

Patrick Fox

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Nationality British

Education

- **1998-2002** University of Washington
Ph.D. Theoretical Particle Physics
Advisor: Professor Ann Nelson
- **1997-1998** University of Washington
M.Sc. Physics
- **1996-1997** Trinity College, Cambridge University, Cambridge, U.K.
Part III in Applied Mathematics and Theoretical Physics
Dissertation on Lattice Field Theory and Phase Transitions
- **1993-1996** Trinity College, Cambridge University, Cambridge, U.K.
B.A. First Class Honors in Mathematics

Academic Experience

- **2016-present** Senior Scientist, FNAL
- **2011-2016** Scientist, FNAL
- **September 2010- February 2011** Visiting Member, Institute for Advanced Study
- **2007-2011** Associate Scientist, FNAL
- **2005-2007** Postdoctoral Fellow, LBNL

- **2002-2005** Research Associate, SCIPP, University of California, Santa Cruz
- **2000-2002** Research Assistant with Professor Ann Nelson, University of Washington
- **1998-2002** Teaching Assistant, University of Washington
- **1996** Summer Research Studentship with Dr. Proctor, Trinity College, Cambridge University

Fellowships and Awards

- **2019** GGI Simons Fellow
- **2016** Fellow of the American Physical Society
- **2016** Co-PI Joint KEK-DOE Grant
- **2015-2018** Humboldt Fellowship for Experienced Researchers
- **2001** American Physics Society Northwest Section Student Prize
- **2000** American Association of Physics Teachers Award for department's most outstanding TA
- **1997-1998** Fred Baumgartner Fellowship in Physics, University of Washington
- **1995-1997** Senior Scholar, Trinity College, Cambridge University

Service

Technology committee (2020-present)

Chair of Organising Committee for Summiting The Unknown: New Physics, New Opportunities, New Voices – Dedicated to Ann Nelson

Organiser Winter Aspen 2020

Co-convener for BLV2019

Convener of BSM Working Group for European strategy (2018-2019)

Member of the URA Early Career Award Committee (2019-present)

Lecturer at ICTP-SAIFR summer school, 2018

Lecturer at TASI, 2018

Member of the Fermilab Committee on Scientific Appointments (FCSA) (2018-present)
Convener US Cosmic Visions Workshop, 2017
Convener APS DPF Meeting, 2017
Member of Lederman Fellow selection committee (2017-present)
Member of the Fermilab Scientist Advisory Council (SAC) (2015-2018)
Chair of the selection committee for the Fermilab Graduate Student Research Program in Theoretical Physics (2014-2016)
Member of Fermilab LPC Topic of the Week committee (2016-2018)
Member of Fermilab Colloquium committee (2015-present)
Organizer of the Summer Visitor program, Theoretical Physics Department (2013-2017)
Member of Fermilab RA Mentoring committee (2016-present)
Member of the URA Thesis committee (2013-2016)
Organiser of the Fermilab Theoretical Physics seminar (2008-2017)
Co-chair of LOC for 2012 Hadron Collider Physics Summer School at Fermilab, co-organiser of the 2010 Hadron Collider Physics Summer School, member of IAC for 2013 (chair), 2014, 2015 Hadron Collider Physics Summer Schools.
Lecturer at the TRISEP Summer School 2017.
Co-organiser of URA funded workshop at Fermilab - New Perspectives on Dark Matter, 2014
Lecturer at Shanghai International Summer School of Neutrinos and Dark Matter, 2012.
Visiting lecturer of a week-long “mini-course” at USP, Brazil, 2012.
Lecturer at the SLAC Summer Institute, 2012 and 2016.
Lecturer at TASI 2009
Referee for physics journals: Physical Review Letters, Physical Review D, Rapid Communications, Physics Letters B, Nuclear Physics B, JHEP, JCAP, Journal of Physics G, Physics of the Dark Universe, Foundations of Physics and Physics World.

Grant reviewer for the Department of Energy, National Science Foundation, Irish Research Council Laureate Awards, Israel Science Foundation, and Natural Sciences and Engineering Research Council of Canada.

