

Eric G. Blackman: *CURRICULUM VITAE*

Professional Appointments

2014-2015	IBM-Einstein Fellow / Simons Fellow / Member, School of Natural Sciences, Institute for Advanced Study, Princeton NJ
2004-Present	Professor of Physics and Astronomy and Senior Scientist, Laboratory for Laser Energetics, University of Rochester, Rochester, NY, USA
2003-2004	Associate Professor of Physics and Astronomy (with tenure), University of Rochester, Rochester, NY, USA:
2006-2011	Consultant, Institute for Defense Analyses, Alexandria VA
2000-2003	Assistant Professor of Physics and Astronomy, University of Rochester, Rochester, NY, USA:
1998-1999	Postdoctoral Scholar in Physics (Theoretical Astrophysics), Division of Physics, Mathematics, and Astronomy California Institute of Technology, Pasadena, CA, USA
1995-1998	PPARC Theory Research Fellow, Institute of Astronomy Cambridge University Cambridge, UK
1995	Summer Research Fellow Harvard-Smithsonian Center for Astrophysics, Cambridge, MA

Education

Harvard University	Ph.D., June 1995 (theoretical astrophysics; advisor: George B. Field), A.M., 1993
Cambridge University	Master of Advanced Study, (Math. Tripos, Part III), June 1991 (Trinity College) Examination subjects: Quantum Field Theory I & II, String Theory, Group Theory, General Relativity, Cosmology
Massachusetts Institute of Technology	S.B. Physics, June 1990, S.B. Mathematics, June 1990

Selected Extended Visits

Aug/Oct 2019	Institute for Theoretical Physics, Santa Barbara, CA, Program on Multiscale Processes in Plasma Astrophysics
June 2019	Aspen Center for Physics, Aspen CO, Turbulent Life of Cosmic Baryons, summer program
March 2017	Institute for Theoretical Physics, Santa Barbara, CA, Confronting MHD Theories of Accretion Disks with Observations

Sep 2014- July 2015	Simons Fellow / Member, School of Natural Sciences, Institute for Advanced Study, Princeton, NJ
Nov-Dec 2007	Kavli Institute for Theoretical Physics Santa Barbara, CA, Program on Star Formation
June-July 2006	Aspen Center for Physics, Aspen, CO, Workshop on Magnetic Self-Organization
May-June 2005	Institute for Theoretical Physics, Santa Barbara, CA, Program on Accretion and Outflows
Nov 2004	Isaac Newton Institute, Cambridge Univ., Cambridge, UK, Program on Magnetohydrodynamics of Stellar Interiors
Mar 2004	Institute for Theoretical Physics, Santa Barbara, CA, Program on Planet Formation: Terrestrial and Extra Solar
June 2003	Aspen Center for Physics, Aspen, CO, Workshop on Magnetic Reconnection
Dec 2002	Sabbatical faculty visitor, Princeton Plasma Physics Laboratory, Princeton University, Princeton, NJ
Sept-Nov 2002	Sabbatical faculty visitor, Department of Astrophysical Sciences, Peyton Hall, Princeton University, Princeton, NJ
June-July 2002	Aspen Center for Physics, Aspen, CO, Workshop on Astrophysical Disks
Feb 2002	Institute for Theoretical Physics, Santa Barbara, CA, Solar Magnetohydrodynamics and Related Astrophysics Program
Oct 2001	Magnetohydrodynamic Turbulence Workshop Co-Organizer Virgin Gorda BVI
July 2000	Organizer/Participant, Aspen Center for Physics, Aspen, CO, Workshop on Magnetic Dynamos
April 2000	Member, Institute for Theoretical Physics, Santa Barbara, CA, Astrophysical Turbulence Program
Sep. 1998- Dec 1999	Member, Institute for Theoretical Physics, Santa Barbara, CA, Black Hole Astrophysics Program

Pre-PhD Research Activities:

Feb 1992-May1992	Harvard: computed neutrino decay rate in left-right symmetric particle physics model for decaying neutrino dark matter scheme. (S. Glashow supervisor)
Sept 1991-Dec 1991	Harvard: generalized Gott closed-timelike curve solutions around cosmic strings to include finite acceleration orbits (T. Piran, supervisor)
May 1990-July 1990	MIT: extracted redshift vs. flux relations from galaxy data samples (I. Segal, supervisor)

May 1989-July 1989 Harvard-CfA: mirror testing of Chandra X-ray telescope mirror design (P. Slane, supervisor)

