

Curriculum Vitae

Eliot Quataert

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ACADEMIC POSITIONS

7/08 – present	Professor of Astronomy and Physics, UC Berkeley
7/08 – present	Thomas and Alison Schneider Chair in Physics, UC Berkeley
7/06 – present	Director, Theoretical Astrophysics Center, 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
- 2016-present: Science and Technology Definition Team, X-ray Surveyor
- 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

- 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. J. Schwab, L. Bildsten, & **E. Quataert**, 2017, “The Importance of Urca-process Cooling in Accreting One White Dwarfs,” MNRAS, in prep
2. D. Fielding, **E. Quataert**, D. Martizzi, & C.-A. Faucher-Giguère, 2017, “How Supernovae Launch Galactic Winds,” MNRAS Letters, submitted
3. J. Brooks, J. Schwab, L. Bildsten, **E. Quataert**, & B. Paxton, 2017, “Accretion-induced Collapse From Helium Star + White Dwarf Binaries,” ApJ, submitted
4. P. F. Hopkins, A. Wetzel, D. Keres, C.-A. Faucher-Giguère, **E. Quataert**, 2017, “FIRE-2 Simulations: Physics versus Numerics in Galaxy Formation,” MNRAS, submitted
5. 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 submitted
6. 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, submitted
7. 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
8. 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, submitted
9. 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, submitted
10. M. Y. Grudic, P. F. Hopkins, C.-A. Faucher-Giguère, **E. Quataert**, N. Murray, & D. Kereš, 2017, “When Feedback Fails: The Scaling and Saturation of Star Formation Efficiency,” MNRAS submitted
11. 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 submitted
12. 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 submitted
13. 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 submitted
14. 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 submitted

15. 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, in press
16. 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
17. 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
18. 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
19. 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
20. D. B. Fielding, **E. Quataert**, M. McCourt, T. A. Thompson, 2017, “The Impact of Star Formation Feedback on the Circumgalactic Medium,” MNRAS, 466, 3810
21. 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
22. 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
23. H. Klion & **E. Quataert**, 2017, “A Diagnostic for Localizing Red Giant Differential Rotation,” MNRAS Letters, 464, L16
24. 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
25. 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
26. M. W. Kunz, J. M. Stone, & **E. Quataert**, 2016, “Magnetorotational Turbulence and Dynamo in a Collisionless Plasma,” PRL, 117, 5101
27. 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
28. J. Schwab, **E. Quataert**, & D. Kasen, 2016, “The Evolution and Fate of Super-Chandrasekhar Mass White Dwarf Merger Remnants” MNRAS, 363, 346
29. 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

30. 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
31. 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
32. 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
33. 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
34. 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
35. 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
36. 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
37. 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
38. 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
39. 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
40. 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
41. 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
42. **E. Quataert**, R. Fernández, D. Kasen, H. Klion, & B. Paxton, 2015, “Super-Eddington Stellar Winds Driven by Near-Surface Energy Deposition,” MNRAS, 458, 1214
43. 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

44. 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
45. 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
46. D. Lecoanet, M. McCourt, **E. Quataert**, et al., 2015, “A Validated Nonlinear Kelvin-Helmholtz Benchmark for Numerical Hydrodynamics,” *MNRAS*, 455, 4274
47. 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
48. B. D. Metzger, B. Margalit, D. Kasen, & **E. Quataert**, 2015, “The Diversity of Transients from Magnetar Birth in Core-Collapse Supernovae,” *MNRAS*, 454, 3311
49. 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
50. 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
51. 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
52. 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
53. 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
54. P. C. Duffell, **E. Quataert**, & A. I. MacFadyen, 2015, “A Narrow Short-Duration GRB Jet From a Wide Central Engine,” *ApJ*, 813, 64
55. M. Belyaev, **E. Quataert**, & J. Fuller, 2015, “The Properties of G-modes in Layered Semi-Convection,” *MNRAS*, 452, 2700
56. J. Schwab, **E. Quataert**, & L. Bildsten, 2015, “Thermal Runaway During the Evolution of ONeMg Cores Towards Accretion Induced Collapse,” *MNRAS*, 453, 1910
57. 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

