

Curriculum Vitae

Eliot Quataert

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ACADEMIC POSITIONS

7/19 – present	Chair, Department of Astronomy, UC Berkeley
7/08 – present	Professor of Astronomy and Physics, UC Berkeley
7/06 – present	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

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

- 2019-present: Survey Steering Committee, 2020 Decadal Survey for Astronomy & Astrophysics, National Academy of Sciences
- 2016-present: Space Studies Board, National Academy of Sciences
- 2015-present: 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
- 2008-2012: Executive Committee, Topical Group on Plasma Astrophysics (APS)
- 2006-2009: National Resource Council's Plasma Science Committee
- 2005-2006: National Academy of Sciences Plasma2010 Committee

HONORS and AWARDS

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
	<i>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</i>
2009	Miller Research Professorship (Berkeley)
2008	Helen B. Warner Prize (American Astronomical Society)
	<i>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</i>
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

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. C. J. White, J. Dexter, O. Blaes, & **E. Quataert**, 2020, “The Effects of Tilt on the Images of Black Hole Accretion Flows,” ApJ in prep
2. K. El-Badry & **E. Quataert**, 2020, “Not so Fast: LB-1 is Unlikely to Contain a $70 M_{\odot}$ Black Hole,” MNRAS Letters submitted
3. Y. Li, M. Gendron-Marsolais, I. Zhuravleva, et al. 2020, “Direct Detection of Black Hole-Driven Turbulence in the Centers of Galaxy Clusters,” ApJ Letters, submitted
4. P. Kempfski, **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, submitted
5. C. J. White, **E. Quataert**, & C. F. Gammie, 2020, “The Structure of Radiatively Inefficient Black Hole Accretion Flows,” ApJ submitted
6. J. Stern, D. Fielding, C.-A. Faucher-Giguère, & **E. Quataert**, 2020, “The Maximum Accretion Rate of Hot Gas in Dark Matter Halos,” ApJ, submitted
7. S. Ji, T. K. Chan, C. B. Hummels, et al., 2019, “Properties of the Circumgalactic Medium in Cosmic Ray-Dominated Galaxy Halos,” MNRAS submitted
8. M. Li, Y. Li, G. L. Bryan, E. C. Ostriker, & **E. Quataert**, 2019, “The Impact of Type Ia Supernovae in Quiescent Galaxies: II. Energetics and Turbulence,” ApJ submitted
9. M. Li, Y. Li, G. L. Bryan, E. C. Ostriker, & **E. Quataert**, 2019, “The Impact of Type Ia Supernovae in Quiescent Galaxies: I. Formation of the Multiphase Interstellar Medium,” ApJ submitted
10. P. Torrey, P. F. Hopkins, C.-A. Faucher-Giguère, D. Anglés-Alcázar, **E. Quataert**, et al., 2019, “The Impact of AGN Wind Feedback in Simulations of Isolated Galaxies with a Multiphase ISM,” MNRAS, submitted
11. D. Lecoanet, M. Cantiello, **E. Quataert**, L. Coustou, et al., 2019, “Low-Frequency Variability in Massive Stars: Core Generation or Surface Phenomenon?” ApJL in press
12. S. Ressler, **E. Quataert**, & J. M. Stone, 2019, “The Surprisingly Small Impact of Magnetic Fields On The Inner Accretion Flow of Sagittarius A* Fueled By Stellar Winds,” MNRAS in press
13. P. Kempfski & **E. Quataert**, 2019, “Thermal Instability of Halo Gas Heated by Streaming Cosmic Rays,” MNRAS, in press
14. K. J. Shen, **E. Quataert**, & R. Pakmor, 2019, “The Progenitors of Calcium-Strong Transients,” ApJ in press
15. 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 submitted

