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Academic Faculty Positions:

5/2022–present:	Chancellor's Professor of Physics & Astronomy, UC Irvine
7/2019–7/2023:	Chair, Department of Physics & Astronomy, UC Irvine
7/2017–9/2019:	Vice-Chair of Graduate Studies, Physics & Astronomy, UC Irvine
7/2013–5/2022:	Professor, Department of Physics & Astronomy, UC Irvine
7/2011–5/2013:	Associate Professor, Dept. of Physics & Astronomy, UC Irvine
7/2009–7/2011:	Assistant Professor, Dept. of Physics & Astronomy, UC Irvine
9/2007–6/2009:	Assistant Professor, Department of Physics & Astronomy, Northwestern University
10/2004–6/2009:	Assistant Physicist, HEP Division, Argonne National Laboratory

Post-doctoral Positions:

9/2002–9/2004:	Research Associate, Theoretical Physics group, Fermi National Accelerator Laboratory
6/1999–8/2002:	Research Associate, HEP Division, Argonne National Laboratory

Education:

1999:	Ph.D. Physics, Michigan State University Advisor: C.–P. Yuan
1995:	M.Sc.. Physics, Michigan State University
1993:	B.Sc. Physics, with honors, Summa cum laude, University of California, San Diego

Awards and Fellowships:

2024:	Fellow, American Association for the Advancement of Science.
2019:	Distinguished Mid-Career Faculty Award for Research, UC Irvine.
2019:	Mentorship Award, Division of Particles and Fields of the American Physical Society.
2017:	Van der Waals Professor, University of Amsterdam
2017:	Kavli Frontier Fellow, National Academy of Sciences.
2016:	Friedrich Wilhelm Bessel Fellow, Alexander von Humboldt Foundation
2013:	Fellow, American Physical Society
2013 – 2016:	Chancellor's Fellow Professor, UC Irvine
1999:	Degree Completion Fellowship, Michigan State University
1993-1996:	Michigan State University, Herbert T. Graham Scholar
1989:	University of California, Regents, Merit, and Elizabeth Irvine Memorial Scholar

Grants:

2025-2028:	*Theoretical Particle Physics and Cosmology at UC Irvine* (PI) $990,000 (3 years for 3 PIs) funded by the NSF as PHY-2514888.
2022-2025:	*Theoretical Particle Physics and Cosmology at UC Irvine* (PI) $2,460,000 (3 years for 8 PIs) funded by the NSF as PHY-2210283.
2019-2021	*Advancing Faculty Diversity in the UC Irvine School of Physical Sciences* (co-PI) $500,000 from the UC Office of the President.
2019-2022:	*Theoretical Particle Physics and Cosmology at UC Irvine* (PI) $2,130,000 (3 years for 7.66 PIs) funded by the NSF as PHY-1915005.
2016-2019:	*Particle Physics and Cosmology in the LHC Era* (co-PI) $1,900,000 (7 PIs) funded by the NSF as PHY-1620638.
2013-2016:	*Particle Physics and Cosmology in the LHC Era* (co-PI) $1,485,000 (3 years for 5 PIs + 1 year for 2 PI's) funded by the NSF as PHY-1316792.
2010-2013:	*Unravelling the Nature of Dark Matter and EWSB at Colliders* (PI) $150,000 + $ 30,000 (3 years) funded by the NSF as PY-0970171.
2009:	*Unravelling the Nature of EWSB and Dark Matter at Colliders* (PI) $50,000 (one year) funded by the DOE Outstanding Junior Investigator program. (Award relinquished upon leaving Northwestern).

Media and Public References:

41. *The Universe on Pause*
New Scientist, September 15, 2025.

40. *Dark Matter Could Be Hiding Out as Atom-Sized Black Holes*
Scientific American, September 24, 2024.

39. *Helium in Distant Galaxies May Help Explain Why the Universe Exists*
Scientific American and The Conversation US, July 28, 2023.

38. *Primordial Black Holes May Have 'Frozen' the Early Universe*
Universe Today, space.com, and phys.org, April 13, 2023.

37. *Physicists Call For Support of Black Studies, LGBTQ+ Visibility*
People of Color in Tech, March 2, 2023.

36. *Dark matter's Last Stand*
Scientific American, April 1, 2021.

