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Employment and Education

Since 2017	Associate Professor (tenured) , University of Pittsburgh, Pittsburgh, PA
2011 - 2017	Assistant Professor , University of Pittsburgh, Pittsburgh, PA
2009 - 2011	Senior Research Associate , Weizmann Institute of Science, and Tel-Aviv University, Israel
2006 - 2009	Chandra Postdoctoral Fellow , Princeton University, Princeton, NJ (2007-2009); Rutgers University, Piscataway, NJ (2006-2007)
2004 - 2006	Postdoctoral Research Associate , Rutgers University, Piscataway, NJ. Supervisor: John P. Hughes
Completed in 2004	Ph.D., Astrophysics , Universitat Politècnica de Catalunya, Departament de Física i Enginyeria Nuclear, Barcelona, Spain Thesis Title: <i>Thermal X-ray Emission from Young Type Ia Supernova Remnants</i> . Advisor: Dr. Eduardo Bravo
Completed in 1999	M.S. and B.S., Electrical Engineering , Universitat Politècnica de Catalunya, Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona, Spain

Research Interests

Type Ia Supernovae	Explosion physics, progenitor systems, delay time distribution.
Supernova Remnants	X-ray emission, shock physics, Galactic and extragalactic populations.
Survey Science	Time-domain astrophysics, data mining, short-period binaries, white dwarfs, gravitational wave foreground, spectral variability, astrometry, statistical tests of stellar evolution. Focus on SDSS and DESI.

Publication Record

82 refereed papers, 16 as first author, 32 as second/third author. Total citations: in NASA ADS, 4465 citations and Hirsch index 34 [link]; in Google Scholar, 4727 citations and Hirsch index 38 [link]. I have played a key role in 16 high-impact papers (with more than 50 citations in ADS): 9 as first author, 7 as second/third author. For details, see attached publication list.

Honors and Awards

2016	Distinguished Visitor, Carnegie Observatories, USA.
2015	Scialog Fellow for Time Domain Astrophysics, Research Corporation, USA.
2011	Ramón y Cajal Fellowship, Ministerio de Ciencia e Innovación, Spain (declined to accept tenure-track offer from U Pitt).
2010	Marie Curie IRG Fellowship, European Commission.
2006	<i>Chandra</i> Fellowship, NASA.
2000	<i>FI</i> Fellowship, Generalitat de Catalunya.

External Funding

2018	\$110k	U Pitt	Heising-Simons Foundation Scialog Grant . Duration: 2 years. Title: <i>Mapping Stellar Enrichment in the Milky Way</i> . Co-PI with Gail Zasowski at University of Utah, U Pitt award is \$55k
2016	\$100k	U Pitt	Research Corporation Scialog Grant 24215. Duration: 2 years. Title: <i>Stellar Multiplicity Meets Stellar Evolution: The APOGEE View</i> . Co-PI with Todd Thompson at OSU and Kevin Covey at UWV, U Pitt award is \$33k
2015	\$318k	U Pitt	NASA ADAP grant (NNX15AM03G S01). Duration: 3 years. Title: <i>Burning Chrome: Secondary Fe-Peak Elements in Type Ia Supernova Remnants with Suzaku</i> . PI.
2014	\$537k	U Pitt	NSF AST award (1410319). Duration: 3 years. Title: <i>Collaborative Research: The Supernova Rate and Delay Time Distribution in the Local Group</i> . Co-PI with Laura Chomiuk at MSU, U Pitt award is \$268k.
	\$250k	U Pitt	ARC Internal SDSS grant (SSP428). Duration: 3 years. Purpose: Support a postdoc at U Pitt (Dr. Brett Andrews) to develop data retrieval and visualization software for the SDSS-IV MaNGA survey. PI.
2011	€100k	TAU	ERC ITG grant FP7-PEOPLE-2010-RG. Duration: two years. Grant terminated in July 2011 when PI Badenes moved to U Pitt.

Total: \$1.4M In competitive research grants as PI or Co-PI since 2011. Note that recent funding rates for NSF and NASA are comparable to the success rate for ERC grants in the EU, see [this document](#).

