

Marc Kamionkowski

William R. Kenan Jr. Professor
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Personal

Born on 27 July 1965.

United States Citizen.

Education

B.A. (*summa cum laude*) Physics, Washington University in St. Louis, 1987

Ph.D. Physics, University of Chicago, 1991

Professional History

William R. Kenan, Jr. Professor of Physics and Astronomy, Johns Hopkins University, 2016–

Professor of Physics and Astronomy, Johns Hopkins University, 2011–2015

Robinson Professor of Theoretical Physics and Astrophysics, California Institute of Technology, 2006–2012

Miller Visiting Research Professor, Department of Physics, University of California, Berkeley, Fall 2010

Founding Director, Moore Center for Theoretical Cosmology and Physics, Caltech, 2006–2011

Professor of Theoretical Physics and Astrophysics, California Institute of Technology, 1999–2006

Associate Professor, Department of Physics, Columbia University, 1998–1999

Assistant Professor, Department of Physics, Columbia University, 1994–1998

Long-Term Member, Institute for Advanced Study, 1994

Member, Institute for Advanced Study, 1991–1994

Awards and Honors

Fellow, American Association for the Advancement of Science, 2017

Hans Jensen Lecturer, University of Heidelberg, October 2017

Finalist, Krieger School of Arts and Sciences Excellence in Teaching Award (for Graduate Teaching and Mentoring), 2017

Fellow, International Society of General Relativity and Gravitation, 2016
Dannie Heineman Prize for Astrophysics, AAS/AIP, 2015
Distinguished Fellow, Kosciuszko Foundation Collegium of Eminent Scientists, 2014
Simons Foundation Investigator, 2014–2019
Rosenblum Lecturer, Hebrew University, March 2014
Member, American Academy of Arts and Sciences, 2013
Shaker Heights High School Hall of Fame, Elected 2013
Fellow, American Physical Society, 2008
DoE Ernest O. Lawrence Award (High Energy and Nuclear Physics), 2006
DoE Outstanding Junior Investigator, 1998–1999
Helen B. Warner Prize, American Astronomical Society, 1998
Alfred P. Sloan Foundation Fellow, 1996–1998
SSC National Fellow, 1991–1993
NASA GSRP Fellow, July 1989–Sept 1991
Phi Beta Kappa, May 1986
National Merit Scholar, 1983–1987

Professional Societies

American Academy of Arts and Sciences
Astronomical Society of the Pacific
American Association for the Advancement of Science
American Physical Society
American Astronomical Society
International Society of General Relativity and Gravitation

Professional Service

Editor in Chief, *Physics Reports*, 2008–present
Astrophysics and Cosmology Editor, *Physics Reports*, 1998–present
Chair, External Review Committee, Washington University Physics Department, September 2017
Advisor, Simons Foundation Origins of the Universe initiative, 2017–present
Member, HST Fundamental Physics Working Group, 2017

Member, Local Organizing Committee, Second Annual Intensity Mapping Workshop, Johns Hopkins University, 12–14 June 2017

External Review Committee, Brown University Department of Physics, April 2017

Five-Year Expert Panel Review Committee, Canadian Institute for Advanced Research “Cosmology & Gravity” program, 2016

APS Hans A. Bethe Prize Selection Committee, 2017–2019

CERN-TH Advisory Committee on Cosmology, 2016

NSF/DoE Nuclear Science Advisory Committee Subcommittee on Neutrino-less Double Beta Decay, 2015

Member-at-Large, Division of Astrophysics Executive Committee of the American Physical Society, 2015–2017

Trustee, Aspen Center for Physics, 2010–

Search Committee Member for Director, Oskar Klein Centre, Stockholm University, 2015

DoE HEP INSPIRE Review Panel, 2015

Member, NSF MPS AC Subcommittee on NSF Response to the P5 Strategic Plan, 2014–2015

Member, Nominations Committee for arXiv Scientific Advisory Board, 2014

Member, Advisory Board, The Buchalter Cosmology Prize, 2014–

Advisor, Simons Foundation Physics Programs, 2011–2012

Member, Nominating Committee, Division of Astrophysics, American Physical Society, 2009

Member, Particle Astrophysics Scientific Assessment Group (PASAG), 2009

Member, Cosmology and Fundamental Physics Panel of Astro2010 (Astronomy and Astrophysics Decadal Survey), 2009–2010

Co-organizer, “New Horizons for Modern Cosmology,” a workshop at the Galileo Galilei Institute for Theoretical Physics, Florence, January–March 2009

