

CURRICULUM VITAE—Alexander A Schekochihin

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APPOINTMENTS

- **University of Oxford, Dept. of Physics/Rudolf Peierls Centre for Theoretical Physics**
University Lecturer in Theoretical Plasma Astrophysics
and Tutorial Fellow in Physics of Merton College from 2008
- **Imperial College London, Dept. of Physics**
Lecturer in Plasma Physics 2006–08
- **University of Cambridge, Dept. of Applied Mathematics and Theoretical Physics**
PPARC Advanced Fellow and Research Fellow of King’s College 2005–07
UKAFF Fellow and Research Fellow of Wolfson College 2003–05
- **Imperial College London, Dept. of Physics**
Postdoctoral Research Associate (supervisor: S. C. Cowley) 2001–03
- **University of California Los Angeles, Dept. of Physics and Astronomy**
Postdoctoral Fellow (supervisor: S. C. Cowley) 2001

EDUCATION

- **Princeton University** 1995–2000
Ph. D., Astrophysical Sciences (adviser: R. M. Kulsrud) January 2001
M. A., Astrophysical Sciences (adviser: J. A. Krommes) November 1997
- **Moscow Institute of Physics and Technology** 1990–93, 94–95
B. Sci. *summa cum laude*, Applied Mathematics and Physics June 1995

FELLOWSHIPS

- Professeur Invité, Université Pierre et Marie Curie (Paris VI) 2009
- Honorary Lecturer, Imperial College, London since 2009
- Visiting Fellow, Isaac Newton Institute, Cambridge 2008, 2010
- RCUK Academic Fellow, Imperial College, London 2006–08
- PPARC/STFC Advanced Fellow, Cambridge/Imperial/Oxford 2005–10
- Research Fellow in Sciences, King’s College, Cambridge 2005–07
- UKAFF/Leverhulme Trust Fellow 2004–05
- Research Fellow in Physics, Wolfson College, Cambridge 2003–05
- US DOE National Undergraduate Fellowship, PPPL, Princeton University 1994
- US–Russia Presidents’ Undergraduate Exchange Scholarship 1993–94
- Microdin Corp. Applied Mathematics Scholarship, MIPT 1992–93
- Academic Merit Scholarship, MIPT 1991–93, 94–95

PHD STUDENTS

- J. Parker (co-adv. w. P. Dellar), Oxford Maths 2010–14
- G. Colyer, Y. Ghim (co-adv. w. A. R. Field), A. Mallet, Oxford 2009–13
- E. G. Highcock, Imperial, then Oxford (from 2009)/*now JRF, Magdalen Coll.* 2007–12
- I. G. Abel, Imperial, then Oxford (from 2009)/*now JRF, Merton Coll.* 2007–12
- C. H. K. Chen (co-adv. w. T. S. Horbury), Imperial/*now at UC Berkeley* 2007–10
- M. S. Rosin, Cambridge Maths/*now at UCLA* 2006–10
- N. F. Loureiro (co-adv. w. M. G. Haines), Imperial/*now at IST Lisbon* 2002–05

CURRENT

COLLABORATORS

- *At Oxford & Culham:* S. C. Cowley, P. Dellar, A. R. Field
- S. D. Bale, C. H. K. Chen (UC Berkeley), M. A. Barnes, F. I. Parra (MIT),
E. M. Churazov (MPA Garching), W. Dorland (Maryland),
G. W. Hammett, M. W. Kunz (Princeton), T. S. Horbury, R. T. Wicks (Imperial),
G. G. Howes (Iowa), S. Komarov (MIPT), N. F. Loureiro (IST Lisbon),
F. Rincon (Toulouse), M. Ruzskowski (UM Ann Arbor), D. A. Uzdensky (UC Boulder)

1PUBLICATIONS

- 59 refereed journal articles (incl. 19 PRLs); $N = 1578$, $h = 24$ (NASA ADS)
- 1 book chapter, 1 book review, 18 conference proceedings/reports
- 53 invited talks; 49 seminars; (co-)organiser or member of SOC for 13 conferences
- Member of Editorial Board, *Reports on Progress in Physics* from 2011

