Ely D. Kovetz

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Home Address Mizan 9 Tel Aviv, Israel 6901872 (972) 545-953349

Office Address Department of Physics Building 54, Office 209 Be'er Sheva 84105, Israel

2008

2003

Personal Details	Citizenship: Israeli and American Married +3	
EDUCATION	Ph.D. in High-Energy Physics, Tel-Aviv University Admitted to direct Ph.D. track in Mar. 2007	2006 - 2011 (awarded Jun. 2012)
	(with Summa Cum Laude M.Sc. course record)	
	Advisor: Prof. Nissan Itzhaki	
	Thesis: "Models of Inflation in String Theory and their Cosmological Sig	natures"
	B.Sc. in Physics and Mathematics, Tel-Aviv University	
	(both majors Magna Cum Laude)	2003 - 2006
Employment	Ben-Gurion University, Senior Lecturer Department of Physics	Mar. 2019 - present
	Johns Hopkins University, Postdoctoral Fellow Department of Physics and Astronomy	Oct. 2014 - Feb. 2019
	University of Texas at Austin, Postdoctoral Fellow Weinberg Theory Group, Department of Physics and Texas Cosmology C	Oct. 2011 - Sep. 2014 Center
	Other Work Experience	
	Algorithm Developer, Applied Materials Inc., Rehovot, Israel Received Mask Inspection Division Award for outstanding work.	2004 - 2007
	Team Leader, Mathematical Research, Israeli Defense Force	2000 - 2003
Awards		2022
AWARDS	Krill Prize for Excellence in Scientific Research from the Wolf Foundation	
	Toronto Prize for Excellence in Research from Ben-Gurion University	2021
	Azrieli Foundation Faculty Fellowship	2019
	Balzan Prize Foundation Young Reseacher Visiting Grant at JHU	2013
	Getty Foundation Prize for Excellence in Teaching	2010
	Yossef Dothan Prize for Excellence in Research	2010
		2000

Abraham and Dvora Cohen Prize for Excellence in Teaching

Amos de-Shalit Foundation Undergraduate Scholarship

Professional Activities

Senior Member of the CMB-S4 Collaboration

Core Member of the ET Observational Science Board

Member of the LISA Consortium

Member of the TIM (STARFIRE) Collaboration

Member of the Australian SKA Pathfinder (ASKAP) Cosmology group

Lead organizer and Chair of the Scientific Organizing Committee:

"Second Annual Intensity Mapping Workshop (IM@Hopkins)", JHU, Jun. 2017, Baltimore, MD

Member of the Scientific Organizing Committee:

"Cosmological Signals from Cosmic Dawn to the Present", Feb. 2018, Aspen Center for Physics

External Expert Reviewer for European Research Council (ERC)

Proposal Reviewer for National Science Foundation (NSF)

Proposal Reviewer for Swiss National Science Foundation (SNSF)

Proposal Reviewer for French National Research Foundation (ANR)

Panel Reviewer for NASA Astrophysics Theory Program (ATP)

Peer Reviewer for Astro and HEP Journals including: PRL, PRD, ApJ, MNRAS, JCAP, A&A

Teaching

Tutorials, Tel-Aviv University

2006 - 2011

Physics Lab I and II, 2006-2007

Mathematical Introduction for Physicists, 2007

Thermal Physics, 2009-2010

Introduction to Astrophysics, 2010

Analytical Mechanics, 2008-2011

Advanced Quantum Mechanics (Graduate course), 2008-2011

Courses, Ben-Gurion University

2019 - 2021

Analytical Mechanics, 2019/2020, 2020/2021, 2021/2022, 2022/2023

Introduction to Cosmology (Graduate Level), 2019/2020

The Dynamical Universe (Graduate Level), 2021/2022

Advanced Computational Physics (Graduate Level), 2022/2023

Mentoring

Co-Supervising students, U. of Texas at Austin and Johns Hopkins University

2012 - 2019

Gabriela Sato-Polito, current JHU graduate student (soon postdoc at IAS Princeton)

