 Research Grant, “Exahype”.
Total budget: **450,000 EUR** over four years.
- 2014 Postdoctoral fellowship from the Alexander von Humboldt Foundation (awarded to Dr. Z. Younsi).
Total budget: **80,000 EUR** over two years
- 2014 Postdoctoral fellowship from the Alexander von Humboldt Foundation (awarded to Dr. T. Hoang).
Total budget: **50,000 EUR** over one year
- 2013 Postdoctoral fellowship from the Alexander von Humboldt Foundation (awarded to Dr. A. Zhidenko).
Total budget: **80,000 EUR** over two years
- 2013 ERC Synergy Grant, “BlackHoleCam”.
Total budget: about 1/3 of **14,000,000 EUR** over six years.
- 2013 ESF COST Action, “NewCompStar”.
Total budget: **600,000 EUR** over four years.
- 2012 Volkswagen Stiftung for exchange programme with Uzbekistan.
Total budget: **80,000 EUR** over three years.
- 2010 Postdoctoral fellowship from the Alexander von Humboldt Foundation (awarded to Dr. R. Ciolfi).
Total budget: **80,000 EUR** over two years
- 2010 DFG Grant on gravitational-wave astronomy (SFB-TR7).
Total budget: **480,000 EUR** over four years.
- 2009 Marie Curie Reintegration Grant on Numerical Cosmology (awarded to Dr. E. Bentivegna).
Total budget: **75,000 EUR** over three years
- 2009 MPG Grant to purchase a new a supercomputing cluster.
Total budget: **1,070000,000 EUR** 2010
- 2009 Postdoctoral fellowship from the Alexander von Humboldt Foundation (awarded to Dr. J. L. Jaramillo).
Total budget: **80,000 EUR** over one year
- 2008 MPG Grant to upgrade the storage system of the local supercomputing cluster.
Total budget: **120,000 EUR**
- 2007 Postdoctoral fellowship from VESF (Virgo-EGO Scientific Council).
Total budget: **70,000 EUR** over two years
- 2009 Postdoctoral fellowship from the Alexander von Humboldt Foundation (awarded to Dr. C. Chirenti).
Total budget: **80,000 EUR** over one year
- 2006 MPG Grant to purchase a new supercomputing cluster (Damiana).
Total budget: **900,000 EUR** (Damiana ranked 197 in the “top-500” list and the 5th in Germany)
- 2006 Co-PI of CompStar, an ESF-funded research network on the physics of compact.
Total budget: **350,000 EUR** over five years

In addition to financial support for my research, over the last 10 years I have regularly applied and obtained computing time at supercomputer facilities in Italy, Germany and the USA. Overall, these requests amount to more than **160 Million h** for an estimated economical value of **~ 6 Million EUR**.

Teaching Experience and Courses Given

I have taught a variety of subjects at different levels. These range from more analytic courses (such as General Relativity, Advanced General Relativity, Astrophysics of Compact Objects, Astrophysical Relativity) to more computationally oriented ones (such as Numerical Methods for Astrophysics, Numerical Analysis of Hyperbolic and Parabolic Equations, Introduction to Numerical Relativity). Below is the complete list. At the moment, my teaching is mostly concentrated on the graduate courses given for the students of the International Max-Planck Research School (IMPRS) on gravitational-wave astronomy, as well as to specialized Summer and Winter Schools.

FULL COURSES

- 2016 – 2017 *Hydrodynamics and Magnetohydrodynamics*, Undergrad. Course, ITP Frankfurt (Winter Semester)
- 2016 *Advanced General Relativity*, Undergrad. Course, ITP Frankfurt (Summer Semester)
- 2015 – 2016 *General Relativity*, Undergrad. Course, ITP Frankfurt (Winter Semester)
- 2015 *Advanced General Relativity*, Undergrad. Course, ITP Frankfurt (Summer Semester)
- 2014 – 2015 *Hydrodynamics and Magnetohydrodynamics*, Undergrad. Course, ITP Frankfurt (Winter Semester)
- 2014 *Numerical Relativity*, Undergrad. Course, ITP Frankfurt (Summer Semester)

SERIES OF LECTURES AT SCHOOLS (2010–2016)

