Curriculum Vitae, Updated 01/25

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, University of Wisconsin−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 ($\approx \$7.04M$ total)

35. "WoU-MMA: Engine-Powered Transients from Compact Object Birth", NSF AAG (AST-24066374), 09/01/24-08/31/27. **Award**:$590,559

34. "Simons Investigator Award", Simons Foundation (727700), 01/01/24-12/31/28. **Award**:$960,000

33. "Periodic Flares in Galactic Nuclei from Star-Disk Collisions", NASA ATP (80NSSC24K0934), 05/01/24-04/30/27. **Award**:$584,766

32. "Modeling the Shock-Powered Gamma-Ray Emission in Symbiotic Novae", Fermi Guest Investigator Program, 01/01/24−12/31/24. **Award**: $80K.

31. "From GeV To TeV Gamma-Ray Emission In Novae ", Fermi Guest Investigator Program (80NSSC22K1573), 01/01/23−12/31/23. **Award**: $80K.

30. "The Role of Shocks in Classical Novae", NASA ATP (80NSSC22K0807), 05/01/22−4/30/25. **Award**: $543.2K.

29. "Gamma-rays from Magnetar-Powered Supernovae", Fermi Guest Investigator Program (80NSSC22K1574), 01/01/23−12/31/23. **Award**: $80K.

28. "Magnetized Outflows from Neutron Star Mergers and Collapsars", NSF AAG (AST-2002577), 09/01/20−8/31/23. **Award**: $454.1K.

27. "NSF-BSF: Stellar Collisions in Extreme Environments", NSF AAG (AST-2009255), 09/01/20−8/31/23. **Award**: $428.6K.

26. "Gamma-ray Emission from Engine-Powered Supernovae", Fermi Guest Investigator Program (80NSSC20K1557), 11/01/20−10/31/21. **Award**: $80K.

25. "Multi-dimensional models of shock-powered emission in gamma-ray novae", Fermi Guest Investigator Program (80NSSC20K1561), 11/01/20−10/31/21. **Award**: $80K.

24. "Origin of Early UV Emission from Binary Neutron Star Mergers", Swift Guest Investigator Program (80NSSC20K0909), 09/01/20−08/31/2021. **Award:** $40K

23. "Magnetized Outflows from Neutron Star Mergers and Collapsars", Astronomy & Astrophysics Research Grants (AST-2002577), 09/01/20−08/31/2023. **Award:** $454.1K

22. "NSF-BSF: Stellar Collisions in Extreme Environments", Astronomy & Astrophysics Research Grants (AST-2009255), 09/01/20−08/31/2023. **Award:** $428.6K

21. "Electromagnetic Counterparts of Neutron Star Mergers", Simons Fellowship, 07/01/19−6/30/20. **Award**: $135.6K towards sabbatical leave.

20. "Particle Acceleration at Radiative Shocks in Gamma-Ray Novae", Fermi Guest Investigator Program, 01/01/19−12/31/19. **Award**: $60K.

19. "The Role of Shocks in the Appearance and Aftermath of Stellar Mergers and Type IIn Supernovae", HST Guest Investigator Program, 10/01/17−09/30/20. **Award**: $72K.

18. "Dynamics and Rates of Tidal Disruption Events", NASA Astrophysics Theory Research Program, 09/01/17−08/31/20. **Award**: $370.4K.

17. "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.

16. "Particle Acceleration and Non-Thermal Emission in Gamma-Ray Novae", NASA Fermi Guest Investigator Program, 10/01/16−09/30/17. **Award**: $45K.

15. "Testing the Magnetar Model for SLSNe with Swift", Swift Guest Investigator Program (NNX16AN77G), 09/01/16−08/31/17. **Award**: $42K.

14. "Signatures of Shocks and Particle Acceleration in Novae", NSF Astrophysics Theory (AST-1615084), 07/01/16−06/30/19. **Award**: $342.7K.

13. "Bringing Novae into the 21st Century," Research Corporation for Scientific Advancement (PG007637), 01/01/16−12/31/16. **Award**: $33.3K.

12. "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.

11. "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.

10. "Accretion Disk Outflows from Compact Object Mergers", NASA Astrophysics Theory Research Program, 10/01/15−09/30/18. **Award**: $436.7K.

9. "Gamma-Ray Novae as Probes of Shock Acceleration", NASA Fermi Guest Investigator Program (NNX14AQ68G), 09/01/14−08/31/15. **Award**: $99K.