35. *Breaking New Ground in the Search for Dark Matter* CERN News, August, 2020.

34. *The Fifth Force* (in German) Spektrum der Wissenschaft, July, 2020.

33. *Strike4BlackLives* (https://www.particlesforjustice.org)
Covered in CBC News, Fox News, New York Times, Chicago Tribune, Nature, Science, Scientific American, Physics Today, Gizmodo, Symmetry Magazine, June, 2020.

32. *A Huge Cloud of Invisible Particles seems to be Missing from the Milky Way*, Livescience.com, April 13, 2020.

31. *How Close are We to Finding Dark Matter?*, seeker.com, March 28, 2019.

30. *Secrets of Dark Matter* (in Polish), Urania - Postepy Astronomii, February 25, 2019.

29. *Particles for Justice* (https://www.particlesforjustice.org)
Covered in CBC News, The Guardian, BBC, Wired, New Scientist, Gizmodo, The Wire, The Independent, La Republica (Italian), de Volksrant (Dutch), October, 2018.

28. *Physiker beleidigt Kolleginnen und wird suspendiert* (in German)
Der Spiegel, October 2, 2018.

27. *WIMP Alternatives Come Out of the Shadows* APS Physics, 2018.

26. *Dark Matter Recipe Calls for One Part Superfluid* Quanta Magazine, 2017.

25. *In Search for Unseen Dark Matter, Physicists turn to Shadow Realm* Science, 2017.

24. *Answers to the Biggest Mysteries May Lie Well Outside Traditional Paradigms*, Nautilus Magazine, 2017.

23. *Evidence for a Fifth Force of Nature?* Radio interviews on: NPR Take Two, The Bill Kelly Show, Sputnik News, 2016.

Media and Public References, continued:

22. *Has a Hungarian Physics Lab Found a Fifth Force of Nature?* LA Times, Nature News, Scientific American, Popular Science, Rai Scienze, Quanta Magazine, Nautilus Magazine, National Post, Mother Jones, weather.com, IFLScience, 2016–2017.

21. *Last Call: Will WIMPs Show Their Faces in the Latest Dark Matter Experiment?* Scientific American, February 1, 2016.

20. *LHC Might Soon See Hints of a New Quark Dark Matter Particle*, New Scientist, December, 2015.

19. *One Higgs is the Loneliest Number*, Symmetry Magazine, July 30, 2015.

18. *Miraculous WIMPs*, Symmetry Magazine, July 15, 2015.

17. *How the Experiment that Claimed to Detect Dark Matter Fooled Itself*, Medium.com, July 17, 2014.

16. *Searching High and Low for Dark Matter*, The Kavli Foundation, Scientific Computing, The Daily Galaxy, and Space.com, April 8, 2014.

15. *Science of the Big Bang Theory*, ASUCI Event, February 20, 2014.

14. *Four things you might not know about Dark Matter*, Symmetry Magazine, December 17, 2013.

13. *Bravo UCI: Eight Professors Celebrate Collaboration for the Nobel Prize*, OC Register, October 25, 2013.

12. *Chapman University Affiliate wins Physics Nobel Prize*, OC Register and OC Weekly, October 8, 2013.

11. *Scientists Celebrate their Roles in Physics Nobel* UCIrvine News, October 8, 2013.

10. *Hunting for the Dark Universe*, Physics Slam on Ice, Minneapolis, August 2, 2013.

9. *Hard Times for Theorists in a Post-Higgs World*, ScienceNews.org, June 29, 2013.

8. *Why Look for the Higgs?*, Public Lecture at SLAC/Youtube video/SLAC Today, June 18 2012 .

7. *Recontres de Moriond QCD 2012: Searches for Dark Matter, SUSY and other exotic particles*, CERN bulletin, March 5 2012.

6. *Dark Matter from a Fourth Dimension*, Through the Wormhole with Morgan Freeman (Science Channel), aired June 2011.

5. *Kuka Pyydystää Higgsin?* (in Finnish), Tähdet Ja Avaruus Magazine, May 2010.

4. *Higgs in Space: Orbiting telescope could beat LHC*, New Scientist, issue 2738, December 2009 .

Media and Public References, continued:

3. *Big Ideas, Small particles*, Science in Society Online Magazine, November 2008.

