

Curriculum Vitae

Eliot Quataert

University of California at Berkeley
Department of Astronomy
601 Campbell Hall
Berkeley, CA 94720

E-mail : eliot@astron.berkeley.edu
Web: : <http://astron.berkeley.edu/~eliot>
Phone : (510) 642-3792
Fax : (510) 642-3411

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

RESEARCH INTERESTS

I am an astrophysical 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, with the latter often being carried out in collaboration with students or postdocs.

PUBLIC OUTREACH

I 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

- 2009-2010: National Academies of Science Astro2010 Science Frontier Panel
- 2008-present: Executive Committee, Topical Group on Plasma Astrophysics (APS)
- 2006-2009: National Resource Council's Plasma Science Committee
- 2005-2006: National Academies of Science Plasma2010 Panel
- Member of numerous observational time allocation committees; fellowship selection committees; conference organizing committees; and NSF, NASA, and DOE grant reviews

SELECTED FELLOWSHIPS and AWARDS

- 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)
1993 Leslie C. Patron Award for Research in Astrophysics (MIT)

PUBLICATIONS IN REFEREED JOURNALS

1. C. Faucher-Giguère & **E. Quataert**, “The Physics of Galactic Winds Driven by AGN” MNRAS submitted
2. 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” MNRAS submitted
3. J. Lynn, I. J. Parrish, **E. Quataert**, & B. D. G. Chandran, 2012, “Resonance Broadening and Heating of Charged Particles in Magnetohydrodynamic Turbulence,” ApJ submitted
4. J. Shiode, **E. Quataert**, & P. Arras, 2012, “The Stability of Massive Main Sequence Stars as a Function of Metallicity,” MNRAS submitted
5. M. A. Riquelme, **E. Quataert**, P. Sharma, & A. Spitkovsky, 2012, “Local Axisymmetric Particle-in-Cell Simulations of the Collisionless MRI,” MNRAS submitted
6. P. F. Hopkins, D. Keres, N. Murray, **E. Quataert**, & L. Hernquist, 2012, “Realistic Stellar Feedback and Bulge Formation in Clumpy Disks,” MNRAS submitted
7. N. N. Weinberg, P. Arras, **E. Quataert**, & J. Burkart, 2012, “Nonlinear Tides in Close Binary Systems,” ApJ, in press
8. D. Lecoanet, I. J. Parrish, & **E. Quataert**, 2012, “The Dynamics of Rayleigh-Taylor Stable and Unstable Contact Discontinuities with Anisotropic Conduction,” MNRAS in press
9. **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 in press
10. P. F. Hopkins, **E. Quataert**, & N. Murray, 2012, “Stellar Feedback in Galaxies and the Origin of Galaxy-scale Winds,” MNRAS in press
11. P. F. Hopkins, **E. Quataert**, & N. Murray, 2012, “The Structure of the Interstellar Medium of Star Forming Galaxies,” MNRAS in press
12. P. Arras, J. Burkart, **E. Quataert**, & N. N. Weinberg, 2012, “The Radial Velocity Signature of Tides Raised in Stars Hosting Exoplanets,” MNRAS in press
13. 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 in press
14. J. Burkart, **E. Quataert**, P. Arras, & N. N. Weinberg, 2012, “Tidal Asteroseismology: Kepler’s KOI-54,” MNRAS, 421, 983
15. 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

