

Curriculum Vitae

Eliot Quataert

University of California at Berkeley
Department of Astronomy
501 Campbell Hall #3411
Berkeley, CA 94720-3411

E-mail : eliot@berkeley.edu
Web: : w.astro.berkeley.edu/~eliot
Phone : (510) 642-5275

ACADEMIC POSITIONS

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 and galaxy formation to the public, community colleges, and amateur astronomical societies.

SELECTED PROFESSIONAL ACTIVITIES

- 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 Panel

SELECTED HONORS and AWARDS

- 2019 Gordon and Betty Moore Distinguished Scholar (Caltech)
2018 Elected Member, American Academy of Arts and Sciences
2014 Halley Lecturer (Oxford)
2012 Simons Investigator in Physics
2012 Salpeter Lecturer (Cornell)
2011 Biermann Lecturer (Max Planck Institute for Astrophysics, Garching)
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 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)

PUBLICATIONS IN REFEREED JOURNALS

1. E. R. Coughlin, **E. Quataert**, & S. Ro, “Self-similar, Weak Shock Propagation and Accretion in Failed Supernovae,” MNRAS in prep
2. D. B. Fielding & **E. Quataert**, “Clustered Supernovae and Galactic Winds,” 2018, MNRAS in prep
3. D. Martizzi, **E. Quataert**, C.-A. Faucher-Giguère, & D. Fielding, “Simulations of Jet Heating in Galaxy Clusters: Successes and Numerical Challenges,” 2018, MNRAS in prep
4. B. R. Ryan, S. M. Ressler, J. C. Dolence, C. F. Gammie, & **E. Quataert**, “Two-Temperature GRRMHD Simulations of M87,” 2018, ApJ submitted
5. M. Grudic, P. F. Hopkins, **E. Quataert**, N. Murray, “The Maximum Stellar Surface Density Due to the Failure of Stellar Feedback,” 2018, MNRAS submitted
6. C. Lochhaas, T. A. Thompson, **E. Quataert**, & D. H. Weinberg, “Fast Winds Drive Slow Shells: A Model for the CGM as Galactic Wind-Driven Bubbles,” 2018, MNRAS submitted
7. S. Ressler, **E. Quataert**, & J. M. Stone, “Hydrodynamic Simulations of the Inner Accretion Flow of Sagittarius A* Fueled By Stellar Winds,” 2018, MNRAS submitted
8. S. Darbha, E. R. Coughlin, D. Kasen, **E. Quataert**, “Gravitational interactions of stars with supermassive black hole binaries. I. Tidal disruption events,” 2018, MNRAS submitted
9. K. El-Badry, J. Bland-Hawthorn, A. Wetzel, **E. Quataert**, et al., “Where are the most ancient stars in the Milky Way?,” 2018, MNRAS submitted
10. E. R. Coughlin, S. Darbha, D. Kasen, **E. Quataert**, “Stellar binaries incident on supermassive black hole binaries: implications for double tidal disruption events, calcium-rich transients, and hypervelocity stars,” 2018, ApJL submitted
11. A. Fitts, M. Boylan-Kolchin, J. S. Bullock, et al., “No Assembly Required: Mergers are Mostly Irrelevant for the Growth of Low-mass Dwarf Galaxies,” 2018, MNRAS submitted
12. K. El-Badry, J. Bradford, **E. Quataert**, M. Geha, et al., “Gas Kinematics in FIRE Simulated Galaxies Compared to Spatially Unresolved HI Observations,” 2018, MNRAS, submitted
13. A. Lamberts, S. Garrison-Kimmel, P. F. Hopkins, **E. Quataert**, et al., “Predicting the binary black hole population of the Milky Way with cosmological simulations, 2018, MNRAS submitted
14. L. Liang, R. Feldmann, C.-A. Faucher-Giguère, et al., “Submillimeter flux as a probe of molecular ISM mass in high-z galaxies,” 2018, MNRAS in press
15. S. Garrison-Kimmel, P. F. Hopkins, A. Wetzel, K. El-Badry, et al., “The origin of the diverse morphologies and kinematics of Milky Way-mass galaxies in the FIRE-2 simulations,” 2018, MNRAS submitted