2. *The Truth about the Top Quark*,
Interactions.org and Fermilab Today, September 9, 2004.

1. *It's an Echo from the Fifth Dimension*, New Scientist, issue 2350, July 2002 .

Academic Service:

- Chair, UC Irvine Department of Physics and Astronomy, 2019 - 2023.
- Vice-chair of Graduate Studies, UC Irvine Department of Physics and Astronomy, 2017 - 2019.
- Council on Academic Personnel, UC Irvine, 2018.
- UC Systemwide Assembly, 2015-2017.
- Reviewer (off-site and on-site review), UC Presidential Postdoc Fellowships, 2017-2024.
- Academic Program Review, Physics & Astronomy, Wayne State University, 2021.

Selected Professional Service:

- Committee Member, EPP 2024: Progress & Promise, National Academies of Science, Engineering, and Medicine, 2022-2025.
- Committee Member, Fermi National Accelerator Laboratory Physics Advisory Committee, 2025-2027.
- Scientific Advisory Board, Neutrino Theory Network, US Department of Energy, 2025-present.
- Cosmic Frontier Convener, Snowmass 2021 Community Study, 2020-2022.
- Department of Energy, High Energy Physics Committee of Visitors, 2016 & 2020.
- Department of Energy: Dark Sector Basic Research Needs Panel Core Member, 2018.
- General Member, Aspen Center for Physics, 2018 - present.
- Member-at-Large, American Association for the Advancement of Science, 2018 - 2022.
- Program Committee, DPF, American Physical Society, 2018 - 2021.
- Fellow Selection Committee, DPF, American Physical Society, 2017.
- Sakurai Dissertation Prize Selection Committee, Division of Particles & Fields, American Physical Society, 2014 - 2016.
- Mentorship Award Committee, Division of Particles & Fields, American Physical Society, 2022 & 2023.
- Convener, Dark Matter at the LHC Working Group, 2016 - present.
- International Advisory Board, Mainz Institute for Theoretical Physics, 2018 - present.
- Scientific Advisory Board, Theoretical Advanced Study Institute (TASI), 2017 - 2023.
- Advisory Board Member, Kavli Institute for Theoretical Physics, 2019 - 2022.
- External Scientific Advisory Committee, VERITAS Experiment, 2013 - 2021.
- External Chair for Faculty Search Committee, TRIUMF, Canada, 2017.
- External grant reviewer for the NSF, DOE, NSERC (Canada), ERC (EU), Science and Technology Facilities Council (UK), ISF (Israel), Humboldt (Germany), KAW (Sweden), Dutch Research Council (Holland), and Université Paris Cité (France).

Service to Professional Journals:

- Editorial Fellow, Scipost Physics, 2019–present.
- Editor-in-Chief, "Physics of the Dark Universe" Journal, 2017 – 2019.
- Editor, "Physics of the Dark Universe" Journal, 2012 – 2017.

Conference Organization:

- Co-organizer, "Progress After Impasse: New Frontiers in Dark Matter", Aspen Center for Physics 2019.
- Co-Director, TASI-2011: The Dark Secrets of the Terrascale.
- Primary Organizer, DM@LHC, 2017, Irvine, CA.
- Organizer, TeV Particle Astrophysics Conference, August 25 - 28, 2013.
- Co-organizer, MITP Workshop "LHC First Results", June 27 - July 27, 2016.
- Co-convener : "Experimental Challenges for the LHC Run II : Exotic Physics", Kavli Institute for Theoretical Physics, May 8 - 21, 2016.
- Co-organizer, MITP Workshop "Effective Theories and Dark Matter", March 16-27, 2015.
- International Program Advisory Committee for the International Conference on Cosmic Rays (ICRC), DM@LHC, and TeV Particle Astrophysics conferences.
- Co-convener, Dark Matter Session of CIPANP, May 19 - 24, 2015.
- Organizer, "Snowmass on the Pacific" Meeting, KITP, 2013.
- Co-convener, Snowmass Cosmic Frontier subgroup 1: Direct Detection, 2012-2013.
- Co-organizer, "The LHC Shows the Way", Aspen Center for Physics 2012.
- Organizer, Argonne Theory Institute 2000, 2001, 2002, 2005, 2006, and 2009.
- Working Group Convener: TeV4LHC, Snowmass 05, ALCW 2006, DPF 2006, and ILCW 06, 07, & 12 Workshops.
- Co-organizer, CERN-Fermilab Summer School for Hadron Collider Physics 2008.
- Organizer, Workshop on Toplogies for Early LHC Searches, SLAC 2010.