16. S. B. Cenko et al., 2012, “PTF10iya: A short-lived, luminous flare from the nuclear region of a star-forming galaxy,” *MNRAS*, 420, 2684
17. J. Debuhr, **E. Quataert**, & C. P. Ma, 2012, “Galaxy-Scale Outflows Driven by Active Galactic Nuclei” *MNRAS*, 420, 2221
18. K. J. Shen, L. Bildsten, D. Kasen, & **E. Quataert**, 2012, “The Long-Term Evolution of Double White Dwarf Mergers,” *ApJ*, 748, 35
19. C. Faucher-Giguère, **E. Quataert**, & N. Murray, 2012, “A Physical Model of FeLoBALs: Implications for Quasar Feedback Measurements,” *MNRAS* 420, 1347
20. 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
21. 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
22. I. J. Parrish, M. McCourt, **E. Quataert**, & P. Sharma, 2012, “Turbulent Pressure Support in the Outer Parts of Galaxy Clusters,” *MNRAS Letters*, 419, L29
23. **E. Quataert** & D. Kasen, 2012, “Swift 1644+57: The Longest Gamma-ray Burst?” *MNRAS Letters*, 419, L1
24. 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
25. B. D. G. Chandran, T. Dennis, **E. Quataert**, & S. Bale, 2011, “Incorporating Kinetic Physics into a Two-fluid Solar-wind Model with Temperature Anisotropy and Low-frequency Alfvén-wave Turbulence,” *ApJ*, 743, 197
26. P. F. Hopkins, **E. Quataert**, & N. Murray, 2011, “Self-Regulated Star Formation in Galaxies via Momentum Input from Massive Stars,” *MNRAS*, 417, 950
27. G. G. Howes, J. M. Tenbarge, W. Dorland, **E. Quataert**, A. A. Schekochihin, R. Numata, & T. Tatsuno, 2011, “Gyrokinetic Simulations of Solar Wind Turbulence from Ion to Electron Scales,” *PRL*, 107, 035004
28. J. Bloom et al., 2011, “A Relativistic Jetted Outburst From a Massive Black Hole Fed by a Tidally Disrupted Star,” *Science*, 333, 203
29. P. F. Hopkins & **E. Quataert**, 2011, “An Analytic Model of Angular Momentum Transport by Gravitational Torques: From Galaxies to Massive Black Holes,” *MNRAS*, 415, 1027
30. B. C. Lacki, T. A. Thompson, **E. Quataert**, A. Loeb, E. Waxman, 2011, “On the GeV and TeV Detections of the Starburst Galaxies M82 and NGC 253,” *ApJ*, 734, 107
31. L. E. Strubbe & **E. Quataert**, 2011, “Spectroscopic Signatures of the Tidal Disruption of Stars by Massive Black Holes,” *MNRAS*, 415, 168