- Sep. 2016 *Giesch International Symposium: Introduction to General Relativity*, Frankfurt, Germany
- Sep. 2016 *NewCompStar School: Neutron stars: gravitational physics theory and observations*, Coimbra, Portugal
- Jan. 2014 *Astrophysics School: Look and Listen*, Playa del Carmen, Mexico
- Apr. 2013 *Modelling black hole binaries*, VESF International School, Monte Porzio, Italy
- Mar. 2013 *Introduction to numerical relativity*, IMPRS graduate course, Spreewald, Germany
- Mar. 2012 *Advanced general relativity: Compact Objects*, Ferienkurs (spring-break course), AEI
- May 2012 *Theoretical foundations of astrophysical black holes*, XI SIGRAV International School, Como, Italy
- Feb. 2012 *Introduction to general relativity*, IMPRS graduate course, Germany
- Mar. 2011 *Advanced general relativity: Compact Objects*, Ferienkurs (spring-break course), AEI
- Feb. 2011 *Introduction to general relativity*, IMPRS graduate course, Erkner
- Mar. 2010 *Modelling sources of gravitational waves*, Ferienkurs (spring-break course), AEI
- Mar. 2010 *Numerical Methods in General Relativity*, IMPRS graduate course, Wandlitz, Germany
- Feb. 2010 *Solution of hyperbolic PDEs*, Course given at the Computational Astrophysics Winter School, Caen, France

Graduate and Undergraduate Studies Advisees

Bachelor (BSc) Students:

- 2015–2016 *Cosima Breu*, Institute for Theoretical Physics, Frankfurt, Germany
- 2015–2016 *Fabian Hoffmann*, Institute for Theoretical Physics, Frankfurt, Germany
- 2015–2016 *David Kling*, Institute for Theoretical Physics, Frankfurt, Germany
- 2016–2017 *Stephan Wystub*, Institute for Theoretical Physics, Frankfurt, Germany

Laurea-Diplom (MSc) Students:

- 1999–2000 *Ilija Musco*, University of Trieste (with J. C. Miller)
- 2001–2002 *Bruno Giacomazzo*, SISSA & University of Parma (with E. Onofri)
- 2003–2004 *Luca Naso*, SISSA & University of Catania (with A. Bonanno)
- 2004–2005 *Gregor Leiler*, SISSA & University of Udine
- 2007–2008 *Michael Jasiulek*, von Humboldt University, Berlin
- 2007–2008 *Filippo Galeazzi*, AEI & University of Padua, Italy
- 2007–2008 *Philipp Moesta*, AEI & University of Kassel, Germany
- 2008–2009 *David Link*, von Humboldt University, Berlin, Germany
- 2008–2009 *David Radice*, AEI & Politecnico di Milano, Milano (Prof. G. Magli)
- 2013–2014 *Francesca Lepori*, AEI & Udine University, Italy (Prof.)
- 2014–2015 *Fabian Mueller*, Institute for Theoretical Physics, Frankfurt, Germany
- 2016–2017 *Elias Most*, Institute for Theoretical Physics, Frankfurt, Germany
- 2016– *Cosima Breu*, Institute for Theoretical Physics, Frankfurt, Germany
- 2016– *Natascha Wechselberger*, Institute for Theoretical Physics, Frankfurt, Germany
- 2016– *Lukas Weih*, Institute for Theoretical Physics, Frankfurt, Germany
- 2016– *David Kling*, Institute for Theoretical Physics, Frankfurt, Germany
- 2016– *Jonas Köhler*, Institute for Theoretical Physics, Frankfurt, Germany

Ph.D. Students:

- 1999–2002 *Olindo Zanotti*, SISSA; now researcher at Trento Univ., Italy
- 2000–2004 *Luca Baiotti*, SISSA; now Ass. Prof. at Osaka Univ., Japan
- 2000–2004 *Pedro Montero-Muriel*, SISSA (with J. Miller); now postdoc at Garching, Germany
- 2002–2005 *Bruno Giacomazzo*, SISSA; now assistant prof. at Trento Univ., Italy
- 2004–2008 *Enrico Barausse*, SISSA; now postdoc at Univ. of Maryland, USA
- 2005–2009 *Ernazar Abdikamalov*, SISSA (with J. Miller); now postdoc at Caltech, USA
- 2006–2010 *Christian Reisswig*, AEI; now Einstein Fellow at Caltech, USA
- 2006–2010 *Jennifer Seiler*, AEI; now postdoc at NASA/Goddard, USA
- 2009–2012 *Philipp Moesta*, AEI; now postdoc at Caltech, USA
- 2005–2012 *Thorsten Kellermann*, AEI; now consultant in private company, Munich, Germany
- 2010–2013 *David Radice*, AEI; now Prize Fellow at Caltech, USA.
- 2008–2014 *Filippo Galeazzi*, AEI; now postdoc in Frankfurt, Germany
- 2013–2015 *Joachim Friebe*, AEI
- 2009–2015 *Kyriaki Dionysopoulou*, AEI; now postdoc in Southampton, UK
- 2014– *Luke Bovard*, Institute for Theoretical Physics, Frankfurt, Germany
- 2014– *Federico Guercilena*, Institute for Theoretical Physics, Frankfurt, Germany
- 2015– *Jens Papenfort*, Institute for Theoretical Physics, Frankfurt, Germany
- 2015– *Sven Köppel*, Institute for Theoretical Physics, Frankfurt, Germany
- 2016– *Hector Olivares*, Institute for Theoretical Physics, Frankfurt, Germany

Recent Publications (2010-2016)

I have published more than **170** papers on various refereed journals and about **50** papers as contributions to proceedings. The complete list can be found on the NASA ADS server, which also reports about **7600 citations** to these works and an **h-index 51**. Google scholar reports instead about **9000 citations** and an **h-index 55**. Reported below are the publications over the last six years only.

References

- [1] O. Porth, H. Olivares, Y. Mizuno, Z. Younsi, **L. Rezzolla**, M. Moscibrodzka, H. Falcke, and M. Kramer. *The Black Hole Accretion Code*. ArXiv e-prints, (2016).
- [2] M. Hanauske, K. Takami, L. Bovard, **L. Rezzolla**, J. A. Font, F. Galeazzi, and H. Stöcker. *Rotational properties of hypermassive neutron stars from binary mergers*. ArXiv e-prints, (2016).
- [3] Z. Younsi, A. Zhidenko, **L. Rezzolla**, R. Konoplya, and Y. Mizuno. *New method for shadow calculations: Application to parametrized axisymmetric black holes*. Phys. Rev. D, 94 084025, (2016).
- [4] C. Chirenti and **L. Rezzolla**. *Did GW150914 produce a rotating gravastar?* Phys. Rev. D, 94 084016, (2016).
- [5] A. Murguia-Berthier, E. Ramirez-Ruiz, G. Montes, F. De Colle, **L. Rezzolla**, S. Rosswog, K. Takami, A. Perego, and W. H. Lee. *The Properties of Short gamma-ray burst Jets Triggered by neutron star mergers*. ArXiv e-prints, (2016).
- [6] A. Tsokaros, B. C. Mundim, F. Galeazzi, **L. Rezzolla**, and K. Uryū. *Initial-data contribution to the error budget of gravitational waves from neutron-star binaries*. Phys. Rev. D, 94 044049, (2016).
- [7] D. Radice, F. Galeazzi, J. Lippuner, L. F. Roberts, C. D. Ott, and **L. Rezzolla**. *Dynamical mass ejection from binary neutron star mergers*. Mon. Not. R. Astron. Soc. , 460 3255–3271, (2016).
- [8] **L. Rezzolla** and B. J. Ahmedov. *Electromagnetic fields in the exterior of an oscillating relativistic star - II. Electromagnetic damping*. Mon. Not. R. Astron. Soc. , 459 4144–4160, (2016).
- [9] L. Baiotti and **L. Rezzolla**. *Binary neutron-star mergers: a review of Einstein’s richest laboratory*. ArXiv e-prints, (2016).
- [10] F. Hofmann, E. Barausse, and **L. Rezzolla**. *The Final Spin from Binary Black Holes in Quasi-circular Orbits*. Astrophys. J., Lett., 825 L19, (2016).
- [11] **L. Rezzolla** and K. Takami. *Gravitational-wave signal from binary neutron stars: A systematic analysis of the spectral properties*. Phys. Rev. D, 93 124051, (2016).
- [12] C. Goddi, H. Falcke, M. Kramer, **L. Rezzolla**, et al. *BlackHoleCam: fundamental physics of the Galactic center*. ArXiv e-prints, (2016).
- [13] Z. Meliani, Y. Mizuno, H. Olivares, O. Porth, **L. Rezzolla**, and Z. Younsi. *Simulations of recoiling black holes: adaptive mesh refinement and radiative transfer*. ArXiv e-prints, (2016).
- [14] N. T. Bishop and **L. Rezzolla**. *Extraction of Gravitational Waves in Numerical Relativity*. ArXiv e-prints, (2016).

