

Curriculum Vitae, Updated 7/22
Brian David Metzger

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ACADEMIC POSITIONS

01/21– Senior Research Scientist, Flatiron Institute
07/20– Professor of Physics, Columbia University
07/19–07/20 Visiting Scholar, Simons Flatiron Institute
01/17–07/20 Associate Professor of Physics, Columbia University
01/13–01/17 Assistant Professor of Physics, Columbia University
09/12–12/12 Lyman Spitzer Jr. Fellow, Princeton University
09/09–12/12 NASA Einstein Fellow, Princeton University

EDUCATION

08/03–05/09 University of California at Berkeley
M.A. & Ph.D. in Physics (Thesis Adviser: Prof. Eliot Quataert)
Dissertation: “Theoretical Models of Gamma-Ray Burst Central Engines”
08/99–05/03 The University of Iowa
B.S. in Physics, Astronomy, & Mathematics (Highest Distinction)

SELECT HONORS, FELLOWSHIPS and AWARDS

2022 Barschall Honorary Lecture, UW-Madison
2020 Blavatnik National Laureate in Natural Sciences & Engineering
2020 Simons Investigator in Mathematics and Theoretical Physics
2020 Legacy Fellow, American Astronomical Society
2019 Simons Fellow in Mathematics and Theoretical Physics
2019 Salpeter Honorary Lecturer, Cornell
2019 Bruno Rossi Prize, American Astronomical Society
2018,19,20 Blavatnik National Awards for Young Scientists, Finalist
2019 New Horizons Breakthrough Prize in Physics
2018 Charles and Thomas Lauritsen Honorary Lecture, Caltech
2016 Scialog Fellow, Research Science Corporation
2014 Alfred P. Sloan Research Fellowship
2009–12 NASA Einstein Fellowship, Princeton
2009 Dissertation Prize, AAS High Energy Astrophysics Division
2009 NASA Hubble Fellowship
2009 Lyman Spitzer Jr. Fellowship, Princeton
2009 Mary Elizabeth Uhl Prize, UC Berkeley Astronomy
2005–08 NASA Graduate Student Research Fellowship
2003 James A. Van Allen Award, U Iowa Physics
2003 Callen Prize for Highest Promise in Graduate Research, U Iowa

AWARDS and GRANTS as PI

28. “The Role of Shocks in Classical Novae”, NASA ATP (80NSSC22K0807), 05/01/22–4/30/25. **Award:** \$543.2K.
27. “Magnetized Outflows from Neutron Star Mergers and Collapsars”, NSF AAG (AST-2002577), 09/01/20–8/31/23. **Award:** \$454.1K.
26. “NSF-BSF: Stellar Collisions in Extreme Environments”, NSF AAG (AST-2009255), 09/01/20–8/31/23. **Award:** \$428.6K.
25. “Gamma-ray Emission from Engine-Powered Supernovae”, Fermi Guest Investigator Program (80NSSC20K1557), 11/01/20–10/31/21. **Award:** \$80K.
24. “Multi-dimensional models of shock-powered emission in gamma-ray novae”, Fermi Guest Investigator Program (80NSSC20K1561), 11/01/20–10/31/21. **Award:** \$80K.
23. “Origin of Early UV Emission from Binary Neutron Star Mergers”, Swift Guest Investigator Program (80NSSC20K0909), 09/01/20–08/31/2021. **Award:** \$40K
22. “Magnetized Outflows from Neutron Star Mergers and Collapsars”, Astronomy & Astrophysics Research Grants (AST-2002577), 09/01/20–08/31/2023. **Award:** \$454.1K
21. “NSF-BSF: Stellar Collisions in Extreme Environments”, Astronomy & Astrophysics Research Grants (AST-2009255), 09/01/20–08/31/2023. **Award:** \$428.6K
20. “Electromagnetic Counterparts of Neutron Star Mergers”, Simons Fellowship, 07/01/19–6/30/20. **Award:** \$135.6K towards sabbatical leave.
19. “Particle Acceleration at Radiative Shocks in Gamma-Ray Novae”, Fermi Guest Investigator Program, 01/01/19–12/31/19. **Award:** \$60K.
18. “The Role of Shocks in the Appearance and Aftermath of Stellar Mergers and Type II In Supernovae”, HST Guest Investigator Program, 10/01/17–09/30/20. **Award:** \$72K.
17. “Dynamics and Rates of Tidal Disruption Events”, NASA Astrophysics Theory Research Program, 09/01/17–08/31/20. **Award:** \$370.4K.
16. “Enhanced rates of tidal disruptions in E+A galaxies: resolving the central dynamics of post-starburst galactic nuclei with HST observations”, HST Guest Investigator Program, 03/01/17–02/29/18. **Award:** \$17.7K.
15. “Particle Acceleration and Non-Thermal Emission in Gamma-Ray Novae”, NASA Fermi Guest Investigator Program, 10/01/16–09/30/17. **Award:** \$45K.