32. B. D. Metzger, D. Giannios, T. A. Thompson, N. Bucciantini, & **E. Quataert**, 2011, “The Proto-Magnetar Model for Gamma-Ray Bursts,” *MNRAS*, 413, 2031
33. M. McCourt, I. J. Parrish, P. Sharma, & **E. Quataert**, 2010, “Can Conduction Induce Convection? The Nonlinear Saturation of Buoyancy Instabilities in Dilute Plasmas” *MNRAS*, 413, 1295
34. P. F. Hopkins & **E. Quataert**, 2010, “An Explanation for the Slopes of Stellar Cusps in Galaxy Spheroids” *MNRAS Letters*, 411, L61
35. J. Debuhr, **E. Quataert**, & C. P. Ma, 2010, “The Growth of Massive Black Holes in Galaxy Merger Simulations with Feedback by Radiation Pressure,” *MNRAS*, 2011, 412, 1341
36. S. Darbha, B. D. Metzger, **E. Quataert**, D. Kasen, P. Nugent, R. Thomas, 2010, “Nickel-Rich Outflows Produced by the Accretion-Induced Collapse of White Dwarfs: Lightcurves and Spectra,” *MNRAS* 409, 846
37. K. Dodds-Eden, P. Sharma, **E. Quataert**, et al., 2010, “Time Dependent Models of Flares from Sagittarius A*,” *ApJ*, 725, 450
38. P. Chang, L. E. Strubbe, K. Menou, & **E. Quataert**, 2010, “Fossil Gas and the Electromagnetic Precursor of Supermassive Binary Black Hole Mergers,” *MNRAS*, 407, 2007
39. P. F. Hopkins & **E. Quataert**, 2010, “How do Massive Black Holes Get Their Gas?” *MNRAS*, 407, 1529
40. P. Sharma, I. J. Parrish, & **E. Quataert**, 2010, “Thermal Instability with Anisotropic Thermal Conduction and Adiabatic Cosmic Rays: Implications for Cold Filaments in Galaxy Clusters,” *ApJ* 720, 652
41. B. D. G. Chandran, B. Li, B. N. Rogers, **E. Quataert**, & K. Germaschewski, 2010, “Perpendicular Ion Heating by Low-Frequency Alfvén-Wave Turbulence in the Solar Wind,” *ApJ*, 720, 652
42. B. D. Metzger, G. Martinez-Pinedo, S. Darbha, **E. Quataert**, A. Arcones, D. Kasen, R. Thomas, P. Nugent, I. V. Panov, & N. T. Zinner, 2010, “Electromagnetic Counterparts of Compact Object Mergers Powered by the Radioactive Decay of R-process Nuclei,” *MNRAS*, 406, 2650
43. J. Debuhr, **E. Quataert**, C. P. Ma, & P. F. Hopkins, 2010, “Self-Regulated Black Hole Growth via Momentum Deposition in Galaxy Merger Simulations,” *MNRAS Letters*, 405, L41
44. H. B. Perets, A. Gal-Yam, et al., 2010, “A Faint Type of Supernova from a White Dwarf with a Helium-rich Companion,” *Nature*, 465, 7296, 322
45. B. C. Lacki, T. A. Thompson, & **E. Quataert**, 2010, “The Physics of the FIR-Radio Correlation: I. Calorimetry, Conspiracy, and Implications,” *ApJ*, 717, 1
46. P. F. Hopkins & **E. Quataert**, 2010, “The Nuclear Stellar Disk in Andromeda: A Fossil from the Era of Black Hole Growth,” *MNRAS Letters*, 405, L41

47. I. J. Parrish, **E. Quataert**, & P. Sharma, 2010, “Turbulence in Galaxy Cluster Cores: a Key to Cluster Bimodality?” *ApJ Letters*, 712, L194
48. P. Chang & **E. Quataert**, 2010, “Buoyancy Instabilities in Degenerate, Collisional Magnetized Plasmas,” *MNRAS*, 403, 246
49. B. D. Metzger, A. Arcones, **E. Quataert**, & G. Martinez-Pinedo, 2010, “The Effects of R-process Heating on Fall-back Accretion in Compact Object Mergers,” *MNRAS*, 402, 2771
50. P. F. Hopkins, N. Murray, **E. Quataert**, & T. A. Thompson, 2010, “A Maximum Stellar Surface Density in Dense Stellar Systems,” *MNRAS: Letters*, 401, L19
51. P. F. Hopkins, D. Keres, C.P. Ma, & **E. Quataert**, 2010, “When Should We Treat Galaxies as Isolated?” *MNRAS*, 401, 1131
52. G. G. Howes & **E. Quataert**, 2010, “On the Interpretation of Magnetic Helicity Signatures in the Dissipation Range of Solar Wind Turbulence,” *ApJ Letters*, 709, L49
53. N. Murray, **E. Quataert**, & T. A. Thompson, 2010, “The Disruption of Giant Molecular Clouds by Radiation Pressure and the Efficiency of Star Formation in Galaxies,” *ApJ*, 709, 191
54. L. E. Strubbe & **E. Quataert**, 2009, “Optical Flares from the Tidal Disruption of Stars by Massive Black Holes,” *MNRAS*, 400, 2070
55. B. D. G. Chandran, **E. Quataert**, G. G. Howes, Q. Xia, & P. Pongkitivanichakul, 2009, “Constraining Low-Frequency Alfvénic Turbulence in the Solar Wind using Density Fluctuation Measurements,” *ApJ*, 707, 1668
56. R. Lehe, I. J. Parrish, & **E. Quataert**, 2009, “The Heating of Test Particles in Numerical Simulations of Alfvénic Turbulence,” *ApJ*, 707, 404
57. S. D. Bale, J. C. Kasper, G. G. Howes, **E. Quataert**, C. Salem, & D. Sundkvist, 2009, “Magnetic Fluctuation Power near Proton Temperature Anisotropy Thresholds in the Solar Wind,” *PRL*, 103, 1101
58. I. J. Parrish, **E. Quataert**, & P. Sharma, 2009, “Anisotropic Thermal Conduction and the Cooling Flow Problem in Galaxy Clusters,” *ApJ*, 703, 96
59. K. L. Shapiro, R. Genzel, **E. Quataert**, et al., 2009, “The SINS Survey: Broad H α Emission in High-Redshift Star-Forming Galaxies,” *ApJ*, 701, 955
60. P. F. Hopkins, K. Bundy, N. Murray, **E. Quataert**, T. Lauer, & C.P. Ma, 2009, “Compact High-Redshift Galaxies are the Cores of the Most Massive Present-Day Spheroids,” *MNRAS*, 398, 898
61. P. F. Hopkins, R. Hickox, **E. Quataert**, & L. Hernquist, 2009, “Are Most Low-Luminosity AGN Really Obscured?,” *MNRAS*, 398, 333
62. B. D. G. Chandran, **E. Quataert**, G. G. Howes, J. V. Hollweg, & W. Dorland, 2009, “The Turbulent Heating Rate in Strong MHD Turbulence with Nonzero Cross Helicity,” *ApJ*, 701, 652

