# Curriculum Vitae

## Eliot Quataert

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### ACADEMIC POSITIONS

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|---|---|
| 7/20 – present | Charles A. Young Professor of Astronomy, Princeton University |
| 7/20 – present | Professor of Astrophysical Sciences, Princeton University |
| 7/08 – 6/20 | Professor of Astronomy and Physics, UC Berkeley |
| 7/19 – 6/20 | Chair, Department of Astronomy, UC Berkeley |
| 7/06 – 6/20 | Director, Theoretical Astrophysics Center, UC Berkeley |
| 7/08 – 7/14 | Thomas and Alison Schneider Chair in Physics, UC Berkeley |
| 7/05 – 7/08 | Associate Professor of Astronomy, UC Berkeley |
| 7/01 – 7/05 | Assistant Professor of Astronomy, UC Berkeley |
| 9/99 – 7/01 | Long Term (5-Year) Member, Institute for Advanced Study |

### EDUCATION

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| 9/96-8/99 | Harvard University, M.A. & Ph.D. in Astronomy |
| 9/91-6/95 | Massachusetts Institute of Technology, B.S. in Physics |

### OVERVIEW

I am an astrophysics theorist with interests in a wide variety of problems, including compact objects, plasma astrophysics, stellar physics, and galaxy formation. My research utilizes both analytic calculations and numerical simulations. I teach undergraduate and graduate classes on topics including the origin and evolution of the Universe, stars, fluid dynamics, and compact objects. I also regularly give non-technical talks describing the physics and astrophysics of black holes, neutron star mergers, and galaxy formation to the public, community colleges, and amateur astronomical societies.

### SELECTED PROFESSIONAL ACTIVITIES

- 2022-present International Advisory Committee, Higgs Centre, University of Endinburgh
- 2021-present LIGO Lab Oversight Committee
- 2021-present Advisory Board, Kavli Institute for Theoretical Physics
- 2021-present Science Advisory Committee, Kavli Institute for Astronomy & Astrophysics, Beijing
- 2019-2021: Survey Steering Committee, 2020 Decadal Survey for Astronomy & Astrophysics, National Academy of Sciences
- 2016-2022: Space Studies Board, National Academy of Sciences
- 2015-2022: Editorial Board, Annual Reviews of Astronomy & Astrophysics
- 2012-2013: Executive Committee, Miller Institute for Basic Research in Science (UCB)
- 2010-2014: LIGO Astronomy & Astrophysics Advisory Panel
- 2009-2010: National Academy of Sciences Astro2010 Science Frontier Panel
- 2006-2009: National Resource Council's Plasma Science Committee
- 2005-2006: National Academy of Sciences Plasma2010 Committee

## HONORS and AWARDS

| | |
|---|---|
| 2020 | Elected Member, National Academy of Sciences |
| 2018 | Elected Member, American Academy of Arts and Sciences |
| 2012 | Simons Investigator in Physics |
| 2010 | Noyce Prize for Excellence in Undergraduate Teaching (Berkeley) |
| 2009 | Fellow of the American Physical Society |
| | *For numerous pioneering contributions to theoretical astrophysics and plasma physics, including investigations into the role of convection and instabilities in accretion flows, the discovery of the heat-flux-buoyancy instability, and studies of kinetic plasma turbulence and its dissipation* |
| 2009 | Miller Research Professorship (Berkeley) |
| 2008 | Helen B. Warner Prize (American Astronomical Society) |
| | *For his contributions to plasma astrophysics and accretion processes, the theory of low luminosity galactic nuclei, and an extraordinary range of other topics in theoretical astrophysics* |
| 2005 | Bart J. Bok Prize in Astronomy (Harvard) |
| 2003 | Packard Fellowship for Science and Engineering |
| 2003 | Hellman Faculty Fund Award (Berkeley) |
| 2002 | Alfred P. Sloan Research Fellowship |
| 1999-2001 | Chandra (aka Einstein) Fellowship |
| 1996-1999 | National Science Foundation Graduate Research Fellowship |
| 1995 | Joel M. Orloff Award for Outstanding Scholastic Achievement in Physics (MIT) |
| 1994-1995 | Barry M. Goldwater Scholarship |
| 1993-1994 | Burchard Scholar (MIT) |