PUBLICATION LIST

Alexander A. Schekochihin

BOOK CHAPTERS and REVIEWS

1. A. A. Schekochihin and S. C. Cowley,
“**Turbulence and magnetic fields in astrophysical plasmas,**”
in: *Magnetohydrodynamics: Historical Evolution and Trends*, S. Molokov, R. Moreau, and H. K. Moffatt, Eds.
(Berlin: Springer, 2007), 85 [e-print astro-ph/0507686]

JOURNAL PAPERS

Submitted

64. A. A. Schekochihin, E. G. Highcock, and S. C. Cowley,
“**Suppression of turbulence and subcritical fluctuations in differentially rotating gyrokinetic plasmas,**”
Plasma Phys. Control. Fusion, submitted (2011) [e-print arXiv:1111.4929]
63. A. A. Schekochihin, S. V. Nazarenko, and T. A. Yousef,
“**Weak Alfvén-wave turbulence revisited,**”
Phys. Rev. Lett., submitted (2011) [e-print arXiv:1110.6682]
62. C. H. K. Chen, A. Mallet, A. A. Schekochihin, T. S. Horbury, R. T. Wicks, and S. D. Bale,
“**Three-dimensional structure of solar-wind turbulence,**”
Phys. Rev. Lett., submitted (2011) [e-print arXiv:1109.2558]
61. F. I. Parra, M. F. F. Nave, A. A. Schekochihin, C. Giroud, J. S. de Grassie, J. H. F. Severo, P. de Vries, K.-D. Zastrow, and JET-EFDA Contributors,
“**Scaling of spontaneous rotation with temperature and plasma current in tokamaks,**”
Phys. Rev. Lett., submitted (2011) [e-print arXiv:1108.6106]
60. N. F. Loureiro, R. Samtaney, A. A. Schekochihin, and D. A. Uzdensky,
“**Magnetic reconnection and stochastic plasmoid chains in high-Lundquist-number plasmas,**”
Phys. Rev. Lett., submitted (2011) [e-print arXiv:1108.4040]

Published/accepted

2011

59. E. Churazov, A. Vikhlinin, I. Zhuravleva, A. Schekochihin, I. Parrish, R. Sunyaev, W. Forman, H. Böhringer, and S. Randall,
“**X-ray surface brightness and gas density fluctuations in the Coma cluster,**”
Mon. Not. R. Astron. Soc., accepted (2011) [e-print arXiv:1110.5875]
58. T. Heinemann, J. C. McWilliams, and A. A. Schekochihin,
“**Large-scale magnetic field generation by randomly forced shearing waves,**”
Phys. Rev. Lett. **107**, 255004 (2011) [e-print arXiv:0810.2225]
57. E. G. Highcock, M. Barnes, F. I. Parra, A. A. Schekochihin, C. M. Roach, and S. C. Cowley,
“**Transport bifurcation induced by sheared toroidal flow in tokamak plasmas,**”
Phys. Plasmas **18**, 102304 (2011) [e-print arXiv:1105.5750]
56. A. Zocco and A. A. Schekochihin,
“**Reduced fluid-kinetic equations for low-frequency dynamics, magnetic reconnection and electron heating in low-beta plasmas,**”
Phys. Plasmas **18**, 102309 (2011) [e-print arXiv:1104.4622]
55. M. Barnes, F. I. Parra, and A. A. Schekochihin,
“**Critically balanced ion temperature gradient turbulence in fusion plasmas,**”
Phys. Rev. Lett. **107**, 115003 (2011) [e-print arXiv:1104.4514]
54. G. G. Howes, J. M. TenBarge, W. Dorland, E. Quataert, A. A. Schekochihin, R. Numata, and T. Tatsuno,
“**Gyrokinetic simulations of solar wind turbulence from ion to electron scales,**”
Phys. Rev. Lett. **107**, 035004 (2011) [e-print arXiv:1104.0877]
53. R. T. Wicks, T. S. Horbury, C. H. K. Chen, and A. A. Schekochihin,
“**Anisotropy of imbalanced Alfvénic turbulence in fast solar wind,**”
Phys. Rev. Lett. **106**, 045001 (2011) [e-print arXiv:1009.2427]