Lingyuan Ji, former JHU graduate student (now postdoc at UC Berkeley)

Cyril-Creque-Sarbinowski, former JHU graduate student (now postdoc at Flatiron CCA, NY)

Kaze Wong, former JHU graduate student (now postdoc at Flatiron CCA, NY)

Patrick C. Bryesse, former JHU graduate student (soon assistant professor at SMU)

Julian Muñoz, former JHU graduate student (now assistant professor at UT Austin)

Daniel Carney, former UT Austin graduate student (now staff scientist at UC Berkeley)

Anindya Dey, former UT Austin graduate student

Supervising students and postdocs, Ben-Gurion University

2019 - current

Debanjan Sarkar, Postdoctoral fellow, started Jan. 2020 (soon Prize Postdoc at McGill)

Caner Unal, Postdoctoral fellow, winner of IASH CHE fellowship, started Dec. 2020

Sarah Libanore, Postdoctoral fellow, winner of Azrieli Fellowship, started Jan. 2023

Tal Abadi, PhD student, winner of BGU Negev Scholarship, started Oct. 2020

Yarden Flitter, PhD student, winner of BGU Negev Ongoing Scholarship, started Oct. 2020

Lilian Saiegh (2021-2023), Tatyana Shevchuk (2021-) and Keren Krochek (2022-), MSc. students

Gali Shmueli (2022-) and Hovav Lazare (2022-), M.Sc. students, winners of Dkalim Scholarship

Tal Abadi and Yarden Flitter, External Advisor to MSc. Theses in Tel-Aviv University, 2019

INVITED SEMINARS

• HEP, Joint Israeli High-Energy Theory seminar, Newe Shalom, Israel	2008
• Astrophysics seminar, Oxford University, Oxford, UK	2011
• High-Energy Physics seminar, Texas A&M University, College Station, TX	2012
• High-Energy Physics seminar, Texas A&M University, College Station, TX	2013
• Joint IAS/Princeton cosmology seminar, Princeton University, Princeton, NJ	2013
• Astrophysics (CAS) seminar, Johns Hopkins University, Baltimore, MD	2013
• Theory seminar, Case Western Reserve University, Cleveland, OH	2013
• Astrophysics talk, New York University, New York City, NY	2013
• Astrophysics seminar, Columbia University, New York City, NY	2013
• Astrophysics seminar, CITA, Toronto, Canda	2013
• INPA Journal Club, Lawrence Berkeley National Labs, Berkeley, CA	2013
• KIPAC Tea Talk, Stanford University, Stanford, CA	2013
• OBSCOS seminar, California Institute of Technology, Pasadena, CA	2013
• ITC seminar, Harvard University, Cambridge, MA	2013
• Astrophysics Journal Club, Institut d'Astrophysique de Paris, Paris, France	2015

