

Eric Kuflik
Theoretical Particle Physics
Senior Lecturer

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PERSONAL DATA	Married plus 2. Born 1983 in New York. Citizen of Israel and USA.	
ACADEMIC APPOINTMENTS	Assistant Professor (Senior Lecturer), Hebrew University of Jerusalem, Israel	2017-present
	Hans Bethe Postdoctoral Associate, Cornell University, Ithaca, NY	2014-2017
	Postdoctoral Researcher, Tel Aviv University, Tel Aviv, Israel	2011-2014
EDUCATION	University of Michigan, Ann Arbor, MI <i>Ph.D., Theoretical Physics</i> - Advisor: Professor Gordon Kane	2006-2011
	Stony Brook University, Stony Brook, NY <i>Bachelor of Science, Physics and Mathematics, with Honors</i>	2003-2006
	CUNY, Queens College, Queens, NY	2001-2003
HONORS & AWARDS	Offered 5-year CERN scientific staff position (declined for family reasons)	2019
	Hans Bethe Postdoctoral Fellowship	2014
	Tel Aviv University Postdoctoral Matching Fellowship	2012
	NSF String Vacua Project Fellowship	2010
	Phi Beta Kappa Honor Society	2006
	Mathematics Department Award for Excellence	2006
	NSF RTG Fellowship in Mathematical Physics	2005
	Sigma Pi Sigma Honor Society	2005
TEACHING EXPERIENCE	Hebrew University of Jerusalem, Israel <i>Lecturer</i>	
	Course 77940: Particle Cosmology	2018-present
	Course 77609: Introduction to Elementary Particles	2019
	University of Michigan, Ann Arbor, MI <i>Graduate Student Instructor</i>	
	Physics 236: Elementary Laboratory II	2010-2011
	Physics 241: Elementary Laboratory II	2008-2009
	Physics 141: Elementary Laboratory I	2006-2007

	<i>Grader</i>	
	Physics 505: Electricity and Magnetism I	2008
	<i>Lead Graduate Student Instructor</i>	
	Physics 127/141: Elementary Laboratory I	2007-2008
	Stony Brook University , Stony Brook, NY	
	<i>Student Instructor</i>	
	Mathematics 103: College Algebra	2004
ORGANIZATION OF SCIENTIFIC MEETINGS	Co-Director , School, “New Ideas for Old Puzzles in Particle Physics”, the 37th Advanced School in Physics, Israel Institute for Advanced Studies, Hebrew University of Jerusalem, Israel	2019
	Organizer , Workshop, “Next Frontiers in the Search for Dark Matter”, Galileo Galilei Institute For Theoretical Physics, Florence , Italy	2019
	Organizer , Conference, “Next Frontiers in the Search for Dark Matter”, Galileo Galilei Institute For Theoretical Physics, Florence, Italy	2019
	Organizer , School, “Recent Progress in Quantum Field/String Theory”, the 36th Advanced School in Physics, Israel Institute for Advanced Studies, Hebrew University of Jerusalem, Israel	2018
	Organizer , Israeli Joint Particle Physics Seminar	2017-present
AWARDED RESEARCH GRANTS	PI , “Beyond the Standard Model of Particle Physics: New Ideas for Dark Matter and Naturalness”, Israel Science Foundation (920,000 NIS)	2017-2021
	PI , “Phenomenology of Particle Physics and Particle Cosmology “, The I-CORE Program of the Planning & Budgeting Committee (750,000 NIS)	2017-2021
	PI , “New directions for naturalness and dark matter in light of recent LHC and direct detection results.”, Binational Science Foundation (200,000 USD)	2017-2021
SUPERVISION OF STUDENTS & POSTDOCS	Hebrew University of Jerusalem , Israel	2017-present
	3 postdocs (2 are Zuckerman Fellows)	
	2 M.Sc. students	
	4 undergraduate students	
	Mentoring of an additional 11 Ph.D. students (2 ongoing) at Cornell University, UC Berkeley, Tel Aviv University and the Weizmann Institute of Science .	
SERVICE & COMMITTEES	Journal Reviewer	
	Physics Review Letters, Physics Review D, Journal of High Energy Physics, European Physical Journal C, Physics Letters B, Journal of Cosmology and Astroparticle Physics.	
	Grant Reviewer	
	Reviewed 5 international grant proposals for programs in Israel, Europe and Asia.	
	M.Sc. and Ph.D. thesis committees	
	1 M.Sc. and 1 Ph.D. thesis committees, Weizmann Institute of Science	