Co-organizer, “Understanding the Dark Sector: Dark Matter and Dark Energy,” Aspen Winter Workshop, January 2009

Co-organizer, Aspen Winter Workshop on the CMB, January 2008

Fermilab Research Alliance Visiting Committee, 2008–2011

Member, Advisory Board, *Journal of Cosmology and Astroparticle Physics*, 2005–

Scientific Secretary (2009) and Assistant Scientific Secretary (2008), Aspen Center for Physics

Member, Aspen Center for Physics, 2004–2013

Annual Program Review Committee, Fermilab, 2007

Receiving Editor, *Journal of Cosmology and Astroparticle Physics*, 2002–2005

Receiving Editor, *Journal of High Energy Physics*, 1997–2003

External Advisory Committee, Physics Division, Lawrence Berkeley Laboratory, 2004–2005
 Member, Dark Energy Task Force, 2005–2006
 External Advisory Committee, VERITAS, 2003–2004
 Advisory Committee, NSF Center for Cosmological Physics (University of Chicago), 2002–2004.
 Particle Physics Project Prioritization Panel (P5), 2002–2004.
 Co-organizer, 15th Annual Beckman U.S. Frontiers of Science Symposium, November 2003, Irvine, CA
 Co-convenor, Working Group P4 on Astro/Cosmo/Particle Physics for the workshop, Snowmass 2001: The Future of Particle Physics
 Referee for the reports of the Committee on Physics of the Universe, 2000, 2002
 Theory and Computation Panel, NAS Astronomy and Astrophysics Survey Committee, 1998–2000
 Internal Referee for the report of the Astronomy and Astrophysics Survey Committee, 1999–2000
 NASA/NSF/DoE Cosmic Genesis and Fundamental Physics Working Group, 1999–2000
 NASA Structure and Evolution of the Universe Subcommittee, 1998–2002
 NASA Science Working Group and Facilities Science Team for the Gamma Ray Large Area Space Telescope, 1996–1999
 NASA Ad Hoc Committee on Future Cosmic Microwave Background Missions 1998–1999
 Co-organizers, “Theoretical Astrophysics in Southern California (TASC),” a workshop held at Caltech, October 26, 2001
 Coordinator, “The New Cosmology Confronts Observation: The Cosmic Microwave Background, Dark Matter, Dark Energy, and Brane Worlds,” an ITP (Santa Barbara) workshop held August–December 2002
 Coordinator, “Probing the Universe with the Cosmic Microwave Background,” an ITP (Santa Barbara) mini-workshop, July 2000.
 Co-organizer, Aspen workshop on “The Dark Side of the Universe,” Aspen, CO, June 2000.
 Co-organizer, “Energy Densities in the Universe,” Les Arcs, France, January 2000.
 Super-convenor for “Origin of the Universe” session of the Workshop on Cosmic Genesis and Fundamental Physics, Sonoma State University, October 28–30, 1999.

Advising

Ph.D. Students

Current Students

Tanvi Karwal (Ph.D. 2018)
 Daniel Pfeffer (Ph.D. 2018)
 Hiro Nishikawa (PhD. 2020)
 Bhaskar Balaji (Ph.D. 2020)
 Cyril Creque-Sarbinowski (Ph.D. 2021)

Past Students

Patrick Breysse, Ph.D. 2017 (Postdoc, CITA)
Julian Muñoz, Ph.D. 2017 (Postdoc, Harvard)
Liang Dai, Ph.D. 2015 (Einstein Fellow, IAS)
Vera Gluscevic, Ph.D. 2013 (Postdoc, IAS)
Samuel Lee, Ph.D. 2012 (Computational Scientist, MIT/Harvard Broad Institute)
Laura Book, Ph.D. 2012 (Software engineer, Google)
Anthony Pullen, Ph.D. 2011 (assistant professor, New York University)
Daniel Grin, Ph.D. 2010 (assistant professor, Haverford College)
Adrienne Erickcek, Ph.D. 2009 (assistant professor, U. of North Carolina)
Tristan L. Smith, Ph.D. 2008 (assistant professor, Swarthmore College)
Jonathan Pritchard, Ph.D. 2007 (senior lecturer, Imperial College)
Kris R. Sigurdson, Ph.D. 2005 (associate professor, University of British Columbia)
Nevin N. Weinberg, Ph.D. 2005 (assistant professor, MIT)
Michael H. Kesden, Ph.D. 2005 (assistant professor, UT Dallas)
Michael R. Santos, Ph.D. 2004 (Deputy Director, Bill and Melinda Gates Foundation)
Alexandre Refregier, Ph.D. 1997 (Professor, Zurich)
Catherine Cress, Ph.D. 1998 (Professor, University of the Western Cape, South Africa)
Xuelei Chen, Ph.D. 1999 (Professor, National Astronomical Observatories, China)
Ari Buchalter, Ph.D. 1999 (CoO, MediaMath)