## NAMED LECTURES and POSITIONS

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|---|---|
| 2019 | Pappalardo Lecture (MIT) |
| 2019 | Kaufmanis Lecture (Univ. of Minnesota) |
| 2019 | Bishop Lecture (Columbia) |
| 2019 | Gordon and Betty Moore Distinguished Visiting Scholar (Caltech) |
| 2014 | Halley Lecture (Oxford) |
| 2012 | Salpeter Lectures (Cornell) |
| 2012 | LIGO Distinguished Visitor (Caltech) |
| 2011 | Biermann Lectures (Max Planck Institute for Astrophysics, Garching) |
| 2009 | Tinsley Visiting Professorship (UT Austin) |

## PUBLICATIONS IN REFEREED JOURNALS

1. A. Antoni & **E. Quataert**, 2022, "Numerical Simulations of the Random Angular Momentum in Convection II: Delayed Explosions of Red Supergiants Following "Failed" Supernovae," MNRAS submitted
2. W. Lu & **E. Quataert**, 2022, "Quasi-periodic Eruptions from Mildly Eccentric Unstable Mass Transfer in Galactic Nuclei", MNRAS submitted
3. P. Kempski, **E. Quataert**, & J. Squire, 2022, "A New Buoyancy Instability in Galaxy Clusters Due to Streaming Cosmic Rays," MNRAS submitted
4. W. Lu & **E. Quataert**, 2022, "Late-time Accretion in Neutron Star Mergers: Implications for Short Gamma-ray Bursts and Kilonovae", MNRAS submitted
5. K. El-Badry, H.-W. Rix, **E. Quataert**, et al, 2022, "A Sun-like Star Orbiting a Black Hole," MNRAS submitted
6. L. Arzamasskiy, M. W. Kunz., J. Squire, **E. Quataert**, & A. A. Schekochihin, 2022, "Kinetic Turbulence in Collisionless High-Beta Plasmas," ApJ submitted
7. B. Margalit, A. S. Jermyn, B. D. Metzger, L. F. Roberts, & **E. Quataert**, 2022, "Angular Momentum Transport in Proto-Neutron Stars and the Fate of Neutron Star Merger Remnants," ApJ submitted
8. R. Feldmann, **E. Quataert** et al., 2022, "FIREbox: Simulating galaxies at high dynamic range in a cosmological volume," MNRAS submitted
9. K. J. Shen & **E. Quataert**, 2022, "Binary Interaction Dominates Mass Ejection in Classical Novae, ApJ submitted
10. H. Hu, K. Inayoshi, Z. Haiman, W. Li, **E. Quataert**, & R. Kuiper, 2022, "Supercritical growth pathway to overmassive black holes at cosmic dawn: coevolution with massive quasar hosts," ApJ in press
11. W. Lu, J. Fuller, **E. Quataert**, & C. Bonnerot, 2022, "On rapid binary mass transfer – I. Physical model," MNRAS submitted
12. O. Sameie, M. Boylan-Kolchin, P. F. Hopkins, et al., 2022, "Formation of proto-globular cluster candidates in cosmological simulations of dwarf galaxies at $z > 4$," MNRAS submitted
13. H. Hu, K. Inayoshi, Z. Haiman, **E. Quataert**, & R. Kuiper, 2022, "Long-term evolution of supercritical black hole accretion with outflows: a subgrid feedback model for cosmological simulations," ApJ in press
14. S. Wellons, C.-A. Faucher-Giguère, P. F. Hopkins, **E. Quataert** et al, 2022, "Exploring supermassive black hole physics and galaxy quenching across halo mass in FIRE cosmological zoom simulations," MNRAS submitted
15. K. El-Badry, C. Conroy, **E. Quataert**, et al., 2022, "Birth of a Be star: an APOGEE search for Be stars forming through binary mass transfer," MNRAS submitted
16. P. F. Hopkins, A. Wetzel, C. Wheeler, et al., 2022, "FIRE-3: Updated Stellar Evolution Models, Yields, & Microphysics and Fitting Functions for Applications in Galaxy Simulations," MNRAS, in press
17. P. F. Hopkins, I. Butsky, G. V. Panopoulou, S. Ji, **E. Quataert**, et al., 2022, "First Predicted Cosmic Ray Spectra, Primary-to-Secondary Ratios, and Ionization Rates from MHD Galaxy Formation Simulations," MNRAS

18. Z. Hafen, J. Stern, J. Bullock et al., 2022, "Hot-mode accretion and the physics of thin-disk galaxy formation," MNRAS, 514, 5056

