Jonathan L. Feng

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Appointments

2006 Professor, University of California, Irvine.
2004 Associate Professor, University of California, Irvine.
2001 Assistant Professor, University of California, Irvine.
2000 Research Scientist, Massachusetts Institute of Technology.
1998 Member, Institute for Advanced Study, Princeton.
1995 Miller Research Fellow, University of California, Berkeley.

Education

1995 Stanford University, Stanford Linear Accelerator Center.
Ph.D. in Physics.
1990 Cambridge University, Trinity College.
M.A. in Mathematics, First Class Honours with Distinction.
1988 Harvard University.
A.B. in Physics, *summa cum laude*.

Awards

2018 Heinz R. Pagels Memorial Lecturer, Aspen Center for Physics.
2016 Fellow, American Association for the Advancement of Science.
2015 Simons Investigator.
2014 Guggenheim Fellowship.
2014 CERN Scientific Associate.
2012 Simons Fellowship in Theoretical Physics.
2011 Member, Phi Tau Phi Scholastic Honor Society of America.
2010 Heinz R. Pagels Memorial Lecturer, Aspen Center for Physics.
2007 Fellow, American Physical Society.
2006 Chancellor's Fellow, UC Irvine.
2006 Kavli Frontier Fellow, National Academy of Sciences.
2004 Sloan Research Fellowship.
2004 Outstanding Young Researcher Award, International Association of Chinese Physicists and Astronomers.
2004 Distinguished Assistant Professor Award for Research, UC Irvine Academic Senate.
2003 CAREER Award, National Science Foundation.
2001 Michelson Postdoctoral Prize in Physics.

1996 Visiting Fellowship, Japan Society for the Promotion of Science.
1994 Phi Beta Kappa Graduate Scholarship.
1993 Kirkpatrick Award for Excellence in Teaching, Stanford University.
1991 Concerto Competition Winner, Stanford University.
1990 National Science Foundation Graduate Fellowship.
1988 Marshall Scholarship.
1987 TIME College Achievement Award.
1987 Phi Beta Kappa.

Professional Activities

- American Physical Society
  Co-Convener, Cosmic Frontier, Community Planning Process and Snowmass 2013
  Member, Executive Committee, Division of Particles and Fields, 2011–13
  Chair and Vice Chair, Selection Committee, Sakurai Prize, 2013–15
  Member, Selection Committee, Sakurai Dissertation Award in Theoretical Particle Physics, 2011–12
- Aspen Center for Physics
  Treasurer, 2019–22
  Assistant Treasurer, 2017–19
  Member, 2012–present
  Chair and Member, Public Lectures and Dialogues, Admissions, and NSF Proposal Committees
- Symmetry Magazine, Member, Advisory Board, 2018–present
- Tsung-Dao Lee Institute, Shanghai, Member, International Advisory Committee, 2018–present
- Kavli Institute for Theoretical Physics, Santa Barbara, Co-Chair, Steering Committee and Advisory Board, 2010–14
- Physics Reports, Editor, 2014–present
- Nuclear Physics B, Advisory Editor, 2014–present
- Open Physics, Editor-in-Chief, 2011–18
- arXiv.org E-print Archive, hep-ph Moderator, 2003–17
- Annals of Physics, Editor, 2002–12
- Yodh Prize for Cosmic Ray Research, Secretary, Selection Committee, 2010–16
- National Research Council Decadal Survey on Astronomy and Astrophysics (Astro2010), Member, Cosmology and Fundamental Physics Panel, 2009–10
- DOE/NSF/NASA High Energy Physics Advisory Panel and Astronomy and Astrophysics Advisory Committee
  Member, Particle Physics Project Prioritization Panel (P5), 2013–14
  Member, DOE Office of High Energy Physics, Committee of Visitors, 2010
  Member, Dark Matter Scientific Assessment Group, 2006–07
  Member, Large Hadron Collider–International Linear Collider Subpanel, 2005