8. "Testing the Millisecond Magnetar Model for GRBs and SLSNe" NSF Astrophysics Theory (AST-1410950), 07/15/14−06/30/17. **Award**: $381.2K.

7. Alfred P. Sloan Research Fellowship, 09/01/14-08/31/16. **Award**: $50K.

Custodial PI for Columbia Postdoctoral Fellows:

6. Junior Fellowship of Floor Broekgaarden in the Simons Society of Fellows, Simons Foundation, 08/01/23−07/31/26. **Award**: $347.2K.

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:
MIT (10/23), Harvard CfA (10/23),
STScI/JHU (03/23), U of Arizona TAP (02/23), 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: N3AS (10/23), 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: $\sim$ 70 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 Generozov, Columbia (09/13−05/18; 5 publications)
Ben Margalit, Columbia (11/14−06/18; 17 publications)
Dhruv Desai, Columbia (04/16−; 2 publications)
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−; 6 publications)
Chengcheng Xin, Columbia (09/21−; 1 publication)
Semih Tuna, Columbia (01/22−; 1 publication)

Ani Patel, Columbia (01/23−; 1 publication)
Sean Li, Columbia (06/24−)

Postdoctoral:

Dr. Nicholas Stone (09/13−04/19), NASA Einstein Fellow
Current Position: Assistant Professor, University of Wisconsin–Madison
Dr. Daniel Siegel (11/15−05/19), NASA Einstein Fellow
Current Position: Professor, University of Greifswald
Dr. Jennifer Barnes (09/17−09/21), NASA Einstein Fellow
Current Position: Senior Algorithm Engineer, 3M
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, Harvard University
Dr. Mathieu Renzo (11/20−12/23), Columbia/CCA Joint Position
Current Position: Assistant Professor, University of Arizona
Dr. Tatsuya Matsumoto (10/21−07/23), JSPS Fellow
Current Position: Assistant Professor, Kyoto University
Dr. Floor Broekgaarden (09/23−09/24), Simons Junior Fellow
Current Position: Assistant Professor, San Diego
Dr. Itai Linial (01/23−), Columbia THEA
Dr. Jared Goldberg (01/23−), CCA FRF
Dr. Ore Gottlieb (09/23−), CCA FRF
Dr. Tejas Prasanna (09/24−), Columbia THEA
Dr. Andrea Antoni (09/23−), CCA FRF

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, Fa 23, Fa 24)

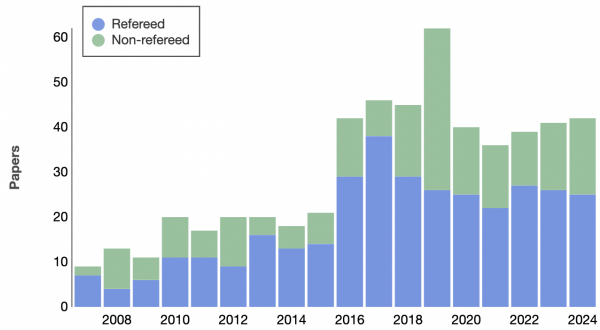
DEPARTMENTAL/INSTITUTIONAL SERVICE

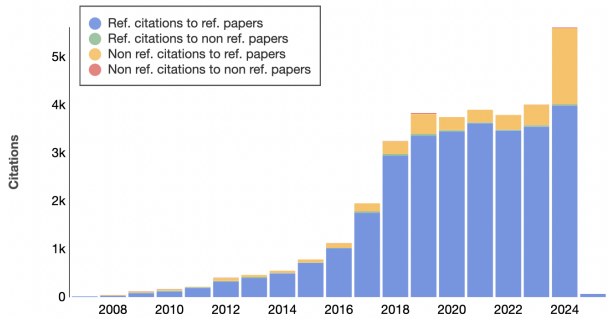
	Committees, CCA
2024	Colloquium Committee
2023	FRF Executive Hiring Committee
2021, 22	FRF Hiring Committee
	Committees, Columbia Department of Physics (Chair†)
2022,23	Strategic Hiring Plan Committee
2017,20-24†	Colloquium
2019	Junior Faculty Hiring Committee
2017,20	Graduate
2016,18†	Qualifying Examination
2014,15,17	Graduate Admissions
	Committees, Columbia Department of Astronomy
2023,24	Junior Faculty Hiring Committee
	Representative, Columbia Department of Physics
2015	Graduate Student Open House, Astrophysics Representative
2014	Grad School Applications Panel Session for Physics Majors
2014,17	Physics Orientation, Astrophysics Representative
2014–	**Thesis Defense Committee:** Rachel Carr, Melania Nynka
	David Kaleko, Andriy Petrashyk, Andrea Derdzinski, Xiao Tu
	Aliya Babul, Deivid Ribeiro, Kong Leung, Navin Sridhar
	Luke Krauth, Colin Adams (Columbia)
	Gilad Svirski (Tel Aviv), Daniel Siegel (Bonn), Jonas Lippuner (Caltech)
	Phil Cowperthwaite (Harvard), Amir Weissbein (Hebrew), Pragya Chawla (McGill)
2013–20	Co-Organizer (w/ A. Beloborodov), High Energy Astrophysics Seminar
2021–	Co-Director, Columbia Theoretical High-Energy Astrophysics (THEA) Group

