Bruno Giacomazzo

Department of Physics Work Address:

> University of Trento Via Sommarive 14 38123 Povo (TN)

Italy

e-mail:

bruno.giacomazzo@unitn.it

Website:

http://www.brunogiacomazzo.org

Research Interests

computational astrophysics; binary neutron stars; gamma-ray bursts; black hole binaries; gravitational waves; relativistic magnetohydrodynamics; neutron star collapse; numerical relativity

Positions

October 2016 - to date:

Associate Professor

Institution:

Department of Physics, University of Trento, Italy

October 2013 - September 2016:

Institution:

Assistant Professor (tenure-track RTDb contract)

Department of Physics, University of Trento, Italy

October 2011 - September 2013:

Research Associate

Institution:

JILA, University of Colorado, Boulder (CO), USA

October 2009 - September 2011:

Research Associate

PostDoc

Institution:

University of Maryland, College Park (MD), USA joint with NASA Goddard Space Flight Center, USA

November 2006 - September 2009:

Institution:

Max Planck Institute for Gravitational Physics

(Albert Einstein Institute), Potsdam, Germany

Education

2002 - 2006:

Ph.D. training at SISSA (International School for Advanced Studies), Trieste, Italy.

Degree:Date:

PhD in Astrophysics. October 26th, 2006.

Supervisor:

Prof. Luciano Rezzolla.

Thesis:

General Relativistic Magnetohydrodynamics: fundamental aspects and applications

1996 - 2002:

Undergraduate studies in Physics at the University of Parma, Parma, Italy.

Degree:

M.Sc. in Physics (Laurea 110/110).

Date:

July 17th, 2002.

Advisor:

Prof. Enrico Onofri.

Thesis:

Development of algorithms to study matter at gravitational collapse

Grants (80000 USD, 313000 EUR, and 68 M cpu hours as a PI)

- PI, 33.4 million core hours PRACE computer time grant 2016153613 "Magneto Effect of Magnetar Level Fields in Binary Neutron Star Mergers", 2017-2018
- co-I (PI Troja), ATCA (Australia Telescope Compact Array) observational grant no. C3059, 2015-2016
- PI, 0.2 million core hours CINECA computer time grant IsC34_HMBNS, 2015-2016
- \bullet PI, ~ 16 million core hours PRACE computer time grant "GRSimStar General Relativistic Simulations of binary neutron Star mergers", 2015-2016
- PI, 1 million service units CINECA computer time grant IsC24_GRMHDNS, 2014-2015
- co-PI (PI Zachariah Etienne), 1 million service units NSF XSEDE computer time grant TG-AST140068, 2014-2015
- PI, MIUR FIR Grant No. RBFR13QJYF (3 years, EUR 313000, 2014-2017)
- collaborator (PI John Baker), NASA Grant No. 13-ATP13-0077 (3 years, \$440000, 2014-2017)
- PI, 4 million service units NSF XSEDE computer time grant TG-PHY110027, 2013-2014
- Pł. NASA Grant No. NNX12AO67G († year, \$80000, 2012-2013)
- Pl. 8 million service units NSF XSEDE computer time grant TG-PHY110027, 2012-2013
- PI, 6.4 million service units NSF Teragrid computer time grant TG-PHY110027, 2011-2012
- co-I (PI Sean McWilliams), 1.5 million service units NSF Teragrid computer time grant TG-AST100027, 2010-2011
- co-PI (PI Erik Schnetter), 21.2 million service units NSF Teragrid computer time grant TG-MCA02N014, 2010