Sept 1988-March 1990 MIT: inferred terrestrial limits on strange quark matter from heavy ion searches (R. Jaffe, supervisor)

June-Aug 1987 & 1988 General Electric Corporate Research Center, Schenectady, NY: modeled heat conduction in super-cooled magnetic resonance imaging coils

Fall 1986 MIT: helped construct a helium recovery system (T. Greytak, supervisor)

Selected Professional Activities

2017+ Springer Plasma Astrophysics Book Reviewer

2017+ Prize Committee, APS Laboratory Astrophysics Division

2017+ Astrophysics Section Director, (Institute for Matter at Extremes U. Rochester)

2014 APS Committee for Selection of Excellence in Plasma Physics Prize

2014 APS Committee for Selection of (Inaugural) Laboratory Astrophysics Prize

2014 Program Chair, Space Plasma Subcommittee, APS/DPP Annual Meeting

2014 Reviewer for DOD Army Rapid Innovation Fund (RIF) Traumatic Brain Injury Program

2013 NSF Frontier Center site visiting committee (recused)

2010-2013 Executive Committee, APS Topical Group in Plasma Astrophysics

2009 Department of Energy Office of Fusion Energy Sciences (OFES), Committee of Visitors (COV) to Review DOE Funding in Basic Plasma Sciences

2009- Scientific Editorial Advisory Board, New Astronomy

2009-2012 NRC Research Fellowship Review Panel, Physical Sciences

2008 ETH (Switzerland), Faculty Hiring Board for NORDITA

2006-07 Defense Science Study Group (DSSG, Institute for Defense Analysis)

2005-2006 Program Committee, APS Division of Plasma Physics

2005 Organizer, "Astrophysical Explosions" APS Mini-conference, Division of Plasma Physics meeting, Denver, Oct 24-25 2005

2005 Executive Committee, APS Topical Group in Plasma Astrophysics

2004 Organizer, Topical Session on "Astrophysical Coronae" AAS Meeting, Denver, CO

2003- Reviewer for NASA Postdoctoral Fellowships

2003 Harley School (Private School, Rochester, NY) Board of Trustees

2002- DOE Fusion Science, Plasma Physics Grant Reviewer

2002 NSF Frontier Centers Reviewer

2001- NSF/DOE Plasma Physics Theory Grant Reviewer

2001- NSF Astrophysics, Grant Reviewer

2000 Organizer, Aspen Center for Physics, Aspen, CO, Workshop on Magnetic Dynamos

Some Grants

Colliding Radiative Magnetized Flows: Laboratory Experiments for Basic Plasma Physics and Astrophysics (Co-PI), DOE, \$1,500,000; 08/15/2018 - 08/14/2021

Interacting Binaries: Mass Transfer and Common Envelope Evolution (Co-PI), NSF, \$443,981, 07/01/2018 - 06/30/2021

MRI: Development of a Pulsed-power Driver for the Experimental Investigation of Extreme States of Matter, NSF, (co-PI) \$1,494,680, 10/01/2017 -09/30/2020

From Interstellar Cloud to Star to Laboratory: Frontier HEDP Studies of Magnetized Colliding Plasma Flows with Strong Radiative Cooling (Co-PI), DOE, \$865,000, 08/15/2015 - 08/14/2018

Particle Acceleration Due to Magnetically Driven Reconnection Using Laser-powered Capacitor Coils, Princeton University Subcontract, \$30,000, 10/01/2017 - 09/30/2019

HST Cycle 24: Accretion to Outflow in Evolved Star Binaries; Disks in AGB, PPN and PN (Co-PI) \$75,165, 11/01/2016 - 10/31/2019

From Core to Outflow: The Dynamics of Binary Interactions and the Generation of Collimated Flows in Evolved Stars (Co-PI), \$414,322, 08/01/2015 - 07/31/2018

From Interstellar Cloud to Star to Laboratory: Frontier HEDP Studies of Magnetized Colliding Plasma Flows with Strong Radiative Cooling (Co-PI), \$865,000, 08/15/2015 - 08/14/2018

“Toward a 21st Century Mean Field Accretion Disk and Dynamo Theory”, \$110,788, Simons Foundation Fellowship, 7/14-7/15

“The Reel Deal in 3D: The Spatio-Temporal Evolution of YSO Jets”, (Co-PI), Cycle 22 HST, \$73,569, 01/01/2015 - 12/31/2017