• Particle Physics and Astrophysics seminar, Weizmann Institute, Rehovot, Israel	2015
• Joint Astrophysics and High-Energy Physics seminar, Tel-Aviv University, Israel	2015
• Astrophysics seminar, Hebrew University of Jerusalem, Jerusalem, Israel	2015
• High-Energy Physics seminar, Harvard University, Cambridge, MA	2016
Physics Colloquium, Washington University, St. Louis, MO	2016
• High-Energy Physics seminar, Ben-Gurion University, Beer Sheva, Israel	2016
• Astrophysics seminar, Tel-Aviv University, Tel-Aviv, Israel	2016
• Astrophysics seminar, Ben-Gurion University, Beer Sheva, Israel	2016
• High-Energy Physics seminar, Tel-Aviv University, Tel-Aviv, Israel	2016
• Physics Colloquium, University of Washington, Seattle, WA	2017
• High-Energy Physics seminar, Syracuse University, Syracuse, NY	2017
• High-Energy Physics seminar, University of Minnesota, Minneapolis, MN	2017
• Astrophysics seminar, University of Pennsylvania, Philadelphia, PA	2017
• Physics Colloquium, University of Southern California, Los Angeles, CA	2018
• Astrophysics (CAS) seminar, Johns Hopkins University, Baltimore, MD	2018
• High-Energy Physics seminar, University of Maryland, College Park, MD	2018
• Astrophysics seminar, Technion, Haifa, Israel	2019
• Joint Israeli Particle-Physics seminar, Weizmann Institute, Rehovot, Israel	2019
• Astrophysics seminar, New York University, New York, NY	2019
• Astrophysics seminar, Hebrew University of Jerusalem, Jerusalem, Israel	2019
• Particle Physics seminar, Harvard University, Boston, MA	2019
• High-Energy Physics seminar, Tel-Aviv University, Tel-Aviv, Israel	2019
• Physics Colloquium, Ben-Gurion University, Beer-Sheva, Israel	2019
• Faculty Fellow Seminar, Azrieli Foundation, Tel-Aviv, Israel	2020
• HEP seminar, Joint Israeli High-Energy Theory seminar, Newe Shalom, Israel	2020
• Physics Colloquium, Albert Einstein Institute, Hannover, Germany	2020
• Colloquium, Padova Cosmology Series, University of Padova, Padova, Italy	2021
• Physics Colloquium, University of Manchester, Manchester, United Kingdom	2021
• Theoretical Particle Physics & Cosmology Seminar, King's College London, United Kingdom	2021
• Gentner Physics Colloquium, Max-Planck-Institute für Kernphysik, Heidelberg, Germany	2022
• ARCO Astrophysics Seminar, Open University, Raanana, Israel	2023
• Astrophysics Seminar, Tel-Aviv University, Tel-Aviv, Israel	2023

$\begin{array}{c} \text{Conferences,} \\ \text{Workshops} \end{array}$

• PITP School, "Strings and Phenomenology," IAS, Princeton, NJ Talk: "Time-dependent inflation potentials in String Theory and the overshoot problem"	Jul.	2008
• International School of Subnuclear Physics at Erice, Italy Talk: "Imprints of pre-inflationary particles" (won P.A.M Dirac best student diploma)	Aug.	2009
• Conference, COSMO 2009, CERN, Geneva, Switzerland Poster: "Cosmological imprints of pre-inflationary particles"	Sep.	2009
• Conference, PASCOS 2011, DAMTP, Cambridge, UK Talk: "Pre-inflationary relics and large scale anomalies"	Jul.	2011
• Conference, "Inflationary Theory and Confrontation with Planck", Aspen, CO Invited talk: "Pre-inflationary relics and CMB anomalies"	Jan.	2012
• University of Cambridge/Texas A&M Workshop on Inflation, Cook's Branch, TX Invited talk: "Probes of pre-inflationary relics: from theory to data analysis"	Mar.	2012
• Workshop at University of Kyoto, Kyoto, Japan; "Gravitation and Cosmology" Talk: "Probing structures using 21st-century measurements of 21-cm lensing"	Dec.	2012
• Workshop, APC, Paris, France; "Big Bang, Big Data, Big Computers"	Sep.	2012
• Workshop "Cosmology Beyond the Power Spectrum", BCCP, Berkeley, CA Invited talk: "Probing structures using measurements of 21-cm lensing"	Apr.	2013
• Conference, UC Davis, Davis, CA "Mining the Cosmic Frontier in the Planck Era"	May	2013
• Conferences, UC Davis, Davis, CA "Fundamental Questions in Cosmology"	May	2013
• Workshop, Princeton Center for Theoretical Science, Princeton, NJ "Cosmology in the Planck era" (invited participant)	Jun.	2013
• Workshop, Aspen Center for Physics, Aspen, CO "Combining Probes in Cosmological Surveys" (invited participant)	Jul.	2014
• Workshop, Penn State University, State College, PA "3rd Neighborhood workshop on Astrophysics and Cosmology"	Mar.	2015
• Workshop, University of Michigan, Ann Arbor, MI "Cosmology with CMB-S4"	Sep.	2015
• Workshop, LBNL, Berkeley, CA "Cosmology with CMB-S4"	Mar.	2016
• Workshop, KIPAC, Stanford University, Menlo Park, CA "Opportunities and Challenges in Intensity Mapping" (invited participant)	Mar.	2016