Teaching Experience

- University of Trento (2013 Present)
 - 2016 Present: "Fisica Generale III (Physics III)" (84 hour course for Bachelor students)
 - 2014 Present: "High Energy Astrophysics" (48 hour course for M.Sc. students)
 - 2013 2014: "Computational Physics (Advanced)" (12 hour course for M.Sc. students)
- International Schools
 - July 4 8 2016: 10 hour lectures on "Neutron Star Mergers and Gravitational Waves" given at the 2016 ECT* Doctoral Training Programme
 - May 6 2008: 2 hour invited lecture on "Gravitational Collapse" given at the 3rd VESF School on Gravitational Waves, Cascina (Pisa), Italy
 - March 18 2008: 45 minute lecture on "Numerical Relativity at AEI: Simulating Single and Binary Neutron Stars" given at the *Ferienkurs in Gravitationsphysik 2008* (Semester break courses on Gravitational Physics) at AEI, Potsdam, Germany

Students and Postdocs Mentored (14 undergraduates, 7 graduates, 2 postdocs)

- University of Trento (2013-present)
 - Postdoes: Riccardo Ciolfi, Wolfgang Kastauu
 - PhD students: Takumu Kawamura, Andrea Endrizzi
 - master students: Andrea Endrizzi
 - bachelor students: Elisa Ritondale, Francesco Gramendola, Luigi Bassini, Lumen Boco,
 Lorenzo Zandonella Dall'Aquila, Giulio Isacchini, Riccardo La Placa, Federico Zangrandi,
 Simone Veronese
- JILA, University of Colorado (2011-2013)
 - undergraduate students: John Mark Demopoulos
- University of Maryland and NASA GSFC (2009-2011):
 - graduate students: John Capone (2010 summer internship at NASA Goddard Space Flight Center)
 - undergraduate students: Philip Cowperthwaite (2011 summer internship at NASA Goddard Space Flight Center)
- Albert Einstein Institute (2006-2009):
 - graduate students: Kyriaki Dionysopoulou (advisor L. Rezzolla), Filippo Galeazzi (advisor L. Rezzolla), Aaryn Tonita (advisor L. Rezzolla), Thorsten Kellermann (2011, advisor L. Rezzolla)
 - undergraduate students: David Link (2009, advisor L. Rezzolla), Filippo Galeazzi (2008, advisor L. Rezzolla)

Refereeing Activities

Proposal Reviewer for: NSF (2013, 2015, 2017), NASA (2013), NSERC (2014),

LinkSCEEM/Cy-Tera (2014)

Referee for: Astrophysical Journal, Astrophysical Journal Letters, Astro-

physics and Space Science, Classical and Quantum Gravity, Journal of Fluid Mechanics, Mathematical Reviews, Physical Review D, SIAM Journal on Scientific Computing, SIGMA: Symmetry, Integrability and Geometry: Methods and Appli-

cations

Administrative Duties

October 2016 - Present: Coordinator of International Agreements for the Physics De-

partment of the University of Trento

October 2014 - Present: Member of the committee of the SISSA-Trento Joint Master

Degree

October 2014 - Present: Member of the committee of the Tuebingen-Trento Joint

Master Degree

July 2014 - Present: Colloquium organizer for the Department of Physics of the

University of Trento (Italy)

June 2014 - Present: Member of the Executive and Faculty committees of the

PhD School in Physics at the University of Trento

October 2010 - September 2011: Organizer of Seminars on Computational Astrophysics at

NASA Goddard Space Flight Center, Greenbelt, MD, USA Organizer of Seminars and Journal Clubs for the Numerical

January 2007 - July 2009: Organizer of Seminars and Journal Clubs for the Relativity group at AEI, Potsdam, Germany

November 2004 - October 2006: PhD Students' Representative for the Astrophysics Sector

at SISSA, Trieste, Italy

Conference Organization

November 2016 - Present: Member of the Local Organizing Committee of the Annual

Meeting of the Italian Physical Society (Trento, September

11-15 2017)

May 2014 - Present: Topic Leader for the topic on "Numerical modelling in bi-

nary inspirals" in the EU COST Action NewCompStar

June 13 - 17 2016 Chair of the "Einstein Toolkit EU School and Workshop

2016" (Trento, Italy)

August 11 - 14 2015 Organizer of the "Einstein Toolkit Workshop 2015" (Stock-

holm, Sweden)