14. “Testing the Magnetar Model for SLSNe with Swift”, Swift Guest Investigator Program (NNX16AN77G), 09/01/16–08/31/17. **Award:** \$42K.
13. “Signatures of Shocks and Particle Acceleration in Novae”, NSF Astrophysics Theory (AST-1615084), 07/01/16–06/30/19. **Award:** \$342.7K.
12. “Bringing Novae into the 21st Century,” Research Corporation for Scientific Advancement (PG007637), 01/01/16–12/31/16. **Award:** \$33.3K.
11. “Probing Particle Acceleration at Non-Relativistic Shocks with Gamma-Ray Novae”, NASA Fermi Guest Investigator Program (NNX15AU77G), 09/01/15–08/31/16. **Award:** \$60K.
10. “Nuclear Burning in Collapsar Accretion Disks and the Origin of Gamma-Ray Burst Supernovae,” Swift Guest Researcher Program (NNX15AR47G), 10/01/15–09/30/16. **Award:** \$42.9K.
9. “Accretion Disk Outflows from Compact Object Mergers”, NASA Astrophysics Theory Research Program, 10/01/15–09/30/18. **Award:** \$436.7K.
8. “Gamma-Ray Novae as Probes of Shock Acceleration”, NASA Fermi Guest Investigator Program (NNX14AQ68G), 09/01/14–08/31/15. **Award:** \$99K.
7. “Testing the Millisecond Magnetar Model for GRBs and SLSNe” NSF Astrophysics Theory (AST-1410950), 07/15/14–06/30/17. **Award:** \$381.2K.
6. Alfred P. Sloan Research Fellowship, 09/01/14-08/31/16. **Award:** \$50K.

Custodial PI for Columbia Postdoctoral Fellows:

5. Junior Fellowship of Ashley Villar in the Simons Society of Fellows, Simons Foundation (Award Number 718240), 07/01/19–06/30/21. **Award:** \$137.9K.
4. “Black Hole Enlightenment from Tidal Disruption Event”, NASA Einstein Fellowship of Eric Coughlin, 06/01/18–05/31/19. **Award:** \$120K.
3. “Transient Modeling for the Multi-Messenger Era”, NASA Einstein Fellowship of Jennifer Barnes, 09/01/17–08/31/20. **Award:** \$360K.
2. “The transient electromagnetic sky from binary neutron star mergers”, NASA Einstein Fellowship of Daniel Siegel, 08/01/16–07/31/19. **Award:** \$350K.
1. “Stellar Dynamics Near Supermassive Black Holes”, NASA Einstein Fellowship of Nicholas Stone, 09/01/15–08/31/18. **Award:** \$340K.