52. F. I. Parra, M. Barnes, E. G. Highcock, A. A. Schekochihin, and S. C. Cowley,
“Momentum injection in tokamak plasmas and transitions to reduced transport,”
Phys. Rev. Lett. **106**, 115004 (2011) [e-print arXiv:1009.0733]
51. C. H. K. Chen, A. Mallet, T. A. Yousef, A. A. Schekochihin, and T. S. Horbury,
“Anisotropy of Alfvénic turbulence in the solar wind and numerical simulations,”
Mon. Not. R. Astron. Soc. **415**, 3219 (2011) [e-print arXiv:1009.0662]
50. M. Barnes, F. I. Parra, E. G. Highcock, A. A. Schekochihin, S. C. Cowley, and C. M. Roach,
“Turbulent transport in tokamak plasmas with rotational shear,”
Phys. Rev. Lett. **106**, 175004 (2011) [e-print arXiv:1007.3390]
49. M. W. Kunz, A. A. Schekochihin, S. C. Cowley, J. J. Binney, and J. S. Sanders,
**“A thermally stable heating mechanism for the intracluster medium: turbulence, magnetic fields
and plasma instabilities,”**
Mon. Not. R. Astron. Soc. **410**, 2446 (2011) [e-print arXiv:1003.2719]
48. M. S. Rosin, A. A. Schekochihin, F. Rincon, and S. C. Cowley,
**“A nonlinear theory of the parallel firehose and gyrothermal instabilities in a weakly collisional
plasma,”**
Mon. Not. R. Astron. Soc. **413**, 7 (2011) [e-print arXiv:1002.4017]
47. S. V. Nazarenko and A. A. Schekochihin,
**“Critical balance in magnetohydrodynamic, rotating and stratified turbulence: towards a uni-
versal scaling conjecture,”**
J. Fluid Mech. **677**, 134 (2011) [e-print arXiv:0904.3488]

2010

46. D. A. Uzdensky, N. F. Loureiro, and A. A. Schekochihin,
“Fast magnetic reconnection in the plasmoid-dominated regime,”
Phys. Rev. Lett. **105**, 235002 (2010) [e-print arXiv:1008.3330]
45. E. G. Highcock, M. Barnes, A. A. Schekochihin, F. I. Parra, C. M. Roach, and S. C. Cowley,
“Transport bifurcation in a rotating tokamak plasma,”
Phys. Rev. Lett. **105**, 215003 (2010) [e-print arXiv:1008.2305]
44. T. Tatsuno, M. Barnes, S. C. Cowley, W. Dorland, G. G. Howes, R. Numata, G. G. Plunk, and A. A. Schekochi-
hin,
“Gyrokinetic simulation of entropy cascade in two-dimensional electrostatic turbulence,”
J. Plasma Fusion Res. SERIES **9**, 509 (2010) [e-print arXiv:1003.3933]
43. C. H. K. Chen, T. S. Horbury, A. A. Schekochihin, R. T. Wicks, O. Alexandrova, and J. Mitchell,
“Anisotropy of solar wind turbulence in the dissipation range,”
Phys. Rev. Lett. **104**, 255002 (2010) [e-print arXiv:1002.2539]
42. R. T. Wicks, T. S. Horbury, C. H. K. Chen, and A. A. Schekochihin,
**“Power and spectral index anisotropy of the entire inertial range of turbulence in the fast solar
wind,”**
Mon. Not. R. Astron. Soc. **407**, L31 (2010) [e-print arXiv:1002.2096]
41. A. A. Schekochihin, S. C. Cowley, F. Rincon, and M. S. Rosin,
“Magnetofluid dynamics of magnetized cosmic plasma: firehose and gyrothermal instabilities,”
Mon. Not. R. Astron. Soc. **405**, 291 (2010) [e-print arXiv:0912.1359]
40. C. H. K. Chen, R. T. Wicks, T. S. Horbury, and A. A. Schekochihin,
“Interpreting power anisotropy measurements in plasma turbulence,”
Astrophys. J. **711**, L79 (2010) [e-print arXiv:0909.2683]
39. G. G. Plunk, S. C. Cowley, A. A. Schekochihin, and T. Tatsuno,
“Two-dimensional gyrokinetic turbulence,”
J. Fluid Mech. **64**, 407 (2010) [e-print arXiv:0904.0243]