Supervision and Mentoring

POSTDOCS (direct supervision):

Brett Andrews	Projects: <i>Data visualization software and science highlights for the SDSS-IV MaNGA survey; Galactic archeology and stellar multiplicity for the SDSS APOGEE survey.</i>
	Advising period: Fall 2014 to Fall 2017

GRADUATE STUDENTS (main advisor, unless noted):

Thomas Hettinger	<i>Stellar Multiplicity Analysis with Time-Resolved Spectroscopy and Markov Chain Monte Carlo Simulations</i> Ph D Thesis defended August 13, 2015 Institution: Michigan State University (co-advised with Jay Strader)
Sumit Sarbadhicary	<i>Supernova Remnant Populations in the Local Group</i> Institution: University of Pittsburgh. Ph D Thesis defended June 11, 2018
Héctor Martínez-Rodríguez	<i>Neutronization in Type Ia SNe: Models and observations</i> Institution: University of Pittsburgh. Expected completion: 2019
Christine Mazzola	<i>Stellar Multiplicity Meets Stellar Evolution: The SDSS/APOGEE View</i> Institution: University of Pittsburgh. Expected completion: 2021

Selected Talks, Reviews, and Colloquia

2019	February: Colloquium, Institute for Astronomy, University of Hawaii at Manoa, HI. January: Colloquium, Department of Astronomy, Pennsylvania State University, University Park, PA.
2018	June: Invited Talk, SNR Workshop, Department of Astronomy, University of Kyoto, Japan. May: Seminar, Instituto de Astrofísica de Canarias, La Laguna, Spain. March: Institut de Ciències del Cosmos (ICCUB), Universitat de Barcelona, Barcelona, Spain.
2017	November: Seminar, Institut de Ciències de l'Espai, Barcelona, Spain. October: Colloquium, Anton Pannekoek Astronomical Institute, University of Amsterdam, Amsterdam, the Netherlands. May: Invited talk, Supernova Remnants Workshop, UC Santa Cruz, Santa Cruz, CA April: Astrophysics Seminar, Dept. of Physics and Astronomy, Ohio University, Athens, OH January: Astrophysics Seminar, Dept. of Physics and Astronomy, Rutgers University, Piscataway, NJ
2016	September: Invited talk, Supernova Physics Workshop, Garching, Germany. June: Invited review, Supernova Remnant Conference, Chania, Crete, Greece. March: Seminar, Observatories of the Carnegie Institution of Washington, Pasadena, CA.
2015	December: Colloquium, Dept. of Physics, University of Alabama, Tuscaloosa, AL. September: Colloquium, Dept. of Astronomy, Ohio State University, Columbus, OH. August: Invited talk, SN Ia Progenitor Workshop, Carnegie Observatories, Pasadena, CA. June: Invited talk, Fifty-One Ergs Supernova Conference, Raleigh, NC. February: Colloquium, Harvard-CfA, Cambridge, MA.
2014	October: Invited talk, Transients' Unsolved Mysteries Workshop, Eilat, Israel. August: Invited talk, Supernovae in the Local Universe Conference, Coffs Harbour, Australia. June: Invited talk, The Unquiet Universe Conference, Cefalù, Sicily, Italy. February: Invited talk, SN Ia Progenitor Workshop, IAS, Princeton, NJ.

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| 2013 | November: Seminar, CCCP, New York University, New York, NY.
September: Invited talk, Observational Signatures of SN Ia Progenitors II. Lorentz Center, Leiden, Netherlands.
May: Invited review/debate, Fifty-One Ergs Supernova Conference, Raleigh, NC.
April: Colloquium, Dept. of Physics & Astronomy, Johns Hopkins University, Baltimore, MD. |
| 2012 | December: Colloquium, Dept. of Astronomy, University of Illinois at Urbana-Champaign, IL.
November: Seminar, Dept. de Physique, Université de Montréal, Montréal, Canada.
September: Invited talk, Supernovae Illuminating the Universe: from Individuals to Populations Conference, Garching, Germany.
August: Invited talk, Atomic Data for Astrophysics Workshop, Harvard-CfA, Cambridge MA.
March: Colloquium, ICC-UB, Universitat de Barcelona, Barcelona, Spain. |
| 2011 | June: Invited talk, Supernovae and their Host Galaxies Conference, Sydney, Australia.
May: Invited talk, Advanced Topics in Astrophysics Conference, Llafranc, Spain. |