19. P. Kempski & **E. Quataert**, 2022, "Reconciling Cosmic-Ray Transport Theory with Phenomenological Models Motivated by Milky-Way Data," MNRAS, 514, 657

20. H. Jia, C. J. White, **E. Quataert,** & S. M. Ressler 2022, "Observational Signatures of Black Hole Accretion: Rotating vs. Spherical Flows with Tilted Magnetic Fields,"

21. E. Kado-Fong, R. Sanderson, J. Greene, E. Cunningham, et al., 2022, "The In-situ Origins of Dwarf Stellar Outskirts in FIRE-2," ApJ, 931, 152

22. B. Margalit, **E. Quataert**, & A. Y. Q. Ho, 2021, "Optical to X-ray Signatures of Dense Circumstellar Interaction in Core-Collapse Supernovae," ApJ, 928, 122

23. J. Squire, R. Meyrand, M. W. Kunz, et al., 2021, "The Helicity Barrier: How Low-frequency Turbulence Triggers High-frequency Solar-wind Heating," Nature Astronomy, 6, 715

24. J. Moreno, S. Danieli, J. Bullock, et al., 2022, "Galaxies lacking dark matter produced by close encounters in a cosmological simulation," Nature Astronomy, 6, 496

25. B. Margalit & E. Quataert, 2022, "Thermal Electrons in Mildly-relativistic Synchrotron Blastwaves," ApJ, 923, L14

26. A. Antoni & **E. Quataert**, 2021, "Numerical Simulations of the Random Angular Momentum in Convection: Implications for Supergiant Collapse to Form Black Holes," MNRAS, 511, 176

27. C. J. White & **E. Quataert**, 2022, "The Effects of Tilt on the Time Variability of Millimeter and Infrared Emission from Sagittarius A*," MNRAS, 926, 136

28. H. Klion, A. Tchekhovskoy, D. Kasen, A. Kathirgamaraju, **E. Quataert**, & R. Fernandez, 2022, "The Impact of R-process Heating on the Dynamics of Neutron Star Merger Accretion Disc Winds and their Electromagnetic Radiation," MNRAS, 510, 2968

29. **E. Quataert**, Y.-F. Jiang, & T. A. Thompson, 2022, "The Physics of Galactic Winds Driven by Cosmic Rays II: Isothermal Streaming Solutions," MNRAS, 510, 920

30. C. W. Trapp, D. Kereš, T. K. Chan et al, 2022, "Gas infall and radial transport in cosmological simulations of milky way-mass discs'," MNRAS, 509, 4149

31. **E. Quataert**, T. A. Thompson, & Y.-F. Jiang, 2022, "The Physics of Galactic Winds Driven by Cosmic Rays I: Diffusion," MNRAS, 510, 920

32. K. El-Badry, H.-W. Rix, **E. Quataert**, et al., 2021, "Birth of the ELMs: a ZTF Survey for Evolved Cataclysmic Variables Turning into Extremely Low-Mass White Dwarfs," MNRAS, 508, 4106

33. V. Pandya, D. Fielding, D. Anglés-Alcázar, R. S. Somerville, et al., 2021, "Characterizing Mass, Momentum, Energy and Metal Outflow Rates of Multi-phase Galactic Winds in the FIRE-2 Cosmological Simulations," MNRAS, 508, 2979

34. B. Margalit & **E. Quataert**, 2021, "Thermal Electrons in Mildly-relativistic Synchrotron Blastwaves," ApJL, 923, L14

35. A. F. A. Bott, L. Arzamasskiy, M. W. Kunz, **E. Quataert**, & J. Squire, 2021, "Adaptive Critical Balance and Firehose Instability in an Expanding, Turbulent, Collisionless Plasma," ApJ, 922, L35

36. D. Lecoanet, M. Cantiello, E. H. Anders, **E. Quataert**, et al., 2021 "Surface manifestation of stochastically excited internal gravity waves," MNRAS, 5018, 132

37. J. Stern, A. Sternberg, C.-A. Faucher-Giguère, Z. Hafen, D. Fielding, **E. Quataert,** et al., 2021, "Neutral CGM as Damped Lyman-$\alpha$ Absorbers at High Redshift," MNRAS, 507, 2869