63. T. A. Thompson, **E. Quataert**, & N. Murray, 2009, “Radio Emission from Supernova Remnants: Implications for Post-Shock Magnetic Field Amplification and the Magnetic Fields of Galaxies,” *MNRAS*, 397, 1410
64. N. Bucciantini, **E. Quataert**, B. D. Metzger, T. A. Thompson, & J. Arons, 2009, “Magnetized Relativistic Jets and Long-Duration GRBs from Magnetar Spindown during Core-Collapse Supernovae,” *MNRAS*, 396, 2038
65. B. D. Metzger, A. L. Piro, & **E. Quataert**, 2009, “Nickel-Rich Outflows from Accretion Disks Formed by the Accretion-Induced Collapse of White Dwarfs,” *MNRAS*, 396, 1659
66. J. F. Drake, P. A. Cassak, M. A. Shay, M. Swisdak, & **E. Quataert**, “A Magnetic Reconnection Mechanism for Ion Acceleration and Abundance Enhancements in Impulsive Flares,” 2009, *ApJL*, 700, L16
67. P. Sharma, B. D. G. Chandran, **E. Quataert**, & I. J. Parrish, 2009, “Buoyancy Instabilities in Galaxy Clusters: Convection due to Adiabatic Cosmic Rays and Anisotropic Thermal Conduction,” *ApJ*, 699, 348
68. B. D. Metzger, A. L. Piro, & **E. Quataert**, 2009, “Neutron-rich Freeze-out in Viscously Spreading Accretion Disks Formed From Compact Object Mergers,” *MNRAS*, 396, 304
69. K. Dodds-Eden, D. Porquet, G. Trap, **E. Quataert**, et al., 2009, “Evidence for X-ray Synchrotron Emission From Simultaneous Mid-IR to X-ray Observations of a Strong Sgr A* Flare,” *ApJ*, 698, 676
70. J. F. Drake et al., 2009, “Ion Heating Resulting from Pickup in Magnetic Reconnection Exhausts,” *JGR*, 114, A05111
71. A. A. Schekochihin, S. C. Cowley, W. Dorland, G. W. Hammett, G. G. Howes, **E. Quataert**, & T. Tatsuno, 2009, “Astrophysical Gyrokinetics: Kinetic and Fluid Turbulent Cascades in Magnetized Weakly Collisional Plasmas,” *ApJS*, 182, 310
72. D. A. Perley, B. D. Metzger, et al., 2009, “GRB 080503: Implications of A Naked Short Gamma-Ray Burst Dominated by Extended Emission,” *ApJ* 696, 1871
73. B. D. Metzger, A. L. Piro, & **E. Quataert**, 2009, “Time Dependent Models of Accretion Disks Formed During Compact Object Mergers,” *MNRAS*, 390, 781
74. P. Sharma, **E. Quataert**, & J. M. Stone, 2008, “Spherical Accretion with Anisotropic Thermal Conduction,” *MNRAS*, 389, 1815
75. N. N. Weinberg & **E. Quataert**, 2008, “Nonlinear Saturation of g-modes in Proto-Neutron Stars: Quieting the Acoustic Engine,” *MNRAS*, 387, L64
76. T. Robshaw, **E. Quataert**, & C. Heiles, 2008, “Extragalactic Zeeman Detections in OH Megamasers,” *ApJ*, 680, 981
77. G. G. Howes, S. C. Cowley, W. Dorland, G. W. Hammett, **E. Quataert**, & A. A. Schekochihin, 2008, “A Model of Turbulence in Magnetized Plasmas: Implications for the Dissipation Range in the Solar Wind,” *JGR*, 113, A05103