Co-organiser for 2012 Winter Aspen Conference, and co-organiser of 2008 Aspen summer workshop

Member of LOC for the 2012 Chicago Workshop on LHC Physics

Co-convener of Particle Physics parallel session at TeVPA 2009

Co-organiser of Standard Model and Beyond the Standard Model Parallel Sessions at PANIC08

Co-organiser of URA Visiting Scholars Program Award funded workshop at Fermilab - Beyond the Standard Model: from the Tevatron to the LHC

Outreach: Heinz R Pagels Public Lecture at Aspen - member of panel discussing the LHC; regular participation in FNAL outreach - Saturday Morning Physics lecturer, public lecturing and meeting visiting school groups, presentations at local schools; Appeared in several episodes of Morgan Freeman's "Through the Wormhole", written for Astronomy Magazine, and multiple radio interviews.

Recent Conferences, Workshops and Invited Talks

- **April, 2020** UCSC
- **October, 2019** Cornell
- **August, 2019** GGI Next Frontiers in the Search for Dark Matter, Simons Fellow
- **June, 2019** Summer Aspen Workshop
- **May, 2019** NPKEI Workshop, S. Korea
- **February, 2019** Texas A&M
- **October, 2018** IPA 2018
- **July, 2018** Summer Aspen Workshop
- **June, 2018** Lecture at TASI Summer School, ICTP-SAIFR School
- **January, 2018** Zürich Phenomenology Workshop
- **October, 2017** Workshop on the physics of HL-LHC, and perspectives at HE-LHC
- **September 2017** NYU
- **July 2017** DPF 2017, plenary talk
- **June 2017** Gordon Conference
- **April 2017** ALPS2017
- **March 2017** US Cosmic Visions Workshop
- **February 2017** PIKIO
- **August 2016** Focus Workshop, KAIST
- **August 2016** Lecture at SSI, Summer Aspen
- **June 2016** Bethe Forum
- **May 2016** Emerging New Physics at the LHC
- **March 2016** DM@LHC
- **November 2015** LCWS2015
- **October 2015** Michigan State University, LBL
- **June 2015** Invisibles15
- **May 2015** Beyond WIMPs, Israel; MC4BSM
- **April 2015** SCIPP Symposium

- **March 2015** Exploring the Dark Sector, KIAS
- **February 2015** Colloquium, Notre Dame
- **December 2014** Nuclear Aspects of DM searches, INT
- **November 2014** BSM Higgs Workshop
- **September 2014** LHC14 workshop at IFT, Madrid; NBI
- **August 2014** Nature Guiding Theory Workshop
- **July 2014** Aspen Summer Workshop
- **May 2014** Harvard-Smithsonian Workshop
- **April 2014** IN-AAPT
- **March 2014** Beyond the Standard Model 2014, KEK; Colloquium UW, Madison
- **December 2013** Fermilab Academic Lectures
- **July 2013** Invisibles2013
- **May 2013** KITP
- **April 2013** Light DM workshop, U Michigan
- **January 2013** UC Santa Cruz Haber-Dine Symposium, JTERM
- **October 2012** Community Planning Meeting
- **September 2012** Shanghai Particle Physics and Cosmology Symposium
- **July 2012** Rencontres du Vietnam, Summer Aspen
- **April 2012** Northwest Terascale Workshop, Lecturer USP, Brazil, William and Mary
- **February 2012** Seattle Flavour Workshop, Winter Aspen, University of Chicago
- **December 2011** MIT, Stony Brook
- **November 2011** SLAC, UIC, Cincinatti
- **September 2011** Perimeter Institute, Unravelling Dark Matter
- **August 2011** SUSY 2011
- **July 2011** CERN DM Workshop, KITP LHC Workshop
- **June 2011** Muon Collider Workshop
- **April 2011** UC Davis, HEFTI workshop, Wine and Cheese, Fermilab, Northwestern

- **March 2011** UW Madison
- **February 2011** Winter Aspen
- **January 2011** University of British Columbia, LHC workshop
- **November 2010** Rutgers University, Princeton DM workshop
- **October 2010** University of Delaware, Harvard
- **September 2010** SLAC Topologies Workshop
- **June 2010** Seattle Workshop on Early LHC, Summer Aspen
- **April 2010** UC Davis DM workshop
- **March 2010** UC Irvine
- **February 2010** University of Chicago
- **January 2010** Perimeter Institute, Winter Aspen, Michigan DM Workshop