- Co-Convener, DOE Cosmic Visions Advisory Group, 2017
- Member, Provost and Executive Vice Chancellor Search Committee, UC Irvine, 2014–15
- Academic Senate, UC Irvine
  Member, Committee on Privilege and Tenure, 2010–12, 2013–14
  Member, Reserve Council on Academic Personnel, 2012–13, 2015–16
  Member, Committee on Committees, 2008–10, 2019–22
  Member, Council on Academic Personnel, 2007–08
- Department of Physics and Astronomy, UC Irvine
  Member, Executive Committee, 2017–present
  Founding Chair and Member, Awards Committee, 2016–present
  Founding Chair and Member, Reines Lecture Committee, 2014–present
  Member, Undergraduate Committee, 2006–10
  Chair, Faculty Search Committees, resulting in 10 faculty hires, 2004–present
- Advisory Council on Campus Climate, Culture, and Inclusion, UC Irvine
  Co-Founder, What Matters to Me and Why speaker series, 2012–present
  Member, Diversity, Inclusion, and Programming Workgroup, 2012–present
- Center for Cosmology, UC Irvine
  Member, Executive Board, 2005–10
  Co-chair of the faculty committee charged with creating a cosmology group, resulting in the appointment of four cosmologists, 2003–04
- American Linear Collider Physics Group
  Co-leader, Connections to Cosmology and Astrophysics Subgroup, 2003–07
  Co-leader, Supersymmetry Subgroup, 2000–07
  Co-leader, e^-e^- Subgroup, 2000–02
- Particle Data Group Collaboration
  Overseeing editor and co-author, Reviews of the Top Quark, Exotic Quarks, WIMPs and Other Particle Searches, 1996–2008
- Review Panels and Visiting Committees
  Visiting Committee, Fermilab, 2007; Visiting Committee, Kavli Institute for Cosmological Physics, Chicago, 2005; National Science Foundation; NASA
- Reviewer, Grant Proposals
  DOE, NSF, NASA, Simons Foundation, Research Corporation, Academia Sinica (Taiwan), Austrian Science Fund, Chilean National Science and Technology Commission, Israel Science Foundation, United States-Israel Binational Science Foundation, Netherlands Organization for Scientific Research, NSERC (Canada), Science and Technology Facilities Council (United Kingdom), Research Grants Council (Hong Kong), Swiss NSF, European Research Council (European Union)
- Reviewer, Journal Manuscripts
  Astroparticle Physics, Astrophysical Journal, European Physics Journal C, Journal of Cosmology and Astroparticle Physics, Journal of High Energy Physics, Journal of Physics A, Nuclear Physics B, Physical Review D, Physical Review Letters, Physics Letters A, Physics Letters B, Physics Reports, Reviews of Modern Physics

Recent Conference Organization

- Member, International Advisory Committee, 14th TeV Particle Astrophysics Conference (TeVPA19), Sydney, Australia, December 2019.
- Member, International Advisory Committee, 26th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY19), Corpus Christi, Texas, May 2019.
- Member, International Advisory Committee, 13th TeV Particle Astrophysics Conference (TeVPA18), Berlin, Germany, August 2018.
- Member, International Advisory Committee, 25th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY18), Barcelona, Spain, July 2018.
- Organizer, Simons Symposium: Illuminating Dark Matter, Schloss Elmau, Germany, May 2018.
- Member, International Advisory Committee, Origin of Mass at the High Energy and Intensity Frontier (MASS2018), CP^3 Origins, University of Southern Denmark, May 2018.
- Member, International Advisory Committee, 25th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY17), Mumbai, India, December 2017.
- Member, International Advisory Committee, 12th TeV Particle Astrophysics Conference (TeVPA17), The Ohio State University, August 2017.
- Member, International Advisory Committee, 11th TeV Particle Astrophysics Conference (TeVPA16), CERN, Geneva, September 2016.
- Member, International Advisory Committee, 24th Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY16), Melbourne, Australia, July 2016.
- Member, International Advisory Committee, 10th TeV Particle Astrophysics Conference (TeVPA15), Tokyo, Japan, October 2015.
- Member, International Advisory Committee, 23rd Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY15), Lake Tahoe, California, August 2015.
- Member, International Advisory Committee, 22nd Int'l Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY14), Manchester, England, July 2014.
- Member, International Advisory Committee, Astroparticle Physics: A Joint TeVPA/IDM Conference, Amsterdam, June 2014.
- Member, Organizing Committee, Neutrinos Beyond IceCube, Arlington, Virginia, April 2014.
- Member, International Advisory Committee, The 10th International Symposium on Cosmology and Particle Astrophysics (CosPA13), Hawaii, November 2013.
- Member, Organizing Committee, Community Summer Study on the Future of U.S. Particle Physics (Snowmass 2013), Minnesota, July–August 2013.