SELECTED
INVITED
TALKS

<i>New Directions in Heavy Dark Matter, Workshop, DESY, Hamburg,</i>	Feb. 2020
<i>“Super Heavy Thermal Dark Matter.”</i>	
<i>Light Dark Matter 2019, Conference, Venezia, “MeV-GeV Dark Mat-</i>	Nov. 2019
<i>ter Landscape.”</i>	
<i>Indirect Searches for New Physics Across the Scales, Workshop, MITP,</i>	Jun. 2019
<i>Mainz, “Inflationary Solutions to the Hierarchy Problem.”</i>	
<i>Physics at the LHC and Beyond, Workshop, CERN, Geneva, “Dark</i>	Jul. 2018
<i>Spectroscopy.”</i>	
<i>The Future of BSM Physics, Workshop, MITP, Capri, “CoDecaying</i>	Jun. 2018
<i>Dark Matter.”</i>	
<i>Developing New Tools for Dark Matter Searches, Workshop, Aspen,</i>	Sep. 2017
<i>“CoDecaying Dark Matter.”</i>	
<i>The 6th KIAS Workshop on Particle Physics and Cosmology and the</i>	Oct. 2016
<i>2nd Durham-KIPMU-KIAS Joint Workshop, KIAS, Seoul, “Elastically</i>	
<i>Decoupling Dark Matter.”</i>	
<i>Fourth Annual Large Hadron Collider Physics Conference, LHCP, Lund,</i>	Jun. 2016
<i>“New ideas for displaced physics the LHC.”</i>	
<i>University of Oregon, “SIMP and ELDER Dark Matter”</i>	May 2016
<i>Berkeley week at IPMU, Institute for Physics and Mathematics of the</i>	May 2016
<i>Universe, Tokyo, “SIMP and ELDER Dark Matter”</i>	
<i>Gearing up for LHC13, Conference, Galileo Galilei Institute, Florence,</i>	Oct. 2015
<i>“Dynamical R-Parity Violation.”</i>	
<i>New Directions to Shed Light on Dark Matter, Workshop, Aspen,</i>	Aug. 2015
<i>“The SIMP Miracle.”</i>	
<i>Princeton University, ‘The SIMP Miracle.’</i>	Apr. 2015
<i>Boston University, ‘The SIMP Miracle.’</i>	Apr. 2015
<i>NPKI Workshop, Physics from Run 2 of the LHC, Jeju, “Dynamical R-</i>	Sep. 2014
<i>Parity Violation.”</i>	
<i>University of Michigan, “Dynamical R-Parity Violation.”</i>	Apr. 2014
<i>Frontiers in Particle Physics: From Dark Matter to the LHC and Be-</i>	Jan. 2014
<i>yond, Workshop, Aspen, “Dynamical R-Parity Violation.”</i>	
<i>New Particle Physics at the LHC and Its Connection to Dark Matter,</i>	Aug. 2012
<i>Workshop, Aspen, “Interpreting the LHC Higgs Results.”</i>	
<i>Implications for TeV Physics, Workshop, CERN, “Interpreting the</i>	Jul. 2012
<i>Higgs.”</i>	
<i>CERN Beyond the Standard Model Theory Institute, CERN, “Neutrino</i>	Jun. 2012
<i>Anomalies and Sterile Neutrino Phenomenology,”</i>	
<i>Weizmann Institute, “Global Fits to Neutrino Data in a 3+1+1 Frame-</i>	May 2012
<i>work.”</i>	
<i>Harvard University, “Neutrino Anomalies and Sterile Neutrino Phe-</i>	May 2012
<i>nomenology.”</i>	
<i>Harvard University, “Neutrino Anomalies and Sterile Neutrino Phe-</i>	May 2012
<i>nomenology.”</i>	
<i>Rutgers University, “A 125 GeV Higgs - From Naturalness to Fourth</i>	May 2012
<i>Generation and Beyond.”</i>	
<i>New Physics Korean Institute, Workshop, Seoul, “Interpreting LHC</i>	Feb. 2012
<i>Higgs Results from Natural New Physics.”</i>	