 Workshop, Penn State University, State College, PA "4th Neighborhood workshop on Astrophysics and Cosmology" Talk: "Flaring Tidally Compressed Dark Matter Clumps" 	Mar. 2016
• Workshop, NRAO and Kavli Foundation, Baltimore, MD "U.S. Radio/Millimeter/Submillimeter Science Futures II"	Aug. 2016
 Workshop, Fermilab, Batavia, IL "Simplicity II Theory Workshop" Invited Talk: "The LIGO Discovery and Massive Compact Dark Matter" 	Sep. 2016
• Workshop, University of Chicago, Chicago, IL "Cosmology with CMB-S4"	Sep. 2016
• Workshop, University of Chicago, Chicago, IL "Future Cosmic Surveys"	Sep. 2016
• Workshop, Brookhaven National Laboratory, Upton, NY "Dark Interactions: Perspectives from Theory and Experiment" Invited Plenary Talk: "The Status of Primordial Black Holes as Dark Matter"	Oct. 2016
• Workshop, NASA Goddard Space Flight Center, Goddard, MD "Joint JHU/Goddard Annual Interaction Workshop" Invited Talk: "The LIGO Discovery and Primordial Black Holes as Dark Matter"	Oct. 2016
 Workshop, Technion, Haifa, Israel "Gravitational Waves and Compact Objects" Invited Talk: "The LIGO Discovery and Massive Compact Dark Matter" 	Nov. 2016
• April Meeting, American Physical Society, Washington DC "Focus Session: Gravitational Wave Observations and Dark Matter" Invited Talk: "The LIGO Discovery and Massive Compact Dark Matter"	Jan. 2017
 Workshop, Johns Hopkins University, Baltimore, MD "Second Annual Line-Intensity Mapping Workshop (IM@Hopkins)" Lead organizer; chair of SOC; presented opening and closing remarks; First author of "LIM 2017 Status Report", an overview of the field following two LIM we 	Jul. 2017 orkshops.
• Conference, "Cosmological Signals from Cosmic Dawn to the Present", Aspen, CO Invited overview talk: "Line-Intensity Mapping: (Bird's-Eye) Theory Review" Member of the Scientific Organizing Committee.	Feb. 2018
• Workshop, "Structure formation beyond WIMPs", Technion, Haifa, Israel Invited Talk: "The Dark Matter Interpretation of the Anomalous EDGES 21cm Absorpt	May. 2018 ion Signal"
• Conference, PASCOS 2018, CWRU, Cleveland, US Invited Talk: "The Primordial-Black-Hole Dark Matter Scenario"	Jun. 2018
Workshop, Princeton University, Princeton, NJ "Princeton CMB-S4 Collaboration Workshop" Fig. 61: 1. "Tight of the County of t	Sep. 2018

FireSlide: "Tightly Coupled Dark Matter: Killing Two Birds with One Stone"