April 7 - 8 2008: Organizer (together with R. De Pietri and L. Rezzolla) of

the Whisky Retreat 2008, Parma, Italy

Awards and Societies

April 2017 - Present

Member of the Virgo Collaboration

March 28 2017

Awarded the Italian National Scientific Qualification (Abil-

itazione Scientifica Nazionale) to become a full professor in

astronomy and astrophysics (02/C1)

January 8 2014

Awarded the Italian National Scientific Qualification (Abilitazione Scientifica Nazionale) to become an associate pro-

fessor in theoretical physics (02/A2)

October 1 2009 - Present: September 1 2015 - Present: Member of the American Physical Society Member of the Italian Physical Society

Invited Seminars and Talks (31 in total)

January 25 2017: invited seminar at Stony Brook University (Stony Brook,

NY, USA) on "Magnetic Field Effects in Merging Binary

Neutron Stars"

November 8 - 41 2016: "IV National Congress on GRBs" (Bergamo, Italy)

- invited review talk on "General Relativistic Simulations

of Gamma-Ray Burst Engines"

September 9 2016: international workshop "SHORT GAMMA-RAY BURSTS:

From observation to numerical simulations" (Trento, Italy) - invited review talk on "General Relativistic Simulations of Neutron Star Binaries and Short Gamma-Ray Bursts"

June 4 2015: invited seminar at CENTRA (Instituto Superior Tecnico,

Lisbon, Portugal) on "General Relativistic Simulations of

Binary Neutron Star Mergers"

November 25 2014: invited seminar at University of Parma (Parma, Italy)

on "General Relativistic Simulations of Binary Neutron Star Mergers: Gravitational Waves and Short Gamma-Ray

Bursts"

November 14 2014: invited seminar at Institut für Theoretische Physik, Jo-

hann Wolfgang Goethe-Universitaet (Frankfurt, Germany) on "Investigating the Progenitors of Short Gamma-Ray Bursts via General Relativistic Simulations of Neutron Star

Mergers"

November 11 2014: invited seminar at Technische Universitaet Darmstadt

(Darmstadt, Germany) on "General Relativistic Simulations of Binary Neutron Star Mergers: Gravitational Waves and

Short Gamma-Ray Bursts"

September 15 - 19 2014: Conference "XXI SIGRAV Conference on General Relativity

and Gravitational Physics" (Alessandria, Italy)

- invited talk on "General Relativistic Simulations of Binary Neutron Stars: Gravitational Waves and Gamma-Ray

Bursts"

August 27 2014: invited seminar at Stony Brook University (Stony Brook,

NY, USA) on "General Relativistic Simulations of Binary Neutron Star Mergers: Gravitational Waves and Short

Gamma-Ray Bursts"