38. S. Ginzburg & **E. Quataert**, 2021, "Novae Heat Their Food: Mass Transfer by Irradiation," MNRAS, 507, 475

39. M. Y. Grudic, J. M. D. Kruijssen, C.-A. Faucher-Giguère, et al., 2021, "A model for the formation of stellar associations and clusters from giant molecular clouds," MNRAS, 506, 3293

40. K. El-Badry, **E. Quataert**, H.-W. Rix, D. R. Weisz, et al., 2021, "LAMOST J0140355+392651: An Evolved Cataclysmic Variable Donor Transitioning to Become an Extremely Low Mass White Dwarf," MNRAS, 505, 2051

41. S. Yu, J. S. Bullock, C. Klein, J. Stern, et al., 2021, "The Bursty Origin of the Milky Way Thick Disc," MNRAS, 505, 889

42. C. J. Esmerian, A. V. Kravtsov, Z. Hafen, C.-A. Faucher-Giguère, **E. Quataert**, et al., 2021, "Thermal Instability in the CGM of $L_*$ Galaxies: Testing 'Precipitation' Models with the FIRE Simulationsm," MNRAS, 505, 1841

43. D. Anglés-Alcázar, **E. Quataert**, P. F. Hopkins, R. S. Somerville, et al., 2021, "Cosmological Simulations of Quasar Fueling to Sub-parsec Scales Using Lagrangian Hyper-refinement," ApJ, 917, 53

44. S. Ressler, **E. Quataert**, C. J. White, & O. Blaes, 2021, "Magnetically Modified Spherical Accretion in GRMHD: Reconnection-Driven Convection and Jet Propagation," MNRAS, 504, 6076

45. S. Ji, D. Kereš, T. K. Chan, J. Stern, C. B. Hummels, et al., 2021, "Virial Shocks are Suppressed in Cosmic ray-dominated Galaxy Halos," MNRAS, 505, 259

46. P. Beniamini, P. Kumar, X. Ma, & **E. Quataert**, 2021, "Exploring the Epoch of Hydrogen Reionization Using FRBs," MNRAS, 502, 5134

47. J. Squire, P. F. Hopkins, **E. Quataert**, & P. Kempski, 2021, "The Impact of Astrophysical Dust Grains on the Confinement of Cosmic Rays," MNRAS, 502, 2630

48. H. Klion, P. C. Duffell, D. Kasen, & **E. Quataert**, 2021, "The Effect of Jet-Ejecta Interaction on the Viewing Angle Dependence of Kilonova Light Curves," MNRAS, 502, 865

49. S. Ginzburg & **E. Quataert**, 2021, "Black Widow Formation by Pulsar Irradiation and Sustained Magnetic Braking," MNRAS, 500, 1592

50. J. Stern, D. Fielding, C.-A. Faucher-Giguère, **E. Quataert**, et. al., 2021, "Virialization of the Inner CGM in the FIRE Simulations and Implications for Galaxy Disks, Star Formation and Feedback," ApJ, 911, 88

51. T. Berlok, **E. Quataert**, M. Pessah, & C. Pfrommer, 2021, "Suppressed Heat Conductivity in the Intracluster Medium: Implications for the Magneto-thermal Instability," MNRAS, 504, 3435

52. K. El-Badry & **E. Quataert**, 2021, "A Stripped-Companion Origin for Be stars: Clues from the Putative Black Holes HR 6819 and LB-1," MNRAS, 502, 3436

53. P. F. Hopkins, J. Squire, T. K. Chan, **E. Quataert**, et al., 2021, "Testing Physical Models for Cosmic Ray Transport Coefficients on Galactic Scales: Self-Confinement and Extrinsic Turbulence at GeV Energies," MNRAS, 501, 4184

54. P. F. Hopkins, T. K. Chan, S. Ji, et al., 2021, "Cosmic-Ray Driven Outflows to Mpc Scales from $L_*$ Galaxies," MNRAS , 501, 3640

55. P. F. Hopkins, T. K. Chan, J. Squire, **E. Quataert**, et al., 2021, "Effects of Different Cosmic Ray Transport Models on Galaxy Formation," MNRAS, 501, 3663

56. A. B. Gurvich, C.-A. Faucher-Giguère, A. J. Richings, et al., 2020, "Pressure Balance in the Multiphase ISM of Cosmologically Simulated Disk Galaxies," MNRAS, 498, 3664

57. W. M. Kunz, J. Squire, A. A. Schekochihin, & **E. Quataert**, 2020, "Self-Sustaining Sound in Collisionless High-$\beta$ Plasmas," Journal of Plasma Physics, 86, 6