Postdocs

Current Postdocs

Ely Kovetz 2014–
Simeon Bird, 2015–
Ilias Cholis, 2015–
Tomohiro Nakama, 2016–
Kim Boddy, 2017–
Vivian Poulin, 2017–

Past Postdocs

Yacine Ali-Haimoud, 2014–2017 (assistant professor, NYU)
Alvise Raccanelli, 2014–2016 (Marie Curie Fellow, Barcelona)
Jennifer Siegal-Gaskins, 2011–2014 (GRAPPA, Amsterdam)
Jens Chluba, 2012–2014 (Royal Society Fellow, Manchester)
Donghui Jeong, 2010–2014 (assistant professor, Penn State)
Josef Pradler, 2012–2014 (assistant professor, Vienna)
Matthew Kistler, 2010–2011 (postdoc, Stanford)
Fabian Schmidt, 2009–2012 (faculty, Max Planck Institute Garching)
Shin'ichiro Ando, 2006–2011 (associate professor, U. of Amsterdam)
Daniel Babich, 2006–2008 (Fortelus Capital Management)
Annika Peter, 2007–2010 (assistant professor, Ohio State U.)
Daisuke Nagai, 2005–2008 (associate professor, Yale University)
Stefano Profumo, 2005–2007 (professor, University of California, Santa Cruz)
Nicole Bell, 2004–2006 (associate professor, University of Melbourne)
Elena Pierpaoli, 2004–2006 (professor, University of Southern California)
Steven Furlanetto 2003–2006 (professor, UCLA)
Eric Agol, 2000–2003 (professor, University of Washington)
Andriy Kurylov, 2002–2004 (JP Morgan Chase)
Lara Arielle Phillips, 2002–2005 (research assistant professor, Notre Dame University)
Milos Milosavljevic, 2002–2006 (associate professor, University of Texas, Austin)
Asantha Cooray, 2001–2004 (professor, UC Irvine)
Andrew Benson, 2000–2003 (Scientist, Carnegie Observatories)
Paolo Catelan, 2000–2001
Siang-Peng Oh, 2000–2003 (professor, UC Santa Barbara)
Kenneth Nollett, 2000–2002 (professor, San Diego State)
Limin Wang, 1998–2000 (SMG Quantitative)
Piero Ullio, 1999–2000 (professor, SISSA, Trieste)
Frank J. Summers, July 1996–March 1998 (scientist, Space Telescope Science Institute)

Publications

Submitted Articles

2. **“Line-Intensity Mapping: 2017 Status Report”** E. D. Kovetz, M. P. Viero, A. Lidz, L. Newburgh, M. Rahman, E. Switzer, M. Kamionkowski *et al.*, arXiv:1709.09066 [astro-ph.CO].
1. **“Primordial-black-hole mergers in dark-matter spikes,”** H. Nishikawa, E. D. Kovetz, M. Kamionkowski and J. Silk. arXiv:1708.08449 [astro-ph.CO]. Submitted to Phys. Rev. D.