Teaching

- Physics and Astronomy Nominee, UCI Professor of the Year Award for Excellence in Undergraduate Teaching, 2017.
- Co-author, with J. Rosendahl, M. Dennin, and R. Newman, *Laboratory Manual for Physics 7L: Classical Physics*, Hayden-McNeil, Michigan, 2003-09 (1st-4th Editions), 2011-present (7LD 1st-2nd Editions).
- Kirkpatrick Teaching Award, 1993. Given annually to one Stanford doctoral candidate in physics for excellence in teaching.
- UC Irvine, Undergraduate Thesis Research Advised
  Melissa Tong, 2006-07, Award for Outstanding Undergraduate Research in Physics
  Michael Girard, 2010-11, Award for Outstanding Senior in Physics
- UC Irvine, Undergraduate Courses Taught and Instructor Evaluations
  Physics 7D: Electricity and Magnetism for Scientists and Engineers
  Spring 2003, 249 students, 3.8 of 4.0
  Physics 7Dm: Electricity and Magnetism for Physics Majors (course created in 2004)
  Spring 2004, 20 students, 3.7 of 4.0 ; Spring 2005, 20 students, 3.7 of 4.0
  Physics 7E: Waves, Sound, and Light
  Fall 2005, 262 students, 3.7 of 4.0 ; Winter 2007, 116 students, 3.6 of 4.0
  Physics 7Em: Waves, Sound, and Light for Physics Majors
  Fall 2006, 13 students, 3.9 of 4.0 ; Fall 2007, 22 students, 3.9 of 4.0
  Fall 2008, 18 students, 4.0 of 4.0 ; Fall 2010, 21 students, 3.8 of 4.0
  Physics 7LB: Classical Physics Laboratory
  Winter 2003, 680 students, 5.6 of 7.0 ; Winter 2004, 724 students, 6.2 of 7.0
  Physics 7LD: Classical Physics Laboratory
  Spring 2006, 663 students, 6.4 of 7.0 ; Spring 2007, 564 students, 4.4 of 7.0
  Spring 2012, 538 students, 6.0 of 7.0
  Physics 60: Thermal Physics
  Fall 2013, 32 students, 3.8 of 4.0 ; Fall 2014, 49 students, 3.8 of 4.0
  Fall 2015, 51 students, 3.8 of 4.0 ; Fall 2016, 63 students, 3.8 of 4.0
  Fall 2017, 69 students, 3.8 of 4.0 ; Fall 2018, 82 students, 3.9 of 4.0
  Physics H90: The Physics of Sound and Light (Campuswide Honors Program)
  Winter 2018, 46 students, 3.7 of 4.0 ; Winter 2019, 58 students, 3.7 of 4.0
  Physics 116: Relativity and Black Holes
  Fall 2013, 8 students, 4.0 of 4.0 ; Fall 2014, 25 students, 3.9 of 4.0
  Fall 2015, 23 students, 4.0 of 4.0 ; Fall 2016, 26 students, 3.7 of 4.0
  Physics 136: Introduction to Particle Physics
  Winter 2005, 2 students, 4.0 of 4.0 ; Winter 2006, 4 students, 3.8 of 4.0