SELECT PROFESSIONAL SERVICE and PUBLIC OUTREACH

2022	SOC/Report Author, NASA TDAMM Initiative
2022,23	Reviewer, Simons Investigator Award
2021	Blavatnik Regional Awards, Judge
2020	2020 Decadal Survey of Astronomy & Astrophysics, Program Panelist
	Workshop/Conference Organizer:
12/23	"Radiation Transport in Astrophysics," Flatiron CCA
09/23	"The Astrophysics of Fast Radio Bursts 2," Flatiron CCA
05/23	"Workshop on TDEs and QPEs," Columbia University
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:
2021, 22	Columbia Internal Blavatnik Awards Reviewer
2017,19, 20	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
2015	NSF Theoretical Nuclear Physics
2014	NASA Postoctoral Program Fellowship
2013–	HST Director's Discretionary Time Proposal
2012	NSF Astrophysics Theory
2012	NESSF Graduate Student Fellowship
2011	NASA *Fermi* Guest Investigator Program
2014–	Telescope TAC, e.g. *Hubble Space Telescope*, *Gemini Observatory*
	Guest Lecturer:
2018	FRIB Theory Alliance Neutron Star Merger Summer School
2015	Caltech Gravitational Wave Astrophysics Summer School
2014	Graduate Student Lectures on Gamma-Ray Bursts, GGI Workshop
2012	Princeton Summer REU Program
	Journal Article Reviewer:
	Nature, *The Astrophysical Journal*, *Nature Astronomy*, *ApJ Letters*, *PRL*, *New Astronomy*, *Monthly Notices of the Royal Astronomical Society*, *Astrophysics & Space Science*, *Space Science Reviews*
2014–16	Member of "Time Domain" working group, Next Generation VLA
2010–	Public Lectures (e.g. SE Iowa Astronomy Club, Science-on-Hudson, Advanced Studies Gateway, Space Talk at Chalsty Planetarium)





PEER-REVIEWED PUBLICATIONS

(≈46 as 1st author, ≈39500 citations total [∼ 9400 on first-author papers], h-index: 98)

Submitted

274. Zenati, Yossef; Wang, Qinan; Bobrick, Alexey; DeMarchi, Lindsay; Glanz, Hila; Rozner, Mor; Rest, Armin; **Metzger, Brian D.**; et al., "Evidence for Extended Hydrogen-Poor CSM in the Three-Peaked Light Curve of Stripped Envelope Ib Supernova", submitted ApJ

273. Sokolovsky, Kirill V.; , ..., **Metzger, Brian D.**; et al., "TESS photometry of the nova eruption in V606 Vul: asymmetric photosphere and multiple ejections?", submitted

272. Sears, Huei et al., "Late-time HST and JWST Observations of GRB 221009A: Evidence for a Break in the Light Curve at 50 Days", submitted

271. Partenheimer, Angelina; Thwaites, Jessie; Fang, Ke; Vandenbroucke, Justin; Metzger, Brian D.;, "Prospects for Observing Astrophysical Transients with GeV Neutrinos", submitted

270. Gottlieb, Ore; Metzger, Brian D.; Foucart, Francois; Ramirez-Ruiz, Enrico, "A Unified Model of Kilonovae and GRBs in Binary Mergers Establishes Neutron Stars as the Central Engines of Short GRBs", submitted

269. Vurm, Indrek; Linial, Itai; Metzger, Brian D., "Radiation Transport Simulations of Quasi-Periodic Eruptions from Star-Disk Collisions", submitted