INVITED COLLOQUIA, SEMINARS, CONFERENCE TALKS

Colloquia:

Wisconsin (10/22), Radboud (02/22),
Technion (01/21), Jodrell Bank (11/20), U Iowa (10/20), UIUC (10/20), Texas A&M (10/20)
Tel Aviv (06/20), UC Santa Cruz (03/20), Stanford (03/20), UNLV (03/20)
Cornell Salpeter (11/19), McGill (10/19), Heidelberg Joint (06/19), VA Tech (04/19),
Florida State (11/18), MIT (10/18), Chicago (05/18), Caltech (04/18), Yale (03/18),
BNL (02/18), Rochester (12/17), Harvard ITC (11/17), Rutgers (11/17), Harvard (03/17),
Guelph (03/17), NASA GSFC (10/16), NRAO Socorro (04/16), U Virginia (02/16),
Stanford (01/16), Indiana (10/15), Purdue (10/15), UT Austin (05/15),
RIT (03/15), UCLA (01/15), Carnegie Obs. (11/14), McGill (09/14),
INT Washington (07/14), Northwestern (12/13), STScI (12/13), UC Santa Cruz (11/12),
Maryland (09/12), Harvard ITC (09/11), Caltech (05/11), Penn State (12/10), Minnesota (10/10),
U Iowa (09/10), Notre Dame (09/10), NASA GSFC (04/10), Michigan State (02/10)

Seminars: Minnesota (02/22), Ohio (01/22), ASU (12/21)

CCAPP (12/17), Stony Brook (11/17), CCA (11/17), Princeton (10/17), SBU (04/15),
Caltech (11/14), LIGO GRB Group (10/14), Berkeley TAC (09/14), IAS (03/14),
Harvard CfA (02/14), U Illinois (12/13), U Penn (10/13), Rutgers (14/13), Purdue (03/13),
CITA (05/12), Caltech (04/12), Columbia (03/12), MIT (03/12), Princeton (10/11),
MIT Gravity (09/11), U Michigan (11/10), Ohio State CCAPP (10/10), Princeton (02/10),
LBNL (04/09), Harvard CfA ITC (10/08), Princeton (10/08), Columbia (10/08)

Conferences: ~ 60 invited talks since 2010

ADVISING EXPERIENCE

Undergraduates: Justin Ripley, Columbia (01/13–01/14; 1 publication)
Aaron Kennon, Columbia (03/15–09/17)
Charles Zivancev, Columbia (06/15–06/15; 1 publication)
Miguel Martinez, Columbia (09/17–09/19; 1 publication)
Maggie Smith, Barnard (05/18–12/19)

Graduate Students: Siva Darbha, UC Berkeley (01/09–05/10; 2 publications)
Konstantin Bochkarev, Princeton (06/11–01/12; 1 publication)
Andrey Vlasov, Columbia (05/13–05/17; 4 publications)
Aleksey Gerenezov, Columbia (09/13–05/18; 5 publications)
Ben Margalit, Columbia (11/14–06/18; 17 publications)
Dhruv Desai, Columbia (04/16–; 1 publication)
Thomas Finzell, Michigan State (10/14–2/15; 4 publications)
Andrea Derdzinski, Columbia (09/15–; 1 publications)
Jonas Lippuner, Caltech (05/16–1/18; 2 publications)
Navin Sridhar, Columbia (09/19–; 5 publications)
Semih Tuna, Columbia (01/22–)

Postdoctoral: Dr. Nicholas Stone (09/13–04/19), NASA Einstein Fellow

Current Position: Assistant Professor, Hebrew University
 Dr. Daniel Siegel (11/15–05/19), NASA Einstein Fellow
 Current Position: Assistant Professor, Perimeter Institute/Guelph
 Dr. Jennifer Barnes (09/17–09/21), NASA Einstein Fellow
 Current Position: Postdoctoral Fellow, KITP
 Dr. Elad Steinberg (09/17–10/19)
 Current Position: Research Scientist, Hebrew University
 Dr. Eric Coughlin (09/19–08/19), NASA Einstein Fellow
 Current Position: Assistant Professor, Syracuse University
 Dr. Ashley Villar (07/20–05/21), Simons Junior Fellow
 Current Position: Assistant Professor, Penn State
 Dr. Mathieu Renzo (11/20–), Columbia/CCA Joint Position
 Dr. Tatsuya Matsumoto (10/21–), JSPS Fellow