16. K. El-Badry, H.-W. Rix, Y.-S. Ting, **E. Quataert**, D. Weisz, et al., “Discovery and Characterization of Main-Sequence Binaries from APOGEE Spectra,” 2018, MNRAS submitted
17. 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 submitted
18. E. R. Coughlin, **E. Quataert**, R. Fernandez, & D. Kasen, 2018, “A Physical Model of Mass Ejection in Failed Supernovae,” MNRAS in press
19. R. Fernandez, **E. Quataert**, K. Kashiyama, & E. R. Coughlin, 2018, “Mass Ejection in Failed Supernovae: Variation with Stellar Progenitor,” MNRAS in press
20. 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, submitted
21. X. Ma, P. F. Hopkins, S. Garrison-Kimmel, et al., 2017, “Simulating Galaxies in the Reionization Era With FIRE-2: the Stellar Mass-Halo Mass Relation, Stellar Mass Function, and Luminosity Functions at $z \geq 5$,” MNRAS, submitted
22. 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 submitted
23. B. D. Metzger, T. A. Thompson, **E. Quataert**, 2018, “A magnetar origin for the kilonova ejecta in GW170817,” 2018, ApJ, in press
24. M. Belyaev & **E. Quataert**, 2018, “Inefficient Angular Momentum Transport in Accretion Disk Boundary Layers: Angular Momentum Belt in the Boundary Layer,” MNRAS, in press
25. M. A. Riquelme, A. Osorio, & **E. Quataert**, 2018, “Stochastic Electron Acceleration by the Whistler Instability in a Growing Magnetic Field,” ApJ, in press
26. F. van de Voort, **E. Quataert**, C.-A. Faucher-Giguère, et al. 2017, “The Deuterium Abundance and the Importance of Stellar Mass Loss in the Interstellar and Intergalactic Medium”, MNRAS, in press
27. 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
28. 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
29. 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, in press
30. J. Luan, J. Fuller, & **E. Quataert**, 2018, “How *Cassini* Can Constrain Tidal Dissipation in Saturn,” MNRAS, 473, 5002

31. 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
32. 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
33. 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
34. S. P. Owocki, R. H. D. Townsend, & **E. Quataert**, 2017, “Super-Eddington Winds: Unifying Radiative-Enthalpy vs. Flux-Driven Models,” *MNRAS*, 472, 3749
35. J. Schwab, L. Bildsten, & **E. Quataert**, 2017, “The Importance of Urca-process Cooling in Accreting One White Dwarfs,” *MNRAS*, 472, 3390
36. J. Squire, **E. Quataert**, & M. W. Kunz, 2017, “Pressure-anisotropy-induced Nonlinearities in the Kinetic Magnetorotational Instability,” *J. Plasma Phys.*, 83, 9013
37. 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
38. P. F. Hopkins, A. Wetzel, D. Keres, C.-A. Faucher-Giguère, **E. Quataert**, 2017, “FIRE-2 Simulations: Physics versus Numerics in Galaxy Formation,” *MNRAS*, in press
39. B. P. Abbott, R. Abbott, T. D. Abbott, et al., 2017, “A Gravitational-wave Standard Siren Measurement of the Hubble Constant,” *Nature*, 551, 85
40. B. P. Abbott, R. Abbott, T. D. Abbott, et al., 2017, “Multi-messenger Observations of a Binary Neutron Star Merger” *ApJ*, 848, L12
41. 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
42. 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
43. 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
44. 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
45. 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