Refereed Journal Articles

220. **“The merger rate of primordial-black-hole binaries”** Y. Ali-Haïmoud, E. D. Kovetz and M. Kamionkowski, arXiv:1709.06576 [astro-ph.CO]. To appear in Phys. Rev. D.
219. **“Large-Distance Lens Uncertainties and Time-Delay Measurements of H_0 ,”** J. B. Muñoz and M. Kamionkowski. arXiv:1708.08454 [astro-ph.CO]. To appear in Phys. Rev. D.
218. **“Shedding light on the small-scale crisis with CMB spectral distortions,”** T. Nakama, J. Chluba and M. Kamionkowski, Phys. Rev. D. **95**, 121302(R) (2017) (Editor’s suggestion, and featured as a *Physics* Synopsis) [arXiv:1703.10559 [astro-ph.CO]].
217. **“Black Hole Mass Function from Gravitational Wave Measurements,”** E. D. Kovetz, I. Cholis, P. C. Breysse and M. Kamionkowski, Phys. Rev. D. **95**, 103010 (2017) [arXiv:1611.01157 [astro-ph.CO]].
216. **“Towards a measurement of the spectral runnings,”** J. B. Muñoz, E. D. Kovetz, A. Raccanelli, M. Kamionkowski and J. Silk, JCAP **1705**, 032 (2017) [arXiv:1611.05883 [astro-ph.CO]].
215. **“Dust polarization and ISM turbulence,”** R. R. Caldwell, C. Hirata and M. Kamionkowski, Astro-phys. J. **839**, 91 (2017) [arXiv:1608.08138 [astro-ph.GA]].
214. **“Cosmic microwave background limits on accreting primordial black holes,”** Y. Ali-Haïmoud and M. Kamionkowski, Phys. Rev. D **95**, no. 4, 043534 (2017) (Editor’s Suggestion) [arXiv:1612.05644 [astro-ph.CO]].
213. **“Stochastic gravitational waves associated with the formation of primordial black holes,”** T. Nakama, J. Silk and M. Kamionkowski, Phys. Rev. D. **95**, no. 4, 043511 (2017) [arXiv:1612.06264 [astro-ph.CO]].
212. **“Insights from probability distribution functions of intensity maps,”** P. C. Breysse, E. D. Kovetz, P. S. Behroozi, L. Dai and M. Kamionkowski, Mon. Not. R. Astron. Soc. **467**, 2996 [arXiv:1609.01728 [astro-ph.CO]].
211. **“Ultra-high-energy-cosmic-ray hot spots from tidal disruption events,”** D. N. Pfeffer, E. D. Kovetz and M. Kamionkowski, Mon. Not. R. Astron. Soc. **466**, 2922 (2017) [arXiv:1512.04959 [astro-ph.HE]].
210. **“Evolution of CMB spectral distortion anisotropies and tests of primordial non-Gaussianity,”** J. Chluba, E. Dimastrogiovanni, M. A. Amin and M. Kamionkowski, Mon. Not. R. Astron. Soc. **466**, 2390 (2017) [arXiv:1610.08711 [astro-ph.CO]].
209. **“Early dark energy, the Hubble-parameter tension, and the string axiverse,”** T. Karwal and M. Kamionkowski, Phys. Rev. D **94**, no. 10, 103523 (2016) [arXiv:1608.01309 [astro-ph.CO]].
208. **“Orbital eccentricities in primordial black holes binaries,”** I. Cholis, E. D. Kovetz, Y. Ali-Haïmoud, S. Bird, M. Kamionkowski, J. B. Muñoz and A. Raccanelli, Phys. Rev. D **94**, no. 8, 084013 (2016) [arXiv:1606.07437 [astro-ph.HE]].