TEACHING EXPERIENCE

- W3008: Electricity, Magnetism & Optics (Sp 13, Sp 14, Sp 15)
- W3072: Senior Seminar (Sp 15)
- W4019: Mathematical Methods of Physics (Fa 15, Fa 16, Fa 17)
- W1402: Intro to Electricity, Magnetism & Optics (Sp 16, Sp 17, Sp 18)
- W3007: Electricity & Magnetism (Fa 18)
- W6011: Astrophysics I (Sp 19)
- W6092: Electromagnetic Theory (Fa 20, Fa 21, Fa 22)

DEPARTMENTAL/INSTITUTIONAL SERVICE

	Committees, CCA
<i>2022</i>	FRF Hiring Committee
	Committees, Columbia Department of Physics (Chair[†])
<i>2020, 21[†]</i>	Colloquium
<i>2019</i>	Junior Faculty Hiring Committee
<i>2017</i>	Colloquium
<i>2017, 20</i>	Graduate
<i>2016, 18[†]</i>	Qualifying Examination
<i>2014, 15, 17</i>	Graduate Admissions
	Representative, Columbia Department of Physics
<i>2015</i>	Graduate Student Open House, Astrophysics Representative
<i>10/14</i>	Grad School Applications Panel Session for Physics Majors
<i>2014, 17</i>	Physics Orientation, Astrophysics Representative
<i>2014–</i>	Thesis Defense Committee: Rachel Carr, Melania Nynka

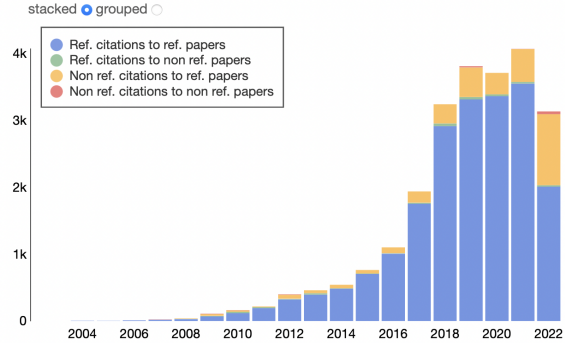
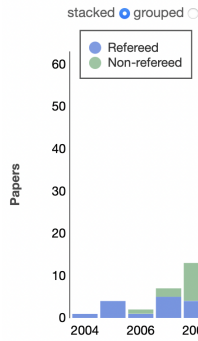
David Kaleko, Andriy Petrashyk, Andrea Derdzinski, Xiao Tu
Aliya Babul, Deivid Ribeiro, Kong Leung (Columbia)
Gilad Svirski (Tel Aviv), Daniel Siegel (Bonn), Jonas Lippuner (Caltech)
Phil Cowperthwaite (Harvard), Amir Weissbein (Hebrew), Pragya Chawla (McGill)
Co-Organizer (w/ A. Beloborodov), High Energy Astrophysics Seminar
Co-Director, Columbia Theoretical High-Energy Astrophysics (THEA) Group