Publications

1. **“Three-Body Decays of Heavy Dirac and Majorana Fermions”**
A. de Gouvea, P. J. Fox, B. J. Kayser and K. J. Kelly.
[INSPIRE-HEP entry](#)
2. **“Beyond 4D Tracking: Using Cluster Shapes for Track Seeding”**
P. J. Fox, S. Huang, J. Isaacson, X. Ju and B. Nachman.
JINST **16**, no.05, P05001 (2021)
[INSPIRE-HEP entry](#)
3. **“Diophantine equations with sum of cubes and cube of sum”**
B. A. Dobrescu and P. J. Fox.
[INSPIRE-HEP entry](#)
4. **“Neutrino Masses from Low Scale Partial Compositeness”**
Z. Chacko, P. J. Fox, R. Harnik and Z. Liu.
JHEP **03**, 112 (2021)
[INSPIRE-HEP entry](#)
5. **“Chiral Abelian gauge theories with few fermions”**
D. B. Costa, B. A. Dobrescu and P. J. Fox.
Phys. Rev. D **101**, no.9, 095032 (2020)
[INSPIRE-HEP entry](#)
6. **“Searches for Decays of New Particles in the DUNE Multi-Purpose Near Detector”**
J. M. Berryman, A. de Gouvea, P. J. Fox, B. J. Kayser, K. J. Kelly and J. L. Raaf.
JHEP **02**, 174 (2020)
[INSPIRE-HEP entry](#)
7. **“Testing the Sensitivity of the Galactic Center Excess to the Point Source Mask”**
Y. M. Zhong, S. D. McDermott, I. Cholis and P. J. Fox.
Phys. Rev. Lett. **124**, no.23, 231103 (2020)
[INSPIRE-HEP entry](#)
8. **“General Solution to the U(1) Anomaly Equations”**
D. B. Costa, B. A. Dobrescu and P. J. Fox.
Phys. Rev. Lett. **123**, no.15, 151601 (2019)
[INSPIRE-HEP entry](#)
9. **“Luminous Signals of Inelastic Dark Matter in Large Detectors”**
J. Eby, P. J. Fox, R. Harnik and G. D. Kribs.

- JHEP **09**, 115 (2019)
[INSPIRE-HEP entry](#)
10. **“TASI Lectures on WIMPs and Supersymmetry”**
P. J. Fox.
 11. **“Bi ν Phenomenology at the LHC”**
J. Gehrlein, S. Ipek and P. J. Fox.
JHEP **03**, 073 (2019)
[INSPIRE-HEP entry](#)
 12. **“Report from Working Group 3: Beyond the Standard Model physics at the HL-LHC and HE-LHC”**
X. Cid Vidal, M. D’Onofrio, P. J. Fox, R. Torre, K. A. Ulmer, A. Aboubrahim, A. Albert, J. Alimena, B. C. Allanach and C. Alpigiani, *et al.*
CERN Yellow Rep. Monogr. **7**, 585-865 (2019)
[INSPIRE-HEP entry](#)
 13. **“Report from Working Group 4: Opportunities in Flavour Physics at the HL-LHC and HE-LHC”**
A. Cerri, V. V. Gligorov, S. Malvezzi, J. Martin Camalich, J. Zupan, S. Akar, J. Alimena, B. C. Allanach, W. Altmannshofer and L. Anderlini, *et al.*
CERN Yellow Rep. Monogr. **7**, 867-1158 (2019)
[INSPIRE-HEP entry](#)
 14. **“Dark Tridents at Off-Axis Liquid Argon Neutrino Detectors”**
A. de Gouvêa, P. J. Fox, R. Harnik, K. J. Kelly and Y. Zhang.
JHEP **01**, 001 (2019)
[INSPIRE-HEP entry](#)
 15. **“Quantum Sensing for High Energy Physics”**
Z. Ahmed, Y. Alexeev, G. Apollinari, A. Arvanitaki, D. Awschalom, K. K. Berggren, K. Van Bibber, P. Bienias, G. Bodwin and M. Boshier, *et al.*
[INSPIRE-HEP entry](#)
 16. **“Analyzing the Gamma-Ray Sky with Wavelets”**
B. Balaji, I. Cholis, P. J. Fox and S. D. McDermott.
Phys. Rev. D **98**, no.4, 043009 (2018)
[INSPIRE-HEP entry](#)
 17. **“Top-philic Z' forces at the LHC”**
P. J. Fox, I. Low and Y. Zhang.
JHEP **03**, 074 (2018)
[INSPIRE-HEP entry](#)