	<i>C. N. Yang Institute for Theoretical Physics, Stony Brook University, “Naturalness of the Higgs.”</i>	Jan. 2012
	<i>Enrico Fermi Institute, Chicago University, “Moduli, Heavy Scalars, and the Little Hierarchy Problem in String and Supergravity Theories.”</i>	May 2011
	<i>String Vacuum Project, Workshop, Ohio State University, “Moduli Stabilization and Non-Thermal Dark Matter.”</i>	Nov. 2010
	<i>Weizmann Institute, “The Largest Scattering Cross Sections in the MSSM.”</i>	Oct. 2010
	<i>String Theory Vacua Project, Workshop, UC Santa Barbara, KITP, “The LSP in M-Theory.”</i>	May 2010
	<i>Phenomenology Symposium, Conference, UW Madison, “Light WIMPs: the Largest Detection Scattering Cross Sections in the MSSM.”</i>	Apr. 2010
SCHOOLS, CONFERENCES & WORKSHOPS	Co-Director, School, <i>New Ideas for Old Puzzles in Particle Physics</i> , the 37th Advanced School in Physics, Israel Institute for Advanced Studies, Jerusalem	Dec. 2019
	Workshop, <i>New Directions in Heavy Dark Matter</i> , DESY, Hamburg	Feb. 2020
	Conference, <i>Light Dark Matter 2019</i> , Venezia	Nov. 2019
	Organizer, Workshop, <i>Next Frontiers in the Search for Dark Matter</i> , Galileo Galilei Institute For Theoretical Physics, Florence , Italy	Sep. 2019
	Organizer, Conference, <i>Next Frontiers in the Search for Dark Matter</i> , Galileo Galilei Institute For Theoretical Physics, Florence , Italy	Sep. 2019
	Workshop, <i>Indirect Searches for New Physics Across the Scales</i> , MITP, Mainz	Jun. 2019
	Organizer, School, <i>Recent Progress in Quantum Field/String Theory</i> , the 36th Advanced School in Physics, Israel Institute for Advanced Studies, Jerusalem	Dec. 2018
	Workshop, <i>Physics at the LHC and Beyond</i> , CERN, Geneva	Jul. 2018
	Workshop, <i>The Future of BSM Physics</i> , MITP, Capri	Jun. 2018
	Workshop, <i>BSM in direct, indirect and tabletop experiments</i> , SRITP, Weizmann Institute	Nov. 2017
	Workshop, <i>Developing New Tools for Dark Matter Searches</i> , Aspen	Sep. 2017
	Workshop , <i>The 6th KIAS Workshop on Particle Physics and Cosmology and the 2nd Durham-KIPMU-KIAS Joint Workshop</i> , KIAS, Seoul	Oct. 2016
	Conference, <i>Fourth Annual Large Hadron Collider Physics Conference, LHCP</i> , Lund	Jun. 2016
	Workshop, <i>Berkeley week at IPMU, Institute for Physics and Mathematics of the Universe</i> , Tokyo	May 2016
	Workshop, <i>Gearing up for LHC13</i> , Conference, Galileo Galilei Institute, Florence	Oct. 2015
	Conference, <i>Gearing up for LHC13</i> , Conference, Galileo Galilei Institute, Florence	Oct. 2015