58. M. Chandra, C. F. Gammie, F. Foucart, & **E. Quataert**, 2015, “An Extended Magneto-hydrodynamics Model for Relativistic Weakly Collisional Plasmas,” *ApJ*, 810, 162
59. 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
60. 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
61. K. Kashiyama & **E. Quataert**, 2015, “Fast Luminous Blue Transients from Newborn Black Holes,” *MNRAS*, 451, 2656
62. 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
63. D. Martizzi, C.-A. Faucher-Giguère, & **E. Quataert**, 2015, “Supernova Feedback in an Inhomogeneous Interstellar Medium,” *MNRAS*, 450, 504
64. 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
65. R. Fernandez, **E. Quataert**, J. Schwab, D. Kasen, & S. Rosswog, 2015, “The interplay of disk wind and dynamical ejecta in the aftermath of neutron star - black hole mergers,” *MNRAS*, 449, 390
66. 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
67. M. McCourt, R. O’Leary, A-M. Madigan, & **E. Quataert**, 2015, “Magnetized Gas Clouds can Survive Acceleration by a Hot Wind,” *MNRAS*, 449, 2
68. J. Nims, **E. Quataert**, & C.-A. Faucher-Giguère, 2015, “Observational Signatures of Galactic Winds Powered by Active Galactic Nuclei,” *MNRAS*, 447, 3612
69. **E. Quataert**, T. Heinemann, & A. Spitkovsky, 2015, “Linear Instabilities Driven by Differential Rotation in Very Weakly Magnetized Plasmas,” *MNRAS*, 447, 3328
70. F. van de Voort, **E. Quataert**, P. F. Hopkins, D. Kereš, & C.-A. Faucher-Giguère, 2015, “Galactic r-process Enrichment by Neutron Star Mergers in Cosmological Simulations of a Milky Way-mass Galaxy,” *MNRAS*, 447, 140
71. M. A. Riquelme, **E. Quataert**, & D. Verscharen, 2015, “PIC Simulations of Continuously Driven Mirror and Ion Cyclotron Instabilities in High Beta Astrophysical and Heliospheric Plasmas,” *ApJ* 800, 27
72. R. Fernandez, D. Kasen, B. D. Metzger, & **E. Quataert**, 2015, “Outflows from Accretion Disks Formed in Neutron Star Mergers: Effect of Black Hole Spin,” *MNRAS*, 446, 750