• Conference, "Beyond Standard Model: Where do we go from here?", GGI Florence, Italy Invited Talk: "New cosmological probes of the lightest and heaviest dark matter"	Oct. 2018
• Workshop, Center for Computational Astrophysics, Flatiron Institute, New York, NY "Cosmology and Astrophysics with Intensity Mapping" (invited participant)	Feb. 2019
• Conference, "31st Rencontres de Blois - Particle Physics and Cosmology", Blois, France Invited Talk: "Dark matter and the 21cm global signal at cosmic dawn"	Jun. 2019
• Conference, "L2S2: Lines in the Large Scale Structure" (invited), Marseille, France Talk: "Cosmic Expansion History from Line-Intensity Mapping"	Jul. 2019
• Conference, "7th LISA Cosmology Working Group Workshop", Padova, Italy Invited Talk: "LISA and the Ground: the Multi-Band Promise"	Sep. 2019
• The 37th Advanced School in Theoretical Physics, Hebrew University of Jerusalem, Israel Invited Talk Series: "Cosmology beyond LCDM"	Jan. 2020
• Workshop, University of Chicago, Chicago, IL (Remote) "UChicago-2020: Cosmology with CMB-S4"	Aug. 2020
• ICTS School, "Less Travelled Path of Dark Matter", Tata Institute, India Invited Talk Series: "Introduction to Primordial Black Hole Dark Matter"	Nov. 2020
• Workshop, "Primordial Black Holes Confront GW data", Sapienza University of Rome Invited Panel Leader: "Discussion: Prospects of the PBH Scenario"	Feb. 2021
• Conference, CMB-S4 Collaboration Meeting, (Remote) "CMB-S4 Spring 2021 Collaboration Meeting"	Mar. 2021
• Workshop, "KICP Line-Intensity Mapping Workshop", University of Chicago, Illinois Invited overview talk: "Science Goals of Line-Intensity Mapping"	Jul. 2021
• Conference, CMB-S4 Collaboration Meeting, (Remote) "CMB-S4 Summer 2021 Collaboration Meeting"	Aug. 2021
• Workshop, "Black Hole Dynamics", Niels Bohr Institute, Copenhagen, Denmark Invited Talk: "Unique Features of the PBH Channel"	May 2022
• Workshop, "Gravitational Waves and Primordial Black Holes", Padova, Italy Invited Keynote Talk: "Unique Features of the PBH Channel"	Dec. 2022
• Workshop, "Present and Future of Line-Intensity Mapping", MPA Garching, Germany Organizer and Discussion Chair: "Primary Goals/Applications of LIM"	Apr. 2023
• Conference, "HI as a Cosmological Probe Across Cosmic Time", Nazareth, Israel Invited Talk: "Line-Intensity Mapping: Review and Outlook"	May. 2023
\bullet Meeting, "21cm Cosmology - IFPU Focus Week", SISSA, Trieste, Italy Invited Talk: "LIM: a first-class probe of physics beyond $\Lambda \rm CDM$ "	Sep. 2023

List of Publications

PEER-REVIEWED

1.	N. Itzhaki and E. D. Kovetz "Inflection Point Inflation and Time Dependent Potentials in String Theory" JHEP 0710, 054 (2007)	2007
2.	N. Itzhaki and E. D. Kovetz "A Phase Transition between Small and Large Field Models of Inflation" Class. Quant. Grav. 26 , 135007 (2009)	2009
3.	A. Fialkov, N. Itzhaki and E. D. Kovetz "Cosmological Imprints of Pre-Inflationary Particles" JCAP 1002 , 004 (2010)	2010
4.	E. D. Kovetz, A. Ben-David and N. Itzhaki "Giant Rings in the CMB" Astrophys. J. 724 , 374, (2010)	2010
5.	A. Ben-David, E. D. Kovetz and N. Itzhaki "Parity in the CMB: Space Oddity" Astrophys. J. 748 , 39 (2012)	2012
6.	A. Dey, E. D. Kovetz and S. Paban "Non-Gaussianity in the Cosmological Perturbation Spectrum due to Primordial Anisotropy II" JCAP ${\bf 1210},055$ (2012)	2012
7.	D. Carney, W. Fischler, E. D. Kovetz , D. Lorshbough and S. Paban "Rapid Field Excursions and the Inflationary Tensor Spectrum" JHEP 1211 , 042 (2012)	2012
8.	E. D. Kovetz and M. Kamionkowski "Galaxy-Cluster Masses via 21st-Century Measurements of Lensing of 21-cm Fluctuations" Phys. Rev. D 87 , 063516 (2013)	2013
9.	E. D. Kovetz and M. Kamionkowski "21-cm Lensing and the Cold Spot in the Cosmic Microwave Background" Phys. Rev. Lett. 110, 171301 (2013)	2013
10.	B. Rathaus, E. D. Kovetz and N. Itzhaki "Studying the Peculiar Velocity Bulk Flow in a Sparse Survey of Type-Ia SNe" Mon. Not. Roy. Astron. Soc. 431 , 3678 (2013)	2013