Publications:

148. *Elementary Particle Physics: The Higgs and Beyond*
(with M. Spiropulu et al) National Academies of Sciences, Engineering and Medicine (2025).

147. *Primordial Black Holes and their Mass Spectra: The Effects of Mergers and Accretion within Stasis Cosmologies*
(with K. Dienes, L. Heurtier, F. Huang, and B. Thomas),
Phys. Rev. **D112** 8, 083547 (2025) [2510.06551].

146. *Thermal History of Non-equilibrated Scalars*
(with V. Knapp-Perez, G. Mohlabeng, M. Ratz), submitted to JCAP [2507.21523].

145. *t-channel dark matter at the LHC*
(with C. Arina et al), Eur. Phys. J. **C85** 975 (2025) [2504.10597].

144. *Leptogenesis During an Era of Early SU(2) Confinement*
(with I. Bhalla-Ladd and I. Ginnett), Phys. Rev. **D112** 7, 075011 (2025) [2412.00180].

143. *Strong Constraints on Dark Photon and Scalar Dark Matter Decay from INTEGRAL and AMS-02*
(with T. Linden, I. John, and T.T.Q. Nguyen), submitted to PRD [2412.00180].

142. *What If We Never Find Dark Matter?*
(with T. Slatyer), Scientific American, September 2024.

141. *X-Ray Constraints on Dark Photon Tridents*
(with T. Linden and T.T.Q. Nguyen), Phys. Rev. **D112** 2, (2025) 023026 [2406.19445].

140. *Cosmological Stasis from Dynamical Scalars: Tracking Solutions and the Possibility of a Stasis-Induced Inflation*
(with K. Dienes, L. Heurtier, F. Huang, and B. Thomas),
Phys. Rev. **D110** 12, (2024) 123514 [2406.06830].

139. *Radiative Corrections to Light Thermal Pseudo-Dirac Dark Matter*
(with G. Mohlabeng and A. Mondol), Phys. Rev. **D111** 5, (2025) 056003 [2405.08881].

138. *Constraints on Variation of the Weak Scale from Big Bang Nucleosynthesis*
(with A. Burns, V. Keus, and M. Sher),
Phys. Rev. **D109** 12, (2024) 123506 [arXiv:2402.08626].

137. *Indirect Searches for Dark Photon-Photon Tridents in Celestial Objects*
(with T. Linden and T.T.Q. Nguyen), submitted to PRD [arXiv:2402.01839].

136. *Conserved Currents are Not Anomaly-Safe*
(with T. Smith), [arXiv:2401.02483].

135. *Hadronic Mono-W' Probes of Dark Matter at Colliders*
(with R. Holder, J. Reddick, M. Cremonesi, D. Berry, K. Cheng, M. Low, and D. Whiteson), JHEP **06** 208 (2024) [arXiv:2311.13578].

134. *Stasis, Stasis, Triple Stasis*
(with K. Dienes, L. Heurtier, F. Huang, and B. Thomas),
Phys. Rev. **D109** 8, 083508 (2024) [arXiv:2309.10345].

133. *PRyMordial: The First Three Minutes, Within and Beyond the Standard Model*
(with A. Burns and M. Valli), EPJ **C84**, 86 (2024) [arXiv:2307.07061].

132. *Bounds on Long-lived Dark Matter Mediators from Neutron Stars*
(with T.T.Q. Nguyen), Phys. Rev. **D107** 11, 115016 (2023) [arXiv:2212.12547].

131. *Primordial Black Holes Place the Universe in Stasis*
(with K. Dienes, L. Heurtier, F. Huang, D. Kim, and B. Thomas),
Phys. Rev. **D112** 8, 083546 (2025) [arXiv:2212.01369].

130. *Snowmass Cosmic Frontier Report*
(with A. Chou, M. Soares-Santos, et al),
Snowmass 2022 Summer Study [arXiv:2211.09978].