“Triggered Star Formation From Shock to Disk (PI) Triggered Star formation: From Shock to Disk” Nebulae’ (P.I.: E.G. Blackman Co-A .Frank) Cycle 22 HST, \$81,843, 11/01/2014 - 10/31/2017

“Study of turbulence, reconnection, and associated particle acceleration: Toward Realization of MHD turbulence and dynamos in HED plasmas” \$40,000 (UR amount) (P.I.: Hantao Ji); Co-Pi: E.G. Blackman (and others), 02./2015 - 02/2018

“Study of Particle Acceleration and Fine-Scale Structures of Collisionless Magnetic Reconnection Driven by High Energy Petawatt Lasers,” \$40,000 (UR amount) (P.I.: Hantao Ji); Co-Pi: E.G. Blackman (and others), 07/01/2013 - 01/30/2016

“New Interdisciplinary Approach to Improve Diagnosis of Traumatic Brain Injury: Combining Physics with Medical Imaging ”, Univ. of Rochester Provost Award (co-Is: E.G. Blackman, J. Bazarian, J. Zhong, X. Qiu) (2011-2012) \$37,000.

‘From Core to Outflow: Binaries, MHD and the Origin of Planetary/ Pre-Planetary Nebulae’ \$477,518.00 (P.I.: A.Frank; Co-I: E.G. Blackman) NSF, awarded 2012-2015.

‘Energy Transfer in Collisionless Astrophysical Plasmas’ \$465,607 (P.I.: C. Ren ; Co-I: E.G. Blackman) NSF/DOE, awarded 2009-2013

‘From Core to Outflow: Binaries, MHD and the Origin of Planetary/ Pre-Planetary Nebulae’ \$393,684 (P.I.: A.Frank; Co-I: E.G. Blackman) NSF, awarded 2009-2012.

‘From Core to Outflow: Understanding the Driving and shaping of Asymmetric Planetary Nebulae’ \$377,390 (P.I.: A.Frank; Co-I: E.G. Blackman) NSF, awarded 2005-2008.

“Understanding Poynting Flux Dominated Outflows in Nature’s Most Powerful Engines” \$371,568 (P.I.: E.G. Blackman, Co: G. Paesold, V. Pariev, M. Lyutikov) NASA, awarded 2005-2010.

“Holding footprints to the fire, planetary disk theory confronts observations” \$465,000, (P.I.: A. Quillen, Co-PIs: E.G. Blackman, A. Frank, D.M. Watson) National Science Foundation, Division of Astronomical Sciences, awarded 2004-2007.

“Non-Axisymmetric Accretion Engines and Quasi-Periodic Oscillations in Microquasars” \$289,354, (P.I.: E.G. Blackman; Co-I/collaborator: P. Varniere) National Science Foundation, Division of Astronomical Sciences, awarded 2004-2009.

“Astrophysics of Heterogenous Stellar Outflows” \$80,000, (P.I.: A. Frank; Co-PI: E.G. Blackman, P. Hartigan, J. Kastner, J.A. Morse), Space Telescope Science Institute, awarded 2004-2005.

“New Approaches to the Origin and Dynamics of Magnetic Fields of Cosmic Relevance,” P.I.: E.G. Blackman, (Junior Faculty Development Award), \$450,000, US Department of Energy, Plasma Physics Program, awarded 2000-2004.

Awards and Such

Simons Fellowship in Theoretical Physics (2014-2015)

IBM-Einstein Fellowship , Institute for Advanced Study, (2014-2015)

Provost Multidisciplinary Award (U. Rochester; Interdisciplinary Approach Toward Protection Against Traumatic Brain Injury from Impacts and Blasts) 2011-2012

Physics and Astronomy Department (U. Rochester) Award for Excellence in Undergraduate Teaching 2008

Defense Science Study Group, Institute for Defense Analysis (Alexandria, VA) 2006-2007

Fellow of the American Physical Society (2005-)

Faculty Mentoring Honoree in “Take 5” Program, University of Rochester, for Undergraduate Supervision 2004

Faculty Development Award in Plasma Physics, Department of Energy, 2000-2004

Jewett Fund Prize, Harvard (top academic performance), 1994

Trinity College Bursary grant, Cambridge Univ., 1990-1991

American Nuclear Society Full Tuition Fellowship, MIT, 1989-1990 (declined).

