

# ALESSANDRA CORSI

## Curriculum Vitae et Studiorum

### Contact information

- **Post:** Texas Tech University, Physics Department, Box 41051, Lubbock, TX 79409-1051
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### Education

- **2007:** Astronomy Ph.D, University of Rome Sapienza. Thesis title: “Gamma-ray Burst afterglows: fireball physics and clues to the progenitor” - Advisors: Prof. Enrico Massaro and Dr. Luigi Piro.
- **2003:** Laurea in Physics cum laude, University of Rome Sapienza.

### Academic positions

- **2014 (August) - present:** Assistant Professor of Physics, Texas Tech University.
- **2012 - 2014 (July):** Assistant Professor of Physics, The George Washington University.
- **2010 - 2012:** Post-doc, California Institute of Technology (Advisors: Prof. Alan J. Weinstein and Prof. Shrinivas R. Kulkarni).
- **2008 - 2010:** Post-doc, University of Rome Sapienza & Pennsylvania State University (Advisors: Prof. Fulvio Ricci and Prof. Peter Meszaros).
- **2007 - 2008:** Post-doc, National Institute for Astrophysics (INAF/IASF-Rome) and Rome University Sapienza (Advisors: Dr. Luigi Piro and Prof. Fulvio Ricci).

### Professional Memberships

- **American Astronomical Society**, member since 2013.
- **American Physical Society**, member since 2012.
- **LIGO Scientific Collaboration**, member since 2010.
- **Palomar Transient Factory Collaboration**, member since 2010.
- **Virgo Collaboration**, 2007-2010.

### Honors, Awards & Scholarships

- AAS Bruno Rossi Prize for high-energy astrophysics (as part of the LSC; 2017).
- UK Royal Astronomical Society Group Achievement Award in Astronomy (as part of the LSC; 2017).
- Honorary Adjunct Assistant Professor, TTU Department of Mathematics and Statistics (2016).
- Gruber Cosmology Prize (as part of the LSC; 2016).
- Special Breakthrough Prize in Fundamental Physics (as part of the LSC; 2016).
- Fellow of the Research Corporation for Science Advancement (Scialog) (TDA, 2015-2016).
- National Science Foundation Early Career Award (2015).
- Distinguished PhD scholar award, Rome University Sapienza PhD program 30th anniversary (2014).
- Albert Einstein Institute, Max Planck (Hannover, Germany) - 1 month visiting scholarship (2010).
- Penn State Institute for Gravitation and the Cosmos - 1 month visiting scholarship (2009).
- Invited to the celebration of the woman’s day at Quirinale by the President of the Italian Republic Prof. Giorgio Napolitano, as a woman distinguished for professional merits (2009).
- Angelo Della Riccia Foundation - post-doctoral award (2009).
- Angelo Della Riccia Foundation - post-doctoral award (2008).
- Italian l’Oréal-UNESCO National Award “For Women in Science” (2008).
- INFN scholarship for graduate students (2006).
- INFN (Italian National Institute for Nuclear Physics) scholarship for graduate students (2005).

### **Selected (PI only) Approved Research Grants**

- PI - NSF-CAREER AST-1455090, “CAREER: Radio and gravitational-wave emission from the largest explosions since the Big Bang” (720kUSD; 2015-2020).
- PI - Chandra Cycle 18 GI, “Chandra late-time observations of PTF11QCJ: CSM-interacting SN or off-axis GRB?” (35.8kUSD; 2017-2018)
- PI - Chandra DDT #17508570, “iPTF17cw: A relativistic broad-lined type Ic supernovae discovered by iPTF” (7.4kUSD; 2017-2018)
- PI - ngVLA Community Study, “Cosmic Explosions and Collisions in the ngVLA Era,” NSF/NRAO (5.7kUSD; 2016-2017).
- PI - NASA/Swift Cycle 12 GI, “Joint iPTF-VLA-Swift follow-up of aLIGO events” (39kUSD; 2016-2017).
- PI - NASA/Swift Cycle 11 GI, “Unraveling the missing link between 1998bw-like SNe and GRBs” (40kUSD; 2015-2016).
- PI - NASA/Swift Cycle 10 GI, “Unraveling the missing link between 1998bw-like SNe and GRBs” (30kUSD; 2014-2015).
- PI - NSF-Gravity PHY-1307623, “Gravitational waves, gamma-ray bursts, and the multi-messenger exploration of the transient sky” (126kUSD; 2013-2016).
- PI - Chandra DDT #501797, “PTF 11QCJ: first discovery of a radio luminous Ibn SN” (12.2kUSD; 2011 - 2012).
- PI - Chandra DDT #501794, “PTF 11QCJ: first discovery of a radio luminous Ibn SN” (7kUSD; 2011 - 2012).
- PI - Chandra DDT #501793, “Supernova PTF 11qej: first discovery of a radio luminous Ic SN interacting with an He shell? ” (10.1kUSD; 2011 - 2012)
- PI - Spitzer proposal “PTF 11QCJ: first discovery of a radio luminous Ibn SN” (2kUSD; 2011 - 2012).
- PI - NASA/Swift Cycle 7 GI, “Millimeter and optical follow-up of Swift Gamma-Ray Bursts: reverse shock emission and high redshift events” (15kUSD; 2011 - 2012).