46. 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
47. 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
48. J. Brooks, J. Schwab, L. Bildsten, **E. Quataert**, & B. Paxton, 2017, “Accretion-induced Collapse From Helium Star + White Dwarf Binaries,” *ApJ*, 844, 151
49. 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
50. 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
51. 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
52. 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
53. 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
54. 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
55. D. Fielding, **E. Quataert**, D. Martizzi, & C.-A. Faucher-Giguère, 2017, “How Supernovae Launch Galactic Winds,” *MNRAS Letters*, 470, L39
56. 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
57. 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
58. 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
59. Z. Hafen, C.-A. Faucher-Giguère, D. Anglés-Alcázar, et al., 2016, “Low-Redshift Lyman Limit Systems as Diagnostics of Cosmological Inflows and Outflows,” *MNRAS*, 469, 2292

60. 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
61. 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
62. 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
63. S. A. Mao, J. Dexter, **E. Quataert**, 2016, “The Impact of Non-thermal Electrons on Event Horizon Scale Images and Spectra of Sgr A*,” MNRAS submitted
64. 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
65. D. B. Fielding, **E. Quataert**, M. McCourt, T. A. Thompson, 2017, “The Impact of Star Formation Feedback on the Circumgalactic Medium,” MNRAS, 466, 3810
66. 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
67. 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
68. H. Klion & **E. Quataert**, 2017, “A Diagnostic for Localizing Red Giant Differential Rotation,” MNRAS Letters, 464, L16
69. 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
70. 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
71. M. W. Kunz, J. M. Stone, & **E. Quataert**, 2016, “Magnetorotational Turbulence and Dynamo in a Collisionless Plasma,” PRL, 117, 5101
72. 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
73. J. Schwab, **E. Quataert**, & D. Kasen, 2016, “The Evolution and Fate of Super-Chandrasekhar Mass White Dwarf Merger Remnants” MNRAS, 363, 346
74. J. Squire, **E. Quataert**, & A. A. Schekochihin, 2016, “A Stringent Limit on the Amplitude of Alfvénic Perturbations in High-Beta Low-Collisionality Plasmas,” ApJ, 830, L25

75. N. Sravan, C.-A. Faucher-Giguère, F. van de Voort, D. Kereš, A. L. Muratov, P. F. Hopkins, R. Feldmann, **E. Quataert**, & N. Murray, 2016, “Strongly Time-Variable Ultra-Violet Line Emission from the Circum-Galactic Medium of High-Redshift Galaxies,” MNRAS, 463, 120
76. C.-A. Faucher-Giguère, R. Feldmann, **E. Quataert**, D. Kereš, P. F. Hopkins, & N. Murray, 2016, “A Stellar Feedback Origin for Neutral Hydrogen in High-Redshift Quasar-Mass Halos,” MNRAS, 461, L32
77. A. R. Wetzel, P. F. Hopkins, J. Kim, C.-A. Faucher-Giguère, D. Kereš, & **E. Quataert**, 2016, “Reconciling Dwarf Galaxies with Λ CDM Cosmology: Simulating a Realistic Population of Satellites Around a Milky Way-Mass Galaxy,” ApJ, 827, L23
78. P. S. Cowperthwaite, E. Berger, M. Soares-Santos, et al., 2016, “A DECam Search for an Optical Counterpart to the LIGO Gravitational Wave Event GW151226,” ApJ, 826, L29
79. X. Ma, P. F. Hopkins, D. Kasen, **E. Quataert**, D. Kereš, C.-A. Faucher-Giguère, & N. Murray 2016, “Binary Stars Can Provide the ‘Missing Photons’ Needed for Reionization,” MNRAS, 459, 3614
80. D. Martizzi, D. Fielding C.-A. Faucher-Giguère, & **E. Quataert**, 2016, “Supernova Feedback in a Local Vertically Stratified Medium: Interstellar Turbulence and Galactic Winds,” MNRAS, 459, 2311
81. B. P. Abbott, R. Abbott, T. D. Abbott, et al., 2016, “Localization and Broadband Follow-up of the Gravitational-Wave Transient GW150914,” ApJ, 826, L13
82. J. Fuller, J. Luan, & **E. Quataert**, 2016, “Resonance Locking as the Source of Rapid Tidal Migration in the Jupiter and Saturn Moon Systems,” MNRAS, 458, 3867
83. M. A. Riquelme, **E. Quataert**, & D. Verscharen, 2016, “PIC Simulations of the Effect of Velocity Space Instabilities on Electron Viscosity and Thermal Conduction,” ApJ, 824, 123
84. J. Annis, M. Soares-Santos, E. Berger, et al., 2016, “A Dark Energy Camera Search for Missing Supergiants in the LMC After the Advanced LIGO Gravitational Wave Event GW150914,” ApJ, 823, L34
85. M. Soares-Santos, R. Kessler, E. Berger, et al., 2016, “A Dark Energy Camera Search for an Optical Counterpart to the First Advanced LIGO Gravitational Wave Event GW150914,” 2016, ApJ, 823, L33
86. R. Feldmann, P. F. Hopkins, **E. Quataert**, C.-A. Faucher-Giguère, & D. Kereš, 2016, “The Formation of Massive, Quiescent Galaxies at Cosmic Noon,” MNRAS, 458, L14
87. **E. Quataert**, R. Fernández, D. Kasen, H. Klion, & B. Paxton, 2015, “Super-Eddington Stellar Winds Driven by Near-Surface Energy Deposition,” MNRAS, 458, 1214
88. P. F. Hopkins, P. Torrey, C.-A. Faucher-Giguère, **E. Quataert**, & N. Murray, 2015 “Stellar and Quasar Feedback in Concert: Effects on AGN Accretion, Obscuration, and Outflows,” MNRAS 458, 816