129. *Statistical Patterns of Theory Uncertainties*
(with A. Ghosh, B. Nachman, T. Plehn, L. Shire, and D. Whiteson),
SciPost Physics Core **6**, 045 (2023) [arXiv:2210.15167].

128. *Probing $g-2$ at a Future Muon Collider*
(with J. Arakawa, A. Rajaraman, and T. Sui),
SciPost Physics **16**, 072 (2024) [arXiv:2208.14464].

127. *Indications for a Non-Zero Lepton Asymmetry*
(with A.K. Burns and M. Valli),
Phys. Rev. Lett. **130** no.13, 131001 (2023) [arXiv:2206.00693].

126. *Distinctive Signals of Frustrated Dark Matter*
(with L. Carpenter and T. Murphy), JHEP **09** 175 (2022) [arXiv:2205.06824].

125. *Dark Matter Freeze-Out during $SU(2)_L$ Confinement*
(with J. Howard, S. Ipek, and J. Turner), JHEP **02** 047 (2022) [arXiv:2112.09152].

124. *Stasis in an Expanding Universe: A Recipe for Stable Mixed-Component Cosmological Eras*
(with K. Dienes, L. Heurtier, F. Huang, D. Kim, and B. Thomas),
Phys. Rev. **D105** 2, 023530 (2022) [arXiv:2111.04753].

123. *Phenomenological Cornucopia of SU(3) Exotica*
(with L. Carpenter and T. Murphy),
Phys. Rev. **D105** 3, 035014 (2022) [arXiv:2110.11359].

122. *Annihilogenesis*
(with J. Arakawa and A. Rajaraman), JHEP **08** 078 (2022) [arXiv:2109.13941].

121. *Resurrecting Low-Mass Axion Dark Matter Via a Dynamical QCD Scale*
(with L. Heurtier and F. Huang), JHEP **12** 216 (2021) [arXiv:2101.11031].

120. *Is a Miracle-less WIMP Ruled Out?*
(with J. Arakaw), SciPost Physics **11 2**, 019 (2021) [arXiv:2101.11031].

119. *Commentary: On the (Ab)use of Comparisons in Recommendation Letters*
Physics Today, October 1, 2020.

118. *Dynamical Evidence For a Fifth Force Explanation of the ATOMKI Nuclear Anomalies* (with J. Feng and C. Verhaaren), Phys. Rev. **D102** 3, 036016 (2020) [arXiv:2006.01151].

117. *Dark Matter Freeze Out during an Early Period of QCD Confinement*
(with D. Berger, S. Ipek, and M. Waterbury) JHEP **07** 192 (2020) [arXiv:2004.06727].

116. *QCD Baryogenesis*
(with D. Croon, J. Howard, and S. Ipek)
Phys. Rev. **D101** 055042 (2020) [arXiv:1911.01432].

115. *A Zen-like Journey through the Mysteries of Physics*,
(Book review of "Cosmic Koans"), Physics Today, November 5, 2019.

114. *Multi-scale Mining of Kinematic Distributions with Wavelets*
(with B. Lillard, T. Plehn, and A. Romero)
SciPost Physics 8, 043 (2020) [arXiv:1906.10890].

113. *An Emergent Solution to the Strong CP Problem*
(with J. Arakawa and A. Rajaraman)
Phys. Rev. Lett. **123** no.16, 161602 (2019) [arXiv:1903.08820].

112. *Direct Detection and LHC Constraints on a t-Channel Model of Majorana Dark Matter at One Loop*
(with K. Mohan, D. Sengupta, B. Yan, and C.–P. Yuan)
JHEP **1905** 115 (2019) [arXiv:1903.05650].

111. *Particle Physics is Doing Just Fine*
(with C. Prescod-Weinstein) Slate Magazine, January 31, 2019.

110. *Six Top Messages of New Physics at the LHC*
(with H. Han, L. Huang, T. Ma, J. Shu, and Y. Wu) JHEP **1910** 008 (2019) [arXiv:1812.11286].

109. *A High Quality Composite Axion*
(with B. Lillard) JHEP **1811** 199 (2018) [arXiv:1811.03089].

108. *An Early Cosmological Period of QCD Confinement*
(with S. Ipek) Phys. Rev. Lett. **122** no.11, 112001 (2019) [arXiv:1811.00559].