Outreach

Selected Public Talks and events:

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| 2018 | March: Inaugural talk, XXVI Jornadas de Astronomía, Planetari de Castelló. |
| 2017 | November: Special talk for the XXV Anniversary of the Sociedad Española de Astronomía, Aula Magna, Universitat de Barcelona.
March: Organized SDSS Plates Workshop for Science Educators in the Pittsburgh area. Attended by educators from public and private schools serving more than 2,500 students. |
| 2016 | March: Amateur Astronomers Association of Pittsburgh, Pittsburgh PA. |
| 2015 | April: Carnegie Science Center, Pittsburgh PA. |
| Since 2001 | Several participations in blogs, TV shows, and radio shows, including CBS Pittsburgh, The Academic Minute at WAMC and the <i>Chandra</i> blog in the USA, and TV2, Radio Nacional, and Catalunya Radio in Spain, as well as informal talks in community centers in the Pittsburgh area. |

Press Releases on First- and Second-author papers:

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| 2015 | [link] NASA/GSFC Press center. <i>Suzaku Studies Supernova 'Crime Scene,' Shows a Single White Dwarf to Blame.</i> |
| 2014 | [link] NASA/GSFC Press center. <i>Iron 'Fingerprints' Point Astronomers to Supernova Suspects.</i> |
| 2013 | [link] NASA/GSFC Press center. <i>Suzaku 'Post-mortem' Yields Insight into Kepler's Supernova.</i> |
| 2012 | [link] SDSS Press center. <i>Fireworks: The Merger Rate of Binary White Dwarfs.</i> |
| 2008 | [link] Chandra press center. <i>SNR 0509-67.5: Action Replay of Powerful Stellar Explosion.</i> |

Professional Service

Management and Science Definition:

Since 2016	<i>SDSS-V</i> Task force on time-resolved spectroscopy and stellar multiplicity.
Since 2014	<i>Athena</i> Mission, US Representative in Science Working Group 3.4: Supernova remnants and the Interstellar Medium.
Since 2013	<i>SDSS-IV/MaNGA</i> Data Products Committee.
Since 2012	<i>BigBOSS/MS-DESI/DESI</i> Bright Time Science Committee.
2013-2016	<i>SDSS-IV</i> Collaboration Council: Representative for Associate Member Institutions.
2009-2010	Science Associate for the <i>International X-ray Observatory (IXO)</i> .
2008	NASA <i>Constellation-X</i> Panel on Production and Distribution of the Elements.
2004	NASA <i>Constellation-X</i> Panel to Define Scientific Objectives for Supernova Remnants.

Panels, societies, and other committees:

2019	Scientific Organizing Committee, Supernova Conference, Lijiang, Yunnan Province, China. Scientific Organizing Committee, FOE19 (Fifty-One Ergs Conference), Raleigh, NC.
2018	Science reviewer, Israel Science Foundation. Workshop Organizer, Observational Signatures of Type Ia Supernova Progenitors III, Lorentz Center, Leiden, the Netherlands.
2017	Science reviewer, Natural Sciences and Engineering Research Council of Canada. Science reviewer, Swiss National Science Foundation, COST program.
2016	National Science Foundation, Astronomy & Astrophysics Panel.
2015	Science reviewer, <i>Vici</i> program, Netherlands Organisation for Scientific Research (NWO). <i>Chandra</i> Cycle 17 Time Allocation Committee.
Since 2014	Academic advisor to incoming graduate students, U Pitt Dept of Physics & Astronomy.
2011-2013	National Optical Astronomy Observatory Time Allocation Committee.
2009	<i>Chandra</i> Cycle 11 Time Allocation Committee. Scientific Organizing Committee, SN Ia Progenitor Workshop, Princeton, NJ.
2008	<i>Swift</i> Cycle 4 Guest Investigator Program Review.
2007	Scientific Organizing Committee, Endpoints And Interactions: A Supernova Remnant Workshop, AAS Summer Meeting, Hawaii.
Since 2007	Member of the American Astronomical Society (AAS).
Since 2006	Scientific referee (<i>A&A</i> , <i>ApJ</i> , <i>MNRAS</i> , <i>Science</i> and <i>Nature</i>).
2006	<i>Suzaku (Astro-E2)</i> AO-1 Time Allocation Committee.
Since 2003	Member of the Sociedad Española de Astronomía (SEA).