Workshop, <i>New Directions to Shed Light on Dark Matter</i> , Aspen	Aug. 2015
Workshop, <i>Beyond WIMPs: From Theory to Detection</i> , Kibbutz Hagoshrim	May. 2015
Workshop, <i>NPKI Workshop, Physics from Run 2 of the LHC</i> , Jeju	Sep. 2014
Aspen, <i>Connecting Flavor Physics with Naturalness: from Theory to Experiment</i> , Aspen	Jun. 2014
Workshop, <i>ATLAS Exotics workshop</i> , Eilat, Israel	Feb. 2014
Workshop, <i>Frontiers in Particle Physics: From Dark Matter to the LHC and Beyond</i> , Aspen	Jan. 2014
Workshop, <i>New Particle Physics at the LHC and Its Connection to Dark Matter</i> , Aspen	Aug. 2012
Workshop, <i>Implications for TeV Physics</i> , CERN, Geneva	Jul. 2012
Workshop, <i>CERN Beyond the Standard Model Theory Institute</i> , CERN, Geneva	Jun. 2012
Workshop, <i>New Physics Korean Institute</i> , Seoul	Feb. 2012
School, <i>Current Trends in Particle Physics and Cosmology</i> , the 29th Advanced School in Physics, Israel Institute for Advanced Studies, Jerusalem	Dec. 2011
Workshop, <i>String Vacuum Project</i> , Columbus	Nov. 2010
Workshop, <i>String Theory Vacua Project</i> , KITP, Santa Barbara	May 2010
Conference, <i>Phenomenology Symposium</i> , Madison	April 2010
School, <i>The Dawn of the LHC Era</i> , the 26th Advanced School in Physics, Israel Institute for Advanced Studies, Jerusalem	Jun. 2009
School, <i>Particle Physics in the Age of the LHC</i> , Theoretical Advanced Studies Institute, Boulder	Dec. 2008

SELECTED
MEDIA
COVERAGE
OF WORK

- [Newsweek](#), “Move over WIMPs: New dark matter candidate can explain mysteries of the Universe”
- [Livescience](#), “Dark Pion Particles May Explain Universe’s Invisible Matter”
- [Science Magazine News](#), “Dark Matter: Out with the WIMPs, in with the SIMPs?”
- [Discovery Magazine](#), “What is Dark Matter Made Of? These Are the Top Candidates”
- [Haaretz](#), “Where did 40 years of searching for the dark matter lead?”
- [Phys.org](#), “The case for co-decaying dark matter”
- [Phys.org](#), “A new framework could aid the search for heavy thermal dark matter”

PUBLICATIONS

Total of 47 papers (8 published in Physical Review Letters, 3 selected as APS Editors' Suggestion), 3900+ citations, h-index 30 (as of April 2020). Citation counts are taken from [INSPIRE](#). In high energy phenomenology, all authors are equal contributors and are listed in alphabetical order. Please note that in our field, papers are typically not submitted to Nature or Science Journals.

- [1] E. D. Kramer, **E. Kuflik**, N. Levi, N. J. Outmezguine and J. T. Ruderman, *Heavy Thermal Relics from Zombie Collisions, to be submitted to Phys. Rev. Lett.* (2020) , [[2003.04900](#)].
- [2] I. M. Bloch, Y. Hochberg, **E. Kuflik** and T. Volansky, *Axion-like Relics: New Constraints from Old Comagnetometer Data*, *JHEP* **01** (2020) 167, [[1907.03767](#)].
- [3] H. Kim and **E. Kuflik**, *Superheavy Thermal Dark Matter*, *Phys. Rev. Lett.* **123** (2019) 191801, **Selected as APS Editors' Suggestion**, [[1906.00981](#)].
- [4] A. Dery, J. A. Dror, L. Stephenson Haskins, Y. Hochberg and **E. Kuflik**, *Dark Matter in Very Supersymmetric Dark Sectors*, *Phys. Rev.* **D99** (2019) 095023, [[1901.02018](#)].
- [5] CEPC STUDY GROUP collaboration, M. Dong et al., *CEPC Conceptual Design Report: Volume 2 - Physics & Detector*, [1811.10545](#).
- [6] M. Geller, Y. Hochberg and **E. Kuflik**, *Inflating to the Weak Scale*, *Phys. Rev. Lett.* **122** (2019) 191802, [[1809.07338](#)].
- [7] Y. Hochberg, **E. Kuflik**, R. McGehee, H. Murayama and K. Schutz, *Strongly interacting massive particles through the axion portal*, *Phys. Rev.* **D98** (2018) 115031, [[1806.10139](#)].
- [8] D. Curtin et al., *Long-Lived Particles at the Energy Frontier: The MATHUSLA Physics Case*, *Rept. Prog. Phys.* **82** (2019) 116201, [[1806.07396](#)].
- [9] Y. Hochberg, **E. Kuflik** and H. Murayama, *Twin Higgs model with strongly interacting massive particle dark matter*, *Phys. Rev.* **D99** (2019) 015005, [[1805.09345](#)].
- [10] A. Falkowski, **E. Kuflik**, N. Levi and T. Volansky, *Light Dark Matter from Leptogenesis*, *Phys. Rev.* **D99** (2019) 015022, [[1712.07652](#)].
- [11] J. A. Dror, **E. Kuflik**, B. Melcher and S. Watson, *Concentrated dark matter: Enhanced small-scale structure from codecaying dark matter*, *Phys. Rev.* **D97** (2018) 063524, [[1711.04773](#)].
- [12] M. Battaglieri et al., *US Cosmic Visions: New Ideas in Dark Matter 2017: Community Report*, in *U.S. Cosmic Visions: New Ideas in Dark Matter College Park, MD, USA, March 23-25, 2017*, 2017, [1707.04591](#), <http://lss.fnal.gov/archive/2017/conf/fermilab-conf-17-282-ae-ppd-t.pdf>.