16. M. T. P. Liska, A. Tchekhovskoy, & **E. Quataert**, 2019, “Large-Scale Poloidal Magnetic Field Dynamo Leads to Powerful Jets in GRMHD Simulations of Black Hole Accretion with Toroidal Field,” MNRAS Letters submitted
17. 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 submitted
18. P. F. Hopkins, T. K. Chan, S. Garrison-Kimmel, et al., 2019, “But What About ... Cosmic Rays, Magnetic Fields, Conduction, & Viscosity in Galaxy Formation,” MNRAS submitted
19. J. Stern, D. Fielding, C.-A. Faucher-Giguère, & **E. Quataert**, 2019, “Cooling Flow Solutions for the Circumgalactic Medium,” ApJ, in press
20. K. El-Badry, E. C. Ostriker, C. Kim, **E. Quataert**, & D. R. Weisz, 2019, “Evolution of Supernovae-driven Superbubbles with Conduction and Cooling,” MNRAS in press
21. L. Liang, R. Feldmann, D. Kereš, et al., 2019, “On the Dust Temperature of High Redshift Galaxies,” MNRAS in press
22. Y. Li, G. L. Bryan, & **E. Quataert**, 2019, “The Fate of AGB Winds in Massive Galaxies and the Intracluster Medium,” ApJ in press
23. P. P. Choudhury, P. Sharma, & **E. Quataert**, 2019, “Multiphase Gas in the Circumgalactic Medium: Relative Role of $t_{\text{cool}}/t_{\text{ff}}$ and Density Fluctuations,” MNRAS in press
24. 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 submitted
25. R. E. Sanderson, A. Wetzel, S. Loebman, et al., 2019, “Synthetic Gaia Surveys from the FIRE Cosmological Simulations of Milky-Way-Mass Galaxies,” ApJ submitted
26. 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 in press
27. S. Ro, E. R. Coughlin, & **E. Quataert**, 2019, “Weak Shock Propagation with Accretion III. A Numerical Study on Shock Propagation and Stability,” ApJ in press
28. L. Arzamasskiy, M. W. Kunz, B. D. G. Chandran, & **E. Quataert**, “Hybrid-Kinetic Simulations of Ion Heating in Alfvénic Turbulence,” 2019, ApJ in press
29. C. J. White, **E. Quataert**, & O. Blaes, 2019, “Tilted Disks Around Black Holes: A Numerical Parameter Survey for Spin and Inclination Angle,” ApJ in press
30. 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
31. **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

32. C. J. White, J. M. Stone, & **E. Quataert**, 2019, “A Resolution Study of Magnetically Arrested Disks,” *ApJ*, 874, 168
33. 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
34. 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
35. D. Martizzi, **E. Quataert**, C.-A. Faucher-Giguère, & D. Fielding, 2019, “Simulations of Jet Heating in Galaxy Clusters: Successes and Challenges,” *MNRAS*, 483, 2465
36. 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
37. 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
38. J. Squire, A. A. Schekochihin, **E. Quataert**, & M. W. Kunz, 2019, “Magneto-immutable Turbulence in Weakly Collisional Plasmas,” *Journal of Plasma Physics*, 85, 9014
39. 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
40. 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
41. 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
42. 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
43. 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
44. 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
45. 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
46. 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
47. 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

48. M. Belyaev & **E. Quataert**, 2018, “Inefficient Angular Momentum Transport in Accretion Disk Boundary Layers: Angular Momentum Belt in the Boundary Layer,” *MNRAS*, 479, 1528
49. 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
50. B. R. Ryan, S. M. Ressler, J. C. Dolence, C. F. Gammie, & **E. Quataert**, 2018, “Two-Temperature GRRMHD Simulations of M87,” *ApJ*, 864, 126
51. 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
52. S. Ressler, **E. Quataert**, & J. M. Stone, 2018, “Hydrodynamic Simulations of the Inner Accretion Flow of Sagittarius A* Fueled By Stellar Winds,” *MNRAS*, 478, 3544
53. X. Ma, P. F. Hopkins, S. Garrison-Kimmel, et al., 2017, “Simulating Galaxies in the Reionization Era With FIRE-2: Galaxy Scaling Relations, Stellar Mass Functions, and Luminosity Functions,” *MNRAS*, 478, 1694
54. E. R. Coughlin, S. Darbha, D. Kasen, **E. Quataert**, 2018, “Stellar binaries incident on supermassive black hole binaries: implications for double tidal disruption events, calcium-rich transients, and hypervelocity stars,” *ApJ*, 863, L24
55. E. R. Coughlin, **E. Quataert**, & S. Ro, 2018, “Weak Shock Propagation with Accretion I. Self-Similar Solutions and Application to Failed Supernovae,” *ApJ*, 863, 158
56. L. Liang, R. Feldmann, C.-A. Faucher-Giguère, et al., 2018, “Submillimeter flux as a probe of molecular ISM mass in high-z galaxies,” *MNRAS*, 478, L83
57. D. B. Fielding, **E. Quataert**, & D. Martizzi, 2018, “Clustered Supernovae Drive Powerful Galactic Winds After Super-Bubble Breakout,” *MNRAS*, 481, 3325
58. S. Darbha, E. R. Coughlin, D. Kasen, **E. Quataert**, 2018, “Gravitational Interactions of Stars with Supermassive Black Hole Binaries. I. Tidal Disruption Events,” *MNRAS*, 477, 4009
59. P. F. Hopkins, A. Wetzel, D. Keres, C.-A. Faucher-Giguère, **E. Quataert**, et al. 2018, “How to Model Supernovae in Simulations of Star and Galaxy Formation,” *MNRAS*, 477, 1578
60. K. El-Badry, J. Bradford, **E. Quataert**, M. Geha, et al., 2018, “Gas Kinematics in FIRE Simulated Galaxies Compared to Spatially Unresolved HI Observations,” *MNRAS*, 477, 1536
61. E. R. Coughlin, **E. Quataert**, R. Fernandez, & D. Kasen, 2018, “A Physical Model of Mass Ejection in Failed Supernovae,” *MNRAS*, 477, 1225
62. X. Ma, P. F. Hopkins, M. Boylan-Kolchin, C.-A. Faucher-Giguère, **E. Quataert**, et al. 2018, “Simulating Galaxies in the Reionization Era With FIRE-2: Morphologies and Sizes,” *MNRAS*, 477, 219