78. B. D. Metzger, **E. Quataert**, & T. A. Thompson, 2008, “Short Duration Gamma-ray Bursts with Extended Emission from Proto-Magnetar Spin-Down,” *MNRAS*, 385, 1455
79. I. J. Parrish & **E. Quataert**, 2008, “Nonlinear Simulations of the Heat Flux Driven Buoyancy Instability and its Implications for Galaxy Clusters,” *ApJ Letters*, 677, L9
80. B. D. Metzger, T. A. Thompson, & **E. Quataert**, 2008, “On the Conditions for Neutron-rich Gamma-ray Burst Outflows,” *ApJ*, 676, 1130
81. G. G. Howes, W. Dorland, S. C. Cowley, G. W. Hammett, **E. Quataert**, A. A. Schekochihin, & T. Tatsuno, 2008, “Kinetic Simulations of Magnetized Turbulence in Astrophysical Plasmas,” *PRL*, 100, 6, 065004
82. **E. Quataert**, 2008, “Buoyancy Instabilities in Weakly Magnetized Low Collisionality Plasmas,” *ApJ*, 673, 758
83. M. Boylan-Kolchin, C.P. Ma, & **E. Quataert**, 2008, “Dynamical Friction and Galaxy Merging Timescales,” *MNRAS*, 383, 93
84. N. Bucciantini, **E. Quataert**, J. Arons, B. D. Metzger, & T. A. Thompson, 2008, “Relativistic Jets and Long-Duration Gamma-ray Bursts from the Birth of Magnetars,” *MNRAS*, 383, L25
85. P. Sharma, **E. Quataert**, & J. M. Stone, 2007, “Faraday Rotation in Global Accretion Disk Simulations: Implication for Sgr A*,” *ApJ*, 671, 1696
86. N. Bucciantini, **E. Quataert**, J. Arons, B. D. Metzger, & T. A. Thompson, 2007, “Magnetar Driven Bubbles and the Origin of Collimated Outflows in Gamma-ray Bursts,” *MNRAS*, 380, 1541
87. P. Chang, R. Murray-Clay, E. Chiang, & **E. Quataert**, 2007, “The Origin of the Young Stars in the Nucleus of M31,” *ApJ*, 668, 236
88. P. Sharma, **E. Quataert**, G. W. Hammett, & J. M. Stone, 2007, “Electron Heating in Hot Accretion Flows,” *ApJ*, 667, 714
89. N. J. Turner, **E. Quataert**, & H. W. Yorke, 2007, “Photon Bubbles in the Circumstellar Envelopes of Young Massive Stars,” *ApJ*, 662, 1052
90. P. Chang, **E. Quataert**, & N. Murray, 2007, “From Thin to Thick: the Impact of X-ray Irradiation on Accretion Disks in Active Galactic Nuclei,” *ApJ*, 662, 94
91. L. Desroches, **E. Quataert**, C.P. Ma, & A. West, 2007, “Luminosity Dependence in the Fundamental Plane Projections of Elliptical Galaxies,” *MNRAS*, 377, 402
92. B. Johnson & **E. Quataert**, 2007, “The Effects of Thermal Conduction on Radiatively-Inefficient Accretion Flows,” *ApJ*, 660, 1273
93. N. Murray, C. L. Martin, **E. Quataert**, & T. A. Thompson, 2007, “The Ionization State of Sodium in Galactic Winds,” *ApJ*, 660, 211
94. B. D. Metzger, T. A. Thompson, & **E. Quataert**, 2007, “Proto-Neutron Star Winds with Magnetic Fields and Rotation,” *ApJ*, 659, 561