### **Selected (PI only) Approved Observing Proposals**

- PI - VLA/17A-237, “Radio follow-up of GWs during Advanced LIGO O3” (2017-2018).
- PI - ALMA/2016.1.00950.T, ”Unraveling the physics of broad-line type Ic supernovae with ALMA” (2016-2017).
- PI - VLA/16B-043, “VLA follow-up of iPTF Ib/c SNe: An efficient quest for relativistic explosions” (2016-2017).
- PI - VLA/16B-044, “Discovering GBM GRB Afterglows with iPTF+VLA” (2016-2017).
- PI - ALMA/2015.1.00910.T, “Unraveling the physics of broad-line type Ic supernovae with ALMA” (2015-2016).
- PI - VLA/16A-206, “Radio counterparts to gravitational waves in the Advanced LIGO Era” (2015-2016).
- PI - VLA/15B-288, “Probing the magnetar scenario for GRBs with the VLA” (2015-2016).
- PI - VLA/15A-339, “Radio fingerprints of relativistic explosions in the advanced LIGO era” (2014-2015).
- PI - VLA/15A-314, “VLA follow-up of iPTF Ib/c SNe: An efficient quest for relativistic explosions” (2014-2015).
- PI - VLA/14B-490, “GRB 141121A: An ultra-long GRB with a reverse shock?” (2014-2015).
- PI - VLA/14A-430, “Probing the composition of GRB jets with VLA: a quest for reverse shocks” (2013-2014).
- PI - VLA/14A-434, “VLA follow-up of iPTF Ib/c SNe: An efficient quest for relativistic explosions” (2013-2014).
- PI - VLA/14A-476, “Long-term follow-up of the radio loud supernova PTF11qej with the VLA” (2013-2014).

- PI - Spitzer proposal #10083, “Measuring the IR emission from PTF11qcj host galaxy” (2013-2014).
- PI - VLA/13A-508, “Late-Time Follow-up of GRB 130215A with the VLA” (2012-2013).
- PI - VLA/13A-411, “Probing the composition of GRB jets with JVLA: a quest for reverse shocks” (2012-2013).
- PI - VLA/12B-195, “Radio follow-up of exotic Ic SNe discovered by PTF” (2012-2013).
- PI - VLA/11B-247, “PTF 11QCJ: first discovery of a radio luminous Ibn SN” (2011-2012).
- PI - VLA/11B-034, “Radio Follow-up of Broad Line Ic SNe Discovered by the Palomar Transient Factory” (2011-2012).
- PI - VLA/11A-227, “Search for early and late radio emission from broad-line Ic SN detected by PTF” (2011-2012).
- PI - VLA/10C-227, “Late time follow-up of the broad-line Ic SN PTF10bzf” (2010).