18. **“Light Signals from a Lighter Higgs”**
P. J. Fox and N. Weiner.
JHEP **08**, 025 (2018)
[INSPIRE-HEP entry](#)
19. **“US Cosmic Visions: New Ideas in Dark Matter 2017: Community Report”**
M. Battaglieri, A. Belloni, A. Chou, P. Cushman, B. Echenard, R. Essig, J. Estrada, J. L. Feng, B. Flaugher and P. J. Fox, *et al.*
[INSPIRE-HEP entry](#)
20. **“Higgs–photon resonances”**
B. A. Dobrescu, P. J. Fox and J. Kearney.
Eur. Phys. J. C **77**, no.10, 704 (2017)
[INSPIRE-HEP entry](#)
21. **“Cosmology in Mirror Twin Higgs and Neutrino Masses”**
Z. Chacko, N. Craig, P. J. Fox and R. Harnik.
JHEP **07**, 023 (2017)
[INSPIRE-HEP entry](#)
22. **“Inelastic frontier: Discovering dark matter at high recoil energy”**
J. Bramante, P. J. Fox, G. D. Kribs and A. Martin.
Phys. Rev. D **94**, no.11, 115026 (2016)
[INSPIRE-HEP entry](#)
23. **“Physics at a 100 TeV pp collider: beyond the Standard Model phenomena”**
T. Golling, M. Hance, P. Harris, M. L. Mangano, M. McCullough, F. Moortgat, P. Schwaller, R. Torre, P. Agrawal and D. S. M. Alves, *et al.*
24. **“Multi-step production of a diphoton resonance”**
B. A. Dobrescu, P. J. Fox and J. Kearney.
J. Phys. G **44**, no.6, 065003 (2017)
[INSPIRE-HEP entry](#)
25. **“Mixed Dark Matter in Left-Right Symmetric Models”**
A. Berlin, P. J. Fox, D. Hooper and G. Mohlabeng.
JCAP **06**, 016 (2016)
[INSPIRE-HEP entry](#)
26. **“Vector Dark Matter through a Radiative Higgs Portal”**
A. DiFranzo, P. J. Fox and T. M. P. Tait.

- JHEP **04**, 135 (2016)
[INSPIRE-HEP entry](#)
27. **“Wavelet-Based Techniques for the Gamma-Ray Sky”**
S. D. McDermott, P. J. Fox, I. Cholis and S. K. Lee.
JCAP **07**, 045 (2016)
[INSPIRE-HEP entry](#)
28. **“Signals of a 2 TeV W' boson and a heavier Z' boson”**
B. A. Dobrescu and P. J. Fox.
JHEP **05**, 047 (2016)
[INSPIRE-HEP entry](#)
29. **“Towards the Final Word on Neutralino Dark Matter”**
J. Bramante, N. Desai, P. Fox, A. Martin, B. Ostdiek and T. Plehn.
Phys. Rev. D **93**, no.6, 063525 (2016)
[INSPIRE-HEP entry](#)
30. **“Exotic Decays of Heavy B quarks”**
P. J. Fox and D. Tucker-Smith.
JHEP **01**, 038 (2016)
[INSPIRE-HEP entry](#)
31. **“Dark Matter benchmark models for early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum”**
D. Abercrombie, N. Akchurin, E. Akilli, J. Alcaraz Maestre, B. Allen, B. Alvarez Gonzalez, J. Andrea, A. Arbey, G. Azuelos and P. Azzi, *et al.*
Phys. Dark Univ. **27**, 100371 (2020)
[INSPIRE-HEP entry](#)
32. **“Simplified Models for Dark Matter Searches at the LHC”**
J. Abdallah, H. Araujo, A. Arbey, A. Ashkenazi, A. Belyaev, J. Berger, C. Boehm, A. Boveia, A. Brennan and J. Brooke, *et al.*
Phys. Dark Univ. **9-10**, 8-23 (2015)
[INSPIRE-HEP entry](#)
33. **“Halo-Independent Direct Detection Analyses Without Mass Assumptions”**
A. J. Anderson, P. J. Fox, Y. Kahn and M. McCullough.
JCAP **10**, 012 (2015)
[INSPIRE-HEP entry](#)
34. **“Relic Neutralino Surface at a 100 TeV Collider”**
J. Bramante, P. J. Fox, A. Martin, B. Ostdiek, T. Plehn, T. Schell and M. Takeuchi.