268. Issa, Danat; Gottlieb, Ore; Metzger, Brian; Jacquemin-Ide, Jonatan; Liska, Matthew; Foucart, Francois; Halevi, Goni; Tchekhovskoy, Alexander, "Magnetically-Driven Neutron-Rich Ejecta Unleashed: Global 3D Neutrino-GRMHD Simulations of Collapsars Reveal the Conditions for r-process Nucleosynthesis", submitted

267. Rastinejad, J. C.; Fong, W.; Kilpatrick, C. D.; Nicholl, M.; Metzger, B. D.; "Uniform Modeling of Observed Kilonovae: Implications for Diversity and the Progenitors of Merger-Driven Long Gamma-Ray Bursts", submitted

266. Mukhopadhyay, Mainak; Kimura, Shigeo S.; Metzger, Brian D.; "High-energy neutrino signatures from pulsar remnants of binary neutron-star mergers: coincident detection prospects with gravitational waves", submitted

265. Ibrahimzade, Dina et al.; "Constraints on Relativistic Jets from the Fast X-ray Transient 210423 using Prompt Radio Follow-Up Observations", submitted

2025

264. Matsumoto, Tatsuya; Metzger, Brian D.; Goldberg, Jared A., "Long Plateau Doth So: How Internal Heating Sources Affect Hydrogen-rich Supernova Light Curves", ApJ, 987, 56

2024

263. Levan, A. et al., "Heavy-element production in a compact object merger observed by JWST", Nature, 626, 737L

262. Cehula, Jakub; Thompson, Todd A.; Metzger, Brian D.; "Dynamics of baryon ejection in magnetar giant flares: implications for radio afterglows, r-process nucleosynthesis, and fast radio bursts", MNRAS, 528, 5323

261. Migliori, Giulia; Margutti, R.; Metzger, B. D. et al.; "Roaring to Softly Whispering: X-Ray Emission after 3.7 yr at the Location of the Transient AT2018cow and Implications for Accretion-powered Scenarios", ApJ, 963, 24

260. Blanchard, Peter K.; et al., "JWST detection of a supernova associated with GRB 221009A without an r-process signature", Nature Astronomy, 8, 774

259. Rastinejad, J. C. et al., "A Hubble Space Telescope Search for r-Process Nucleosynthesis in Gamma-Ray Burst Supernovae", ApJ, 968, 14

258. Metzger, Brian D.; Hui, Lam; Cantiello, Matteo; "Fragmentation in Gravitationally Unstable Collapsar Disks and Subsolar Neutron Star Mergers", ApJL, 971, 34

257. Sarin, Nikhil; Clarke, Teagan A.; Magnall, Spencer J.; Lasky, Paul D.; Metzger, Brian D.; Berger, Edo; Sridhar, Navin; "The Origin of the Coherent Radio Flash Potentially Associated with GRB 201006A", ApJ, 973,20

256. Gottlieb, Ore; Metzger, Brian D., "Late Jets, Early Sparks: Illuminating the Premaximum Bumps in Superluminous Supernovae", ApJL, 974, 9

255. Dong, Y. et al., "A Radio Study of Persistent Radio Sources in Nearby Dwarf Galaxies: Implications for Fast Radio Bursts", ApJ, 973, 133

254. Linial, Itai; Metzger, Brian D.; "Coupled Disk-star Evolution in Galactic Nuclei and the Lifetimes of QPE Sources", ApJ, 973, 101

253. Quimby, Robert M.; Metzger, Brian D.; Shen, Ken J.; Shafter, Allen W.; Corbett, Hank; Overton, Madeline; "The Rise of Nova V1674 Herculis", ApJ, 977, 17

252. Gottlieb, Ore; Renzo, Mathieu; Metzger, Brian D.; Goldberg, Jared A.; Cantiello, Matteo; "She's Got Her Mother's Hair: Unveiling the Origin of Black Hole Magnetic Fields through Stellar to Collapsar Simulations", ApJ, 976, 13

251. Cendes, Yvette; Berger, Edo; Alexander, Kate D.; Chornock, Ryan; Margutti, Raffaella; **Metzger, Brian** et al., "Ubiquitous Late Radio Emission from Tidal Disruption Events", ApJ, 971, 185