### Selected Conference Talks (invited only), Colloquia, and Seminars

- “Radio and gravitational wave studies of cosmic explosions and collisions”, colloquium, (Physics Department, Texas A&M Commerce; To be given in Fall 2017).
- “Radio and gravitational wave studies of cosmic explosions and collisions”, colloquium, (Physics and Astronomy Department, University of Texas San Antonio; To be given in Fall 2017).
- “Cosmic Collisions (and explosions) in the ngVLA Era”, Developing the ngVLA science program workshop (Socorro, NM; 2017).
- “LIGO - Gravitational Wave Detection and Future Plans”, XIth International Conference of Interconnections between Particle Physics and Cosmology (Corpus Christi, TX; 2017).
- “Supernovae driven by Relativistic Engines,” Boutiques & Experiments 2016: Radio Astronomy, CalTech (Pasadena, CA; 2016).
- “Multi-messenger exploration of the transient sky with LIGO and the VLA”, 15th Synthesis Imaging Workshop (Socorro, NM; 2016).
- “The future of ground based GW astrophysics”, 2016 April Meeting of the American Physical Society (Salt Lake City, UT; 2016).
- “Radio and gravitational waves from the most relativistic cosmic explosions”, Building Astronomy in Texas Symposium (Texas A&M; 2015).
- “Electromagnetic follow-up and Transients Astronomy”, lecture, Caltech International Gravitational Wave Astrophysics School (Pasadena, CA; 2015).
- “Electromagnetic follow-up of gravitational waves”, Paving the Way to multi-Wavelength Astronomy Workshop (Leiden, The Netherlands; 2015).
- “Astrophysics of Gravitational Wave Transients,” Planning for the post-detection era in gravitational wave detectors and astrophysics Workshop (Silver Springs, MD; 2015).
- “Gravitational Waves from Gamma-ray bursts”, Ioffe Workshop on GRBs and other explosive transients: Twenty Years of Konus-Wind Experiment (St. Petersburg, Russia; 2014).
- “Gamma-ray bursts, gravitational waves, and multi-messenger exploration of the transient sky”, colloquium (Physics and Astronomy Department, Texas A&M; 2014).
- “Gamma-ray bursts, gravitational waves, and multi-messenger exploration of the transient sky”, colloquium (Physics Department, Florida Atlantic University; 2014).
- “Gamma-ray bursts, gravitational waves, and multi-messenger exploration of the transient sky”, colloquium (Physics Department, Texas Tech; 2014).
- “Gamma-ray bursts, gravitational waves, and multi-messenger exploration of the transient sky”, colloquium (ITC, Harvard-Smithsonian Center for Astrophysics; 2013).
- “Compact-object Models and Astrophysics Extraction”, GR meeting, panel discussion member (South Padre Island, TX; 2013).
- “Joining the Electromagnetic and Gravitational Wave Skies”, AAS meeting, panel discussion member (Long Beach, CA; 2013).
- “Gravitational Waves from Gamma-ray Bursts”, Fall 2012 GRB Symposium (Malaga, Spain; 2012).
- “Electromagnetic follow-up of Gravitational Wave events”, Gravitational-wave Physics & Astronomy Workshop (Hannover, Germany; 2012).

- “Gravitational Waves from Gamma-ray Bursts”, Swift & Fermi Gamma-ray Burst Conference (Munich, Germany; 2012).
- “Gravitational waves from Supernovae and Gamma-Ray Bursts”, IAU Symposium 279 (Nikko, Japan; 2012).
- “GW and EM Messengers from Magnetars and GRBs”, Inaugural Workshop on Astrophysical Multi-messenger Observatory Network” (State College, PA; 2011).
- “LIGO and the multi-messenger exploration of the transient sky”, Caltech/LIGO-lab seminar (Pasadena, CA; 2011).
- “LIGO in the multi-messenger astrophysics era”, IGC colloquium (Penn State University; 2010).
- “Gravitational Waves and High energy emission from GRBs: an observational review”, COSPAR meeting (Bremen, Germany; 2010).
- “Gamma-Ray Bursts and Gravitational Waves: a tool for multi-messenger astrophysics”, colloquium (Astro-Particle and Cosmology Institute, CNRS Paris; 2009).
- “Gamma-Ray Bursts and Gravitational Waves: a tool for multi-messenger astrophysics”, colloquium (Max Planck Institute for Gravitational Wave Physics, Hannover, Germany; 2009).
- “High energy emission from short GRBs”, 7th AGILE Workshop (Rome, Italy; 2009).
- “Search for Gravitational Waves associated with GRB 050915a using the Virgo detector”, seminar (Penn State Center for Gravitational Wave Physics; 2008).
- “Exploring the nature of GRB progenitors: afterglow analysis and search for gravitational waves”, seminar (National Institute for Nuclear Physics in Frascati, Rome, Italy; 2008).
- “Gamma-Ray Burst afterglows: fireball physics & clues to the progenitor”, seminar (Osservatorio Astronomico di Brera, Italy; 2007).
- “Gamma-Ray Burst afterglows: fireball physics & clues to the progenitor”, seminar (INAF-IASF Rome; 2007).