- UC Irvine, Graduate Courses Taught and Instructor Evaluations
  Physics 234A: Elementary Particle Physics
  Winter 2009, 8 students, 4.0 of 4.0 ; Winter 2010, 6 students, 4.0 of 4.0
  Winter 2012, 6 students, 4.0 of 4.0
  Physics 234B: Advanced Elementary Particle Physics
  Spring 2009, 5 students, 3.9 of 4.0 ; Spring 2010, 7 students, 4.0 of 4.0
  Spring 2011, 3 students, 4.0 of 4.0 ; Spring 2012, 6 students, 4.0 of 4.0
  Physics 235A, 237A: Quantum Field Theory
  Fall 2002, 4 students, 3.9 of 4.0 ; Fall 2003, 4 students, 4.0 of 4.0
  Fall 2004, 7 students, 3.8 of 4.0

Outreach

- Interviewed for articles for the general public in web and print media, including Washington Post, Los Angeles Times, USA Today, National Geographic, Financial Times, Business Insider, Chinese World Journal, Wired, Nature, Science, Scientific American, New Scientist, Sky and Telescope, Popular Science, Nova, Symmetry Magazine, Quanta Magazine, Nautilus.
- Member, Advisory Board, Symmetry Magazine, 2018–present.
- Chair and Member, Reines Lecture Committee, Irvine, California, 2014–present.
- Lecturer, "Faster, Smaller, Cheaper: Discovering the Universe on a Shoestring Budget," Heinz R. Pagels Memorial Lecture, Aspen, Colorado, August 2018.
- Lecturer, "The Search for Dark Matter and Dark Sectors," Orange County Astronomers General Meeting, Fullerton, California, June 2018.
- Lecturer, "Exploring the Universe," Orange County Math Circle, 4th-12th grade students, Newport Beach, California, February 2018.
- Chair, Public Lectures and Dialogues Committee, Aspen Center for Physics, Aspen, Colorado, 2014, 2016.
- Two one-hour interviews for the "Do You Know Show," KUCI radio program, hosted by Calvin Gantt, December 2013 and January 2014.
- Member, Organizing Committee, A Celebration of the Discovery of the Higgs Boson and Recent Advances in Particle Physics, hosted by the U.S. House Science and National Labs Caucus, Washington, D.C., November 2013.
- Narrator for "Extra Dimensions," Ph.D. Comics animation, Jorge Cham, with Daniel Whiteson and Jonathan Feng, 2012.
- Author, "Exploring the Dark Universe," review of *The 4% Universe* by Richard Panek, *American Scientist*, January-February 2012.
- Lecturer, "Dark Matter: WIMPs and Beyond," Science Forum Lecture Series, Chapman University, December 2011.
- Lecturer, "Dark Matter," TASI Public Lecture, Boulder, Colorado, June 2011.
- Narrator for "Dark Matters," Ph.D. Comics animation, Jorge Cham, with Daniel Whiteson and Jonathan Feng, 2011.
- Author, "Dark Worlds," Jonathan Feng and Mark Trodden, cover article for *Scientific American*, November 2010, one of three issues for which *Scientific American* was named Winner of the 2011 National Magazine Award in the category of Finance, Technology, and Lifestyle Magazines.
- Interviewed for Grassroots TV, Aspen, Colorado, 2010.
- Lecturer, "What's the Matter? The Search for Clues in our Cold, Dark Universe," Heinz R. Pagels Memorial Lecture, Aspen, Colorado, 2010.
- Lecturer, "The Quantum Universe," Inside Edge, Irvine, 2009.
- Lecturer, "The Large Hadron Collider: Earth-Eating Black Holes and Other Tall Tales," University Club Forum, Irvine, 2009.