Harvard Book Award, Bausch and Lomb Science Prize, Sisson Mathematics Award, Language Award, Harley School, (Rochester NY) 1985-86.

Brighton-Pittsford Post 1st team regional all-star and Finger Lakes Regional first team all-star in soccer (Rochester NY), 1985-86.

Ralph S. McKee Trophy (Top Male Athlete) and Wooden Award (Sportsmanship), Harley School (Rochester NY), 1985-86.

Harley School Scholar Award (4 year merit-based full tuition scholarship to the Harley School, Rochester NY), 1982-1986.

Memberships:

American Astronomical Society
American Physical Society
American Geophysical Union
Royal Astronomical Society
Sigma Xi

Refereeing:

Astronomy and Astrophysics, Astro-Particle Physics, Astrophysical Journal, American Journal of Physics, Monthly Notices of the Royal Astronomical Society, Nature, Nature Physics, Physical Review, Physical Review Letters, Physics of Fluids, Physics of Plasmas, Geophysical and Astrophysical Fluid Dynamics, Astrophysics and Space Science, Cambridge University Press, Annals of Biomedical Engineering, Journal of Plasma Physics, Physics Teacher, Physics of Fluids....

Course Teaching

Solar System (general undergraduate course for non-majors)
Elementary Astrophysics (undergraduate course for majors)
Milky Way Galaxy (undergraduate course for majors)
Thermal and Statistical Physics (undergraduate course for majors)
Gravitation and General Relativity (undergraduate course for majors)
Astrophysics II: astrophysical fluid dynamics (undergraduate course for majors)
Physics of Astrophysics: Fluids and Plasmas (graduate course)
Physics of Astrophysics: Radiative Processes (graduate course)
High Energy Astrophysics (graduate course)
Stellar Structure (graduate course)
Galactic Dynamics (graduate course)
Cosmology (graduate course)

Research Supervision/Collaborative Mentoring

Postdocs: Jared Workman (2010-) Martin Huarte-Espinosa (2009-, Phd Cambridge) -Joachim Moortgat (PhD. Raboud Univ, Nimjen) 2006-2008 Richard Edgar (PhD. Cambridge) 2006- Peggy Varnière (PhD. Saclay) 2004- Gunnar Paesold (PhD. ETH Zurich) 2003-2005; Jason Maron (PhD. Caltech) 2002-2004 Vladimir Pariev (PhD. Arizona) 2001-2004; Luke Chamandy (Phd. IUCCA, Pune) 2016-present

U. Rochester Graduate Student Collaborators: Alexei Poludnenko (Phd. 2004-w/Adam Frank); Rob Selkowitz (PhD 2007); Alex Hubbard (Phd 2008); Jason Nordhaus (Phd 2008); Jonathan Carroll-Nellenback (Phd 2012, w/Adam Frank); Jaehong Park (Phd 2013 w/ Chuang Ren), Kiwan Park (Phd 2013); Shule Li (PhD 2014, w/A. Frank), Zhou Chen (w/Adam Frank); Farrukh Nauman (Phd 2015); Zhou Chen (Phd 2018, w/A Frank); A, Zou (w/A Frank); Atma Anand (w/ J. Tarduno); Hongzhe Zhou

Undergraduate Research Advisees/Collaborators: Yisheng Tu; Bo Peng (grad school UToronto); Fiona Nichols-Fleming (grad school Brown), Wen-Fei Fong (Assistant Professor Northwestern); Sean Hartnoll (Associate Professor, Stanford); Scott Lucchini (Graduate Student U. Wisconsin); Robert Penna (Postdoc IAS, Princeton); Ryan Pettibone (Graduate Student, Caltech); Robert Siller (Grad Student, U Wisconsin); Scott Verbridge (Associate Prof., Virginia Tech); Lauren Weiss (Parrent Fellow IFA, U. Hawaii); William Wolf (Grad Student, UC Santa Barbara); Karen Xu (Univ. of Pittsburgh, Med. School), Alexandra Kuznetsov (Grad Student, U.