Competitively Obtained Observing Time

AS PI: Optical Ground: Mayall 4m Telescope, Kitt Peak: 17 nights (4 in 2010B, 4 in 2011A, 5 in 2011B, 4 in 2012A); ARC 3.5m Telescope, Apache Point Observatory: 12 half-nights (8 in 2009, 4 in 2008). **Radio** Green Bank Telescope: 10 hours in 2009. **HST** 5 orbits in 2010. **Swift** 5 ks in 2010.

AS Co-I: Optical Ground VLT, 42 hours (2019, PI Hallakoun); W.M. Keck Observatory, 6 nights (2011-2013, PI Kasen); Gemini South Telescope, 24 hours (2012, PI Kerzendorf); Mayall 4m Telescope at Kitt Peak, 16 nights (2010-2011, PI Rest); ARC 3.5m Telescope, 8 half-nights (2009-2010, PI Mullally). **Radio** EVLA: SNRs in M31, 22.5 hrs (2019, PI Chomiuk); Type Ia SNe (ToO), 10 hrs (2015, PIs Soderberg, Chomiuk). **HST** 4 orbits in 2007. **Suzaku** 1150 ks: 650 ks in 2014 (PI Yamaguchi), 400 ks in 2008 (PI Hughes), 100 ks in 2005 (PI Hughes). **Chandra** 3518 ks: 180 ks in 2016 (PI Park), 725 ks in 2009 (PIs Park, Hughes, Maoz), 1650 ks in 2008 (PIs Hughes, Bauer), 213 ks in 2007 (PIs Hughes, Reynolds), 750 ks in 2006 (PI Reynolds). **INTEGRAL** ToO for nearby SN Ia (2000-present, PI Isern), triggered for SN2011fe and SN2014J.

Languages

Spanish and Catalan (native); English (fluent); French and German (good)

References

Prof. Lars Bildsten	Kavli Institute for Theoretical Physics and University of California, Santa Barbara Kohn Hall, University of California Santa Barbara, CA 93106 bildsten@kitp.ucsb.edu
Prof. Dan Maoz	School of Physics and Astronomy, Tel-Aviv University Tel-Aviv 69978, Israel maoz@astro.tau.ac.il
Prof. John P. Hughes	Department of Physics and Astronomy, Rutgers University 136 Frelinghuysen Rd, Piscataway, NJ 08854 jph@physics.rutgers.edu
Prof. Brian P. Schmidt	Research School of Astronomy and Astrophysics, Australian National University via Cotter Rd, Weston Creek, ACT 2611, Australia brian@mso.anu.edu.au