- Lecturer, "Discovering a New Universe at the Smallest Scales," Osher Lifelong Learning Institute, Irvine, 2008.
- Lecturer, "Discovering the Quantum Universe," UC Irvine School of Physical Sciences Breakfast Series, 2006.
- Lecturer, "Einstein, String Theory, and the Future," in celebration of *Einstein*, an exhibit organized by the Skirball Cultural Center, Los Angeles the American Museum of Natural History, New York, and The Hebrew University of Jerusalem, 2005.
- Mentor, Career Day, McFadden Intermediate School, Santa Ana, 2005.
- Lecturer, UC Irvine Distinguished Professor Lectures, 2004.
- Lecturer, UC Irvine Executive Roundtable Retreat, 2004.
- Lecturer, "Black Holes, Dark Matter, and the Search for Extra Dimensions," UC Irvine School of Physical Sciences Breakfast Series, 2004.
- After Dinner Speaker, Orange County Sigma Xi Meeting, 2004.
- Faculty Mentor, UC Irvine QuarkNet, 2001-07. Designed and led Summer 2002 Associate Teachers Institute and follow-up meetings to introduce high school teachers and their students to frontier research in high energy physics.
- Invited Contributor, *The Macmillan Encyclopedia of Physics, Elementary Particle Physics*, 2002.
- Michelson Postdoctoral Prize Lectures, 2001. Awarded annually to one junior scholar active in any field of physics for excellence in science and science communication.

Selected Recent and Upcoming Presentations

Jonathan L. Feng

- What Tools are Critical for Progress?, Cosmic Controversies, Kavli Institute for Cosmological Physics, Chicago, October 2019
- Opening Theory Talk, New Physics with Exotic and Long-Lived Particles, Joint ICISE-CBPF Workshop, Quy Nhon, Vietnam, July 2019
- FASER: ForwArd Search ExpeRiment, SUSY 2019, Texas A&M, Corpus Christi, May 2019
- Faster, Smaller, Cheaper: FASER and New Particle Searches on the Lifetime Frontier, Physics Department Colloquium, University of Washington, Seattle, April 2019
- FASER, PITT-PACC Workshop: BSM Circa 2020, University of Pittsburgh, March 2019
- FASER: Forward Search Experiment at the LHC, Annual Theory Meeting, National Center for Theoretical Science, Taiwan, December 2018
- FASER: Forward Search Experiment at the LHC, Physics Beyond Colliders Working Group Meeting, CERN, Geneva, June 2018
- Lifetime Frontier Experiments at the LHC, Simons Symposium: Illuminating Dark Matter, Schloss Elmau, Germany, May 2018
- Summary Talk: The Path Forward, Dark Matter Detection and Detectability: Paradigm Confirmation or Shift?, KITP, Santa Barbara, California, May 2018
- FASER and Other Outposts on the Lifetime Frontier, New Probes for Physics Beyond the Standard Model, KITP, Santa Barbara, California, April 2018
- MSSM4G: Motivations and Allowed Regions, ATLAS SUSY Working Group Meeting, January 2018
- Theory in the LHC Era, ICFA Seminar, Ottawa, Canada, November 2017
- FASER: ForwArd Search ExpeRiment at the LHC, Workshop on WIMP Dark Matter and Beyond, Shanghai Jiao Tong University, China, September 2017
- The Future of Dark Matter and Dark Forces, Symposium on the Future of Physics and Astronomy, T. D. Lee Institute, Shanghai, China, September 2017
- Dark Matter—Theory, Cosmic Opportunities, SLAC Summer Institute, August 2017
- Dark Matter and the Search for a Fifth Force, Physics and Astronomy Department Colloquium, University of Kentucky, April 2017
- Dark Matter and the Search for a Fifth Force, Physics and Astronomy Department Colloquium, Vanderbilt, April 2017
- Opening Plenary Talk: DM at the LHC, Dark Matter at the Large Hadron Collider Workshop, UC Irvine, April 2017
- New Candidates, Targets, and Complementarity, New Ideas in Dark Matter, Maryland, March 2017