95. T. A. Thompson, **E. Quataert**, & E. Waxman, 2007, “The Starburst Contribution to the Extragalactic γ -ray Background,” *ApJ*, 654, 219
96. G. G. Howes, S. C. Cowley, W. Dorland, G. W. Hammett, **E. Quataert**, & A. A. Schekochihin, 2006, “Astrophysical Gyrokinetics: Basic Equations and Linear Theory,” *ApJ*, 651, 590
97. M. Boylan-Kolchin, C.P. Ma, & **E. Quataert**, 2006, “Red Mergers and the Assembly of Massive Elliptical Galaxies: the Fundamental Plane and its Projections,” *MNRAS*, 369, 1081
98. T. Thompson, **E. Quataert**, E. Waxman, N. Murray, & C. L. Martin, 2006, “Magnetic Fields in Starburst Galaxies and the Origin of the FIR-Radio Correlation,” *ApJ*, 645, 186
99. N. Bucciantini, T. A. Thompson, J. Arons, **E. Quataert**, & L. DelZanna, 2006, “Relativistic MHD Winds from Rotating Neutron Stars,” *MNRAS*, 368, 1717
100. S. Gillessen, F. Eisenhauer, **E. Quataert**, et al., 2006, “Variations in the Spectral Slope of Sgr A* during a NIR Flare,” *ApJ*, 640, L163
101. Y. Xu, R. Narayan, **E. Quataert**, & F. Yuan, 2006, “Thermal X-ray Line Emission from the Galactic Center Black Hole Sagittarius A*,” *ApJ*, 640, 319
102. P. Sharma, G. W. Hammett, **E. Quataert**, & J. M. Stone, 2006, “Shearing Box Simulations of the MRI in a Collisionless Plasma,” *ApJ*, 637, 952
103. **E. Quataert** & A. Loeb, 2005, “Nonthermal THz to TeV Emission from Stellar Wind Shocks in the Galactic Center,” *ApJ*, 635, L45
104. M. Boylan-Kolchin, C.P. Ma, & **E. Quataert**, 2005, “Dissipationless Mergers of Elliptical Galaxies and the Evolution of the Fundamental Plane,” *MNRAS*, 362, 184
105. T. A. Thompson, **E. Quataert**, & N. Murray, 2005, “Radiation Pressure Supported Starburst Disks and AGN Fueling,” *ApJ*, 630, 167
106. J. Goldston, **E. Quataert**, & I. Igumenshchev, 2005, “Synchrotron Radiation from Radiatively Inefficient Accretion Flow Simulations: Applications to Sgr A*,” *ApJ*, 621, 785
107. T. Thompson, **E. Quataert**, & A. Burrows, 2005, “Viscosity and Rotation in Core-Collapse Supernovae,” *ApJ*, 620, 861
108. M. Volonteri, P. Madau, **E. Quataert**, & M. Rees, 2005, “The Distribution and Cosmic Evolution of Massive Black Hole Spins,” *ApJ* 620, 69
109. R. Narayan & **E. Quataert**, 2005, “Black Hole Accretion,” *Science*, 307, 77
110. N. Murray, **E. Quataert**, & T. A. Thompson, 2005, “On the Maximum Luminosity of Galaxies & Their Central Black Holes: Feedback From Momentum-Driven Winds,” *ApJ*, 618, 569
111. M. Boylan-Kolchin, C.P. Ma, & **E. Quataert**, 2004, “Core Formation in Galactic Nuclei Due to Recoiling Black Holes,” *ApJ Letters*, 613, L37