Michigan); Jason Nordhaus (Assistant Professor, Rochester Institute of Technology); Tanveer Karim, Grad student, Harvard); Sanha Cheong (Grad student, Stanford); Trung Ha

Undergraduates: Sean Hartnoll, Jason Nordhaus, Scott Verbridge, Jenn Witkowski, Snehal Patel, Wen-Fei Fong, Rob Penna, Ryan Pettibone, Lauren Weiss, William Wolf, Rob Siller, Dan Pfeffer, Will Bock, Scott Lucchini, Aleksandra Kuznetsova, David Giannelli, Sanha Cheong, Tanveer Karim

Selected Administrative Activities

Department of Physics and Astronomy Astronomy/Astrophysics Undergraduate Advisor (2015-present)

Department of Physics and Astronomy , Undergraduate Curriculum Committee (2016-present)

Committee on Appointments and Promotions, Department of Physics and Astronomy (2013-present)
(Chair 2013-2014, 2015-2016)

Director of Graduate Student Advising for Department of Physics and Astronomy (2002-2010)

Astrophysics Colloquium Chair (2001-2003; 2011-2013, 2017-present)

Chair, University Committee to Review adherence to NCAA regulations for student-athletes (2009)

University Marshall Scholarship Nomination Committee

Graduate Physics Written Qualifying Exam Committee (2001-2005, 2010-2013)

Graduate Admissions Committee (2000-2002; 2012-2013,2017-present)

Chair, Committee to Review “Target of Opportunity” Candidates (2008)

Committee On Appointments and Promotions (2010-, Chair 2013-)

Department Executive Committee (2006-2007)

Graduate Curriculum Committee (2003-2017)

Editor for “Cross Sections,” the Department Newsletter (2000-2002)

Plasma Physics Faculty Search Committee 2012-2013

Personal/Other

Born and Raised in Rochester, N.Y., USA. Played intercollegiate soccer, basketball, and tennis in high school, and intercollegiate soccer, cross country, and indoor track at MIT. Hobbies include sporting and fitness activities.

Selected Talks / Invitations

1. Arcetri Observatory Colloquium (Florence, Italy) May 1993
2. Institute for Advanced Study (Princeton, NJ), Dec 1994
3. Harvard-Smithsonian Thesis Colloquium (Cambridge, MA) April 1995
4. Institute of Astronomy, Astrophysics Seminar (Cambridge, England) Feb 1996
5. Aspen Center For Physics (Aspen, CO) Aug 1996
6. Physics Colloquium, Warwick University (Coventry, England) Jan 1997
7. Institute D’Astrophysique de Paris (Paris, France) Feb 1997
8. Cambridge X-ray Astrophysics Seminar (Cambridge, England) March 1997

9. National Astronomy Meeting, Active Galactic Nuclei Session (Southampton, England) June 1997
10. Interstellar Turbulence Conference (Puebla, Mexico) Jan 1998
11. Cambridge X-ray Astrophysics Seminar (Cambridge, England) March 1998
12. Particle Physics and Astronomy Research Council (PPARC) seminar (London, England) March 1998
13. Institute for Theoretical Physics (Santa Barbara, CA) April 1999
14. Institute for Theoretical Physics (Santa Barbara, CA) May 1999
15. University of Rochester, Astrophysics Colloquium (Rochester, NY) May 1999
16. UCLA Astronomy Colloquium (Los Angeles, CA) June 1999
17. CITA Astrophysics Colloquium (Toronto, Canada) Oct 1999
18. Caltech Theoretical Astrophysics Seminar (Pasadena, CA) Nov 1999
19. Cornell University, Relativity and Theor. Astrophysics Seminar, (Ithaca NY) Feb 2000
20. Cornell University, Astronomy Colloquium, (Ithaca NY) Feb 2000
21. Institute for Theoretical Physics, (Santa Barbara CA), Feb 2000
22. 1st Korean Institute for Advanced Study (KIAS) conference on Astrophysics (Seoul, Korea) May 2000
23. Aspen Center for Physics, (Aspen CO) June 2000
24. International Astronomical Union, (Manchester UK) Aug 2000
25. American Physical Society, Division of Plasma Physics/International Congress on Plasma Physics Joint Meeting (Quebec City, Canada) Oct 2000
26. Astronomy Colloquium, Penn State University, (State College PA) Mar 2001
27. NORDITA Meeting on Dynamos, (Copenhagen Denmark) Mar 2001
28. Institute for Advanced Study, (Princeton NJ), May 2001
29. American Physical Society, Division of Plasma Physics Meeting, (Long Beach CA) Nov 2001
30. MHD Turbulence Workshop, (Virgin Gorda BVI), Dec 2001
31. Astrophysics Seminar, Johns Hopkins Univ., (Baltimore MD), Jan 2002
32. Institute for Theoretical Physics, (Santa Barbara CA), Mar 2002
33. Columbia University, Plasma Physics Colloquium (New York, NY), April 2002
34. Harvard University, Center for Astrophysics (Cambridge MA), May 2002
35. Ringberg Castle Conf. on Plasma Astrophysics, (Munich GDR) June 2002 (unable to make it)