Phys. Rev. D **91**, 054015 (2015)

[INSPIRE-HEP entry](#)

35. **“Dark Matter Signals in Dilepton Production at Hadron Colliders”**
W. Altmannshofer, P. J. Fox, R. Harnik, G. D. Kribs and N. Raj.
Phys. Rev. D **91**, no.11, 115006 (2015)
[INSPIRE-HEP entry](#)
36. **“WIMPs at the Galactic Center”**
P. Agrawal, B. Batell, P. J. Fox and R. Harnik.
JCAP **05**, 011 (2015)
[INSPIRE-HEP entry](#)
37. **“Split Dirac Supersymmetry: An Ultraviolet Completion of Higgsino Dark Matter”**
P. J. Fox, G. D. Kribs and A. Martin.
Phys. Rev. D **90**, no.7, 075006 (2014)
[INSPIRE-HEP entry](#)
38. **“Taking Halo-Independent Dark Matter Methods Out of the Bin”**
P. J. Fox, Y. Kahn and M. McCullough.
JCAP **10**, 076 (2014)
[INSPIRE-HEP entry](#)
39. **“Systematically Searching for New Resonances at the Energy Frontier using Topological Models”**
M. Abdullah, E. Albin, A. DiFranzo, M. Frate, C. Pitcher, C. Shimmin, S. Upadhyay, J. Walker, P. Weatherly and P. J. Fox, *et al.*
Phys. Rev. D **89**, no.9, 095002 (2014)
[INSPIRE-HEP entry](#)
40. **“Dark Matter in Light of the LUX Results”**
P. J. Fox, G. Jung, P. Sorensen and N. Weiner.
Phys. Rev. D **89**, no.10, 103526 (2014)
[INSPIRE-HEP entry](#)
41. **“Exploring the Dark Side of the Top Yukawa”**
S. El Hedri, P. J. Fox and J. G. Wacker.
[INSPIRE-HEP entry](#)
42. **“Next-to-Leading Order Predictions for Dark Matter Production at Hadron Colliders”**
P. J. Fox and C. Williams.

- Phys. Rev. D **87**, no.5, 054030 (2013)
[INSPIRE-HEP entry](#)
43. **“Supersymmetry with a sister Higgs boson”**
D. S. M. Alves, P. J. Fox and N. Weiner.
Phys. Rev. D **91**, 055003 (2015)
[INSPIRE-HEP entry](#)
44. **“Search for the standard model Higgs boson decaying to a bb pair in events with two oppositely-charged leptons using the full CDF data set”**
T. Aaltonen *et al.* [CDF].
Phys. Rev. Lett. **109**, 111803 (2012)
[INSPIRE-HEP entry](#)
45. **“Higgs Signals in a Type I 2HDM or with a Sister Higgs”**
D. S. M. Alves, P. J. Fox and N. J. Weiner.
[INSPIRE-HEP entry](#)
46. **“Stops and \cancel{E}_T : The shape of things to come”**
D. S. M. Alves, M. R. Buckley, P. J. Fox, J. D. Lykken and C. T. Yu.
Phys. Rev. D **87**, no.3, 035016 (2013)
[INSPIRE-HEP entry](#)
47. **“Taking a Razor to Dark Matter Parameter Space at the LHC”**
P. J. Fox, R. Harnik, R. Primulando and C. T. Yu.
Phys. Rev. D **86**, 015010 (2012)
[INSPIRE-HEP entry](#)
48. **“A Search for dark matter in events with one jet and missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF].
Phys. Rev. Lett. **108**, 211804 (2012)
[INSPIRE-HEP entry](#)
49. **“Missing Energy Signatures of Dark Matter at the LHC”**
P. J. Fox, R. Harnik, J. Kopp and Y. Tsai.
Phys. Rev. D **85**, 056011 (2012)
[INSPIRE-HEP entry](#)
50. **“A CoGeNT Modulation Analysis”**
P. J. Fox, J. Kopp, M. Lisanti and N. Weiner.
Phys. Rev. D **85**, 036008 (2012)
[INSPIRE-HEP entry](#)