11.	A. Dey, E. D. Kovetz and S. Paban "Power Spectrum and Non-Gaussianities in Anisotropic Inflation" JCAP 1406 , 025 (2014)	2014
12.	A. Ben-David and E. D. Kovetz "A Close Examination of CMB Mirror-Parity after Planck" Mon. Not. Roy. Astron. Soc. 445 , 2116 (2014)	2014
13.	P. C. Breysse, E. D. Kovetz and M. Kamionkowski "Carbon Monoxide Intensity Mapping at Moderate Redshifts" Mon. Not. Roy. Astron. Soc. 443 , 3506 (2014)	2014
14.	B. Rathaus and E. D. Kovetz "The CMB Derivatives of Planck's Beam Asymmetry" Mon. Not. Roy. Astron. Soc. 443 , 750 (2014)	2014
15.	M. Kamionkowski and E. D. Kovetz "Statistical Diagnostics to Identify Galactic Foregrounds in B-mode Maps" Phys. Rev. Lett. 113, 191303 (2014) (featured as a Physics Synopsis and a PRL Editors' Suggestion).	2014
16.	E. D. Kovetz and M. Kamionkowski "Strategy to Minimize Dust Foregrounds in <i>B</i> -mode Searches" Phys. Rev. D 91 , 081303 (2015) [Citations: 10].	2015
17.	P. C. Breysse, E. D. Kovetz and M. Kamionkowski "Masking Line Foregrounds in Intensity Mapping Surveys" Mon. Not. Roy. Astron. Soc. 452 , 3408 (2015)	2015
18.	J. Muñoz, E. D. Kovetz and Yacine Ali-Haïmoud "Heating of Baryons due to Scattering with Dark Matter During the Dark Ages" Phys. Rev. D. 92 , 083528 (2015)	2015
19.	A. Raccanelli, E. D. Kovetz , L. Dai and M. Kamionkowski "Detecting the Integrated Sachs-Wolfe Effect with High-Redshift 21-cm Surveys" Phys. Rev. D 93 , 083512 (2016)	2016
20.	P. C. Breysse, E. D. Kovetz and M. Kamionkowski "The High Redshift Star-Formation History from Carbon-Monoxide Intensity Maps" Mon. Not. Roy. Astron. Soc. 457 , L127 (2016)	2016

21.	L. Dai, M. Kamionkowski, E. D. Kovetz, A. Raccanelli and M. Shiraishi "Antisymmetric Galaxy Cross-Correlations as a Cosmological Probe" Phys. Rev. D. 93, 023507 (2016)	2016
22.	E. D. Kovetz and M. Kamionkowski "Cosmic Bandits: Exploration versus Exploitation in CMB B-Mode Experiments" New Astron. 43 26 (2016)	2016
23.	Y. Ali-Haïmoud, E. D. Kovetz and J. Silk "Flaring of tidally compressed dark-matter clumps" Phys. Rev. D. 93 , 043508 (2016)	2016
24.	J. B. Muñoz, D. Grin, L. Dai, M. Kamionkowski, and E. D. Kovetz "Search for Compensated Isocurvature Perturbations with Planck Power Spectra" Phys. Rev. D. 93 , 043008 (2016)	2016
25.	S. Bird, I. Cholis, J. B. Muñoz, Y. Ali-Haïmoud, M. Kamionkowski, E. D. Kovetz , A. Raccanelli and A. G. Riess "Did LIGO Detect Dark Matter?" Phys. Rev. Lett. 116 , 201301 (2016) (featured as a Physics Synopsis).	2016
26.	A. Raccanelli, E. D. Kovetz , S. Bird, I. Cholis and J. B. Muñoz "Determining the Progenitors of Merging Black Hole Binaries" Phys. Rev. D. 94 , 023516 (2016)	2016
27.	J. B. Muñoz, E. D. Kovetz , L. Dai and M. Kamionkowski "Lensing of Fast Radio Bursts as a Probe of Compact Dark Matter" Phys. Rev. Lett. 117 , 091301 (2016) (featured as a Physics Synopsis and a PRL Editors' Suggestion).	2016
28.	M. Kamionkowski and E. D. Kovetz "The Quest for B Modes from Inflationary Gravitational Waves" Ann. Rev. Astron. Astrophys. 54 , 227-269 (2016)	2016
29.	I. Cholis, E. D. Kovetz , Y. Ali-Haïmoud, S. Bird, J. B. Muñoz, M. Kamionkowski, A. Raccanelli "Orbital Eccentricities in Primordial Black Hole Binaries" Phys. Rev. D. 94 , 084013 (2016)	2016
30.	D. N. Pfeffer, E. D. Kovetz and M. Kamionkowski "Ultra-High-Energy-Cosmic-Ray Hot Spots from Tidal Disruption Events" Mon. Not. Roy. Astron. Soc. 466 , 2922 (2017)	2017