July 14 - 18 2014: International Workshop "Astro-GR/VESF-School" (Rome, Italy) - invited review talk on "General Relativistic Simulations of Neutron Star Binaries" invited seminar at the Institute of Astrophysics (Paris, June 23 2014: France) on "General Relativistic Magnetohydrodynamic Simulations of Binary Neutron Star Mergers" International Conference "Sant Cugat Forum on Astro-April 22 - 25 2014: physics: Gravitational Waves Astrophysics" (Sant Cugat, Spain) invited review talk on "Simulations of NS-NS mergers: gravitational waves and electromagnetic signals" International Conference "MICRA 2013" (ECT*, Trento, September 23 - 27 2013: - invited review talk on "General Relativistic Simulations of NS-NS and NS-BH mergers" May 13 - 17 2013: International Conference "FOE Fifty-One Erg" (NCSU, Raleigh, NC, USA) - invited talk on "General Relativistic Simulations of Compact Binary Mergers" April Meeting of the American Physical Society (Denver, April 13 - 16 2013: CO, USA) invited talk on "General Relativistic Magnetohydrodynamic Simulations of Compact Binary Mergers" June 4 - 8 2012: International Conference "CompStar: the physics and astrophysics of compact stars" (Tahiti, French Polynesia) - invited talk on "Magnetized binary neutron star mergers" JSI Mini-Symposium on "Electromagnetic Counterparts to May 11 2012: Gravitational Wave Sources", NASA Goddard Space Flight Center (Greenbelt, MD, USA) - invited talk on "GRMHD Simulations Of Binary Neutron Stars and Binary Black Holes" March 12 2012: invited seminar at CITA (Toronto, Canada) on "General Relativistic Magnetohydrodynamic Simulations of Neutron Stars and Black Holes" September 7 - 9 2011: "Parma Workshop on Numerical Relativity and Gravitational Waves 2011", University of Parma, Italy - invited talk on "Magnetized Binary Neutron Star Mergers" June 13 - 17 2011: International Conference "Astronum 2011", Valencia, Spain - invited talk on "Magnetized Binary Neutron Star Merginvited seminar at JILA, University of Colorado (Boul-October 15 2010: der. Colorado, USA) on "General Relativistic Simulations of Binary Neutron Star Mergers" invited seminar at Canadian Institute for Theoretical As-February 26 2010: trophysics (Toronto, Canada) on "General Relativistic Simulations of Binary Neutron Star Mergers"

February 25 2010: invited seminar at Perimeter Institute (Waterloo,

Canada) on "General Relativistic Simulations of Single and

Binary Neutron Stars"

January 26 - 29 2010: International Conference "14th Gravitational Wave Data

Analysis Workshop", University of Rome "La Sapienza",

Rome, Italy

- invited review talk on "General Relativistic Simulations

of Compact Binaries"

December 9 - 11 2009: Gravitational Wave Bursts Meeting, Chichen-Itza, Yucatan,

Mexico

- invited talk on "Binary NSs and NS-BH mergers: a the-

oretical overview"

November 2 2009: CIGR Collaboration Meeting, GeorgiaTech, Atlanta, Geor-

gia, USA

- invited talk on "The Whisky(MHD) code"

October 19 2009: invited seminar at the Physics Department of the Univer-

sity of Maryland (College Park, Maryland, USA) on "General Relativistic Simulations of Binary Neutron Stars: Grav-

itational Waves and Matter Dynamics"

June 18-20 2009: Workshop on "Probing Neutron Stars with Gravitational

Waves", State College, Pennsylvania, USA

- invited talk on "GR Simulations of Binary NSs: GWs

and matter dynamics"

February 17 2009: ILIAS 6th Annual Meeting, Dresden, Germany

- invited talk on "Fully General Relativistic Simulations of

Binary Systems"

November 13 2008: invited seminar at the Department of Mathematics of the

Katholieke Universiteit Leuven (Leuven, Belgium) on "Fully General Relativistic Simulations of Binary Neutron Stars

Mergers"

August 8 2008: Colloquium at NSSTC (Huntsville, Alabama, USA) on

"Fully General Relativistic Simulations of Binary Neutron

Stars Mergers"

Contributed Seminars and Talks (48 in total, only most recent ones listed)

"April Meeting" of the American Physical Society (Wash-January 28 - 31 2017:

ington DC, USA), talk on "General Relativistic Simulations

of Low-Mass Magnetized Binary Neutron Star Mergers"

Conference "CoCoNut Meeting 2016" (Valencia, Spain),

talk on "General Relativistic Simulations of Binary Neutron

Star Mergers with WhiskyMHD"

"Workshop on Numerical Relativity in matter spacetimes December 13 2016:

for Gravitational Wave astronomy (NRmGW)" (Valencia, Spain), talk on "Magnetic Field Effects in Neutron Star Bi-

naries"

Conference "Meeting of the Italian Physical Society (SIF)" September 26 - 30 2016:

(Padova, Italy), talk on "High-Mass Magnetized Binary Neutron Star Mergers And Short Gamma-Ray Bursts"