2013–20

2021–

SELECT PROFESSIONAL SERVICE and PUBLIC OUTREACH

2022	Reviewer, Simons Investigator Award
2021	Blavatnik Regional Awards, Judge
2020	2020 Decadal Survey of Astronomy & Astrophysics, Program Panelist
	Workshop/Conference Organizer:
02/20	“The Astrophysics of Fast Radio Bursts,” Flatiron CCA
05/19	“The New Era of GW Physics and Astrophysics,” KITP Santa Barbara
05/19	“LSST/LIGO Workshop,” Columbia University
06/18	“The Physics of NS Mergers at GSI/FAIR”, GSI Darmstadt
05/18	“Nuclear Astrophysics in the Era of MM Astronomy”, World Science Festival
10/17	“Workshop on Binary Neutron Star Merger Discovery”, Columbia University
09/17	“EM Signatures of R-process Nucleosynthesis in NS Mergers,” INT Washington
05/17	“Common Envelope Workshop”, Simons Flatiron NYC
06/17	“Connecting FRIB with the Cosmos”, ICNT Michigan State
06/16	“Shocks & Particle Acceleration in Novae and SNe”, Simons Flatiron NYC
05/17	“LIGO-LSST Workshop”, Columbia University
03/14	“Signals and Structure of Neutron Stars, from Birth to Death”, GGI Florence
05/12	“Connecting the GW & EM Skies in the Era of ALIGO”, PCTS Princeton
	Reviewer of Research Grant Applications and Observing Time:
2017,19	Columbia University RISE Program
2010,16,17,19	NASA Astrophysics Theory Proposal
2016	Cy-Tera and Eastern Mediterranean High Power Computing
2015	NASA Chandra Guest Investigator Program
01/15	NSF Theoretical Nuclear Physics
2014	NASA Postdoctoral Program Fellowship
2013–	HST Director’s Discretionary Time Proposal
2012	NSF Astrophysics Theory
01/12	NESSF Graduate Student Fellowship
2011	NASA <i>Fermi</i> Guest Investigator Program
2014–	Telescope TAC, e.g. <i>Hubble Space Telescope</i> , <i>Gemini Observatory</i>
	Guest Lecturer:
05/18	FRIB Theory Alliance Neutron Star Merger Summer School
07/15	Caltech Gravitational Wave Astrophysics Summer School
03/14	Graduate Student Lectures on Gamma-Ray Bursts, GGI Workshop
06/12	Princeton Summer REU Program
	Journal Article Reviewer:
	<i>Nature</i> , <i>The Astrophysical Journal</i> , <i>Nature Astronomy</i> , <i>ApJ Letters</i> , <i>PRL</i> , <i>New Astronomy</i> , <i>Monthly Notices of the Royal Astronomical Society</i> , <i>Astrophysics & Space Science</i> , <i>Space Science Reviews</i>
2014–16	Member of “Time Domain” working group, Next Generation VLA
2010–	Public Lectures (e.g. SE Iowa Astronomy Club, Science-on-Hudson)



PEER-REVIEWED PUBLICATIONS

(≈ 41 as 1st author, ≈ 27000 citations total [~ 7000 on first-author papers], h-index: 82)