- The Beryllium Anomaly and New Physics, New Physics at the Intensity Frontier, CERN, Geneva, February 2017
- The Search for New Fundamental Forces, Physics and Astronomy Department Colloquium, University of Victoria, Canada, February 2017
- The Search for New Fundamental Forces, Colloquium, TRIUMF, Vancouver, Canada, February 2017
- The Beryllium Anomaly and New Physics, Elusives Network Webinar, Europe, November 2016
- Evidence for a Protophobic 5th Force from Beryllium-8 Nuclear Transitions, Symmetry Tests in Nuclei and Atoms, KITP, Santa Barbara, California, September 2016
- Evidence for a Protophobic 5th Force, Mitchell Workshop on Collider, Dark Matter and Neutrino Physics, Texas A&M, May 2016
- Complementarity of Indirect Dark Matter Detection, AMS Days at CERN—The Future of Cosmic Ray Physics and Latest Results, April 2015
- Dark Matter and the LHC, Munich Physics Colloquium, July 2014
- Particle Physics and Cosmology, European School of High-Energy Physics, Garderen, The Netherlands, June 2014
- The Dark Sector, Astroparticle Physics: A Joint TeVPA/IDM Conference, Amsterdam, June 2014
- WIMPs: An Overview, Current Constraints, and WIMP-like Extensions, 8th Sackler Conference in Theoretical Astrophysics, Harvard, May 2014
- Dark Matter and the LHC, Colloquium, Physics Department, Technion, Israel, April 2014
- Snowmass Cosmic Frontier, P5 Workshop on the Future of High Energy Physics, Fermilab, November 2013
- Dark Matter and Its Particle Properties, Dark Matter in Southern California II (DaMaSC II), Keck Institute for Space Studies, Caltech, September 2013
- Cosmic Frontier, HEPAP Meeting, Washington, D.C., September 2013
- Xenophobic Dark Matter, Dark Matter Workshop, Aspen Center for Physics, August 2013
- SUSY Now, Dark Matter Workshop, Aspen Center for Physics, August 2013
- Cosmic Frontier Summary, Community Planning Meeting (Snowmass 2013), Minnesota, July-August 2013
- Goals, Agenda, Deliverables, Opening plenary talk of the Cosmic Frontier Workshop, SLAC, March 2013
- Dark Matter from the Early Universe and Particle Physics Candidates, Dark Matter Universe: On the Threshold of Discovery, Sackler Colloquium, National Academy of Sciences, Irvine, October 2012
- Dark Matter, SLAC: The Next 50 Years, Scientific Symposium Celebrating the 50th Anniversary of SLAC, Stanford, August 2012

List of Publications

Jonathan L. Feng

17,000 citations, $h = 73$ (INSPIRE, June 2019, excluding Reviews of Particle Physics)

149. FASER: ForwArd Search ExpeRiment at the LHC, submitted as input to the European Strategy for Particle Physics Update 2018-20, FASER Collaboration, A. Ariga *et al.*, including J. L. Feng, arXiv:1901.04468 [hep-ex].

148. Technical Proposal for FASER: ForwArd Search ExpeRiment at the LHC, FASER Collaboration, A. Ariga *et al.*, including J. L. Feng, arXiv:1812.09139 [physics.ins-det].

147. FASER's Physics Reach for Long-Lived Particles, FASER Collaboration, A. Ariga *et al.*, including J. L. Feng, arXiv:1811.12522 [hep-ph].

146. Letter of Intent for FASER: ForwArd Search ExpeRiment at the LHC, FASER Collaboration, A. Ariga *et al.*, including J. L. Feng, arXiv:1811.10243 [physics.ins-det].

145. ALPs at FASER: The LHC as a Photon Beam Dump, J. L. Feng, I. Galon, F. Kling, S. Trojanowski, Phys. Rev. **D98**, 055021 (2018), arXiv:1806.02348 [hep-ph].

144. FASER and the Search for Light, Weakly-Interacting Particles, J. L. Feng, in *Proceedings of the Simons Symposium on Illuminating Dark Matter*, Schloss Elmau, Germany, 13-19 May 2018, eds. R. Essig, J. L. Feng, K. Zurek (Springer, Berlin, 2019).

143. Dark Higgs Bosons at FASER, J. L. Feng, I. Galon, F. Kling, S. Trojanowski, Phys. Rev. **D97**, 055034 (2018), arXiv:1710.09387 [hep-ph].