Workshop "NewCompStar meeting on oscillations and in-September 13 - 14 2016

stabilities in neutron stars" (Southampton, UK), talk on "Structure of Stable Binary Neutron Star Merger Remnants:

A Case Study"

April Meeting of the American Physical Society (Salt Lake April 16 - 19 2016:

City, UT, USA), talk on "High-Mass Magnetized Binary Neutron Star Mergers and Short Gamma-Ray Bursts"

Conference "28th Texas Symposium on Relativistic Astro-December 13 - 18 2015:

physics" (Geneva, Switzerland), talk on "Magnetar forma-

tion from the merger of binary neutron stars"

Conference "Meeting of the Italian Physical Society (SIF)" September 21 - 25 2015:

(Rome, Italy), talk on "Magnetar formation from the merger

of binary neutron stars"

Conference "Fourthteenth Marcel Grossmann Meeting" July 13 - 18 2015:

> (Rome, Italy), talk on "GRMHD simulations of binary neutron star mergers and the central engine of short gamma-ray

bursts"

Public Seminars

December 14 - 16 2016:

"The Bizarre Universe: Black Holes, Quasar, Gamma-Ray September 16 2006:

Bursts", SISSA OpenDay, Trieste, Italy

"The Bizarre Universe: Black Holes, Quasar, Gamma-Ray October 25 2005:

Bursts", seminar given to high-school students of UWCAd (United World College of the Adriatic) visiting SISSA, Tri-

este, Italy

"The Bizarre Universe: Black Holes, Quasar, Gamma-Ray September 18 2004:

Bursts", SISSA OpenDay, Trieste, Italy

Press Releases

- October 10, 2012: JHLA research highlight, "Messages from the Abyss", https://jila.colorado.edu/news-highlights/messages-abyss
- September 27, 2012: NASA Goddard press release, "Simulations Uncover 'Flashy' Secrets of Merging Black Holes", http://www.nasa.gov/topics/universe/features/black-hole-secrets.html
- April 7, 2011: NASA press release No. 11-103, "Breakthrough Study Confirms Cause Of Short Gamma-Ray Bursts", http://www.nasa.gov/home/hqnews/2011/apr/HQ_11-103_Gamma_Rays.html

Numerical Codes

- · developer of the general relativistic magnetohydrodynamic code Whisky
- developer of the first complete exact Riemann solver for relativistic MHD

Computational Skills

Operating Systems:

DOS, Linux, Mac OS X, Windows

Programming Languages:

C, C4+, Fortran 77, Fortran 90

Software:

Amira, Mathematica, Matlab, OpenDX, VisIt

Working experience:

Computer Management Assistant of the Astrophysics sector

at SISSA (Nov 2004 - Oct 2006)

Scientific Visualization:

excellent experience in visualizing results from numerical simulations through the use of programs such as VisIt, Mat-

lab, and OpenDX

High-performance computing:

excellent experience in using several HPC resources

Personal

- Citizenship: Italian citizen
- Spoken Languages: Italian (native), English (fluent)

Refereed Publications

(h-index=22, more than 1500 citations in NASA ADS)