58. K. De, M. Kasliwal, A. Tzanidakis, et al., 2020, "The Zwicky Transient Facility Census of the Local Universe I: Systematic search for Calcium Rich Gap Transients Reveal Three Related Spectroscopic Sub-classes," ApJ, 905, 58

59. M. Li, Y. Li, G. L. Bryan, E. C. Ostriker, & **E. Quataert**, et al., "The Impact of Type Ia Supernovae in Quiescent Galaxies: II. Energetics and Turbulence," ApJ, 898, 23

60. P. Torrey, P. F. Hopkins, C.-A. Faucher-Giguère, D. Anglés-Alcázar, **E. Quataert**, et al., 2020, "The Impact of AGN Wind Feedback in Simulations of Isolated Galaxies with a Multiphase ISM," MNRAS, 497, 5292

61. S. Ji, T. K. Chan, C. B. Hummels, et al., 2020, "Properties of the Circumgalactic Medium in Cosmic Ray-Dominated Galaxy Halos," MNRAS, 496, 4221

62. S. Ressler, C. J. White, **E. Quataert**, & J. M. Stone, 2020, "Ab Initio Horizon-Scale Simulations of Magnetically Arrested Accretion in Sagittarius A* Fed by Stellar Winds," ApJ, 896, L6

63. X. Ma, **E. Quataert**, A. Wetzel, P. F. Hopkins, et al., 2020, "No Missing Photons for Reionization: Moderate Ionizing Photon Escape Fractions from the FIRE-2 Simulations," MNRAS, 493, 4315

64. K. El-Badry & **E. Quataert**, 2020, "Not so Fast: LB-1 is Unlikely to Contain a 70 $M_\odot$ Black Hole," MNRAS, 493, L22

65. R. Anantua, S. Ressler, & **E. Quataert**, 2020, "On the comparison of AGN with GRMHD simulations: I. Sgr A*," 493, 1404

66. Y. Li, M. Gendron-Marsolais, I. Zhuravleva, et al. 2020, "Direct Detection of Black Hole-Driven Turbulence in the Centers of Galaxy Clusters," ApJ, 889, L1

67. S. Ginzburg & **E. Quataert**, 2020, "Black Widow Evolution: Magnetic Braking by an Ablated Wind," MNRAS, 495, 3656

68. P. Kempski, **E. Quataert**, & J. Squire, 2020, "Sound-Wave Instabilities in Dilute Plasmas with Cosmic Rays: Implications for Cosmic-Ray Confinement and the Perseus X-ray Ripples," MNRAS, 493, 5323

69. P. F. Hopkins, T. K. Chan, S. Garrison-Kimmel, et al., 2020, "But What About ... Cosmic Rays, Magnetic Fields, Conduction, & Viscosity in Galaxy Formation," MNRAS, 492, 3465

70. M. Li, Y. Li, G. L. Bryan, E. C. Ostriker, & **E. Quataert**, 2020, "The Impact of Type Ia Supernovae in Quiescent Galaxies: I. Formation of the Multiphase Interstellar Medium," ApJ, 894, 44

71. C. J. White, J. Dexter, O. Blaes, & **E. Quataert**, 2020, "The Effects of Tilt on the Images of Black Hole Accretion Flows," ApJ, 894, 14

72. M. T. P. Liska, A. Tchekhovskoy, & **E. Quataert**, 2020, "Large-Scale Poloidal Magnetic Field Dynamo Leads to Powerful Jets in GRMHD Simulations of Black Hole Accretion with Toroidal Field," MNRAS, 494, 3656

73. J. Stern, D. Fielding, C.-A. Faucher-Giguère, & **E. Quataert**, 2020, "The Maximum Accretion Rate of Hot Gas in Dark Matter Halos," MNRAS, 492, 6042

74. S. Ressler, **E. Quataert**, & J. M. Stone, 2020, "The Surprisingly Small Impact of Magnetic Fields On The Inner Accretion Flow of Sagittarius A* Fueled By Stellar Winds," MNRAS, 492, 3272

75. P. Kempski & **E. Quataert**, 2019, "Thermal Instability of Halo Gas Heated by Streaming Cosmic Rays," MNRAS, 493, 1801