250. Sayeed, M., Ness, Melissa K.; Montet, Benjamin T.; Cantiello, Matteo; Casey, Andrew R.; Buder, Sven; Bedell, Megan; Breivik, Katelyn; **Metzger, Brian D.**; et al., "Many Roads Lead to Lithium: Formation Pathways For Lithium-Rich Red Giants", ApJ, 964, 42

249. Lagos, Macarena; Jenks, Leah; Isi, Maximiliano; Hotokezaka, Kenta; Metzger, Brian D.; Burns, Eric; Farr, Will M.; Perkins, Scott; Wong, Kaze W. K.; Yunes, Nicolas, "Birefringence tests of gravity with multi-messenger binaries", PRD, 109, 12

248. Anand, Shreya; ... **Metzger, Brian D.**; ..., "Collapsars as Sites of r-process Nucleosynthesis: Systematic Photometric Near-infrared Follow-up of Type Ic-BL Supernovae", ApJ, 962, 68

247. Linial, Itai; Metzger, Brian D., "Ultraviolet Quasi-periodic Eruptions from Star-Disk Collisions in Galactic Nuclei", ApJL, 963, 1

246. Cehula, Jakub; Thompson, Todd; **Metzger, Brian D.**; "Dynamics of baryon ejection in magnetar giant flares: implications for radio afterglows, r-process nucleosynthesis, and fast radio bursts", MNRAS, 528, 5323

245. Calderon, Diego; Pejcha, Ondrej; **Metzger, Brian D.**; Duffell, Paul C., "The effect of relativistic precession on light curves of tidal disruption events", MNRAS, 528, 5323

244. Aydi, E.; ... , **Metzger, Brian D.**; et al., "Revisiting the classics: on the evolutionary origin of the 'Fe II' and 'He/N' spectral classes of novae", MNRAS, 527, 9303

243. Sridhar, N.; **Metzger, Brian D.**; Fang, K.; "High-Energy Neutrinos from Gamma-Ray-Faint Accretion-Powered Hypernebulae", ApJ, 960, 74

242. Sarin, Nikhil; **Metzger, Brian D.**, "Tidal Disruption Events through the Lens of the Cooling Envelope Model", ApJL, 961L, 19

241. Patel, Anirudh; Goldberg, Jared A.; Renzo, Mathieu; **Metzger, Brian D.**, "The Effects of r-Process Enrichment in Hydrogen-Rich Supernovae", ApJ, 966, 212

240. Matsumoto, Tatsuya; **Metzger, Brian D.**; Goldberg, Jared A., "Long Plateau Doth So: How Internal Heating Sources Affect Hydrogen-Rich Supernova Light Curves", submitted

2023

239. Teboul, Odelia; **Metzger, Brian D.**, "A Unified Theory of Jetted Tidal Disruption Events: From Promptly Escaping Relativistic to Delayed Transrelativistic Jets", ApJL, 957, 9

238. Eftekhari, T., ..., **Metzger, B. D.**, et al., "An X-ray Census of Fast Radio Burst Host Galaxies: Constraints on AGN and X-ray Counterparts", ApJ, 958, 66

237. Gottlieb, Ore; **Metzger, Brian D.**; Quataert, Eliot; Issa, Danat; Foucart, Francois, "A Unified Picture of Short and Long Gamma-ray Bursts from Compact Binary Mergers", ApJ, 958, 33

236. Rouco Escorial, A.; ..., **Metzger, Brian D.**, et al., "The Jet Opening Angle and Event Rate Distributions of Short Gamma-ray Bursts from Late-time X-ray Afterglows", ApJ, 959, 13

235. Linial, I., **Metzger, B. D.** , "EMRI + TDE = QPE: Periodic X-ray Flares from Star-Disk Collisions in Galactic Nuclei", ApJ, 957, 34

234. Barnes, J.; **Metzger, Brian D.** , "A collapsar origin for GRB 211211A is (just barely) possible", ApJ, 947, 55

233. Diesing, R.; **Metzger, Brian D.** ,et al., "Evidence for multiple shocks from the gamma-ray emission of RS Ophiuchi", ApJ, 947, 70

232. Hiramatsu, D.; Berger, E.; **Metzger, Brian D.**; et al., "Limits on Simultaneous and Delayed Optical Emission from Well-Localized Fast Radio Bursts", ApJ, 947, 28

231. Tuna, S.; **Metzger, B. D.**, "Long-Term Evolution of Massive-Star Post-Common Envelope Circumbinary Disks and the Environments of Fast Luminous Transients", ApJ, 955, 125

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