2009

38. C. M. Roach, I. G. Abel, R. J. Akers, W. Arter, M. Barnes, Y. Camenen, F. J. Casson, G. Colyer, J. W. Con-
nor, S. C. Cowley, D. Dickinson, W. Dorland, A. R. Field, W. Guttenfelder, G. W. Hammett, R. J. Hastie,
E. Highcock, N. F. Loureiro, A. G. Peeters, M. Reshko, S. Saarelma, A. A. Schekochihin, M. Valovic and
H. R. Wilson,
“Gyrokinetic simulations of spherical tokamaks,”
Plasma Phys. Control. Fusion **51**, 124020 (2009)

37. N. F. Loureiro, D. A. Uzdensky, A. A. Schekochihin, S. C. Cowley, and T. A. Yousef,
“Turbulent magnetic reconnection in two dimensions,”
Mon. Not. R. Astron. Soc. **399**, L146 (2009) [e-print arXiv:0904.0823]
36. A. Waelkens, A. A. Schekochihin, and T. A. Enßlin,
“Probing magnetic turbulence by synchrotron polarimetry: statistics and structure of tangled magnetic fields from Stokes correlators,”
Mon. Not. R. Astron. Soc. **398**, 1970 (2009) [e-print arXiv:0903.3056]
35. R. Samtaney, N. F. Loureiro, D. A. Uzdensky, A. A. Schekochihin, and S. C. Cowley,
“Formation of plasmoid chains in magnetic reconnection,”
Phys. Rev. Lett. **103**, 105004 (2009) [e-print arXiv:0903.0542]
34. T. Tatsuno, W. Dorland, A. A. Schekochihin, G. G. Plunk, M. Barnes, S. C. Cowley, and G. G. Howes,
“Nonlinear phase mixing and phase-space cascade of entropy in gyrokinetic plasma turbulence,”
Phys. Rev. Lett. **103**, 015003 (2009) [e-print arXiv:0811.2538]
33. M. Barnes, I. G. Abel, W. Dorland, D. R. Ernst, G. W. Hammett, P. Ricci, B. N. Rogers, A. A. Schekochihin, and T. Tatsuno,
“Linearized model Fokker-Planck collision operators for gyrokinetic simulations. II. Numerical implementation and tests,”
Phys. Plasmas **16**, 072107 (2009) [e-print arXiv:0809.3945]
32. A. A. Schekochihin, S. C. Cowley, W. Dorland, G. W. Hammett, G. G. Howes, E. Quataert, and T. Tatsuno,
“Astrophysical gyrokinetics: kinetic and fluid turbulent cascades in magnetized weakly collisional plasmas,”
Astrophys. J. Suppl. **182**, 310 (2009) [e-print arXiv:0704.0044]