Submitted

215. Metzger, Brian D., “Cooling Envelope Model for Tidal Disruption Events”, submitted ApJL
214. Zenati, Yossef; Wang, Qinan; Bobrick, Alexey; DeMarchi, Lindsay; Glanz, Hila; Rozner, Mor; Rest, Armin; **Metzger, Brian D.**; Margutti, Raffaella; Gomez, Sebastian; Smith, Nathan; Toonen, Silvia; Bright, Joe S.; Norman, Colin; Foley, Ryan J.; Gagliano, Alexander; Krolik, Julian H.; Smartt, Stephen J.; Villar, Ashley V.; Narayan, Gautham; Fox, Ori; Auchetl, Katie; Brethauer, Daniel; Clocchiatti, Alejandro; Coelln, Sophie V.; Coppejans, Deanne L.; Dimitriadis, Georgios; Doroszmai, Andris; Drout, Maria; Jacobson-Galan, Wynn; Gao, Bore; Ridden-Harper, Ryan; Kilpatrick, Charles Donald; Laskar, Tanmoy; Matthews, David; Rest, Sofia; Smith, Ken W.; McKenzie Stauffer, Candice; Stroh, Michael C.; Strolger, Louis-Gregory; Terreran, Giacomo; Pierel, Justin D. R.; Piro, Anthony L., “Evidence for Extended Hydrogen-Poor CSM in the Three-Peaked Light Curve of Stripped Envelope Ib Supernova”, submitted ApJ
213. Eftekhari, T.; Berger, E.; **Metzger, B. D.**; Laskar, T.; Villar, V. A.; Alexander, K. D.; Holder, G. P.; Vieira, J. D.; Whitehorn, N.; Williams, P. K. G., “Extragalactic Millimeter Transients in the Era of Next Generation CMB Surveys”, submitted ApJ
212. Alexander, K. D.; Schroeder, G.; Paterson, K.; Fong, W.; Cowperthwaite, P.; Gomez, S.; Margalit, B.; Margutti, R.; Berger, E.; Blanchard, P.; Chornock, R.; Eftekhari, T.; Laskar, T.; **Metzger, B. D.**; Nicholl, M.; Villar, V. A.; Williams, P. K. G.; “A Late-Time Galaxy-Targeted Search for the Radio Counterpart of GW190814”, submitted ApJ
211. Albert, A.; Alfaro, R.; Alvarez, C.; ... **Metzger, B. D.**; Vurm, I., “ γ -ray Emission from Classical Nova V392 Per: Measurements from Fermi and HAWC”, submitted to ApJ
210. Margalit, Ben; Jermyn, Adam S.; **Metzger, Brian D.**; Roberts, Luke F.; Quataert, Eliot, “Angular Momentum Transport in Proto-Neutron Stars and the Fate of Neutron Star Merger Remnants”, Submitted ApJ

209. Rastinejad, J. C.; Gompertz, B. P.; Levan, A. J.; Fong, W.; Nicholl, M.; Lamb, G. P.; Malesani, D. B.; Nugent, A. E.; Oates, S. R.; Tanvir, N. R.; de Ugarte Postigo, A.; Kilpatrick, C. D.; Moore, C. J.; **Metzger, B. D.**; Ravasio, M. E.; Rossi, A.; Schroeder, G.; Jencson, J.; Sand, D. J.; Smith, N.; Agüí Fernández, J. F.; Berger, E.; Blanchard, P. K.; Chornock, R.; Cobb, B. E.; De Pasquale, M.; Fynbo, J. P. U.; Izzo, L.; Kann, D. A.; Laskar, T.; Marini, E.; Paterson, K.; Rouco Escorial, A.; Sears, H. M.; Thöne, C. C., “A Kilonova Following a Long-Duration Gamma-Ray Burst at 350 Mpc”, submitted Nature
208. Gompertz, B. P.; Ravasio, M. E.; Nicholl, M.; Levan, A. J.; **Metzger, B. D.**; Oates, S. R.; Lamb, G. P.; Fong, W.; Malesani, D. B.; Rastinejad, J. C.; Tanvir, N. R.; Evans, P. A.; Jonker, P. G.; Page, K. L.; Pe’er, A., “A minute-long merger-driven gamma-ray burst from fast-cooling synchrotron emission”, submitted Nature Astronomy
207. Barnes, Jennifer; **Metzger, Brian D.**, “Signatures of R-process Enrichment in Supernovae from Collapsars”, submitted ApJ
206. Matsumoto, Tatsuya; **Metzger, Brian D.**, “Supernova Precursor Emission and the Origin of Pre-Explosion Stellar Mass-Loss”, submitted ApJ
205. Xin, Chengcheng; Renzo, Mathieu; **Metzger, Brian D.**, “Dissecting the microphysics behind the metallicity-dependence of massive stars radii”, submitted MNRAS
204. Renzo, M.; Zapartas, E.; Justham, S.; Breivik, K.; Lau, M.; Farmer, R.; Cantiello, M.; **Metzger, B. D.**, “Rejuvenated accretors have less bound envelopes: Impact of Roche lobe overflow on subsequent common envelope events”, submitted ApJ
203. Cendes, Yvette; Berger, Edo; Alexander, Kate; Gomez, Sebastian; Hajela, Aprajita; Chornock, Ryan; Laskar, Tanmoy; Margutti, Raffaella; **Metzger, Brian**; Bietenholz, Michael; Brethauer, Daniel; Wieringa, Mark, “A Mildly Relativistic Outflow Launched Two Years after Disruption in the Tidal Disruption Event AT2018hyz”, submitted ApJ