73. P. F. Hopkins, D. Keres, J. Onorbe, C. A. Faucher-Giguere, **E. Quataert**, N. Murray, & J. S. Bullock, 2014, “Galaxies on FIRE (Feedback in Realistic Environments): Stellar Feedback Explains Cosmologically Inefficient Star Formation,” *MNRAS*, 445, 581
74. J. Burkart, **E. Quataert**, & P. Arras, 2014, “Dynamical Resonance Locking in Tidally Interacting Binary Systems,” *MNRAS*, 443, 2957
75. T. Heinemann & **E. Quataert**, 2014, “Linear Vlasov Theory in the Shearing Sheet Approximation with Application to the Magneto-Rotational Instability,” *ApJ*, 792, 70
76. J. Lynn, **E. Quataert**, B. D. G. Chandran, & I. J. Parrish, 2014, “Acceleration of Relativistic Electrons by MHD Turbulence: Implications for Nonthermal Emission from Black Hole Accretion Disks,” *ApJ*, 791, 71
77. D. Zhang, T. A. Thompson, N. Murray, & **E. Quataert**, 2014, “Hot Galactic Winds Constrained by the X-ray Luminosities of Galaxies,” *ApJ*, 784, 93
78. J. McBride, **E. Quataert**, C. Heiles, & Amber Bauermeister, 2014, “The Role of Magnetic Fields in Starburst Galaxies as Revealed by OH Megamasers,” *ApJ*, 780, 182
79. J. Shiode & **E. Quataert**, 2014, “Setting the Stage for Circumstellar Interaction in Core-Collapse Supernovae II: Wave-Driven Mass Loss in Supernova Progenitors,” *ApJ*, 780, 96
80. J. Lynn, I. **E. Quataert**, B. D. G. Chandran, & I. J. Parrish, 2013, “The Efficiency of Second-Order Fermi Acceleration by Weakly Compressible MHD Turbulence,” 777, 128
81. Q. Xia, J. C. Perez, B. D. G. Chandran, & **E. Quataert**, 2013, “Perpendicular Ion Heating by Reduced Magnetohydrodynamic Turbulence,” *ApJ*, 776, 90
82. B. D. G. Chandran, D. Verscharen, **E. Quataert**, J. C. Kasper, P. A. Isenberg, & S. Bourouaine, 2013, “Stochastic Heating, Differential Flow, and the Alpha-To-Proton Temperature Ratio in the Solar Wind,” *ApJ*, 776, 45
83. C. Faucher-Giguère, **E. Quataert**, & P. F. Hopkins, 2013, “Feedback-Regulated Star Formation in Molecular Clouds and Galactic Discs,” *MNRAS*, 433, 1970
84. J. Burkart, **E. Quataert**, P. Arras, & N. N. Weinberg, 2013, “Linear Tides in Inspiring White Dwarf Binaries: Resonance Locks,” *MNRAS*, 433, 332
85. P. F. Hopkins, D. Narayanan, N. Murray, & **E. Quataert**, 2013, “Dense Molecular Gas: A Sensitive Probe of Stellar Feedback Models,” *MNRAS*, 433, 69
86. M. McCourt, **E. Quataert**, & I. J. Parrish, 2013, “What Sets Temperature Gradients in Galaxy Clusters? Implications for Non-thermal Pressure Support and Mass-Observable Scaling Relations,” *MNRAS*, 432, 404
87. S. D. Bale, M. Pulupa, C. Salem, C. H. K. Chen, & **E. Quataert**, 2013, “Electron Heat Conduction in the Solar Wind: Transition from Spitzer-Härm to the Collisionless Limit,” *ApJ*, 769, L22

88. J. Shiode, **E. Quataert**, M. Cantiello, L. Bildsten, 2013, “The Observational Signatures of Convectively Excited Internal Gravity Modes in Main Sequence Stars,” MNRAS, 430, 1736
89. D. Lecoanet & **E. Quataert**, 2013, “Internal Gravity Wave Excitation by Turbulent Convection,” MNRAS, 430, 2363
90. P. Sharma, M. McCourt, I. J. Parrish, & **E. Quataert**, 2012, “On the Structure of Hot Gas in Halos: Implications for the $L_X - T_X$ Relation & Missing Baryons” MNRAS, 427, 1219
91. P. F. Hopkins, D. Keres, N. Murray, **E. Quataert**, & L. Hernquist, 2012, “Stellar Feedback and Bulge Formation in Clumpy Discs,” MNRAS, 427, 968
92. J. Schwab, K. J. Shen, **E. Quataert**, M. Dan, & S. Rosswog, 2012, “The Viscous Evolution of White Dwarf Merger Remnants,” MNRAS, 427, 190
93. N. Roth, D. Kasen, P. F. Hopkins, & **E. Quataert**, 2012, “3-D Radiative Transfer Calculations of Radiation Feedback from Massive Black Holes: Outflows from the Dusty Torus” ApJ, 759, 36
94. J. Dexter & **E. Quataert**, 2012, “Inhomogeneous Accretion Discs and the Soft States of Black Hole X-ray Binaries,” MNRAS Letters, 426, L71
95. J. Lynn, I. J. Parrish, **E. Quataert**, & B. D. G. Chandran, 2012, “Resonance Broadening and Heating of Charged Particles in Magnetohydrodynamic Turbulence,” ApJ, 758, 78
96. C. Faucher-Giguère & **E. Quataert**, 2012, “The Physics of Galactic Winds Driven by Active Galactic Nuclei,” MNRAS, 425, 605
97. M. A. Riquelme, **E. Quataert**, P. Sharma, & A. Spitkovsky, 2012, “Local Axisymmetric Particle-in-Cell Simulations of the Collisionless MRI,” ApJ, 755, 50
98. J. Shiode, **E. Quataert**, & P. Arras, 2012, “The Stability of Massive Main Sequence Stars as a Function of Metallicity,” MNRAS, 423, 3397
99. D. Lecoanet, I. J. Parrish, & **E. Quataert**, 2012, “The Dynamics of Rayleigh-Taylor Stable and Unstable Contact Discontinuities with Anisotropic Conduction,” MNRAS, 423, 1866
100. **E. Quataert** & J. Shiode, 2012, “Wave-Driven Mass Loss in the Last Year of Stellar Evolution: Setting the Stage for the Most Luminous Core-Collapse Supernovae,” MNRAS Letters, 423, L92
101. N. N. Weinberg, P. Arras, **E. Quataert**, & J. Burkart, 2012, “Nonlinear Tides in Close Binary Systems,” ApJ, 751, 136
102. P. Arras, J. Burkart, **E. Quataert**, & N. N. Weinberg, 2012, “The Radial Velocity Signature of Tides Raised in Stars Hosting Exoplanets,” MNRAS, 422, 1761
103. I. J. Parrish, M. McCourt, **E. Quataert**, & P. Sharma, 2012, “The Effects of Anisotropic Viscosity on Turbulence and Heat Transport in the Intracluster Medium,” MNRAS, 422, 704