- Ciolfi R., Kastaun W., Giacomazzo B., Endrizzi A., Siegel D., Perna R. 2017, General relativistic magnetohydrodynamic simulations of binary neutron star mergers forming a long-lived neutron star, Phys. Rev. D, 95, 063016
- Kastaun W., Ciolfi R., Giacomazzo B. 2016, Structure of Stable Binary Neutron Star Merger Remnants: a Case Study, Phys. Rev. D, 94, 044060
- Kawamura T., Giacomazzo B., Kastann W., Cioffi R., Endvizzi A., Baiotti L., Perna R. 2016, Binary Neutron Star Mergers and Short Gamma-Ray Bursts: Effects of Magnetic Field Orientation, Equation of State, and Mass Ratio. Phys. Rev. D, 94, 064012
- Endrizzi A., Ciolfi R., Giacomazzo B., Kastaun W., Kawamura T. 2016, General Relativistic Magnetohydrodynamic Simulations of Binary Neutron Star Mergers with the APR4 Equation of State, Classical and Quantum Gravity, 33, 164001
- Perna R., Lazzati D., Giacomazzo B. 2016, Short Gamma-Ray Bursts from the Merger of Two Black Holes, ApJ Letters, 821, L18
- Giacomazzo B., Zrake J., Duffell P., MacFadyen A. I., Perna R. 2015. Producing Magnetar Magnetic Fields in the Merger of Binary Neutron Stars, ApJ, 809, 39
- Dall'Osso S., Giacomazzo B., Perna R., and Stella L. 2015, Gravitational waves from massive magneturs formed in binary neutron star mergers, ApJ, 798, 25
- Read J. S., Baiotti L., Creighton J. D. E., Friedman J. L., Giacomazzo B., Kyutoku K., Markakis C., Rezzolla L., Shibata M., Taniguchi K. 2013, Matter effects on binary neutron star waveforms, Phys. Rev. D, 88, 044042
- Dionysopoulou K., Alic D., Palenzuela C., Rezzolla L., and Giacomazzo B. 2013, General-Relativistic Resistive Magnetohydrodynamics in three dimensions: formulation and tests, Phys. Rev. D, 88, 044020
- Giacomazzo B. and Perna R. 2013, Formation of Stable Magnetars from Binary Neutron Star Mergers, ApJ Letters, 771, L26
- 11. Andersson N., Baker J., Belczynski K., Bernuzzi S., Berti E., Cadonati L., Cerda-Duran P., Clark J., Favata M., Finn L. S., Fryer C., Giacomazzo B., et al 2013, The Transient Gravitational-Wave Sky, Classical and Quantum Gravity, 30, 193002 (note: I was one of the main authors and responsible in particular of section IIA "Compact Object Binaries and Short Gamma-ray Bursts" and of the Conclusions)
- Giacomazzo B., Perna R., Rezzolla L., Troja E., and Lazzati D. 2013, Compact Binary Progenitors of Short Gamma-Ray Bursts, ApJ Letters, 762, L18
- 13. Giacomazzo B. and Perna R. 2012, General Relativistic Simulations of Accretion Induced Collapse of Neutron Stars to Black Holes, ApJ Letters, 758, L8
- Giacomazzo B., Baker J. G., Miller M. C., Reynolds C. S., and van Meter J. R. 2012, General Relativistic Simulations of Magnetized Plasmas around Merging Supermassive Black Holes, ApJ Letters, 752, L15