2008

31. I. G. Abel, M. Barnes, S. C. Cowley, W. Dorland, and A. A. Schekochihin,
“Linearized model Fokker-Planck collision operators for gyrokinetic simulations. I. Theory,”
Phys. Plasmas **15**, 122509 (2008) [e-print arXiv:0808.1300]
30. T. A. Yousef, T. Heinemann, F. Rincon, A. A. Schekochihin, N. Kleeorin, I. Rogachevskii, S. C. Cowley, and J. C. McWilliams,
“Numerical experiments on dynamo action in sheared and rotating turbulence,”
Astron. Nachr. **329**, 737 (2008) [e-print arXiv:0807.1122]
29. A. A. Schekochihin, S. C. Cowley, W. Dorland, G. W. Hammett, G. G. Howes, G. G. Plunk, E. Quataert, and T. Tatsuno,
“Gyrokinetic turbulence: a nonlinear route to dissipation through phase space,”
Plasma Phys. Control. Fusion **50**, 124024 (2008) [e-print arXiv:0806.1069]
28. G. G. Howes, W. Dorland, S. C. Cowley, G. W. Hammett, E. Quataert, A. A. Schekochihin, and T. Tatsuno,
“Kinetic simulations of magnetized turbulence in astrophysical plasmas,”
Phys. Rev. Lett. **100**, 065004 (2008) [e-print arXiv:0711.4355]
27. T. A. Yousef, T. Heinemann, A. A. Schekochihin, N. Kleeorin, I. Rogachevskii, A. B. Isakov, S. C. Cowley, and J. C. McWilliams,
“Generation of magnetic field by combined action of turbulence and shear,”
Phys. Rev. Lett. **100**, 184501 (2008) [e-print arXiv:0710.3359]
26. A. A. Schekochihin, S. C. Cowley, R. M. Kulsrud, M. S. Rosin, and T. Heinemann,
“Nonlinear growth of firehose and mirror fluctuations in astrophysical plasmas,”
Phys. Rev. Lett. **100**, 081301 (2008) [e-print arXiv:0709.3828]
25. G. G. Howes, S. C. Cowley, W. Dorland, G. W. Hammett, E. Quataert, and A. A. Schekochihin,
“A model of turbulence in magnetized plasmas: implications for the dissipation range in the solar wind,”
J. Geophys. Res. **113**, A05103 (2008) [e-print arXiv:0707.3147]

2007

24. N. F. Loureiro, A. A. Schekochihin, and S. C. Cowley,
“Instability of current sheets and formation of plasmoid chains,”
Phys. Plasmas **14**, 100703 (2007) [e-print astro-ph/0703631]

23. A. A. Schekochihin, A. B. Iskakov, S. C. Cowley, J. C. McWilliams, M. R. E. Proctor, and T. A. Yousef, **“Fluctuation dynamo and turbulent induction at low magnetic Prandtl numbers,”** *New J. Phys.* **9**, 300 (2007) [e-print arXiv:0704.2002]
22. A. B. Iskakov, A. A. Schekochihin, S. C. Cowley, J. C. McWilliams, and M. R. E. Proctor, **“Numerical demonstration of fluctuation dynamo at low magnetic Prandtl numbers,”** *Phys. Rev. Lett.* **98**, 208501 (2007) [e-print astro-ph/0702291]
21. T. A. Yousef, F. Rincon, and A. A. Schekochihin, **“Exact scaling laws and the local structure of isotropic magnetohydrodynamic turbulence,”** *J. Fluid Mech.* **575**, 111 (2007) [e-print astro-ph/0611692]
20. A. A. Schekochihin, S. C. Cowley, and W. Dorland, **“Interplanetary and interstellar plasma turbulence,”** *Plasma Phys. Control. Fusion* **49**, A195 (2007) [e-print astro-ph/0610810]

2006

19. G. G. Howes, S. C. Cowley, W. Dorland, G. W. Hammett, E. Quataert, and A. A. Schekochihin, **“Astrophysical gyrokinetics: basic equations and linear theory,”** *Astrophys. J.* **651**, 590 (2006) [e-print astro-ph/0511812]
18. A. A. Schekochihin and S. C. Cowley, **“Turbulence, magnetic fields and plasma physics in clusters of galaxies,”** *Phys. Plasmas* **13**, 056501 (2006) [E-print astro-ph/0601246]
17. T. A. Enßlin, A. Waelkens, C. Vogt, and A. A. Schekochihin, **“Future magnetic fields studies using the Planck surveyor experiment,”** *Astron. Nachr.* **327**, 626 (2006) [e-print astro-ph/0511488]
16. A. A. Schekochihin and S. C. Cowley, **“Fast growth of magnetic fields in galaxy clusters: a self-accelerating dynamo,”** *Astron. Nachr.* **327**, 599 (2006) [e-print astro-ph/0508535]