76. K. J. Shen, **E. Quataert**, & R. Pakmor, 2019, "The Progenitors of Calcium-Strong Transients, ApJ, 887, 180

77. D. Lecoanet, M. Cantiello, **E. Quataert**, L. Couston, et al., 2019, "Low-Frequency Variability in Massive Stars: Core Generation or Surface Phenomenon?" ApJL, 886, L15

78. I. M. Christie, A. Lalakos, A. Tchekhovskoy, et al., 2019, "The Role of Magnetic Field Geometry in the Evolution of Neutron Star Merger Accretion Discs," MNRAS, 490, 4811

79. C. Wheeler, P. F. Hopkins, A. B. Pace, et al., 2019, "Be it Therefore Resolved: Cosmological Simulations of Dwarf Galaxies With 30 Solar Mass Resolution," MNRAS, 490, 4447

80. X. Ma, M. Y. Grudic, **E. Quataert**, P. F. Hopkins, et al., 2019, "Self-Consistent Proto-Globular Cluster Formation in Cosmological Simulations of High-Redshift Galaxies," MNRAS, 493, 4315

81. C. J. White, **E. Quataert**, & C. F. Gammie, 2020, "The Structure of Radiatively Inefficient Black Hole Accretion Flows," ApJ, 891, 63

82. R. E. Sanderson, A. Wetzel, S. Loebman, et al., 2020, "Synthetic Gaia Surveys from the FIRE Cosmological Simulations of Milky-Way-Mass Galaxies," ApJS, 246, 6

83. J. Stern, D. Fielding, C.-A. Faucher-Giguère, & **E. Quataert**, 2019, "Cooling Flow Solutions for the Circumgalactic Medium," ApJ, 488, 2549

84. K. El-Badry, E. C. Ostriker, C. Kim, **E. Quataert**, & D. R. Weisz, 2019, "Evolution of Supernovae-driven Superbubbles with Conduction and Cooling," MNRAS, 490, 1961

85. L. Liang, R. Feldmann, D. Kereš, et al., 2019, "On the Dust Temperature of High Redshift Galaxies," MNRAS, 489, 1397

86. Y. Li, G. L. Bryan, & **E. Quataert**, 2019, "The Fate of AGB Winds in Massive Galaxies and the Intracluster Medium," ApJ, 847, 41

87. P. P. Choudhury, P. Sharma, & **E. Quataert**, 2019, "Multiphase Gas in the Circumgalactic Medium: Relative Role of $t_{\rm cool}/t_{\rm ff}$ and Density Fluctuations," MNRAS, 488, 3195

88. T. K. Chan, D. Kereš, P. F. Hopkins, **E. Quataert**, K.-Y. Su, et al., 2019, "Cosmic ray Feedback in the FIRE Simulations: Constraining Cosmic Ray Propagation with GeV Gamma Ray Emission," MNRAS, 488, 3716

89. X. Ma, C. C. Hayward, C. M. Casey, P. F. Hopkins, **E. Quataert**, et al., 2019, "Dust Extinction, Dust Emission, and Dust Temperature in Galaxies at $z \geq 5$: a View From the FIRE-2 Simulations," MNRAS, 487, 1844

90. S. Ro, E. R. Coughlin, & **E. Quataert**, 2019, "Weak Shock Propagation with Accretion III. A Numerical Study on Shock Propagation and Stability," ApJ, 878, 150

91. L. Arzamasskiy, M. W. Kunz, B. D. G. Chandran, & **E. Quataert**, "Hybrid-Kinetic Simulations of Ion Heating in Alfvénic Turbulence," 2019, ApJ, 879, 53

92. C. J. White, **E. Quataert**, & O. Blaes, 2019, "Tilted Disks Around Black Holes: A Numerical Parameter Survey for Spin and Inclination Angle," ApJ, 878, 51

93. P. Kempski, **E. Quataert**, J. Squire, & M. W. Kunz, 2019, "Shearing-Box Simulations of MRI-Driven Turbulence in Weakly Collisional Accretion Discs," MNRAS, 486, 4013

94. **E. Quataert**, D. Lecoanet, & E. R. Coughlin, 2019, "Black Hole Accretion Discs and Luminous Transients in Failed Supernovae from Non-Rotating Supergiants," MNRAS, 485, L83

95. C. J. White, J. M. Stone, & **E. Quataert**, 2019, "A Resolution Study of Magnetically Arrested Disks," ApJ, 874, 168