142. FASER: ForwArd Search ExpeRiment at the LHC, J. L. Feng, I. Galon, F. Kling, S. Trojanowski, Phys. Rev. **D97**, 035001 (2018), arXiv:1708.09389 [hep-ph].

141. Impact of Resonance on Thermal Targets for Invisible Dark Photon Searches, J. L. Feng, J. Smolinsky, Phys. Rev. **D96**, 095022 (2017), arXiv:1707.03835 [hep-ph].

140. Particle Physics Models for the 17 MeV Anomaly in Beryllium Nuclear Decays , J. L. Feng, B. Fornal, I. Galon, S. Gardner, J. Smolinsky, T. M. P. Tait, P. Tanedo, Phys. Rev. **D95**, 035017 (2017), arXiv:1608.03591 [hep-ph].

139. Heavy Bino Dark Matter and Collider Signals in the MSSM with Vector-like 4th-Generation Particles, M. Abdullah, J. L. Feng, B. Lillard, S. Iwamoto, Phys. Rev. **D94**, 095018 (2016), arXiv:1608.00283 [hep-ph].

138. Protophobic Fifth Force Interpretation of the Observed Anomaly in ^{8}Be Nuclear Transitions, J. L. Feng, B. Fornal, I. Galon, S. Gardner, J. Smolinsky, T. M. P. Tait, P. Tanedo, Phys. Rev. Lett. **117**, 071803 (2016), arXiv:1604.07411 [hep-ph].

137. Dark Sunshine: Detecting Dark Matter through Dark Photons from the Sun, J. L. Feng, J. Smolinsky, P. Tanedo, Phys. Rev. **D93**, 115036 (2016), arXiv:1602.01465 [hep-ph].

136. MSSM4G: Reviving Bino Dark Matter with Vector-like 4th Generation Particles, M. Abdullah, J. L. Feng, Phys. Rev. **D93**, 015006 (2016), arXiv:1510.06089 [hep-ph].

135. Dark Photons from the Center of the Earth: Smoking-Gun Signals of Dark Matter, J. L. Feng, J. Smolinsky, P. Tanedo, Phys. Rev. **D93**, 015014 (2016), arXiv:1509.07525 [hep-ph].

134. Long-Lived Sleptons at the LHC and a 100 TeV Proton Collider, J. L. Feng, S. Iwamoto, Y. Shadmi, S. Tarem, JHEP **12**, 166 (2015), arXiv:1505.02996 [hep-ph].

133. SIMPle Dark Matter: Self-Interactions and keV Lines, K. K. Boddy, J. L. Feng, M. Kaplinghat, Y. Shadmi, T. M. P. Tait, Phys. Rev. **D90**, 095016 (2014), arXiv:1408.6532 [hep-ph].

132. Self-Interacting Dark Matter from a Non-Abelian Hidden Sector, K. K. Boddy, J. L. Feng, M. Kaplinghat, T. M. P. Tait, Phys. Rev. **D89**, 115017 (2014), arXiv:1402.3629 [hep-ph].

131. Isospin-Violating Dark Matter Benchmarks for Snowmass 2013, J. L. Feng, J. Kumar, D. Marfatia, D. Sanford, in *Proceedings of the Community Summer Study on the Future of U.S. Particle Physics (Snowmass 2013)*, Minnesota, 29 July – 6 August 2013, arXiv:1307.1758 [hep-ph].

130. Three-Loop Corrections to the Higgs Boson Mass and Implications for Supersymmetry at the LHC, J. L. Feng, P. Kant, S. Profumo, D. Sanford, Phys. Rev. Lett. **111**, 131802 (2013), arXiv:1306.2318 [hep-ph].

129. Xenophobic Dark Matter, J. L. Feng, J. Kumar, D. Sanford, Phys. Rev. **D88**, 015021 (2013), arXiv:1306.2315 [hep-ph].

128. Dark Matter in the Coming Decade: Complementary Paths to Discovery and Beyond, D. Bauer *et al.*, including J. L. Feng, Phys. Dark Univ. **7-8**, 16 (2015), arXiv:1305.1605 [hep-ph].