89. X. Ma, P. F. Hopkins, C.-A. Faucher-Giguère, N. Zolman, A. Muratov, D. Kereš, & **E. Quataert**, 2016, “The Origin and Evolution of the Galaxy Mass-Metallicity Relation,” MNRAS, 456, 2140
90. F. Foucart, M. Chandra, C. F. Gammie, & **E. Quataert**, 2016, “Evolution of Accretion Discs around a Kerr Black Hole using Extended Magnetohydrodynamics,” MNRAS, 456, 2140
91. D. Lecoanet, M. McCourt, **E. Quataert**, et al., 2016, “A Validated Nonlinear Kelvin-Helmholtz Benchmark for Numerical Hydrodynamics,” MNRAS, 455, 4274
92. T. A. Thompson, **E. Quataert**, D. Zhang, & D. H. Weinberg, 2016, “An Origin for Multi-Phase Gas in Galactic Winds and Halos,” MNRAS, 455, 1830
93. R. Fernandez, **E. Quataert**, J. Schwab, D. Kasen, & S. Rosswog, 2016, “The interplay of disk wind and dynamical ejecta in the aftermath of neutron star - black hole mergers,” MNRAS, 449, 390
94. B. D. Metzger, B. Margalit, D. Kasen, & **E. Quataert**, 2015, “The Diversity of Transients from Magnetar Birth in Core-Collapse Supernovae,” MNRAS, 454, 3311
95. T. K. Chan, D. Kereš, J. Onorbe, P. F. Hopkins, A. L. Muratov, C.-A. Faucher-Giguère, & **E. Quataert**, 2015, “The Impact of Baryonic Physics on the Structure of Dark Matter Halos: the View from the FIRE Cosmological Simulations,” MNRAS, 454, 2981
96. A. Muratov, D. Kereš, C.-A. Faucher-Giguère, P. F. Hopkins, **E. Quataert**, & N. Murray, 2015, “Gusty Gaseous Flows of FIRE: Galactic Winds in Cosmological Simulations with Explicit Stellar Feedback,” MNRAS, 2691
97. J. Onorbe, M. Boylan-Kolchin, J. S. Bullock, P. F. Hopkins, D. Kereš, C.-A. Faucher-Giguère, **E. Quataert**, & N. Murray, 2015, “Forged in FIRE: cusps, cores, and baryons in low-mass dwarf galaxies,” MNRAS, 454, 2092
98. S. M. Ressler, A. Tchekhovskoy, **E. Quataert**, M. Chandra, & C. F. Gammie, 2015, “Electron Thermodynamics in GRMHD Simulations of Low-Luminosity Black Hole Accretion,” MNRAS, 454, 1848
99. Y. Jiang, M. Cantiello, L. Bildsten, **E. Quataert**, & O. Blaes, 2015, “Local Radiation Hydrodynamic Simulations of Massive Star Envelopes at the Iron Opacity Peak,” ApJ, 813, 74
100. P. C. Duffell, **E. Quataert**, & A. I. MacFadyen, 2015, “A Narrow Short-Duration GRB Jet From a Wide Central Engine,” ApJ, 813, 64
101. M. Belyaev, **E. Quataert**, & J. Fuller, 2015, “The Properties of G-modes in Layered Semi-Convection,” MNRAS, 452, 2700
102. J. Schwab, **E. Quataert**, & L. Bildsten, 2015, “Thermal Runaway During the Evolution of ONeMg Cores Towards Accretion Induced Collapse,” MNRAS, 453, 1910