63. F. van de Voort, **E. Quataert**, C.-A. Faucher-Giguère, et al. 2018, “The Deuterium Abundance and the Importance of Stellar Mass Loss in the Interstellar and Intergalactic Medium”, MNRAS, 477, 80
64. R. Fernandez, **E. Quataert**, K. Kashiyama, & E. R. Coughlin, 2018, “Mass Ejection in Failed Supernovae: Variation with Stellar Progenitor,” MNRAS, 476, 2366
65. K. El-Badry, H.-W. Rix, Y.-S. Ting, **E. Quataert**, D. Weisz, et al., 2018, “Discovery and Characterization of Main-Sequence Binaries from APOGEE Spectra,” MNRAS, 476, 528
66. P. S. Cowperthwaite, E. Berger, A. Rest, et al., 2018, “An Empirical Study of Contamination in Deep, Rapid, and Wide-Field Optical Follow-Up of Gravitational Wave Events,” ApJ, 858, 18
67. B. D. Metzger, T. A. Thompson, **E. Quataert**, 2018, “A magnetar origin for the kilonova ejecta in GW170817,” 2018, ApJ, 856, 101
68. M. A. Riquelme, A. Osorio, & **E. Quataert**, 2018, “Stochastic Electron Acceleration by the Whistler Instability in a Growing Magnetic Field,” ApJ, 854, 132
69. M. Y. Grudic, P. F. Hopkins, C.-A. Faucher-Giguère, **E. Quataert**, N. Murray, & D. Kereš, 2018, “When Feedback Fails: The Scaling and Saturation of Star Formation Efficiency,” MNRAS, 475, 3511
70. I. Escala, A. Wetzel, E. N. Kirby, et al., 2018, “Modeling Chemical Abundance Distributions for Dwarf Galaxies in the Local Group: the Impact of Turbulent Metal Diffusion,” MNRAS, 474, 2194
71. J. Luan, J. Fuller, & **E. Quataert**, 2018, “How *Cassini* Can Constrain Tidal Dissipation in Saturn,” MNRAS, 473, 5002
72. M. A. Riquelme, **E. Quataert**, & D. Verscharen, 2018, “PIC Simulations of the Velocity Space Instabilities in a Decreasing Magnetic Field: Viscosity and Thermal Conduction,” ApJ, 854, 132
73. K. Su, C. Hayward, P. F. Hopkins, **E. Quataert**, et al., 2018, “Stellar Feedback Strongly Alters the Amplification and Morphology of Galactic Magnetic Fields,” MNRAS Letters, 473, L111
74. K. El-Badry, **E. Quataert**, A. Wetzel, P. F. Hopkins, et al., 2018, “Gas Kinematics, Morphology, and Angular Momentum in the FIRE Simulations,” MNRAS, 473, 1930
75. S. P. Owocki, R. H. D. Townsend, & **E. Quataert**, 2017, “Super-Eddington Winds: Unifying Radiative-Enthalpy vs. Flux-Driven Models,” MNRAS, 472, 3749
76. J. Schwab, L. Bildsten, & **E. Quataert**, 2017, “The Importance of Urca-process Cooling in Accreting One White Dwarfs,” MNRAS, 472, 3390
77. J. Squire, **E. Quataert**, & M. W. Kunz, 2017, “Pressure-anisotropy-induced Nonlinearities in the Kinetic Magnetorotational Instability,” J. Plasma Phys., 83, 9013