- 15. Giacomazzo B., Rezzolla L., and Stergioulas N. 2011, Collapse of differentially-rotating neutron stars and cosmic censorship, Phys. Rev. D. 84, 024022
- Baiotti L., Damour T., Giacomazzo B., Nagar A., and Rezzolla L. 2011, Accurate numerical simulations of inspiralling binary neutron stars and their comparison with effective-one-body analytical models, Phys. Rev. D, 84, 024017
- 17. Rezzolla L., Giacomazzo B., Baiotti L., Granot J., Kouveliotou C., and Aloy M. A. 2011, The missing link: Merging neutron stars naturally produce jet-like structures and can power short Gamma-Ray Bursts, ApJ Letters, 732, L6
- Giacomazzo B., Rezzolla L., and Baiotti L. 2011, Accurate evolutions of inspiralling and magnetized neutron-stars: equal-mass binaries, Phys. Rev. D, 83, 044014
- 19. Baiotti L., Damour T., Giacomazzo B., Nagar A., and Rezzolla L. 2010, Analytic modeling of tidal effects in the relativistic inspiral of binary neutron stars, Phys. Rev. Letters, 105, 261101
- Rezzolla L., Baiotti L., Giacomazzo B., Link D., and Font J. A. 2010, Accurate evolutions of unequal-mass neutron-star binaries: properties of the torus and short GRB engines, Classical and Quantum Gravity, 27, 114105
- 21. Corvino G., Rezzolla L., Bernuzzi S., De Pietri R., and Giacomazzo B. 2010, On the shear instability in relativistic neutron stars, Classical and Quantum Gravity, 27, 114104
- Giacomazzo B., Rezzolla L., and Baiotti L. 2009, Can magnetic fields be detected during the inspiral of binary neutron stars?, MNRAS Letters, 399, L164-L168
- Baiotti L., Giacomazzo B., and Rezzolla L. 2009, Accurate evolutions of inspiralling neutronstar binaries: assessment of the truncation error, Classical and Quantum Gravity, 26, 114005
- Mizuno Y., Zhang B., Giacomazzo B., Nishikawa K.-I., Hardee P. E., Nagataki S., and Hartmann D. H. 2009, Magnetohydrodynamic Effects in Propagating Relativistic Jets: Reverse Shock and Magnetic Acceleration, ApJ Letters. 690, L47-L51
- Kellerman T., Baiotti L., Giacomazzo B., and Rezzolla L. 2008, An improved formulation of the relativistic hydrodynamics equations in 2D Cartesian coordinates, Classical and Quantum Gravity, 25, 225007
- Meliani Z., Keppens R., and Giacomazzo B. 2008, Faranoff-Riley type I jet deceleration at density discontinuities: Relativistic hydrodynamics with realistic equation of state, Astronomy & Astrophysics, 491, 321-337
- Baiotti L., Giacomazzo B., and Rezzolla L. 2008, Accurate evolutions of inspiralling neutronstar binaries: prompt and delayed collapse to black hole, Phys. Rev. D, 78, 084033
- Giacomazzo B. and Rezzolla L. 2007. WhiskyMHD: a new numerical code for general relativistic magnetohydrodynamics, Classical and Quantum Gravity, 24, 235-258
- Giacomazzo B. and Rezzolla L. 2006, The Exact Solution of the Riemann Problem in Relativistic Magnetohydrodynamics, J. Fluid Mech., 562, 223-259

Publications in Conference Proceedings

- 1. Aloy M. A., Rezzolla L., **Giacomazzo B.**, and Obergaulinger M. 2012, Powering Short GRBs by Mergers of Moderately Magnetized Neutron Stars. proceedings of the international conference "Numerical modeling of space plasma flows (astronum 2011)", ASP Conference Series, 459, 49
- Font J. A., Rezzolla L., Giacomazzo B., Baiotti L., and Link D. 2011, Towards modelling the central engine of short GRBs, proceedings of the "Spanish Relativity Meeting (ERE 2010)", Journal of Physics: Conference Series. 314, 012013
- Giacomazzo B., Rezzolla L., Baiotti L., Link D., and Font J. A. 2011, General Relativistic Simulations of Binary Neutron Star Mergers, proceedings of the "Gamma Ray Bursts 2010 Conference", AIP Conference Series, 1358, 187-190
- Mizuno Y., Zhang B., Giacomazzo B., Nishikawa K.-I., Hardee P. E., Nagataki S., and Hartmann D. H. 2010. Magnetohydrodynamic Effects in Relativistic Ejecta, proceedings of the international conference "High-Energy Phenomena in Relativistic Outflows II", International Journal of Modern Physics D, 19, 991-996
- Mizuno Y., Zhang B., Giacomazzo B., Nishikawa K.-I., Hardee P. E., Nagataki S., and Hartmann D. H. 2009, Magnetohydrodynamic Effects in Propagating Relativistic Ejecta: Reverse Shock and Magnetic Acceleration, proceedings of the "GAMMA-RAY BURST: Sixth Huntsville Symposium", AIP Conference Series, 1133, 229-231

General Public Articles

 L. Baiotti and B. Giacomazzo, "Chi fa l'onda", article in italian about sources of gravitational waves published by INFN (Italy) on the public magazine Asimmetrie, 5/9.07. September 2007