107. *The τ Magnetic Dipole Moment at Future Lepton Colliders*
(with J. Howard, R. Riley, and A. Rajaraman) LHEP **2** no.5 (2019) [arXiv:1810.09570].

106. *A New Era in the Search for Dark Matter*
(with G. Bertone) Nature **562**, 51 (2018) [arXiv:1810.01668].

105. *The Flavor of Cosmology*
(with B. Lillard, M. Ratz, and S. Trojanowski)
JCAP **1807**, 056 (2018) [arXiv:1804.03662].

104. *Better Higgs-CP Tests Through Information Geometry*
(with J. Brehmer, F. Kling, and T. Plehn)
Phys. Rev. **D97** 095017 (2018) [arXiv:1712.02350].

103. *A Composite Axion from a Supersymmetric Product Group*
(with B. Lillard) JHEP **11** 2017:05 (2017) [arXiv:1707.04261].

102. *Asymmetric Dark Matter and Leptogenesis from $SU(2)$-Lepton*
(with B. Fornal, Y. Shirman, and J. West)
Phys. Rev. **D96**, 035001 (2017) [arXiv:1703.00199].

101. *Saving the MSSM from the Galactic Center Excess*
(with A. Butter, T. Plehn, and S. Murgia)
Phys. Rev. **D96**, 035036 (2017) [arXiv:1612.07115].

100. *Dark Matter Interpretation of the Fermi-LAT Observation Toward the Galactic Center*
(with C. Karwin, T. Porter, S. Murgia, and P. Tanedo)
Phys. Rev. **D95**, 103005 (2017) [arXiv:1612.05687].

99. *$H \to \tau^+\tau^-\gamma$ as a Probe of the τ Magnetic Dipole Moment*
(with I. Galon and A. Rajaraman) JHEP **1612** 111 (2016) [arXiv:1610.01601].

98. *Light Weakly Coupled Axial Forces: Models, Constraints, and Projections*
(with Y. Kahn, G. Krnjaic, and S. Mishra-Sharma)
JHEP **1705** 002 (2017) [arXiv:1609.09072].

97. *Particle Physics Models for the 17 MeV Anomaly in Beryllium Nuclear Decays*
(with J. Feng, B. Fornal, I. Galon, S. Gardner, J. Smolinsky, and P. Tanedo)
Phys. Rev. **D95**, 035017 (2017) [arXiv:1608.03591].

96. *Mono-jet Signatures of Gluphilic Scalar Dark Matter*
(with R. Godbole, G. Mendiratta, and A. Shivaji)
Phys. Lett. **B772**, 93 (2017) [arXiv:1605.04756].

95. *Evidence for a Protophobic Fifth Force from ^{8}Be Nuclear Transitions*
(with J. Feng, B. Fornal, I. Galon, S. Gardner, J. Smolinsky, and P. Tanedo)
Phys. Rev. Lett. **117**, 071803 (2016) [arXiv:1604.07411].

94. *Effective Field Theory of Dark Matter: a Global Analysis*
(with S. Liem, G. Bertone, F. Calore, R. Ruiz de Austri, R. Trotta, and C. Weniger)
JHEP **1609** 077 (2016) [arXiv:1603.05994].

93. *On Mono-W Signatures in Spin-1 Simplified Models*
(with U. Haisch and F. Kahlhoefer) Phys. Lett. **B760**, 207 (2016) [arXiv:1603.01267].

92. *Kaluza-Klein Gluons at 100 TeV: NLO Corrections*
(with B. Lillard and P. Tanedo) Phys. Rev. **D94**, 054012 (2016) [arXiv:1602.08622].

91. *Triplet-Quadruplet Dark Matter*
(with Z. Yu) JHEP **1603**, 204 (2016) [arXiv:1601.01354].

90. *Vector Dark Matter through a Radiative Higgs Portal*
(with A. DiFranzo and P. Fox) JHEP **1604**, 135 (2016) [arXiv:1512.06853].

89. *Dark Matter from Unification of Color and Baryon Number*
(with B. Fornal) Phys. Rev. **D93**, 075010 (2016) [arXiv:1511.07380].

88. *Baryon Number as the Fourth Color*
(with B. Fornal and A. Rajaraman)
Phys. Rev. **D92**, 055022 (2015) [arXiv:1506.06131].