2022

202. Matsumoto, Tatsuya; Metzger, Brian D., “Light Curve Model for Luminous Red Novae and Inferences about the Ejecta of Stellar Mergers”, Accepted ApJ
201. Bright, Joe S.; Margutti, Raffaella; Matthews, David; Brethauer, Daniel; Coppejans, Deanne; Wieringa, Mark H.; **Metzger, Brian D.**; DeMarchi, Lindsay; Laskar, Tanmoy; Romero, Charles; Alexander, Kate D.; Horesh, Assaf; Migliori, Giulia; Chornock, Ryan; Berger, E.; Bietenholz, Michael; Devlin, Mark J.; Dicker, Simon R.; Jacobson-Galán, W. V.; Mason, Brian S.; Milisavljevic, Dan; Motta, Sara E.; Mroczkowski, Tony; Ramirez-Ruiz, Enrico; Rhodes, Lauren; Sarazin, Craig L.; Sfaradi, Itai; Sievers, Jonathan, “Radio and X-ray observations of the luminous Fast Blue Optical Transient AT2020xnd”, ApJ, 926, 112
200. Gunther, Hans Moritz; Hoadley, Keri; Günther, Maximilian N.; **Metzger, Brian D.**; Schneider, P. C.; Shen, Ken J., “X-Ray Emission from Candidate Stellar Merger Remnant TYC 2597-735-1 and Its Blue Ring Nebula”, AJ, 163, 173