2005

15. N. F. Loureiro, S. C. Cowley, W. D. Dorland, M. G. Haines, and A. A. Schekochihin, **“X-point collapse and saturation in the nonlinear tearing-mode reconnection,”** *Phys. Rev. Lett.* **95**, 235003 (2005) [e-print physics/0507206]
14. C. M. Roach, D. J. Applegate, J. W. Connor, S. C. Cowley, W. D. Dorland, R. J. Hastie, N. Joiner, S. Saarelma, A. A. Schekochihin, R. J. Akers, C. Brickley, A. R. Field, M. Valovic, and the MAST Team, **“Microstability physics as illuminated in the spherical tokamak,”** *Plasma Phys. Control. Fusion* **47**, B323 (2005)
13. A. A. Schekochihin, S. C. Cowley, R. M. Kulsrud, G. W. Hammett, and P. Sharma, **“Plasma instabilities and magnetic-field growth in clusters of galaxies,”** *Astrophys. J.* **629**, 139 (2005) [E-print astro-ph/0501362]
12. A. A. Schekochihin, N. E. L. Haugen, A. Brandenburg, S. C. Cowley, J. L. Maron, and J. C. McWilliams, **“The onset of a small-scale turbulent dynamo at low magnetic Prandtl numbers,”** *Astrophys. J.* **625**, L115 (2005) [E-print astro-ph/0412594]

2004

11. A. A. Schekochihin, P. H. Haynes, and S. C. Cowley, **“Diffusion of passive scalar in a finite-scale random flow,”** *Phys. Rev. E* **70**, 046304 (2004) [e-print nlin.CD/0404016]
10. A. A. Schekochihin, S. C. Cowley, S. F. Taylor, J. L. Maron, and J. C. McWilliams, **“Simulations of the small-scale turbulent dynamo,”** *Astrophys. J.* **612**, 276 (2004) [E-print astro-ph/0312046]
9. A. A. Schekochihin, S. C. Cowley, J. L. Maron, and J. C. McWilliams, **“Critical magnetic Prandtl number for small-scale dynamo,”** *Phys. Rev. Lett.* **92**, 054502 (2004) [e-print astro-ph/0308336]
8. A. A. Schekochihin, S. C. Cowley, S. F. Taylor, G. W. Hammett, J. L. Maron, and J. C. McWilliams, **“Saturated state of the nonlinear small-scale dynamo,”** *Phys. Rev. Lett.* **92**, 084504 (2004) [e-print astro-ph/0308252]

7. A. A. Schekochihin, S. C. Cowley, J. L. Maron, and J. C. McWilliams,
“Self-similar turbulent dynamo,”
Phys. Rev. Lett. **92**, 064501 (2004) [e-print nlin.CD/0306059]

2002

6. A. A. Schekochihin, S. C. Cowley, G. W. Hammett, J. L. Maron, and J. C. McWilliams,
“A model of nonlinear evolution and saturation of the turbulent MHD dynamo,”
New J. Phys. **4**, 84 (2002) [e-print astro-ph/0207503]
5. A. A. Schekochihin, J. L. Maron, S. C. Cowley, and J. C. McWilliams,
“The small-scale structure of magnetohydrodynamic turbulence with large magnetic Prandtl numbers,”
Astrophys. J. **576**, 806 (2002) [e-print astro-ph/0203219]
4. A. Schekochihin, S. Cowley, J. Maron, and L. Malyshkin,
“Structure of small-scale magnetic fields in the kinematic dynamo theory,”
Phys. Rev. E **65**, 016305 (2002) [e-print astro-ph/0105322]
3. A. A. Schekochihin, S. A. Boldyrev, and R. M. Kulsrud,
“Spectra and growth rates of fluctuating magnetic fields in the kinematic dynamo theory with large magnetic Prandtl numbers,”
Astrophys. J. **567**, 828 (2002) [e-print astro-ph/0103333]

2001

2. A. A. Schekochihin and R. M. Kulsrud,
“Finite-correlation-time effects in the kinematic dynamo problem,”
Phys. Plasmas **8**, 4937 (2001) [e-print astro-ph/0002175]