36. Workshop on Accretion Disks, Aspen Center for Physics, (Aspen CO) July 2002,
37. Conference on Beaming and Collimation of Gamma-Ray Bursts (Copenhagen, Denmark) Aug 2002,
38. Princeton Univ., Department of Astrophysical Sciences, (Princeton NJ) Nov 2002,
39. Princeton Univ., Plasma Physics Lab, (Princeton NJ) Dec 2002,
40. Univ. of Iowa, Department of Physics and Astronomy Colloquium, (Iowa City, IA) March 2003,
41. Conference on Magnetic Fields in Star Formation, (Madrid, Spain), May 2003.
42. Aspen Workshop on Magnetic Reconnection, (Aspen CO), June 2003.
43. Asymmetric Planetary Nebulae Conference (Seattle WA) July 2003.
44. American Physical Society, Division of Plasma Physics Meeting, Session on Laboratory Plasma Astrophysics (Albuquerque NM) October 2003.
45. Astronomy Colloquium, Caltech, January 2004.
46. Theoretical Astrophysics Seminar, Caltech, January 2004.
47. Physics and Astronomy Colloquium, University of Rochester, February 2004.
48. Center for Magnetic Self-Organization Meeting, Madison WI, Aug 2004.
49. Meeting on Relativistic Plasmas and Magnetic Fields, Stanford CA, Aug 2004.
50. APS, Division of Plasma Physics Savannah GA, Nov 2004.
51. Applied Math Colloquium, Newcastle Univ., Newcastle UK, Dec 2004.
52. Isaac Newton Institute for Mathematical Sciences, Cambridge Univ., Cambridge UK, Dec 2004.
53. Canadian Institute for Theoretical Astrophysics, Univ. of Toronto, Toronto CA, Feb 2005.
54. Astronomy Colloquium, Univ. of Maryland, College Park, MD, Mar 2005.
55. Center For Magnetic Self-Organization Meeting, Princeton Plasma Physics Lab., Princeton, NJ, April 2005.
56. JILA/Univ. of Colorado, Boulder, CO, Oct 2005
57. UC Berkeley Theoretical Astrophysics Center, Berkeley, CA, Nov 2005
58. Relativistic Jets Conference, Ann Arbor, MI, Dec 2005
59. Laboratory for Laser Energetics, Univ. of Rochester, Rochester, NY, Mar 2006
60. Meeting on Laboratory Astrophysics, Rice Univ., Houston (unable to attend) , TX, Mar 2006
61. Workshop on Magnetic Self-Organization, Aspen Center for Physics, CO, June 2006
62. Workshop on Magnetohydrodynamic Turbulence with Application to and Planetary and Stellar Dynamos, NCAR, Boulder, CO, June 2006

63. Astronomy/Astrophysics Colloquium, University of Arizona, Tuscon AZ, Sept 2006
64. Center for Magnetic Self-Organization Meeting, Chicago IL, Feb 2007
65. US-Japan Workshop on Magnetic Reconnection, St. Michaels, MD Mar 2007
66. Asymmetric Planetary Nebula IV (La Palmas, Spain) Jun. 2007
67. Astronomy/Astrophysics Colloquium, Univ. of Illinois, Urbana IL, Sept. 2007
68. Institute for Defense Analyses, Alexandria VA, Oct. 2007
69. Kavli Institute for Theoretical Physics, Santa Barbara CA, Oct. 2007
70. Rochester Institute of Technology, Rochester NY, Feb. 2008
71. Turbulence and Dynamos Program, NORDITA, Stockholm Sweden, April 2008
72. Magnetic Field Generation/Dynamo Conference, KITP (UCSB), Santa Barbara CA, July, 2008
73. IAU Symposium on Magnetic Fields in Astrophysics, Tenerife, Spain, November 2008
74. Princeton Plasma Physics Laboratory Colloquium, Princeton, NJ, March 2009,
75. Astrophysical MHD meeting, Kiljavanranta, Finland, Apr. 2009
76. Workshop on "Opportunities in plasma astrophysics"; PPPL, Princeton NJ, Jan 2010
77. University of Rochester, Dept. of Physics and Astronomy Colloquium, Apr 2010
78. AAS Meeting/Mini-Conference on Magneto-rotational Instability, June 2010
79. Astronomy and Astrophysics Colloquium, University of Chicago, October 2010
80. "Computations in Science" Seminar series, University of Chicago, October 2010
81. Physics and Astronomy Colloquium, University of Toledo, March 2011
82. Conference on Turbulent Mixing and Beyond, ITCP, Trieste, IT, August 2011
83. APS/ Division of Plasma Physics, Mini-Conference on Dynamos, Nov 2011
84. APS/ Division of Plasma Physics, Session on Magnetic Reconnection, Nov 2011
85. University of New Hampshire, Physics Colloquium, Mar 2012
86. Cornell University, Dept. of Astronomy and Astrophysics Colloquium, Sept 2012
87. International Space Science Institute (ISSI), Workshop on Multi-Scale Structure Formation and Dynamics in Cosmic Plasmas, Bern, Switzerland, April 2013
88. NCAR, Geophysical Turbulence Program, Workshop on Large Eddy Simulations, Boulder Co, May 2013
89. Lyman Spitzer 100th Birthday Memorial Conference, Princeton NJ, October 2013
90. Asymmetric Planetary Nebulae VI, Cancun MX, Nov 2013