104. P. F. Hopkins, **E. Quataert**, & N. Murray, 2012, “Stellar Feedback in Galaxies and the Origin of Galaxy-scale Winds,” MNRAS, 421, 3522
105. P. F. Hopkins, **E. Quataert**, & N. Murray, 2012, “The Structure of the Interstellar Medium of Star Forming Galaxies,” MNRAS, 421, 983
106. J. Burkart, **E. Quataert**, P. Arras, & N. N. Weinberg, 2012, “Tidal Asteroseismology: Kepler’s KOI-54,” MNRAS, 421, 983
107. P. Sharma, M. McCourt, **E. Quataert**, & I. J. Parrish, 2012, “Thermal Instability and the Feedback Regulation of Hot Halos in Clusters, Groups, and Galaxies,” MNRAS, 420, 3174
108. S. B. Cenko **et al.**, 2012, “PTF10iya: A short-lived, luminous flare from the nuclear region of a star-forming galaxy,” MNRAS, 420, 2684
109. J. Debuhr, **E. Quataert**, & C. P. Ma, 2012, “Galaxy-Scale Outflows Driven by Active Galactic Nuclei” MNRAS, 420, 2221
110. K. J. Shen, L. Bildsten, D. Kasen, & **E. Quataert**, 2012, “The Long-Term Evolution of Double White Dwarf Mergers,” ApJ, 748, 35
111. C. Faucher-Giguère, **E. Quataert**, & N. Murray, 2012, “A Physical Model of FeLoBALs: Implications for Quasar Feedback Measurements,” MNRAS 420, 1347
112. M. McCourt, P. Sharma, **E. Quataert**, & I. J. Parrish, 2012, “Thermal Instability in Gravitationally-Stratified Plasmas: Implications for Multiphase Structure in Clusters and Galaxy Halos,” MNRAS, 419, 3319
113. S. Gillessen, R. Genzel, T. Fritz, **E. Quataert**, et al., 2012 “Watching a Gas Cloud Fall Into the Super-Massive Black Hole in the Galactic Centre,” Nature 481, 51
114. I. J. Parrish, M. McCourt, **E. Quataert**, & P. Sharma, 2012, “Turbulent Pressure Support in the Outer Parts of Galaxy Clusters,” MNRAS Letters, 419, L29
115. **E. Quataert** & D. Kasen, 2012, “Swift 1644+57: The Longest Gamma-ray Burst?” MNRAS Letters, 419, L1
116. N. Bucciantini, B. D. Metzger, T. A. Thompson, & **E. Quataert**, 2012, “Short GRBs with Extended Emission from Magnetar Birth: Jet Formation and Collimation,” MNRAS, 419, 1537
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