### Postdoctoral, Graduate, Undergraduate, and High-School Advising

- Postdoctoral Advisor, Dr. Dario Carbone, TTU (2017 - present).
- Postdoctoral Advisor, Dr. Nipuni Palliyaguru, TTU (2015 - present).
- Postdoctoral Advisor, Dr. Robert Coyne, TTU (2015 - 2017).
- Postdoctoral Advisor, Dr. Peter Veres, GWU (2013 - 2014).
- Graduate Advisor, Eric Sowell, TTU (2016 - present).
- Graduate Advisor, Robert Coyne, GWU/TTU (2012 - 2015).
- Undergraduate Research Advisor, Kyle Artkop, TTU (2017 - present).
- Undergraduate Research Advisor, Deven Bhakta, TTU (2014-2017).
- Undergraduate Research Advisor, Chance Norris, TTU (2015-2016).
- Undergraduate Research Advisor, Brody Moore, TTU (2015).
- Undergraduate Research Advisor, Carrah Osborn, TTU (2015).
- Undergraduate Research Advisor, Kyle Stewart, TTU (2015).
- Undergraduate Research Advisor, Derek Brehm, GWU (2012-2014).
- Undergraduate Research Advisor, Ajayi Scott-Robinson, GWU (2013-2014).
- Undergraduate Research Co-Advisor, Sibilla Di Pace, Sapienza University (2009).
- Summer Research Advisor, Matteo Di Giovanni, TTU (2015).
- Summer Research Advisor, Igor Andreoni, TTU (2013).
- Summer Research Advisor, Maria Concetta Tringali, CalTech (2012).
- Clark Scholar (high-school) Advisor, Nishit Mishra, TTU (2016 - 2017).
- High-School Research Advisor, Frank Padgett, GWU (2014).

### Teaching experience

- **Fall 2017:** Advanced Electricity and Magnetism II (graduate level).
- **Fall 2015, Spring 2016, Fall 2016, Spring 2017:** Solar System Astronomy for non-science majors ( $\approx 130 - 180$  students; “think-pair-share” and clickers).

- **Spring 2015:** Radiative processes in Astrophysics (graduate level).
- **Spring 2014:** Extra-galactic Astronomy course for non-science majors (“The origin of the Cosmos”;  $\approx 40 - 60$  students; “SCALE-UP” format).
- **Spring 2013, Fall 2013:** Extra-galactic Astronomy course for non-science majors (“The origin of the Cosmos”;  $\approx 40 - 60$  students; “think-pair-share” approach and clickers).

### Service to Profession

- Co-chair of the Publication & Presentation Committee of the LIGO Scientific Collaboration (2016-present).
- Journal referee for: Nature Physics, the Astrophysical Journal, the Astrophysical Journal Letters, Monthly Notices of the Royal Astronomical Society, Physical Review D, General Relativity and Gravitation, and the Physics Teacher (2005 - present).
- Grant Referee for: the National Science Foundation (NSF); the Israeli Science Foundation; NASA post-doctoral fellowships; NASA Chandra, Fermi, and Swift GI programs; Atacama Large mm/submm Array observing program (2013 - present).
- Scientific Organizing Committee, 22nd International Conference on General Relativity and Cosmology (Valencia, Spain, 2019).
- Scientific Organizing Committee (Chair of the Relativistic Astrophysics Session), 21st International Conference on General Relativity and Cosmology (New York, 2016).
- Scientific Organizing Committee (member), The Explosive Death of Massive Stars - COSPAR science assembly (Istanbul, Turkey).
- Scientific Organizing Committee (member), The Explosive Death of Massive Stars - COSPAR science assembly (Moscow, 2014).
- Scientific and Local Organizing Committee (Chair), LIGO-Virgo-Fermi collaborations international workshop on Gamma-ray Bursts and Gravitational Waves (Washington DC, 2013).
- Convener for the LIGO External Trigger working group weekly tele-conferences (2011).
- Local Organizing Committee (member), 14th Gravitational Wave Data Analysis Workshop (Rome, 2010).