31.	E. D. Kovetz, A. Raccanelli and M. Rahman	2017
	"Cosmological Constraints with Clustering-Based Redshits"	
	Mon. Not. Roy. Astron. Soc. 468 , 3650 (2017)	
32.	P. C. Breysse, E. D. Kovetz , P. S. Behroozi, L. Dai and M. Kamionkowski	2017
	"Insights from Probability Distribution Functions of Intensity Maps"	
	Mon. Not. Roy. Astron. Soc. 467 , 2996 (2017)	
33.	E. D. Kovetz, I. Cholis, P. C. Breysse and M. Kamionkowski	2017
	"Black Hole Mass Function from Gravitational Wave Measurements"	
	Phys. Rev. D. 95 , 103010 (2017)	
34.	J. B. Muñoz, E. D. Kovetz , A. Raccanelli, M. Kamionkowski and J. Silk	2017
	"Towards a measurement of the spectral runnings"	
	JCAP 1705 , 032 (2017)	
35.	E. D. Kovetz	2017
	"Probing Primordial-Black-Hole Dark Matter with Gravitational Waves"	
	Phys. Rev. Lett. 119 , 131301 (2017)	
36.	Y. Ali-Haïmoud, E. D. Kovetz and M. Kamionkowski	2017
	"Merger rate of primordial-black-hole binaries"	
	Phys. Rev. D. 96 , 123523 (2017)	
37.	F. Finelli et al. (total of 95 contributing authors, including ${\bf E.~D.~Kovetz}$)	2018
	"Exploring Cosmic Origins with CORE: Inflation"	
	JCAP 1804 , 016 (2018)	
38.	E. D. Kovetz, I. Cholis, M. Kamionkowski and J. Silk	2018
	"Limits on Runaway Growth of Intermediate Mass Black Holes from Advanced LIGO"	
	Phys. Rev. D. 97 , 123003 (2018)	
39.	E. D. Kovetz , V. Poulin, V. Gluscevic, K. K. Boddy, R. Barkana and M. Kamionkowski	2018
	"Tighter Limits on Dark Matter Explanations of the Anomalous EDGES 21cm Signal"	
	Phys. Rev. D. 98 , 103529 (2018)	
40.	K. K. Boddy, V. Gluscevic, V. Poulin, E. D. Kovetz , M. Kamionkowski and R. Barkana	2018
	"Critical Assessment of CMB Limits on Dark Matter-Baryon Scattering: New Treatment of the Relative Bulk Velocity"	
	Phys. Rev. D. 98 , 123506 (2018)	
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41.	"Expanding the LISA Horizon from the Ground" Phys. Rev. Lett. 121, 251102 (2018)	2018
42.	L. Ji, E. D. Kovetz and Marc Kamionkowski "Strong Lensing of Gamma Ray Bursts as a Probe of Compact Dark Matter" Phys. Rev. D 98 , 123523 (2018)	2018
43.	H. Nishikawa, E. D. Kovetz , M. Kamionkowski and J. Silk "Primordial-black-hole mergers in dark-matter spikes" Phys. Rev. D 99 , 043533 (2019)	2019
44.	E. D. Kovetz , I Cholis and D. E. Kaplan "Bounds on Ultra-Light Hidden-Photon Dark Matter from 21cm at Cosmic Dawn" Phys. Rev. D 99 , 123511 (2019)	2019
45.	 J. L. Bernal, A. Raccanelli, E. D. Kovetz, D. Parkinson, R. P. Norris, G. Danforth and C. Schmitt "Probing ΛCDM cosmology with the Evolutionary Map of the Universe survey" JCAP 02 2019, 030 (2019) 	2019
46.	C. Zeng, E. D. Kovetz , X. Chen, J. B. Muñoz and Marc Kamionkowski "Searching for Oscillations in the Primordial Power Spectrum with CMB and LSS Data" Phys. Rev. D 99 , 043517 (2019)	2019
47.	C. Creque-Sarbinowski, L. Ji, E. D. Kovetz , and M. Kamionkowski "Direct millicharged dark matter cannot explain EDGES" Phys. Rev. D 100 , 023528 (2019)	2019
48.	G. Sato-Polito, E. D. Kovetz and M. Kamionkowski "Constraints on the primordial curvature power spectrum from primordial black holes" Phys. Rev. D 100 , 063521 (2019)	2019
49.	J. L. Bernal, P. C. Breysse and E. D. Kovetz "Cosmic Expansion History from Line-Intensity Mapping" Phys. Rev. Lett. 123 , 251301 (2019)	2019
50.	J. L. Bernal, P. C. Breysse, H. Gil-Marín and E. D. Kovetz "User's Guide to Extracting Cosmological Information from Line-Intensity Maps" Phys. Rev. D 100 , 123522 (2019)	2019
51.	G. Sato-Polito, J. L. Bernal, E. D. Kovetz and M. Kamionkowski "Antisymmetric cross-correlation of line-intensity maps as a probe of reionization" Phys. Rev. D 102 , 043519 (2020)	2020
52.	C. Unal, E. D. Kovetz and S. Patil "Multi-messenger Probes of Inflationary Fluctuations and Primordial Black Holes" Phys. Rev. D 103 , 063519 (2021)	2021