Refereed Publications

- 2019
- 82 Thompson, T. A., Kochanek, C. S., Stanek, K. Z., **Badenes, C.**, Post, R. S., Jayasinghe, T., Latham, D. W., Bieryla, A., Esquerdo, G. A., Berlind, P., Calkins, M. L., Tayar, L. Lindegren, J., Johnson, J. A., Holoien, T. W.-S., Auchettl, K., and Covey, K. (2019). Discovery of a Likely Black Hole-Giant Star Binary System in the Galactic Field. *Science*, in press [arXiv:1806:02751]
 - 81 Moe, M., Kratter, K. M., and **Badenes, C.** (2018). The Close Binary Fraction of Solar-type Stars is Strongly Anti-correlated with Metallicity. *ApJ* in press, [arXiv:1808:02116]
 - 80 Bravo, E., **Badenes, C.**, and Martínez-Rodríguez, H. (2019). SNR-calibrated Type Ia supernova models. *MNRAS*, 482:4346–4363
 - 79 Aguado, D. S., Ahumada, R., Almeida, A., Anderson, S. F., Andrews, B. H., Anguiano, B., Aquino Ortiz, E., Aragón-Salamanca, A., Argudo-Fernández, M., Aubert, M., et al. (2019). The Fifteenth Data Release of the Sloan Digital Sky Surveys: First Release of MaNGA-derived Quantities, Data Visualization Tools, and Stellar Library. *ApJS*, 240:23
 - 78 Auchettl, K., Lopez, L. A., **Badenes, C.**, Ramirez-Ruiz, E., Beacom, J. F., and Holland-Ashford, T. (2019). Measurement of the Core-collapse Progenitor Mass Distribution of the Small Magellanic Cloud. *ApJ*, 871:64
- 2018
- 77 Martínez-Rodríguez, H., **Badenes, C.**, Lee, S.-H., Patnaude, D. J., Foster, A. R., Yamaguchi, H., Auchettl, K., Bravo, E., Slane, P. O., Piro, A. L., Park, S., and Nagataki, S. (2018). Chandrasekhar and Sub-Chandrasekhar Models for the X-Ray Emission of Type Ia Supernova Remnants. I. Bulk Properties. *ApJ*, 865:151
 - 76 Shen, K. J., Boubert, D., Gänsicke, B. T., Jha, S. W., Andrews, J. E., Chomiuk, L., Foley, R. J., Fraser, M., Gromadzki, M., Guillochon, J., Kotze, M. M., Maguire, K., Siebert, M. R., Smith, N., Strader, J., **Badenes, C.**, Kerzendorf, W. E., Koester, D., Kromer, M., Miles, B., Pakmor, R., Schwab, J., Toloza, O., Toonen, S., Townsley, D. M., and Williams, B. J. (2018). Three Hypervelocity White Dwarfs in Gaia DR2: Evidence for Dynamically Driven Double-degenerate Double-detonation Type Ia Supernovae. *ApJ*, 865:15
 - 75 Woods, T. E., Ghavamian, P., **Badenes, C.**, and Gilfanov, M. (2018). Balmer-dominated Shocks Exclude Hot Progenitors for Many Type Ia Supernovae. *ApJ*, 863:120
 - 74 Skinner, J., Covey, K. R., Bender, C. F., Rivera, N., De Lee, N., Souto, D., Chojnowski, D., Troup, N., **Badenes, C.**, Bizyaev, D., Blake, C. H., Burgasser, A., Cañas, C., Carlberg, J., Gómez Maqueo Chew, Y., Deshpande, R., Fleming, S. W., Fernández-Trincado, J. G., García-Hernández, D. A., Hearty, F., Kounkel, M., Longa-Peña, P., Mahadevan, S., Majewski, S. R., Minniti, D., Nidever, D., Oravetz, A., Pan, K., Stassun, K., Terrien, R., and Zamora, O. (2018). Forty-four New and Known M-dwarf Multiples in the SDSS-III/APOGEE M-dwarf Ancillary Science Sample. *AJ*, 156:45
 - 73 Maoz, D., Hallakoun, N., and **Badenes, C.** (2018). The separation distribution and merger rate of double white dwarfs: improved constraints. *MNRAS*, 476:2584–2590