### Service to University

- Chair, Colloquium Committee, TTU Physics and Astronomy Department (2015 - 2017).
- Member, Undergraduate Program Catalog Changes Committee, TTU Physics and Astronomy Department (2016 - present).
- Interviewee, TTU Arts and Sciences campaign (2016).
- Member, Undergraduate Committee, GWU Physics Department (2012 - 2014).
- Member, Colloquium Committee, GWU Physics Department (2012 - 2014).
- Member, Physics Curriculum Development Committee, GWU Physics Department (2013 - 2014)

### Outreach and Media Communications

- Keynote Speaker, South Plains Regional Science and Engineering Fair (2017).
- Invited lecturer, “Solar system exploration: A journey through our cosmic neighborhood”, TTU Osher Lifelong Learning Institute (2016).
- Keynote speaker, “A global venture in Astrophysics and Higher Education”, Regional Meeting of the Texas Women in Higher Education (2016).
- Interviewee, LIGO discovery of gravitational waves, Nature News (2016).
- Interviewee, LIGO discovery of gravitational waves, APS News (2016).
- Interviewee, LIGO discovery of gravitational waves, Houston Chronicle (2016).
- Interviewee, LIGO discovery of gravitational waves, Lubbock Avalanche Journal (2016).
- Interviewee, LIGO discovery of gravitational waves, KCBD TV news (2016).
- Radio Spot, LIGO discovery of gravitational waves, KTTZ radio (2016).
- Career Panel member, the TTU Emmy Noether High School Mathematics Day (2015).

- Volunteer participant, “2014 Astronomy Festival on the National Mall” (2014).
- Volunteer lecturer, “Hunting for the most powerful cosmic explosions: Gamma-ray bursts and their gravitational-wave fingerprints”, TC Williams High School (Alexandria, VA; 2013).
- Interviewee, “PANORAMA” magazine (Ed. Mondadori), section dedicated to “In-course Discoveries” of “PANORAMA” (2009).
- Interviewee, “ELLE” magazine (Ed. Hachette Rusconi), section dedicated to “New Excellences” (2009).
- Interviewee, Italian National radio station “Radio tre”, describing research accomplishments (2009).

## Bibliography

My complete list of publications can be found at [http://adsabs.harvard.edu/cgi-bin/nph-abs\\_connect?db\\_key=AST&db\\_key=PHY&aut\\_req=YES&aut\\_logic=AND&obj\\_logic=OR&author=corsi%2C+alessandra&nr\\_to\\_return=2000&start\\_nr=1](http://adsabs.harvard.edu/cgi-bin/nph-abs_connect?db_key=AST&db_key=PHY&aut_req=YES&aut_logic=AND&obj_logic=OR&author=corsi%2C+alessandra&nr_to_return=2000&start_nr=1). Please note that NASA ADS also selects publications from another A. Corsi. These are not about astronomy and can be easily identified. Below I report a list of selected publications, as well as a complete list of all refereed journal articles in my bibliography (does not include ATELS, GCNs, and unrefereed publications). Other relevant non-refereed publications and discovery telegrams and circulars are listed separately.

## Selected Publications

### Selected small collaboration papers

1. Whitesides, L., Lunnan, R., Kasliwal, M.M., Perley, D.A., **Corsi, A.**, et al., “iPTF16asu: A Luminous, Rapidly-Evolving, and High-Velocity Supernova”, *The Astrophysical Journal*, submitted (2017).
2. **Corsi, A.**, Cenko, S.B., Kasliwal, M.M., Quimby, R., Kulkarni, S.R. et al., “iPTF17cw: An engine-driven supernova candidate discovered independent of a gamma-ray trigger”, *The Astrophysical Journal*, in press (2017).
3. Bhalerao, V., Kasliwal, M.M., Bhattacharya, D., **Corsi, A.**, Aarthy, E., et al., “A tale of two transients: GW170104 and GRB170105A”, *The Astrophysical Journal*, in press (2017).
4. **Corsi, A.**, Gal-Yam, A., Kulkarni, S.R., Frail, D.A., Mazzali, P.A., et al., “Radio Observations of a Sample of Broad-line Type Ic Supernovae Discovered by PTF/IPTF: A Search for Relativistic Explosions”, *The Astrophysical Journal*, Volume 830, Issue 1, article id. 42, 18 pp. (2016).
5. Palliyaguru, N.T., **Corsi, A.**, Kasliwal, M.M., Cenko, S.B., Frail, D.A., et al., “Radio Follow-up of Gravitational-wave Triggers during Advanced LIGO O1”, *The Astrophysical Journal Letters*, Volume 829, Issue 2, article id. L28, 14 pp. (2016).
6. Kasliwal, M.M., Cenko, S.B., Singer, L.P., **Corsi, A.**, Cao, Y., et al., “iPTF Search for an Optical Counterpart to Gravitational-wave Transient GW150914”, *The Astrophysical Journal Letters*, Volume 824, Issue 2, article id. L24, 9 pp. (2016).
7. Coyne, R., **Corsi, A.**, Owen, B.J., “Cross-correlation method for intermediate-duration gravitational wave searches associated with gamma-ray bursts”, *Physical Review D*, Volume 93, Issue 10, id.104059 (2016).
8. Taddia, F., Fremling, C., Sollerman, J., **Corsi, A.**, Gal-Yam, A., et al., “iPTF15dtg: a double-peaked Type Ic supernova from a massive progenitor”, *Astronomy & Astrophysics*, Volume 592, id.A89, 14 pp. (2016).
9. Veres, P., **Corsi, A.**, Frail, D.A., Cenko, S.B., Perley, D.A., “Early-time VLA Observations and Broadband Afterglow Analysis of the Fermi/LAT Detected GRB 130907A”, *The Astrophysical Journal*, Volume 810, Issue 1, article id. 31, 11 pp. (2015).