127. Dark Matter Detection in Focus Point Supersymmetry, P. Draper, J. L. Feng, P. Kant, S. Profumo, D. Sanford, Phys. Rev. **D88**, 015025 (2013), arXiv:1304.1159 [hep-ph].

126. Naturalness and the Status of Supersymmetry, J. L. Feng, Ann. Rev. Nucl. Part. Sci. **63**, 351 (2013), arXiv:1302.6587 [hep-ph].

125. Dark Matter and Indirect Detection in Cosmic Rays, J. L. Feng, in *Proceedings of Centenary Symposium 2012: Discovery of Cosmic Rays*, Denver, Colorado, June 2012, arXiv:1211.3116 [astro-ph.HE].

124. Confluence of Constraints in Gauge Mediation: The 125 GeV Higgs Boson and Goldilocks Cosmology, J. L. Feng, Z. Surujon, H.-B. Yu, Phys. Rev. **D86**, 035003 (2012), arXiv:1205.6480 [hep-ph].

123. A Natural 125 GeV Higgs Boson in the MSSM from Focus Point Supersymmetry with A-Terms, J. L. Feng, D. Sanford, Phys. Rev. **D86**, 055015 (2012), arXiv:1205.2372 [hep-ph].

122. Focus Point Supersymmetry Redux, J. L. Feng, K. T. Matchev, D. Sanford, Phys. Rev. **D85**, 075007 (2012), arXiv:1112.3021 [hep-ph].

121. WIMPless Dark Matter from an AMSB Hidden Sector with No New Mass Parameters, J. L. Feng, V. Rentala, Z. Surujon, Phys. Rev. **D85**, 055003 (2012), arXiv:1111.4479 [hep-ph].

120. WIMPless Dark Matter in Anomaly-Mediated Supersymmetry Breaking with Hidden QED, J. L. Feng, V. Rentala, Z. Surujon, Phys. Rev. **D84**, 095033 (2011), arXiv:1108.4689 [hep-ph].

119. B's with Direct Decays: Tevatron and LHC Discovery Prospects in the $b\bar{b} + \not{E}_T$ Channel, J. Alwall, J. L. Feng, J. Kumar, S. Su, Phys. Rev. **D84**, 074010 (2011), arXiv:1107.2919 [hep-ph].

118. Isospin-Violating Dark Matter, J. L. Feng, J. Kumar, D. Marfatia, D. Sanford, Phys. Lett. **B703**, 124 (2011), arXiv:1102.4331 [hep-ph].

117. WIMPless Dark Matter from Non-Abelian Hidden Sectors with Anomaly-Mediated Supersymmetry Breaking, J. L. Feng, Y. Shadmi, Phys. Rev. **D83**, 095011 (2011), arXiv:1102.0282 [hep-ph].

116. Heart of Darkness: The Significance of the Zeptobarn Scale for Neutralino Direct Detection, J. L. Feng, D. Sanford, JCAP **05**, 018 (2011), arXiv:1009.3934 [hep-ph].

115. Sommerfeld Enhancements for Thermal Relic Dark Matter, J. L. Feng, M. Kaplinghat and H.-B. Yu, Phys. Rev. **D82**, 083525 (2010), arXiv:1005.4678 [hep-ph].

114. Light Gravitinos at Colliders and Implications for Cosmology, J. L. Feng, M. Kamionkowski, S. K. Lee, Phys. Rev. **D82**, 015012 (2010), arXiv:1004.4213 [hep-ph].

113. Dark Matter Candidates from Particle Physics and Methods of Detection, J. L. Feng, Ann. Rev. Astron. Astrophys. **48**, 495 (2010), arXiv:1003.0904 [astro-ph.CO].

112. Non-WIMP Candidates, J. L. Feng, Chapter 10 in *Particle Dark Matter: Observations, Models and Searches*, edited by G. Bertone (Cambridge University Press, 2010), arXiv:1002.3828 [hep-ph].

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