199. **Metzger, Brian D.**, “Luminous Fast Blue Optical Transients and Type Ibn/Icn SNe from Wolf-Rayet/Black Hole Mergers”, *ApJ*, 932, 84
198. Desai, Dhruv; Siegel, Daniel M.; **Metzger, Brian D.**, “Three-dimensional General-relativistic Simulations of Neutrino-driven Winds from Rotating Proto-neutron Stars”, *ApJ*, 931, 104
197. Sokolovsky, Kirill V.; Li, Kwan-Lok; Lopes de Oliveira, Raimundo; Ness, Jan-Uwe; Mukai, Koji; Chomiuk, Laura; Aydi, Elias; Steinberg, Elad; Vurm, Indrek; **Metzger, Brian D.**; Babul, Aliya-Nur; Kawash, Adam; Linford, Justin D.; Nelson, Thomas; Page, Kim L.; Rupen, Michael P.; Sokoloski, Jennifer L.; Strader, Jay; Kilkenny, David, “The first nova eruption in a novalike variable: YZ Ret as seen in X-rays and gamma-rays”, *MNRAS*, 514, 2239
196. **Metzger, Brian D.**; Zenati, Yossef; Chomiuk, Laura; Shen, Ken J.; Strader, Jay, “Transients from the Cataclysmic Deaths of Cataclysmic Variables”, *ApJ*, 923, 100
195. **Metzger, Brian D.**; Sridhar, Navin; Margalit, Ben; Beniamini, Paz; Sironi, Lorenzo, “A Toy Model for the Time-Frequency Structure of Fast Radio Bursts: Implications for the CHIME/FRB Burst Dichotomy”, *ApJ*, 925, 135
194. Siegel, Daniel M.; Agarwal, Aman; Barnes, Jennifer; **Metzger, Brian D.**; Renzo, Mathieu; Villar, V. Ashley, “Super-Kilonovae from Massive Collapsars as Signatures of Black-Hole Birth in the Pair-instability Mass Gap”, accepted *ApJ*
193. Hosseinzadeh, Griffin; Berger, Edo; **Metzger, Brian D.**; Gomez, Sebastian; Nicholl, Matt; Blanchard, Peter, “Bumpy Declining Light Curves are Common in Hydrogen-poor Superluminous Supernovae”, *ApJ*, 933, 14
192. Hajela, A.; Margutti, R.; Bright, J. S.; Alexander, K. D.; **Metzger, B. D.**; Nedora, V.; Kathirgamaraju, A.; Margalit, B.; Radice, D.; Berger, E.; MacFadyen, A.; Giannios, D.; Chornock, R.; Heywood, I.; Sironi, L.; Gottlieb, O.; Coppejans, D.; Laskar, T.; Cendes, Y.; Barniol Duran, R.; Eftekhari, T.; Fong, W.; McDowell, A.; Nicholl, M.; Xie, X.; Zrake, J.; Bernuzzi, S.; Broekgaarden, F. S.; Kilpatrick, C. D.; Terreran, G.; Villar, V. A.; Blanchard, P. K.; Gomez, S.; Hosseinzadeh, G.; Matthews, D. J.; Rastinejad, J. C., “Evidence for X-Ray Emission in Excess to the Jet-afterglow Decay 3.5 yr after the Binary Neutron Star Merger GW 170817: A New Emission Component”, *ApJL*, 927L, 17
191. Chomiuk, Laura; Linford, Justin D.; Aydi, Elias; Bannister, Keith W.; Krauss, Miriam I.; Mioduszewski, Amy J.; Mukai, Koji; Nelson, Thomas J.; Rupen, Michael P.; Ryder, Stuart D.; Sokoloski, Jennifer L.; Sokolovsky, Kirill V.; Strader, Jay; Filipović, Miroslav D.; Finzell, Tom; Kawash, Adam; Kool, Erik C.; **Metzger, Brian D.**; Nyamai, Miriam M.; Ribeiro, Valério A. R. M.; Roy, Nirupam; Urquhart, Ryan; Weston, Jennifer, “Classical Novae at Radio Wavelengths”, *ApJS*, 257, 2
190. Mooley, K. P.; Margalit, B.; Law, C. J.; Perley, D. A.; Deller, A. T.; Lazio, T. J. W.; Bietenholz, M. F.; Shimwell, T.; Intema, H. T.; Gaensler, B. M.; **Metzger, B. D.**; Dong, D. Z.; Hallinan, G.; Ofek, E. O.; Sironi, L., “Late-time Evolution and Modeling of the Off-axis Gamma-Ray Burst Candidate FIRST J141918.9+394036”, *ApJ*, 924, 16

189. **Metzger, Brian D.**; Fernández, Rodrigo, “From Neutrino- to Photon-cooled in Three Years: Can Fallback Accretion Explain the X-Ray Excess in GW170817?”, *ApJL*, 916, 3
188. Chomiuk, Laura; **Metzger, Brian D.**; Shen, Ken J., “New Insights into Classical Novae”, *Annual Reviews in Astronomy & Astrophysics*, 59, 391
187. Vurm, Indrek; **Metzger, Brian D.**; “Gamma-ray Thermalization and Leakage from Millisecond Magnetar Nebulae: Towards a Self-Consistent Model for Superluminous Supernovae”, *ApJ*, 917, 77
186. Dean, Coleman; Fernández, Rodrigo; **Metzger, Brian D.**, “Resolving the Fastest Ejecta from Binary Neutron Star Mergers: Implications for Electromagnetic Counterparts”, *ApJ*, 921, 161
185. Sridhar, Navin; **Metzger, Brian D.**; Beniamini, Paz; Margalit, Ben; Renzo, Mathieu; Sironi, Lorenzo; Kovlakas, Konstantinos, “Periodic Fast Radio Bursts from Luminous X-ray Binaries”, *ApJ*, 917, 13
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