10. Cenko, S.B., Urban, A.L., Perley, D.A., Horesh, A., **Corsi, A.**, et al., "iPTF14yb: The First Discovery of a Gamma-Ray Burst Afterglow Independent of a High-energy Trigger.", *The Astrophysical Journal Letters*, Volume 803, Issue 2, article id. L24, 6 pp. (2015).
11. Perley, D., Cenko, B., **Corsi, A.**, Tanvir, N.R., Levan, A.J., et al., "The Afterglow of GRB 130427A from 1 to  $10^{16}$  GHz", *The Astrophysical Journal*, Volume 781, Issue 1, article id. 37, 21 pp. (2014).
12. **Corsi, A.**, Ofek, E., Gal-Yam, A., Frail, D.A., Kulkarni, S.R., et al., "A Multi-wavelength Investigation of the Radio-loud Supernova PTF11qcj and its Circumstellar Environment", *The Astrophysical Journal*, Volume 782, Issue 1, article id. 42, 18 pp. (2014).
13. Horesh, A., Kulkarni, S.R., **Corsi, A.**, Frail, D.A., Cenko, S.B., et al., "PTF 12gzk? A Rapidly Declining, High-velocity Type Ic Radio Supernova", *The Astrophysical Journal*, Volume 778, Issue 1, article id. 63, 5 pp. (2013).
14. Cenko, S.B., Kulkarni, S.R., Horesh, A., **Corsi, A.**, Fox, D., et al. "Discovery of a Cosmological, Relativistic Outburst via its Rapidly Fading Optical Emission", *The Astrophysical Journal*, Volume 769, Issue 2, article id. 130, 16 pp. (2013).
15. **Corsi, A.**, Ofek, E., Gal-Yam, A., Frail, D.A., Poznanski, D., et al., "Evidence for a Compact Wolf-Rayet Progenitor for the Type Ic Supernova PTF 10vgv", *The Astrophysical Journal Letters*, Volume 747, Issue 1, article id. L5, 5 pp. (2012).
16. **Corsi, A.**, Owen, B.J., "Maximum gravitational-wave energy emissible in magnetar flares", *Physical Review D*, vol. 83, Issue 10, id. 104014 (2011).
17. **Corsi, A.**, Ofek, E., Frail, D.A., Poznanski, D., Arcavi, I. et al., "PTF 10bzf (SN 2010ah): A Broad-line Ic Supernova Discovered by the Palomar Transient Factory", *The Astrophysical Journal*, Volume 741, Issue 2, article id. 76, 13 pp. (2011).
18. Howell, E., Regimbau, T., **Corsi, A.**, Coward, D., Bruman, R., , "Gravitational wave background from sub-luminous GRBs: prospects for second- and third-generation detectors", *Monthly Notices of the Royal Astronomical Society*, Volume 410, Issue 4, pp. 2123-2136 (2011).
19. **Corsi, A.**, Guetta, D., Piro, L., "GeV emission from short gamma-ray bursts: the case of GRB 081024B", *Astronomy and Astrophysics*, Volume 524, id.A92, 8 pp. (2010).
20. **Corsi, A.**, Guetta, D., Piro, L., "High-energy Emission Components in the Short GRB 090510", *The Astrophysical Journal*, Volume 720, Issue 2, pp. 1008-1015 (2010).
21. **Corsi, A.**, Meszaros, P., "Gamma-ray Burst Afterglow Plateaus and Gravitational Waves: Multi-messenger Signature of a Millisecond Magnetar?", *The Astrophysical Journal*, Volume 702, Issue 2, pp. 1171-1178 (2009).
22. Gendre, B., Galli, A., **Corsi, A.**, Klotz, A., "The gamma-ray burst 050904: evidence for a termination shock?", *Astronomy and Astrophysics*, Volume 462, Issue 2, pp.565-573 (2007).
23. Gendre, B., **Corsi, A.**, Piro, L., "X-ray continuum properties of GRB afterglows observed by XMM-Newton and Chandra", *Astronomy and Astrophysics*, Volume 455, Issue 3, pp.803-812 (2006).
24. **Corsi, A.**, Piro, L., Kuulkers, E., Amati, L., et al., "The puzzling case of GRB 990123: prompt emission and broad-band afterglow modeling", *Astronomy and Astrophysics*, Volume 438, Issue 3, pp.829-840 (2005).