91. Clinical and Translational Science Institute Seminar Series, U. Rochester Medical Center, Feb 2014
92. Stellar Tango in the Rockies, Conference, Lake Louise, CA, Mar 2014
93. Joint Astronomy & Astrophysics Colloquium, Institute for Advanced Study and Princeton Univ.)Princeton NJ, Oct 2014
94. Astronomy/Astrophysics Colloquium, Stony Brook Univ., Nov 2014
95. After Hours Talk, Institute for Advanced Study, Princeton NJ, Feb 2015
96. Princeton Center for Theoretical Science (PCTS) meeting, Plasma Processes in Astrophysics and Fusion Energy: A Workshop of the Max-Planck/Princeton Center for Plasma Physics (Mar 2015, Princeton NJ)
97. Princeton Center for Theoretical Science (PCTS) meeting, Accelerating Cosmic-Ray Comprehension (Apr 2015, Princeton NJ)
98. Princeton Univ. Star Formation/ISM Rendevous Seminar (SFIR) (May 2015, Princeton NJ)
99. Princeton University Plasma Physics Laboratory (PPPL) Theory Seminar, (May 2015, Princeton NJ)
100. Princeton University, Astrophysical Sciences, Plasma Astrophysics Seminar, (June 2015, Princeton NJ)
101. IAU XXIX (Hilo, HI Jul 2015; Focus Meeting Planetary nebulae as probes of galactic structure and evolution—could not attend)
102. IAU XXIX (Hilo, HI; Focus Meeting on Laboratory Astrophysics, (Jul 2015—could not attend)
103. ESO Meeting Stellar End Products: the low mass - high mass connection Garching, (Aug 2015—could not attend)
104. University of Rochester Turbulence Meeting (Aug 2015; Rochester, NY)
105. University of Rochester Physics Colloquium (Sept 2015; Rochester, NY)
106. Astrophysics Colloquium, University of Calif. Santa Cruz (Oct 2015)
107. Princeton Center for Theoretical Science (PCTS) Magnetic Fields in Laboratory High Energy Density Plasmas (Nov 2015, Princeton NJ)
108. Princeton Center for Theoretical Science (PCTS) Dynamo Effect in Astrophysical and Laboratory Plasmas (Dec 2015, Princeton NJ)
109. Princeton Center for Theoretical Science (PCTS) Dynamo Effect in Astrophysical and Laboratory Plasmas (Jan 2016, Princeton NJ)
110. Purdue University, Astrophysics Colloquium (Jan 2016, Lafayette, IA)
111. Geophysical Turbulence Program, International Workshop on TURBULENCE AND WAVES IN FLOWS DOMINATED BY ROTATION: LESSONS FROM GEOPHYSICS AND PERSPECTIVES IN SPACE PHYSICS AND ASTROPHYSICS, NCAR, (Aug, 2016) Boulder Colorado
112. Science and Technology Colloquium, Laboratory for Laser Energetics, U. Rochester, (Rochester NY, 9/2016)