	"CMB-S4: Forecasting Constraints on Primordial Gravitational Waves" Astrophys. J. 926 1, 54 (2022).	
54.	T. Abadi and E. D. Kovetz "Can Conformally Coupled Modified Gravity Solve The Hubble Tension?" Phys. Rev. D, 103 , 023530 (2021)	2021
55.	J. Flitter, J. B. Muñoz and E. D. Kovetz "Outliers in the LIGO Black Hole Mass Function from Coagulation in Dense Clusters" Mon. Not. Roy. Astron. Soc. 507 , 743 (2021)	2021
56.	T. Abadi and E. D. Kovetz "Probing Gravitational Slip with Strong Lensing of Fast Radio Bursts" Phys. Rev. D, 104 , 103515 (2021)	2021
57.	K. Krochek and E. D. Kovetz "Constraining Primordial Black Hole Dark Matter with CHIME Fast Radio Bursts" Phys. Rev. D, 105 , 103528 (2022)	2022
58.	D. Sarkar, J. Flitter and E. D. Kovetz "Exploring delaying and heating effects on the 21-cm signature of fuzzy dark matter" Phys. Rev. D, 105 , 103529 (2022)	2022
59.	J. Flitter and E. D. Kovetz "Closing the window on fuzzy dark matter with the 21-cm signal" Phys. Rev. D, 106 , 063504 (2022)	2022
60.	S. Libanore, C. Unal, D. Sarkar and E. D. Kovetz "Unveiling cosmological information on small scales with line intensity mapping" Phys. Rev. D, 106 , 123512 (2022)	2022
61.	D. Sarkar and E. D. Kovetz "Measuring the cosmic expansion rate using 21-cm velocity acoustic oscillations" Phys. Rev. D, 107 , 023524 (2022)	2022
62.	C. Unal, F. R. Urban and E. D. Kovetz "Probing ultralight scalar, vector and tensor dark matter with pulsar timing arrays" Submitted for publication in Physical Letters B, arXiv:2209.02741 (2022)	2022
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Last updated: December 21, 2023