96. M. Grudic, P. F. Hopkins, **E. Quataert**, N. Murray, 2019, "The Maximum Stellar Surface Density Due to the Failure of Stellar Feedback," MNRAS, 483, 5548

97. E. R. Coughlin, S. Ro, & **E. Quataert**, 2019, "Weak Shock Propagation with Accretion II. Stability of Self-Similar Solutions to Radial Perturbations," ApJ, 874, 58

98. D. Martizzi, **E. Quataert**, C.-A. Faucher-Giguère, & D. Fielding, 2019, "Simulations of Jet Heating in Galaxy Clusters: Successes and Challenges," MNRAS, 483, 2465

99. K. El-Badry, **E. Quataert**, D. Weisz, N. Choksi, & M. Boylan-Kolchin, 2019, "The Formation and Hierarchical Assembly of Globular Cluster Populations," MNRAS, 482, 4528

100. S. Garrison-Kimmel, P. F. Hopkins, A. Wetzel, K. El-Badry, et al., 2018, "The origin of the diverse morphologies and kinematics of Milky Way-mass galaxies in the FIRE-2 simulations," MNRAS, 481, 4133

101. J. Squire, A. A. Schekochihin, **E. Quataert**, & M. W. Kunz, 2019, "Magneto-immutable Turbulence in Weakly Collisional Plasmas," Journal of Plasma Physics, 85, 9014

102. R. Fernandez, A. Tchekhovskoy, **E. Quataert**, F. Foucart, & D. Kasen, 2019, "Long-term GRMHD Simulations of Neutron Star Merger Accretion Disks: Implications for Electromagnetic Counterparts," MNRAS, 482, 3373

103. S. Darbha, E. R. Coughlin, D. Kasen, **E. Quataert**, 2019, "Gravitational Interactions of Stars with Supermassive Black Hole Binaries. II. Hyper-velocity Stars," MNRAS, 482, 2132

104. P. C. Duffell, **E. Quataert**, D. Kasen, and H. Klion, 2018, "Jet Dynamics in Compact Object Mergers: GW 170817 Likely Had a Successful Jet," ApJ, 866, 1

105. S. Ressler, **E. Quataert**, & J. M. Stone, 2019, "Accretion of Magnetized Stellar Winds in the Galactic Center: Implications for Sgr A* and PSR J1745-2900," MNRAS Letters, 482, L123

106. C. Lochhaas, T. A. Thompson, **E. Quataert**, & D. H. Weinberg, 2018, "Fast Winds Drive Slow Shells: A Model for the CGM as Galactic Wind-Driven Bubbles," MNRAS, 481, 1873

107. A. Lamberts, S. Garrison-Kimmel, P. F. Hopkins, **E. Quataert**, et al., 2018, "Predicting the binary black hole population of the Milky Way with cosmological simulations, MNRAS, 480, 2704

108. P. F. Hopkins, A. Wetzel, D. Keres, C.-A. Faucher-Giguère, **E. Quataert**, 2017, "FIRE-2 Simulations: Physics versus Numerics in Galaxy Formation," MNRAS, 480, 800

109. Y. Jiang, M. Cantiello, L. Bildsten, **E. Quataert**, O. Blaes, & James M. Stone, 2018, "Luminous Blue Variable Outbursts from the Variations of Helium Opacity," Nature, 561, 498

110. K. El-Badry, J. Bland-Hawthorn, A. Wetzel, **E. Quataert**, et al., 2018, "Where are the Most Ancient Stars in the Milky Way?" MNRAS, 480, 652

111. M. Belyaev & **E. Quataert**, 2018, "Inefficient Angular Momentum Transport in Accretion Disk Boundary Layers: Angular Momentum Belt in the Boundary Layer," MNRAS, 479, 1528

112. A. Fitts, M. Boylan-Kolchin, J. S. Bullock, et al., 2018, "No Assembly Required: Mergers are Mostly Irrelevant for the Growth of Low-mass Dwarf Galaxies," MNRAS, 479, 319

113. B. R. Ryan, S. M. Ressler, J. C. Dolence, C. F. Gammie, & **E. Quataert**, 2018, "Two-Temperature GRRMHD Simulations of M87," ApJ, 864, 126

114. M. Orr, C. Hayward, P. F. Hopkins, et al., 2017, "What FIREs Up Star Formation: the Emergence of the Kennicutt-Schmidt Law from Feedback," MNRAS, 478, 3653

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