103. X. Ma, D. Kasen, P. F. Hopkins, C.-A. Faucher-Giguère, **E. Quataert**, D. Kereš, & N. Murray 2015, “The Difficulty Getting High Escape Fractions of Ionizing Photons from High-redshift Galaxies: a View from the FIRE Cosmological Simulations,” *MNRAS*, 453, 960
104. M. Chandra, C. F. Gammie, F. Foucart, & **E. Quataert**, 2015, “An Extended Magneto-hydrodynamics Model for Relativistic Weakly Collisional Plasmas,” *ApJ*, 810, 162
105. J. Fuller, M. Cantiello, D. Lecoanet, & **E. Quataert**, 2015, “The Spin Rate of Pre-collapse Stellar Cores: Wave Driven Angular Momentum Transport in Massive Stars,” *ApJ*, 810, 101
106. F. van de Voort, T. A. Davis, D. Kereš, **E. Quataert**, C.-A. Faucher-Giguère, & P. F. Hopkins 2015, “The creation and persistence of a misaligned gas disc in a simulated early-type galaxy,” *MNRAS*, 451, 3269
107. K. Kashiyama & **E. Quataert**, 2015, “Fast Luminous Blue Transients from Newborn Black Holes,” *MNRAS*, 451, 2656
108. D. Lecoanet, M. Le Bars, K. J. Burns, G. M. Vasil, Ben P. Brown, **E. Quataert**, & J. S. Oishi, 2015, “Internal Wave Generation by Convection in Water. Part 2. Numerical Simulations,” *PRE*, 91, 3016
109. D. Martizzi, C.-A. Faucher-Giguère, & **E. Quataert**, 2015, “Supernova Feedback in an Inhomogeneous Interstellar Medium,” *MNRAS*, 450, 504
110. C.-A. Faucher-Giguère, P. F. Hopkins, D. Kereš, A. Muratov, **E. Quataert**, & N. Murray, 2015, “Neutral Hydrogen in Galaxy Halos at the Peak of the Cosmic Star Formation History” *MNRAS*, 449, 987
111. T. A. Thompson, A. C. Fabian, **E. Quataert**, & N. Murray, 2015, “Dynamics of Dusty Radiation Pressure Driven Shells: Fast Outflows from Galaxies, Star Clusters, Massive Stars, and AGN,” *MNRAS*, 449, 147
112. M. McCourt, R. O’Leary, A.-M. Madigan, & **E. Quataert**, 2015, “Magnetized Gas Clouds can Survive Acceleration by a Hot Wind,” *MNRAS*, 449, 2
113. J. Nims, **E. Quataert**, & C.-A. Faucher-Giguère, 2015, “Observational Signatures of Galactic Winds Powered by Active Galactic Nuclei,” *MNRAS*, 447, 3612
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