78. J. Brooks, J. Schwab, L. Bildsten, **E. Quataert**, et al., 2018, “Fast and Luminous Transients From the Explosions of Long Lived Massive White Dwarf Merger Remnants,” *ApJ*, 850, 127
79. B. P. Abbott, R. Abbott, T. D. Abbott, et al., 2017, “A Gravitational-wave Standard Siren Measurement of the Hubble Constant,” *Nature*, 551, 85
80. B. P. Abbott, R. Abbott, T. D. Abbott, et al., 2017, “Multi-messenger Observations of a Binary Neutron Star Merger” *ApJ*, 848, L12
81. D. Kasen, B. D. Metzger, J. Barnes, **E. Quataert**, & E. Ramirez-Ruiz, 2017, “Origin of the Heavy Elements in Binary Neutron Star Mergers from a Gravitational Wave Event,” *Nature*, 551, 80
82. D. Anglés-Alcázar, C.-A. Faucher-Giguère, **E. Quataert**, et al., 2017 “Black Holes on FIRE: Stellar Feedback Limits Early Feeding of Galactic Nuclei,” *MNRAS Letters*, 472, L109
83. R. Chornock, E. Berger, D. Kasen, et al., “The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. IV. Detection of the Near-Infrared Signatures of r-Process Nucleosynthesis with Gemini South,” *ApJ*, 848, L19
84. P. S. Cowperthwaite, E. Berger, V. A. Villar, et al., 2017 “The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. II. UV, Optical, and Near-IR Light Curves and Comparison to Kilonova Models,” *ApJ*, 848, L17
85. M. Soares-Santos, D. E. Holz, J. Annis, et al., 2017, “The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. I. Dark Energy Camera Discovery of the Optical Counterpart,” *ApJ*, 848, L16
86. B. R. Ryan, S. M. Ressler, J. C. Dolence, C. F. Gammie, & **E. Quataert**, 2017, “The Radiative Efficiency and Spectra of Slowly Accreting Black Holes from Two-Temperature GRRMHD Simulations,” *ApJ Letters*, 844, L24
87. S. H. Price, M. Kriek, R. Feldmann, **E. Quataert**, et al., 2017, “Testing the Recovery of Intrinsic Galaxy Sizes and Masses of $z \sim 2$ Galaxies Using Cosmological Simulations,” *ApJ Letters*, 844, L6
88. J. Brooks, J. Schwab, L. Bildsten, **E. Quataert**, & B. Paxton, 2017, “Accretion-induced Collapse From Helium Star + White Dwarf Binaries,” *ApJ*, 844, 151
89. J. Squire, M. W. Kunz, **E. Quataert**, & A. A. Schekochihin, 2017, “Kinetic Simulations of the Interruption of Large-amplitude Shear-Alfvén Waves in a High- β Plasma,” *PRL*, 119, 5101
90. S. Garrison-Kimmel, A. R. Wetzel, J. S. Bullock, et al., 2017, “Not so lumpy after all: modeling the depletion of dark matter subhalos by Milky Way-like galaxies,” *MNRAS*, 471, 1709
91. J. Squire, A. A. Schekochihin, & **E. Quataert**, 2017, “Amplitude limits and nonlinear damping of shear-Alfvén waves in high-beta low-collisionality plasmas,” *New Journal of Physics*, 19, 155005