113. Physics Colloquium, School of Physics and Astronomy, Rochester Institute of Technology (September 2016, Rochester NY)
114. High Energy Density Physics Seminar, Department of Physics, University of Rochester, (Rochester NY, Dec 2016)
115. Canadian Institute for Theoretical Astrophysics (Toronto CA) June 2017
116. Ginzburg Conference 2017, Moscow Russia (June 2017)
117. Magnetic Fields in Astrophysics Conference, Pune India (sept 2017) (attended remotely)
118. APS Division of Plasma Physics Meeting , Milwaukee, WI; Oct 2017
119. APS Mid Atlantic Meeting, NJIT, New Jersey, Nov 2017
120. RIT Center of Computational Relativity and Gravity (May 2018)
121. US-Japan Magnetic Reconnection Meeting (Princeton, NJ) Sep 2018
122. Geophysical Turbulence Program (NCAR, UCB, Boulder CO.) Sep 2018
123. Simons Flatiron Institute, Plasma Physics of Neutron Star Mergers (Simons Foundation, New York NY) Oct 2018
124. Aspen Center for Physics, *Turbulent Life of Cosmic Baryons Workshop* (Aspen CO) Jun 2019
125. KITP *Multiscale Phenomena in Plasma Astrophysics* Workshop (Aug 2019)
126. Laboratory Astrophysics Workshop, T.D. Lee Institute, Shanghai (Oct. 2019; unable to attend)
127. International Astronomical Union (IAU) Symposium, Invited Review Talk, Leuven, Belgium (Oct 2020)

Eric G. Blackman: Publications

Refereed Publications

1. E.G. Blackman and R.L. Jaffe 1989, "Concentration Limits on Terrestrial Strange Quark Matter from Heavy Isotope Searches," Nuclear Physics B324, 205.
2. E.G. Blackman and G.B. Field, 1993, "Ohm's Law for a Relativistic Pair Plasma," Physical Review Letters 71, 3481.
3. E.G. Blackman and G.B. Field, 1994, "Kinematics of Relativistic Magnetic Reconnection," Physical Review Letters 72, 494.
4. I.E. Segal, J.F. Nicholl, and E.G. Blackman, 1994, "Statistically Efficient Parallel Testing of Flux-Redshift Predictions in the Radio Band," Astrophysical Journal 430, 63.
5. I. Yi, G.B. Field, and E.G. Blackman, 1994, "On the Origin of Obscuring Tori in the Galactic Nucleus and Active Galactic Nuclei," Astrophysical Journal 432, L31.
6. E.G. Blackman and G.B. Field, 1994, "Relativistic Reconnection in an Astrophysical Pair Plasma," Physica Scripta T52, 93.
7. E.G. Blackman and G.B. Field, 1994, "Non-Thermal Acceleration from Reconnection Shocks," Physical Review Letters 73, 3097.
8. E.G. Blackman, 1996, "Reconnecting Flux Tubes as a source of *In Situ* Acceleration in Extragalactic Radio Sources," Astrophysical Journal Letters 56, L87.
9. T. Chou & E.G. Blackman, 1996, "A Magnetic Field Diagnostic for Sonoluminescence," Physical Review Letters 76, 1549.
10. E.G. Blackman & I. Yi, 1996, "Can the Formation of X-Ray Obscuring Tori and Jets in Active Galaxies be Determined by One Parameter?" Astrophysical Journal 461, L21.
11. E.G. Blackman, 1996, "Overcoming the Back Reaction on Turbulent Motions in the Presence of Magnetic Fields," Physical Review Letters 77, 2694.
12. Z. Kuncic, E.G. Blackman & M.J. Rees, 1996, "Physical constraints on the sizes of dense clouds in the central magnetospheres of active galactic nuclei," Monthly Notices of the Royal Astronomical Society 283, 1322.
13. E.G. Blackman, I. Yi, and G.B. Field, 1996, "Relativistic Precessing Jets and Cosmological Gamma-Ray Bursts," Astrophysical Journal, 473, L79.
14. I. Yi and E.G. Blackman, 1997, "Formation of Millisecond Pulsars from Accretion Induced Collapse and Constraints on Pulsar Gamma-Ray Burst Models," Astrophysical Journal 482, 383.
15. E.G. Blackman, 1997, "Distinguishing Solar Flare Types by Differences in Reconnection Regions," Astrophysical Journal 484, L79.

16. T. DiMatteo, E.G. Blackman, & A.C. Fabian, 1997, "Two-Temperature Coronae in Active Galactic Nuclei," *Monthly Notices of the Royal Astronomical Society*, 291, L23.
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