51. **“Simplified Models for LHC New Physics Searches”**
D. Alves *et al.* [LHC New Physics Working Group].
J. Phys. G **39**, 105005 (2012)
[INSPIRE-HEP entry](#)
52. **“An Effective Z”**
P. J. Fox, J. Liu, D. Tucker-Smith and N. Weiner.
Phys. Rev. D **84**, 115006 (2011)
[INSPIRE-HEP entry](#)
53. **“Higgs friends and counterfeits at hadron colliders”**
P. J. Fox, D. Tucker-Smith and N. Weiner.
JHEP **06**, 127 (2011)
[INSPIRE-HEP entry](#)
54. **“LEP Shines Light on Dark Matter”**
P. J. Fox, R. Harnik, J. Kopp and Y. Tsai.
Phys. Rev. D **84**, 014028 (2011)
[INSPIRE-HEP entry](#)
55. **“Supersymmetry and the MSSM”**
P. J. Fox.
56. **“Interpreting Dark Matter Direct Detection Independently of the Local Velocity and Density Distribution”**
P. J. Fox, G. D. Kribs and T. M. P. Tait.
Phys. Rev. D **83**, 034007 (2011)
[INSPIRE-HEP entry](#)
57. **“Integrating Out Astrophysical Uncertainties”**
P. J. Fox, J. Liu and N. Weiner.
Phys. Rev. D **83**, 103514 (2011)
[INSPIRE-HEP entry](#)
58. **“CP Violation in B_s Mixing from Heavy Higgs Exchange”**
B. A. Dobrescu, P. J. Fox and A. Martin.
Phys. Rev. Lett. **105**, 041801 (2010)
[INSPIRE-HEP entry](#)
59. **“The Tevatron at the Frontier of Dark Matter Direct Detection”**
Y. Bai, P. J. Fox and R. Harnik.
JHEP **12**, 048 (2010)
[INSPIRE-HEP entry](#)

60. **“Uplifted Supersymmetric Higgs Region”**
B. A. Dobrescu and P. J. Fox.
Eur. Phys. J. C **70**, 263-270 (2010)
[INSPIRE-HEP entry](#)
61. **“Dark Matter Self-Interactions and Light Force Carriers”**
M. R. Buckley and P. J. Fox.
Phys. Rev. D **81**, 083522 (2010)
[INSPIRE-HEP entry](#)
62. **“The Dark Side of the Electroweak Phase Transition”**
S. Das, P. J. Fox, A. Kumar and N. Weiner.
JHEP **11**, 108 (2010)
[INSPIRE-HEP entry](#)
63. **“Resonant Dark Matter”**
Y. Bai and P. J. Fox.
JHEP **11**, 052 (2009)
[INSPIRE-HEP entry](#)
64. **“Probing Dark Matter Dynamics via Earthborn Neutrinos at IceCube”**
C. Delaunay, P. J. Fox and G. Perez.
JHEP **05**, 099 (2009)
[INSPIRE-HEP entry](#)
65. **“Leptophilic Dark Matter”**
P. J. Fox and E. Poppitz.
Phys. Rev. D **79**, 083528 (2009)
[INSPIRE-HEP entry](#)
66. **“R-symmetric gauge mediation”**
S. D. Amigo, A. E. Blechman, P. J. Fox and E. Poppitz.
JHEP **01**, 018 (2009)
[INSPIRE-HEP entry](#)
67. **“Quark and lepton masses from top loops”**
B. A. Dobrescu and P. J. Fox.
JHEP **08**, 100 (2008)
[INSPIRE-HEP entry](#)
68. **“LHC and dark matter signals of improved naturalness”**
R. Enberg, P. J. Fox, L. J. Hall, A. Y. Papaioannou and M. Papucci.
JHEP **11**, 014 (2007)
[INSPIRE-HEP entry](#)