- [15] S. Pu, V. Roy, **L. Rezzolla**, and D. H. Rischke. *Bjorken flow in one-dimensional relativistic magnetohydrodynamics with magnetization*. Phys. Rev. D, 93 074022, (2016).
- [16] R. Konoplya, **L. Rezzolla**, and A. Zhidenko. *General parametrization of axisymmetric black holes in metric theories of gravity*. Phys. Rev. D, 93 064015, (2016).
- [17] C. Breu and **L. Rezzolla**. *Maximum mass, moment of inertia and compactness of relativistic stars*. Mon. Not. R. Astron. Soc. , (2016).
- [18] C. Chirenti and **L. Rezzolla**. *Did GW150914 produce a rotating gravastar?* ArXiv:1602.08759, e-prints, (2016).
- [19] S. Pu, V. Roy, **L. Rezzolla**, and D. H. Rischke. *Bjorken flow in one-dimensional relativistic magnetohydrodynamics with magnetization*. ArXiv e-prints, (2016).
- [20] D. Radice, F. Galeazzi, J. Lippuner, L. F. Roberts, C. D. Ott, and **L. Rezzolla**. *Dynamical Mass Ejection from Binary Neutron Star Mergers*. ArXiv e-prints, (2016).
- [21] **L. Rezzolla**. An Introduction to Astrophysical Black Holes and Their Dynamical Production. In F. Haardt, V. Gorini, U. Moschella, A. Treves, and M. Colpi, editors, *Lecture Notes in Physics, Berlin Springer Verlag*, volume 905 of *Lecture Notes in Physics, Berlin Springer Verlag*, 1, 2016.
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- [23] V. Roy, S. Pu, **L. Rezzolla**, and D. Rischke. *Analytic Bjorken flow in one-dimensional relativistic magnetohydrodynamics*. Physics Letters B, 750 45–52, (2015).
- [24] K. Dionysopoulou, D. Alic, and **L. Rezzolla**. *General-relativistic resistive-magnetohydrodynamic simulations of binary neutron stars*. Phys. Rev. D, 92 084064, (2015).
- [25] Y. Mizuno, J. L. Gómez, K.-I. Nishikawa, A. Meli, P. E. Hardee, and **L. Rezzolla**. *Recollimation Shocks in Magnetized Relativistic Jets*. Astrophys. J., 809 38, (2015).
- [26] A. Tsokaros, K. Uryu, and **L. Rezzolla**. *New code for quasiequilibrium initial data of binary neutron stars: Corotating, irrotational, and slowly spinning systems*. Phys. Rev. D, 91 104030, (2015).
- [27] **L. Rezzolla** and P. Kumar. *A Novel Paradigm for Short Gamma-Ray Bursts With Extended X-Ray Emission*. Astrophys. J., 802 95, (2015).
- [28] K. Takami, **L. Rezzolla**, and L. Baiotti. *Spectral properties of the post-merger gravitational-wave signal from binary neutron stars*. Phys. Rev. D, 91 064001, (2015).
- [29] C. Messenger, K. Takami, S. Gossan, **L. Rezzolla**, and B. S. Sathyaprakash. *Source Redshifts from Gravitational-Wave Observations of Binary Neutron Star Mergers*. Physical Review X, 4 041004, (2014).
- [30] **L. Rezzolla** and A. Zhidenko. *New parametrization for spherically symmetric black holes in metric theories of gravity*. Phys. Rev. D, 90 084009, (2014).
- [31] K. Takami, **L. Rezzolla**, and L. Baiotti. *Constraining the Equation of State of Neutron Stars from Binary Mergers*. Physical Review Letters, 113 091104, (2014).
- [32] T. Damour, F. Guercilena, I. Hinder, S. Hopper, A. Nagar, and **L. Rezzolla**. *Strong-field scattering of two black holes: Numerics versus analytics*. Phys. Rev. D, 89 081503, (2014).