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- [13] S.-M. Choi, Y. Hochberg, **E. Kuflik**, H. M. Lee, Y. Mambrini, H. Murayama et al., *Vector SIMP dark matter*, *JHEP* **10** (2017) 162, [1707.01434].
- [14] **E. Kuflik**, M. Perelstein, N. R.-L. Lorier and Y.-D. Tsai, *Phenomenology of ELDER Dark Matter*, *JHEP* **08** (2017) 078, [1706.05381].
- [15] Y. Hochberg, **E. Kuflik** and H. Murayama, *Dark spectroscopy at lepton colliders*, *Phys. Rev.* **D97** (2018) 055030, [1706.05008].
- [16] C. Csaki, **E. Kuflik** and S. Lombardo, *Viable Twin Cosmology from Neutrino Mixing*, *Phys. Rev.* **D96** (2017) 055013, [1703.06884].
- [17] J. Alexander et al., *Dark Sectors 2016 Workshop: Community Report*, 2016, 1608.08632, <http://lss.fnal.gov/archive/2016/conf/fermilab-conf-16-421.pdf>.
- [18] J. A. Dror, **E. Kuflik** and W. H. Ng, *Codecaying Dark Matter*, *Phys. Rev. Lett.* **117** (2016) 211801, [1607.03110].
- [19] Y. Hochberg, **E. Kuflik** and H. Murayama, *SIMP Spectroscopy*, *JHEP* **05** (2016) 090, [1512.07917].
- [20] **E. Kuflik**, M. Perelstein, N. R.-L. Lorier and Y.-D. Tsai, *Elastically Decoupling Dark Matter*, *Phys. Rev. Lett.* **116** (2016) 221302, [1512.04545].
- [21] G. Durieux, Y. Grossman, M. Konig, **E. Kuflik** and S. Ray, *Rare Z Decays and Neutrino Flavor Universality*, *Phys. Rev.* **D93** (2016) 093005, [1512.03071].
- [22] C. Csaki, **E. Kuflik**, S. Lombardo and O. Slone, *Searching for displaced Higgs boson decays*, *Phys. Rev.* **D92** (2015) 073008, [1508.01522].
- [23] A. Anandakrishnan, J. H. Collins, M. Farina, **E. Kuflik** and M. Perelstein, *Odd Top Partners at the LHC*, *Phys. Rev.* **D93** (2016) 075009, [1506.05130].
- [24] C. Csaki, **E. Kuflik**, S. Lombardo, O. Slone and T. Volansky, *Phenomenology of a Long-Lived LSP with R-Parity Violation*, *JHEP* **08** (2015) 016, [1505.00784].
- [25] C. Csaki, **E. Kuflik**, O. Slone and T. Volansky, *Models of Dynamical R-Parity Violation*, *JHEP* **06** (2015) 045, [1502.03096].
- [26] Y. Hochberg, **E. Kuflik**, H. Murayama, T. Volansky and J. G. Wacker, *Model for Thermal Relic Dark Matter of Strongly Interacting Massive Particles*, *Phys. Rev. Lett.* **115** (2015) 021301, [1411.3727].
- [27] A. Efrati, **E. Kuflik**, S. Nussinov, Y. Soreq and T. Volansky, *Constraining the Higgs-Dilaton with LHC and Dark Matter Searches*, *Phys. Rev.* **D91** (2015) 055034, [1410.2225].
- [28] Y. Hochberg, **E. Kuflik**, T. Volansky and J. G. Wacker, *Mechanism for Thermal Relic Dark Matter of Strongly Interacting Massive Particles*, *Phys. Rev. Lett.* **113** (2014) 171301, **Selected as APS Editors' Suggestion**, [1402.5143].