- 72 Abolfathi, B., Aguado, D. S., Aguilar, G., Allende Prieto, C., Almeida, A., Ananna, T. T., Anders, F., Anderson, S. F., Andrews, B. H., Anguiano, B., et al. (2018). The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment. *ApJS*, 235:42
- 71 McWilliam, A., Piro, A. L., **Badenes, C.**, and Bravo, E. (2018). Evidence for a Sub-Chandrasekhar-mass Type Ia Supernova in the Ursa Minor Dwarf Galaxy. *ApJ*, 857:97
- 70 Galbany, L., Anderson, J. P., Sánchez, S. F., Kuncarayakti, H., Pedraz, S., González-Gaitán, S., Stanishev, V., Domínguez, I., Moreno-Raya, M. E., Wood-Vasey, W. M., Mourão, A. M., Ponder, K. A., **Badenes, C.**, Mollá, M., López-Sánchez, A. R., Rosales-Ortega, F. F., Vílchez, J. M., García-Benito, R., and Marino, R. A. (2018). PISCO: The PMAS/PPak Integral-field Supernova Hosts Compilation. *ApJ*, 855:107
- 69 **Badenes, C.**, Mazzola, C., Thompson, T. A., Covey, K., Freeman, P. E., Walker, M. G., Moe, M., Troup, N., Nidever, D., Allende Prieto, C., Andrews, B., Barbá, R. H., Beers, T. C., Bovy, J., Carlberg, J. K., De Lee, N., Johnson, J., Lewis, H., Majewski, S. R., Pinsonneault, M., Sobeck, J., Stassun, K. G., Stringfellow, G. S., and Zasowski, G. (2018). Stellar Multiplicity Meets Stellar Evolution and Metallicity: The APOGEE View. *ApJ*, 854:147
- 68 MacLeod, C. L., Green, P. J., Anderson, S. F., Eracleous, M., Ruan, J. J., Runnoe, J., Brandt, W. N., **Badenes, C.**, Greene, J., Morganson, E., Schmidt, S. J., Schwobe, A., Shen, Y., Amaro, R., Lebleu, A., Filiz Ak, N., Grier, C. J., Hoover, D., McGraw, S. M., Dawson, K., Hall, P. B., Hawley, S. L., Mariappan, V., Myers, A. D., Pâris, I., Schneider, D. P., Stassun, K. G., Bershad, M. A., Blanton, M. R., Seo, H.-J., Tinker, J., Fernández-Trincado, J. G., Chambers, K., Kaiser, N., Kudritzki, R.-P., Magnier, E., Metcalfe, N., and Waters, C. Z. (2018). The Time-domain Spectroscopic Survey: Target Selection for Repeat Spectroscopy. *AJ*, 155:6
- 2017 67 Albareti, F. D., Allende Prieto, C., Almeida, A., Anders, F., Anderson, S., Andrews, B. H., Aragón-Salamanca, A., Argudo-Fernández, M., Armengaud, E., Aubourg, E., et al. (2017). The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. *ApJS*, 233:25
- 66 Schwab, J., Martínez-Rodríguez, H., Piro, A. L., and **Badenes, C.** (2017). Exploring the Carbon Simmering Phase: Reaction Rates, Mixing, and the Convective Urca Process. *ApJ*, 851:105
- 65 Patnaude, D. J., Lee, S.-H., Slane, P. O., **Badenes, C.**, Nagataki, S., Ellison, D. C., and Milisavljevic, D. (2017). The Impact of Progenitor Mass Loss on the Dynamical and Spectral Evolution of Supernova Remnants. *ApJ*, 849:109
- 64 Woods, T. E., Ghavamian, P., **Badenes, C.**, and Gilfanov, M. (2017). No hot and luminous progenitor for Tycho's supernova. *Nature Astronomy*, 1:800–804
- 63 García-Berro, E., **Badenes, C.**, Aznar-Siguán, G., and Lorén-Aguilar, P. (2017). White dwarf dynamical interactions and fast optical transients. *MNRAS*, 468:4815–4821