- [33] D. M. Siegel, R. Ciolfi, and **L. Rezzolla**. *Magnetically Driven Winds from Differentially Rotating Neutron Stars and X-Ray Afterglows of Short Gamma-Ray Bursts*. *Astrophys. J., Lett.*, 785 L6, (2014).
- [34] V. S. Morozova, **L. Rezzolla**, and B. J. Ahmedov. *Nonsingular electrodynamics of a rotating black hole moving in an asymptotically uniform magnetic test field*. *Phys. Rev. D*, 89 104030, (2014).
- [35] D. Radice, **L. Rezzolla**, and F. Galeazzi. *High-order fully general-relativistic hydrodynamics: new approaches and tests*. *Classical and Quantum Gravity*, 31 075012, (2014).
- [36] E. Barausse, V. Morozova, and **L. Rezzolla**. *Erratum: "On the mass radiated by coalescing black-hole binaries" (ApJ, 2012, 758, 63)*. *Astrophys. J.*, 786 76, (2014).
- [37] B. Haskell, R. Ciolfi, F. Pannarale, and **L. Rezzolla**. *On the universality of I-Love-Q relations in magnetized neutron stars*. *Mon. Not. R. Astron. Soc.*, 438 L71–L75, (2014).
- [38] D. Radice, **L. Rezzolla**, and F. Galeazzi. *Beyond second-order convergence in simulations of binary neutron stars in full general relativity*. *Mon. Not. R. Astron. Soc.*, 437 L46–L50, (2014).
- [39] H. Falcke and **L. Rezzolla**. *Fast radio bursts: the last sign of supramassive neutron stars*. *Astron. Astrophys.*, 562 A137, (2014).
- [40] L. Franci, R. De Pietri, K. Dionysopoulou, and **L. Rezzolla**. *Dynamical bar-mode instability in rotating and magnetized relativistic stars*. *Phys. Rev. D*, 88 104028, (2013).
- [41] D. Alic, W. Kastaun, and **L. Rezzolla**. *Constraint damping of the conformal and covariant formulation of the Z4 system in simulations of binary neutron stars*. *Phys. Rev. D*, 88 064049, (2013).
- [42] F. Galeazzi, W. Kastaun, **L. Rezzolla**, and J. A. Font. *Implementation of a simplified approach to radiative transfer in general relativity*. *Phys. Rev. D*, 88 064009, (2013).
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- [44] K. Dionysopoulou, D. Alic, C. Palenzuela, **L. Rezzolla**, and B. Giacomazzo. *General-relativistic resistive magnetohydrodynamics in three dimensions: Formulation and tests*. *Phys. Rev. D*, 88 044020, (2013).
- [45] R. Ciolfi and **L. Rezzolla**. *Twisted-torus configurations with large toroidal magnetic fields in relativistic stars*. *Mon. Not. R. Astron. Soc.*, 435 L43–L47, (2013).
- [46] W. Kastaun, F. Galeazzi, D. Alic, **L. Rezzolla**, and J. A. Font. *Black hole from merging binary neutron stars: How fast can it spin?* *Phys. Rev. D*, 88 021501, (2013).
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- [49] D. Radice and **L. Rezzolla**. *Universality and Intermittency in Relativistic Turbulent Flows of a Hot Plasma*. *Astrophys. J., Lett.*, 766 L10, (2013).
- [50] I. Hinder, A. Buonanno, **L. Rezzolla**, et al. *Error-analysis and comparison to analytical models of numerical waveforms produced by the NRAR Collaboration*. *Classical and Quantum Gravity*, 31 025012, (2013).

- [51] **L. Rezzolla** and K. Takami. *Black-hole production from ultrarelativistic collisions*. *Classical and Quantum Gravity*, 30 012001, (2013).
- [52] B. Giacomazzo, R. Perna, **L. Rezzolla**, E. Troja, and D. Lazzati. *Compact Binary Progenitors of Short Gamma-Ray Bursts*. *Astrophys. J., Lett.*, 762 L18, (2013).
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