2000

1. S. A. Boldyrev and A. A. Schekochihin,
“Geometric properties of passive random advection,”
Phys. Rev. E **62**, 545 (2000) [e-print chaos-dyn/9907034]

BOOK REVIEWS

1. *Plasma Physics for Astrophysics*, by R. M. Kulsrud (Princeton: Princeton University Press, 2004),
J. Fluid Mech. **544**, 378 (2005)

CONFERENCE PROCEEDINGS and REPORTS (some refereed)

18. A. Vaivads, G. Andersson, S. D. Bale, C. M. Cully, J. De Keyser, M. Fujimoto, S. Grahn, S. Haaland, H. Ji, Yu. V. Khotyaintsev, A. Lazarian, B. Lavraud, I. R. Mann, R. Nakamura, T. K. M. Nakamura, Y. Narita, A. Retinò, F. Sahraoui, A. Schekochihin, S. J. Schwartz, I. Shinohara, and L. Sorriso-Valvo,
“EIDOSCOPE: particle acceleration at plasma boundaries,”
Exp. Astron., in press (2011)
17. M. Barnes, F. I. Parra, E. G. Highcock, A. A. Schekochihin, S. C. Cowley, and C. M. Roach,
“Shear flow suppression of turbulent transport and self-consistent profile evolution within a multi-scale gyrokinetic framework,”
in Proc. 23rd IAEA Fusion Energy Conference, Daejeon, 11-16 Oct. 2010, THC/P4-01
16. T. A. Enßlin, T. Clarke, C. Vogt, A. Waelkens, and A. A. Schekochihin,
“Magnetic turbulence in clusters of galaxies,”
in Proc. XXVII IAU General Assembly, Rio de Janeiro, 3-14 Aug. 2009,
Highlights Astron. **15**, 456 (2010)
15. I. G. Abel, M. Barnes, S. C. Cowley, W. Dorland, G. W. Hammett, A. A. Schekochihin, and T. Tatsuno,
“Model collision operators for numerical gyrokinetics,”
in *Theory of Fusion Plasmas*, O. Sauter, X. Garbet, and E. Sindoni, Eds., Proc. Joint Varenna–Lausanne Intl. Workshop, Varenna, 25-29 Aug. 2008,
AIP Conf. Proc. **1069**, 233 (2008)
14. T. A. Enßlin, T. Clarke, C. Vogt, A. Waelkens, and A. A. Schekochihin,
“Magnetic turbulence in clusters of galaxies,”
in *Magnetic Fields in the Universe II: From Laboratory and Stars to the Primordial Universe*, A. Esquivel, J. Franco, G. García-Segura, E. M. de Gouveia Dal Pino, A. Lazarian, and A. Raga, Eds., Proc. Intl. Conf., Cozumel, Mexico, 28 Jan.-1 Feb. 2008,
RevMexAA(SC) **36**, 209 (2009)

13. G. G. Howes, S. C. Cowley, W. Dorland, G. W. Hammett, E. Quataert, and A. A. Schekochihin,
“Dissipation-scale turbulence in the solar wind,”
in *Turbulence and Nonlinear Processes in Astrophysical Plasmas*, D. Shaikh and G. P. Zank, Eds., Proc. 6th Ann. Intl. Astrophys. Conf., Oahu, Hawaii, 16-22 Mar. 2007,
AIP Conf. Proc. **932**, 3 (2007) [E-print arXiv:0707.3149]
12. T. A. Yousef, F. Rincon, and A. A. Schekochihin,
“Exact scaling laws, nonlocality and structure in isotropic magnetohydrodynamic turbulence,”
in: *Advances in Turbulence XI*, J. M. L. M. Palma and A. Silva Lopes, Eds., Proc. 11th EUROMECH European Turbulence Conf., Porto, Portugal, 25-28 June 2007
(Berlin: Springer, 2007), 76
11. A. A. Schekochihin, S. C. Cowley, and T. A. Yousef,
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