112. **E. Quataert**, 2004, “A Dynamical Model for Hot Gas in the Galactic Center,” *ApJ*, 613, 322
113. Z. Haiman, **E. Quataert**, & G. Bower, 2004, “Modeling the Counts of Faint Radio Loud Quasars: Constraints on the Supermassive Black Hole Population and Predictions for High Redshift,” *ApJ*, 612, 698
114. T. A. Thompson, P. Chang, & **E. Quataert**, 2004, “Magnetar Spindown, Hyper-Energetic Supernovae, and Gamma Ray Bursts,” *ApJ*, 611, 380
115. P. Madau & **E. Quataert**, 2004, “The Effect of Gravitational-Wave Recoil on the Demography of Massive Black Holes,” 606, L17
116. F. Yuan, **E. Quataert**, & R. Narayan, 2004, “On the Nature of the Variable Infrared Emission from Sgr A*,” *ApJ*, 606, 894
117. A. Ptak, Y. Terashima, L. C. Ho, & **E. Quataert**, 2004, “Testing Radiatively-Inefficient Accretion Flow Theory: an XMM-Newton Observation of NGC 3998,” *ApJ*, 606, 173
118. F. Yuan, **E. Quataert**, & R. Narayan, 2003, “Nonthermal Electrons in Radiatively Inefficient Accretion Flow Models of Sgr A*,” *ApJ*, 598, 301
119. P. Sharma, G. W. Hammett, & **E. Quataert**, 2003, “Transition from Collisionless to Collisional MRI,” *ApJ*, 596, 1121
120. **E. Quataert**, W. Dorland, & G. W. Hammett, 2002, “The Magnetorotational Instability in a Collisionless Plasma,” *ApJ*, 577, 524
121. R. Narayan, **E. Quataert**, I. Igumenshchev, & M. Abramowicz, 2002, “The Magnetohydrodynamics of Convection-Dominated Accretion Flows,” *ApJ*, 577, 295
122. **E. Quataert**, 2002, “A Thermal Bremsstrahlung Model For the Quiescent X-ray Emission from Sagittarius A*,” *ApJ*, 575, 855
123. M. Abramowicz, I. Igumenshchev, **E. Quataert**, & R. Narayan, 2002, “On the Radial Structure of Radiatively Inefficient Accretion Flows with Convection,” *ApJ* 565, 1101
124. K. Menou & **E. Quataert**, 2001, “Activity From Tidal Disruptions in Galactic Nuclei,” *ApJ*, 562, L137
125. A. Aguirre, J. Schaye, & **E. Quataert**, 2001, “Problems for MOND in Clusters and the Lyman- α Forest,” *ApJ*, 561, 550
126. M. Loewenstein, R. F. Mushotzky, L. Angelini, K. A. Arnoud, & **E. Quataert**, 2001, “Chandra Limits on X-ray Emission Associated with the Supermassive Black Holes in Three Giant Elliptical Galaxies,” *ApJ*, 555, L21
127. G. Ball, R. Narayan, & **E. Quataert**, 2001, “Spectral Models of Convection Dominated Accretion Flows,” *ApJ*, 552, 221
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