87. *A Simplified Model for Dark Matter Interacting Primarily with Gluons*
(with R. Godbole and G. Mendiratta) JHEP **1508** 064 (2015) [arXiv:1506.01408].

86. *Searching for Lepton Flavor Violation at a Future High Energy e^+e^- Collider*
(with B. Murakami) Phys. Rev. **D91**, 015002 (2015) [arXiv:1410.1485].

85. *Strongly interacting dark matter: Self-interactions and keV lines*
(with K. Boddy, J. Feng, M. Kaplinghat, and Y. Shadmi)
Phys. Rev. **D90**, 095016 (2014) [arXiv:1408.6532].

84. *Bounds on Invisible Higgs boson Decays from $t\bar{t}H$ Production*
(with N. Zhou, Z. Khechadoorian, and D. Whiteson)
Phys. Rev. Lett. **113**, 151801 (2014) [arXiv:1408.0011]. Editor's Choice Article.

83. *Scattering of Dark Particles with Light Mediators*
(with D. Soper, M. Spannowsky, and C. Wallace) Phys .Rev. **D90**, 115005 (2014)
[arXiv:1407.2623].

82. *Hidden On-Shell Mediators for the Galactic Center Gamma-Ray Excess*
(with M. Abdullah, A. DiFranzo, A. Rajaraman, P. Tanedo, and A. Wijangco)
Phys. Rev. **D90**, 035004 (2014) [arXiv:1404.6528].

81. *Tagging Boosted Ws with Wavelets*
(with V. Rentala and W. Shepherd)
JHEP **1408**, 042 (2014) [arXiv:1404.1929].

80. *Self-Interacting Dark Matter from a Non-Abelian Hidden Sector*
(with K. Boddy, J. Feng, and M. Kaplinghat)
Phys. Rev. **D89**, 115017 (2014) [arXiv:1402.3629].

79. *Criteria for Natural Hierarchies*
(with A. De Gouvea and D. Hernandez)
Phys. Rev. **D89**, 115005 (2014) [arXiv:1402.2658].

78. *Discoverability of a Z' at a Future High Energy e^+e^- Collider*
(with D. Kapukchyan) J. Phys. **G41**, 075011 (2014) [arXiv:1312.3377]. 2014 Highlights Article.

77. *Simplified Models for Dark Matter Interacting with Quarks*
(with A. DiFranzo, K. Nagao, and A. Rajaraman)
JHEP **1311**, 014 (2013) [arXiv:1308.2679].

76. *The Pitfalls of Dark Crossings*
(with S. Profumo and W. Shepherd)
Phys. Rev. **D88**, 056018 (2013) [arXiv:1307.6277].

75. *Particle Physics Implications and Constraints on Dark Matter Interpretations of the CDMS Signal*
(with R. Cotta, A. Rajaraman, and A. Wijangco)
Phys. Rev. **D90**, 013020 (2014) [arXiv:1305.6609].

74. *Dark Matter and Vector-like Leptons From Gauged Lepton Number*
(with P. Schwaller, and R. Vega-Morales)
Phys. Rev. **D88**, 035001 (2013) [arXiv:1305.1108].

73. *Gamma Rays from Top-Mediated Dark Matter Annihilations*
(with C. Jackson, G.Servant, G. Shaughnessy, and M. Taoso)
JCAP **1307**, 021 (2013) 006 [arXiv:1303.14717].

72. *Gamma-ray lines and One-Loop Continuum from s-channel Dark Matter Annihilations*
(with C. Jackson, G.Servant, G. Shaughnessy, and M. Taoso)
JCAP **1307**, 021 (2013) 021 [arXiv:1302.1802].

71. *Collider searches for dark matter in events with a Z boson and missing energy*
(with L. Carpenter, A. Nelson, C. Shimmin, and D. Whiteson)
Phys. Rev. **D87**, 074005 (2013) [arXiv:1212.3352].

70. *Effective Theories of Gamma-ray Lines from Dark Matter Annihilation*
(with A. Rajaraman and A. Wijangco),
Phys. Dark Univ. **2**, 17 (2013) [arXiv:1211.7061].

69. *Strange Couplings to the Higgs*
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