69. **“Bounds on Unparticles from the Higgs Sector”**
P. J. Fox, A. Rajaraman and Y. Shirman.
Phys. Rev. D **76**, 075004 (2007)
[INSPIRE-HEP entry](#)
70. **“Deciphering top flavor violation at the LHC with B factories”**
P. J. Fox, Z. Ligeti, M. Papucci, G. Perez and M. D. Schwartz.
Phys. Rev. D **78**, 054008 (2008)
[INSPIRE-HEP entry](#)
71. **“Reheating Metastable O’Raifeartaigh Models”**
N. J. Craig, P. J. Fox and J. G. Wacker.
Phys. Rev. D **75**, 085006 (2007)
[INSPIRE-HEP entry](#)
72. **“Visible Cascade Higgs Decays to Four Photons at Hadron Colliders”**
S. Chang, P. J. Fox and N. Weiner.
Phys. Rev. Lett. **98**, 111802 (2007)
[INSPIRE-HEP entry](#)
73. **“Naturalness and Higgs decays in the MSSM with a singlet”**
S. Chang, P. J. Fox and N. Weiner.
JHEP **08**, 068 (2006)
[INSPIRE-HEP entry](#)
74. **“Supersplit supersymmetry”**
P. J. Fox, D. E. Kaplan, E. Katz, E. Poppitz, V. Sanz, M. Schmaltz, M. D. Schwartz
and N. Weiner.
[INSPIRE-HEP entry](#)
75. **“The NMSSM, anomaly mediation and a Dirac bino”**
L. M. Carpenter, P. J. Fox and D. E. Kaplan.
[INSPIRE-HEP entry](#)
76. **“Probing a QCD string axion with precision cosmological measurements”**
P. Fox, A. Pierce and S. D. Thomas.
[INSPIRE-HEP entry](#)
77. **“Localized supersoft supersymmetry breaking”**
Z. Chacko, P. J. Fox and H. Murayama.
Nucl. Phys. B **706**, 53-70 (2005)
[INSPIRE-HEP entry](#)

78. **“Catastrophic decays of compactified space-times”**
M. Dine, P. J. Fox and E. Gorbatov.
JHEP **09**, 037 (2004)
[INSPIRE-HEP entry](#)
79. **“Visible effects of the hidden sector”**
M. Dine, P. J. Fox, E. Gorbatov, Y. Shadmi, Y. Shirman and S. D. Thomas.
Phys. Rev. D **70**, 045023 (2004)
[INSPIRE-HEP entry](#)
80. **“On the possibility of large axion decay constants”**
T. Banks, M. Dine, P. J. Fox and E. Gorbatov.
JCAP **06**, 001 (2003)
[INSPIRE-HEP entry](#)
81. **“Saxion emission from SN1987A”**
D. Arndt and P. J. Fox.
JHEP **02**, 036 (2003)
[INSPIRE-HEP entry](#)
82. **“Dirac gaugino masses and supersoft supersymmetry breaking”**
P. J. Fox, A. E. Nelson and N. Weiner.
JHEP **08**, 035 (2002)
[INSPIRE-HEP entry](#)
83. **“Extra! Extra!: Dimensions and symmetries”**
P. J. Fox.
84. **“Large extra dimensions from a small extra dimension”**
Z. Chacko, P. J. Fox, A. E. Nelson and N. Weiner.
JHEP **03**, 001 (2002)
[INSPIRE-HEP entry](#)
85. **“Wave function of the radion in the dS and AdS brane worlds”**
Z. Chacko and P. J. Fox.
Phys. Rev. D **64**, 024015 (2001)
[INSPIRE-HEP entry](#)
86. **“Weakly warped extra dimensions and SN1987A”**
P. J. Fox.
JHEP **02**, 022 (2001)
[INSPIRE-HEP entry](#)