**Selected LIGO collaboration papers: These papers have an authorship of more than 1000 scientists in alphabetical order, so below they are reported as first author et al.**

1. Abbott et al., "GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2", *Physical Review Letters*, Volume 118, Issue 22, id. 221101 (2017).

2. Abbott et al., "Search for Gravitational Waves Associated with Gamma-Ray Bursts During the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B", *The Astrophysical Journal*, Volume 841, 89 (2017).
3. Abbott et al., "Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo", *Living Reviews in Relativity*, Volume 19, Issue 1, article id. 1, 39 pp. (2017).
4. Abbott et al. "Upper Limits on the Rates of Binary Neutron Star and Neutron Star-Black Hole Mergers from Advanced LIGO's First Observing Run", *The Astrophysical Journal Letters*, Volume 832, Issue 2, article id. L21, 15 pp. (2016).
5. Abbott et al., "Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914", *The Astrophysical Journal Letters*, Volume 826, Issue 1, article id. L13, 8 pp. (2016).
6. Abbott et al., "GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence", *Physical Review Letters*, Volume 116, Issue 24, id.241103 (2016)
7. Abbott et al., "Observation of Gravitational Waves from a Binary Black Hole Merger", *Physical Review Letters*, Volume 116, Issue 6, id.061102 (2016)
8. Abbott et al., "Astrophysical Implications of the Binary Black-hole Merger GW150914", *The Astrophysical Journal Letters*, Volume 818, Issue 2, article id. L22, 15 pp. (2016).
9. Aasi et al. "First Searches for Optical Counterparts to Gravitational-wave Candidate Events", *The Astrophysical Journal Supplement*, Volume 211, Issue 1, article id. 7, 25 pp. (2014).
10. Abadie et al. "Search for Gravitational Waves Associated with Gamma-Ray Bursts during LIGO Science Run 6 and Virgo Science Runs 2 and 3", *The Astrophysical Journal*, Volume 760, Issue 1, article id. 12, 18 pp. (2012)
11. Abadie et al. "Search for Gravitational Wave Bursts from Six Magnetars", *The Astrophysical Journal Letters*, Volume 734, Issue 2, article id. L35, 9 pp. (2011).
12. Abbott et al., "Search For Gravitational-wave Bursts Associated with Gamma-ray Bursts using Data from LIGO Science Run 5 and Virgo Science Run 1", *The Astrophysical Journal*, Volume 715, Issue 2, pp. 1438-1452 (2010).
13. Abbott et al., "Search for gravitational waves associated with GRB 050915a using the Virgo detector", *Classical and Quantum Gravity*, Volume 25, Issue 22, id. 225001 (2008).

#### Full List of Refereed Journal Articles

- [1] A. De Cia, A. Gal-Yam, A. Rubin, G. Leloudas, P. Vreeswijk, D. A. Perley, R. Quimby, L. Yan, M. Sullivan, A. Flörs, J. Sollerman, D. Bersier, S. B. Cenko, M. Gal-Yam, K. Maguire, E. O. Ofek, S. Prentice, S. Schulze, J. Spyromilio, S. Valenti, I. Arcavi, A. Corsi, A. Howell, P. Mazzali, M. M. Kasliwal, F. Taddia, and O. Yaron. Light curves of hydrogen-poor Superluminous Supernovae from the Palomar Transient Factory. *ArXiv e-prints 1708.01623*, August 2017.
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