- [29] C. Csaki, **E. Kuflik** and T. Volansky, *Dynamical R-Parity Violation*, *Phys. Rev. Lett.* **112** (2014) 131801, **Selected as APS Editors' Suggestion**, [1309.5957].
- [30] R. Essig, **E. Kuflik**, S. D. McDermott, T. Volansky and K. M. Zurek, *Constraining Light Dark Matter with Diffuse X-Ray and Gamma-Ray Observations*, *JHEP* **11** (2013) 193, [1309.4091].
- [31] R. T. D'Agnolo, **E. Kuflik** and M. Zanetti, *Fitting the Higgs to Natural SUSY*, *JHEP* **03** (2013) 043, [1212.1165].
- [32] D. Carmi, A. Falkowski, **E. Kuflik**, T. Volansky and J. Zupan, *Higgs After the Discovery: A Status Report*, *JHEP* **10** (2012) 196, [1207.1718].
- [33] D. Carmi, A. Falkowski, **E. Kuflik** and T. Volansky, *Interpreting the 125 GeV Higgs*, *Nuovo Cim.* **C035** (2012) 315–322, [1206.4201].
- [34] **E. Kuflik**, S. D. McDermott and K. M. Zurek, *Neutrino Phenomenology in a 3+1+1 Framework*, *Phys. Rev.* **D86** (2012) 033015, [1205.1791].
- [35] **E. Kuflik**, Y. Nir and T. Volansky, *Implications of Higgs searches on the four generation standard model*, *Phys. Rev. Lett.* **110** (2013) 091801, [1204.1975].
- [36] D. Carmi, A. Falkowski, **E. Kuflik** and T. Volansky, *Interpreting LHC Higgs Results from Natural New Physics Perspective*, *JHEP* **07** (2012) 136, [1202.3144].
- [37] G. Kane, **E. Kuflik** and B. D. Nelson, *Extracting the Wavefunction of the LSP at the LHC*, *Phys. Lett.* **B703** (2011) 151–159, [1105.3742].
- [38] D. Feldman, G. Kane, **E. Kuflik** and R. Lu, *A new (string motivated) approach to the little hierarchy problem*, *Phys. Lett.* **B704** (2011) 56–61, [1105.3765].
- [39] LHC NEW PHYSICS WORKING GROUP collaboration, D. Alves, *Simplified Models for LHC New Physics Searches*, *J. Phys.* **G39** (2012) 105005, [1105.2838].
- [40] B. S. Acharya, G. Kane, **E. Kuflik** and R. Lu, *Theory and Phenomenology of μ in M theory*, *JHEP* **05** (2011) 033, [1102.0556].
- [41] G. L. Kane, **E. Kuflik**, R. Lu and L.-T. Wang, *Top Channel for Early SUSY Discovery at the LHC*, *Phys. Rev.* **D84** (2011) 095004, [1101.1963].
- [42] **E. Kuflik**, *Predictions from String Theory*, Ph.D. thesis, Michigan U., 2011.
- [43] **E. Kuflik** and J. Marsano, *Comments on Flipped SU(5) (and F-theory)*, *JHEP* **03** (2011) 020, [1009.2510].
- [44] B. S. Acharya, G. Kane and **E. Kuflik**, *Bounds on scalar masses in theories of moduli stabilization*, *Int. J. Mod. Phys.* **A29** (2014) 1450073, [1006.3272].

- [45] T. Cohen, **E. Kuflik** and K. M. Zurek, *Extracting the Dark Matter Mass from Single Stage Cascade Decays at the LHC*, *JHEP* **11** (2010) 008, [[1003.2204](#)].
- [46] **E. Kuflik**, A. Pierce and K. M. Zurek, *Light Neutralinos with Large Scattering Cross Sections in the Minimal Supersymmetric Standard Model*, *Phys. Rev. D* **81** (2010) 111701, [[1003.0682](#)].
- [47] B. S. Acharya, P. Grajek, G. L. Kane, **E. Kuflik**, K. Suruliz and L.-T. Wang, *Identifying Multi-Top Events from Gluino Decay at the LHC*, [0901.3367](#).