- 62 Blanton, M. R., Bershady, M. A., Abolfathi, B., Albareti, F. D., Allende Prieto, C., Almeida, A., Alonso-García, J., Anders, F., Anderson, S. F., Andrews, B., et al. (2017). Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. *AJ*, 154:28
 - 61 Galbany, L., Mora, L., González-Gaitán, S., Bolatto, A., Dannerbauer, H., López-Sánchez, Á. R., Maeda, K., Pérez, S., Pérez-Torres, M. A., Sánchez, S. F., Wong, T., **Badenes, C.**, Blitz, L., Marino, R. A., Utomo, D., and Van de Ven, G. (2017). Molecular gas in supernova local environments unveiled by EDGE. *MNRAS*, 468:628–644
 - 60 Martínez-Rodríguez, H., **Badenes, C.**, Yamaguchi, H., Bravo, E., Timmes, F. X., Miles, B. J., Townsley, D. M., Piro, A. L., Mori, H., Andrews, B., and Park, S. (2017). Observational Evidence for High Neutronization in Supernova Remnants: Implications for Type Ia Supernova Progenitors. *ApJ*, 843:35
 - 59 Zapartas, E., de Mink, S. E., Izzard, R. G., Yoon, S.-C., Badenes, C., Götzberg, Y., de Koter, A., Neijssel, C. J., Renzo, M., Schootemeijer, A., and Shrotriya, T. S. (2017). Delay-time distribution of core-collapse supernovae with late events resulting from binary interaction. *A&A*, 601:A29
 - 58 Sarbadhicary, S. K., **Badenes, C.**, Chomiuk, L., Caprioli, D., and Huizenga, D. (2017). Supernova remnants in the Local Group - I. A model for the radio luminosity function and visibility times of supernova remnants. *MNRAS*, 464:2326–2340
 - 57 Yamaguchi, H., Hughes, J. P., **Badenes, C.**, Bravo, E., Seitzzahl, I. R., Martínez-Rodríguez, H., Park, S., and Petre, R. (2017). The Origin of the Iron-rich Knot in Tycho's Supernova Remnant. *ApJ*, 834:124
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- 2016 56 Ruan, J. J., Anderson, S. F., Green, P. J., Morganson, E., Eracleous, M., Myers, A. D., **Badenes, C.**, Bershady, M. A., Brandt, W. N., Chambers, K. C., Davenport, J. R. A., Dawson, K. S., Flewelling, H., Heckman, T. M., Isler, J. C., Kaiser, N., Kneib, J.-P., MacLeod, C. L., Paris, I., Ross, N. P., Runnoe, J. C., Schlafly, E. F., Schmidt, S. J., Schneider, D. P., Schwobe, A. D., Shen, Y., Stassun, K. G., Szkody, P., Waters, C. Z., and York, D. G. (2016). The Time-Domain Spectroscopic Survey: Understanding the Optically Variable Sky with SEQUELS in SDSS-III. *ApJ*, 825:137
 - 55 Martínez-Rodríguez, H., Piro, A. L., Schwab, J., and **Badenes, C.** (2016). Neutronization During Carbon Simmering In Type Ia Supernova Progenitors. *ApJ*, 825:57
 - 54 Galbany, L., Stanishev, V., Mourão, A. M., Rodrigues, M., Flores, H., Walcher, C. J., Sánchez, S. F., García-Benito, R., Mast, D., **Badenes, C.**, González Delgado, R. M., Kehrig, C., Lyubenova, M., Marino, R. A., Mollá, M., Meidt, S., Pérez, E., van de Ven, G., and Vílchez, J. M. (2016). Nearby supernova host galaxies from the CALIFA survey. II. Supernova environmental metallicity. *A&A*, 591:A48
 - 53 Chomiuk, L., Soderberg, A. M., Chevalier, R. A., Bruzewski, S., Foley, R. J., Parrent, J., Strader, J., **Badenes, C.**, Fransson, C., Kamble, A., Margutti, R., Rupen, M. P., and Simon, J. D. (2016). A Deep Search for Prompt Radio Emission from Thermonuclear Supernovae with the Very Large Array. *ApJ*, 821:119

- 52 Isern, J., Jean, P., Bravo, E., Knödseder, J., Lebrun, F., Churazov, E., Sunyaev, R., Domingo, A., **Badenes, C.**, Hartmann, D. H., Hoefflich, P., Renaud, M., Soldi, S., Elias-Rosa, N., Hernanz, M., Domínguez, I., García-Senz, D., Lichti, G. G., Vedrenne, G., and Von Ballmoos, P. (2016). Gamma-ray emission from SN2014J near maximum optical light. *A&A*, 588:A67
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