92. D. Anglés-Alcázar, C.-A. Faucher-Giguère, D. Kereš, P. F. Hopkins, et al., 2017 “The Cosmic Baryon Cycle and Galaxy Mass Assembly in the FIRE Simulations,” MNRAS, 470, 4698
93. A. Muratov, D. Kereš, C.-A. Faucher-Giguère, P. F. Hopkins, et al., 2016, “Metal Flows of the Circumgalactic Medium, and the Metal Budget in Galaxies and Halos,” MNRAS, 468, 4170
94. F. Foucart, M. Chandra, C. F. Gammie, **E. Quataert**, & A. Tchekhovskoy, 2017, “How Important is Non-ideal Physics in Simulations of Sub-Eddington Accretion onto Spinning Black Holes?” MNRAS, 470, 2240
95. D. Fielding, **E. Quataert**, D. Martizzi, & C.-A. Faucher-Giguère, 2017, “How Supernovae Launch Galactic Winds,” MNRAS Letters, 470, L39
96. K. El-Badry, D. Weisz, & **E. Quataert**, et al., 2017, “The Statistical Challenge of Constraining the Low-Mass IMF in Local Group Dwarf Galaxies” MNRAS, 468, 319
97. Y. Jiang, M. Cantiello, L. Bildsten, **E. Quataert**, & O. Blaes, 2017, “The Effects of Magnetic Fields on the Structure of Radiation Pressure Dominated Massive Star Envelopes,” ApJ, 843, 68
98. R. Feldmann, **E. Quataert**, P. F. Hopkins, C.-A. Faucher-Giguère, & D. Kereš, 2017, “Colors, Star Formation Rates, and Environments of Star forming and Quiescent Galaxies at the Cosmic Noon,” MNRAS, 470, 1050
99. Z. Hafen, C.-A. Faucher-Giguère, D. Angles-Alcazar, et al., 2016, “Low-Redshift Lyman Limit Systems as Diagnostics of Cosmological Inflows and Outflows,” MNRAS, 469, 2292
100. D. Zhang, T. A. Thompson, **E. Quataert**, & N. Murray, 2015, “Entrainment in Trouble? Cool Cloud Acceleration and Destruction in Hot Supernova-Driven Galactic Winds,” MNRAS, 468, 4801
101. S. M. Ressler, A. Tchekhovskoy, **E. Quataert**, & C. F. Gammie, 2017, “The Disc-Jet Symbiosis Emerges: Modeling the Emission of Sagittarius A* with Electron Thermodynamics,” MNRAS, 467, 3604
102. X. Ma, P. F. Hopkins, A. Wetzel, et al., 2017, “The Structure and Dynamical Evolution of the Stellar Disk of a Simulated Milky Way-Mass Galaxy,” MNRAS, 467, 2430
103. P. Torrey, P. F. Hopkins, C.-A. Faucher-Giguère, M. Vogelsberger, **E. Quataert**, D. Kereš, & N. Murray, 2017, “An Instability of Feedback Regulated Star Formation in Galactic Nuclei,” MNRAS, 467, 2301
104. S. A. Mao, J. Dexter, **E. Quataert**, 2017, “The Impact of Non-thermal Electrons on Event Horizon Scale Images and Spectra of Sgr A*,” MNRAS, 466, 4397
105. D. B. Fielding, **E. Quataert**, M. McCourt, T. A. Thompson, 2017, “The Impact of Star Formation Feedback on the Circumgalactic Medium,” MNRAS, 466, 3810
106. K. El-Badry, A. Wetzel, M. Geha, **E. Quataert**, et al., 2017, “When the Jeans Don’t Fit: Stellar Feedback Complicates Dynamical Modeling in Low-Mass Galaxies,” ApJ, 835, 193

107. J. Brooks, J. Schwab, L. Bildsten, **E. Quataert**, & B. Paxton, 2017, “Convection Destroys the Core/Mantle Structure of Hybrid C/O/Ne White Dwarfs,” *ApJ Letters*, 834, L9
108. H. Klion & **E. Quataert**, 2017, “A Diagnostic for Localizing Red Giant Differential Rotation,” *MNRAS Letters*, 464, L16
109. D. Verscharen, B. D. G. Chandran, K. G. Klein, & **E. Quataert**, 2016, “Collisionless Isotropization of the Solar Wind by Compressive Fluctuations and Plasma Instabilities,” *ApJ*, 831, 128
110. D. Lecoanet, J. Schwab, **E. Quataert**, L. Bildsten, F. X. Timmes, et al., 2016, “Turbulent Chemical Diffusion in Convectively Bounded Carbon Flames,” *ApJ*, 832, 71
111. M. W. Kunz, J. M. Stone, & **E. Quataert**, 2016, “Magnetorotational Turbulence and Dynamo in a Collisionless Plasma,” *PRL*, 117, 5101
112. F. van de Voort, **E. Quataert**, P. F. Hopkins, C.-A. Faucher-Giguère et al., 2016, “The Impact of Stellar Feedback on Hot Gas in Galaxy Haloes: Sunyaev-Zeldovich Effect and Soft X-ray Emission,” *MNRAS*, 463, 4533
113. J. Schwab, **E. Quataert**, & D. Kasen, 2016, “The Evolution and Fate of Super-Chandrasekhar Mass White Dwarf Merger Remnants” *MNRAS*, 363, 346
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