207. **“Cross-correlation between thermal Sunyaev-Zeldovich effect and the integrated Sachs-Wolfe effect,”** C. Creque-Sarbinowski, S. Bird and M. Kamionkowski, *Phys. Rev. D* **94**, 063519 [arXiv:1606.00839 [astro-ph.CO]].
206. **“Lensing of Fast Radio Bursts as a Probe of Compact Dark Matter,”** J. B. Muñoz, E. D. Kovetz, L. Dai and M. Kamionkowski, *Phys. Rev. Lett.* **117**, 091301 (2016) (Editor’s Suggestion) [arXiv:1605.00008 [astro-ph.CO]].
205. **“Curvature constraints from Large Scale Structure,”** E. Di Dio, F. Montanari, A. Raccanelli, R. Durrer, M. Kamionkowski and J. Lesgourgues, *JCAP* **1606**, no. 06, 013 (2016) [arXiv:1603.09073 [astro-ph.CO]].
204. **“Violation of statistical isotropy and homogeneity in the 21-cm power spectrum,”** M. Shiraishi, J. B. Muñoz, M. Kamionkowski and A. Raccanelli, *Phys. Rev. D* **93**, no. 10, 103506 (2016) [arXiv:1603.01206 [astro-ph.CO]].
203. **“Did LIGO detect dark matter?”** S. Bird, I. Cholis, J. B. Muñoz, Y. Ali-Haïmoud, M. Kamionkowski, E. D. Kovetz, A. Raccanelli and A. G. Riess, *Phys. Rev. Lett.* **116**, 201301 (2016) (Featured as a *Physics* Synopsis) [arXiv:1603.00464 [astro-ph.CO]].
202. **“Cosmological tests of an axiverse-inspired quintessence field,”** R. Emami, D. Grin, J. Pradler, A. Raccanelli and M. Kamionkowski, *Phys. Rev. D* **93**, no. 12, 123005 (2016) [arXiv:1603.04851 [astro-ph.CO]]. (Mar 15, 2016)
201. **“Search for Compensated Isocurvature Perturbations with Planck Power Spectra,”** J. B. Muñoz, D. Grin, L. Dai, M. Kamionkowski and E. D. Kovetz, *Phys. Rev. D* **93**, 043008 (2016) [arXiv:1511.04441 [astro-ph.CO]].
200. **“The high redshift star-formation history from carbon-monoxide intensity maps,”** P. C. Breyse, E. D. Kovetz and M. Kamionkowski, *Mon. Not. Roy. Astron. Soc.* **457**, L127 (2016) [arXiv:1507.06304 [astro-ph.CO]].
199. **“Antisymmetric galaxy cross-correlations as a cosmological probe,”** L. Dai, M. Kamionkowski, E. D. Kovetz, A. Raccanelli and M. Shiraishi, *Phys. Rev. D* **93**, 023507 (2016) [arXiv:1507.05618 [astro-ph.CO]].
198. **“Constraints on Dark Matter Interactions with Standard Model Particles from Cosmic Microwave Background Spectral Distortions,”** Y. Ali-Haïmoud, J. Chluba and M. Kamionkowski, *Phys. Rev. Lett.* **115**, 071304 (2015) [arXiv:1506.04745 [astro-ph.CO]].
197. **“Primordial non-gaussianity from the bispectrum of 21-cm fluctuations in the dark ages,”** J. B. Muñoz, Y. Ali-Haïmoud and M. Kamionkowski, *Phys. Rev. D* **92**, 083508 (2015) (Editor’s Suggestion) [arXiv:1506.04152 [astro-ph.CO]].
196. **“Imprints of Massive Primordial Fields on Large-Scale Structure,”** E. Dimastrogiovanni, M. Fasiello and M. Kamionkowski, *JCAP* **1602**, 017 (2016) [arXiv:1504.05993 [astro-ph.CO]].
195. **“Probing the scale dependence of non-Gaussianity with spectral distortions of the cosmic microwave background,”** R. Emami, E. Dimastrogiovanni, J. Chluba and M. Kamionkowski, *Phys. Rev. D* **91**, 123531 (2015) [arXiv:1504.00675 [astro-ph.CO]].
194. **“Masking line foregrounds in intensity mapping surveys,”** P. C. Breyse, E. D. Kovetz and M. Kamionkowski, *Mon. Not. Roy. Astron. Soc.* **452**, 3408 (2015) [arXiv:1503.05202 [astro-ph.CO]].
193. **“Detecting the integrated Sachs-Wolfe effect with high-redshift 21-cm surveys,”** A. Raccanelli, E. Kovetz, L. Dai and M. Kamionkowski, *Phys. Rev. D* **93**, 083512 (2016) [arXiv:1502.03107 [astro-ph.CO]].

192. **“Strategy to minimize dust foregrounds in B-mode searches,”** E. D. Kovetz and M. Kamionkowski, Phys. Rev. D **91**, 081303 (2015) [arXiv:1502.00625 [astro-ph.CO]].
191. **“An Ultimate Target for Dark Matter Searches,”** K. Blum, Y. Cui and M. Kamionkowski, Phys. Rev. D **92**, 023528 (2015) [arXiv:1412.3463 [hep-ph]].
190. **“Equation-of-State Parameter for Reheating,”** J. B. Muñoz and M. Kamionkowski, Phys. Rev. D **91**, 043521 (2015) [arXiv:1412.0656 [astro-ph.CO]].
189. **“Dark energy from the string axiverse,”** M. Kamionkowski, J. Pradler and D. G. E. Walker, Phys. Rev. Lett. **113**, 251302 (2014) [arXiv:1409.0549 [hep-ph]].
188. **“The redshift-space galaxy two-point correlation function and baryon acoustic oscillations,”** D. Jeong, L. Dai, M. Kamionkowski and A. S. Szalay, Mon. Not. Roy. Astron. Soc. **449**, 3312 (2015) [arXiv:1408.4648 [astro-ph.CO]].
187. **“Statistical diagnostics to identify Galactic foregrounds in B-mode maps,”** M. Kamionkowski and E. D. Kovetz, Phys. Rev. Lett. **113**, 191303 (2014) (Featured as a *Physics* Synopsis) [arXiv:1408.4125 [astro-ph.CO]].
186. **“Inflationary tensor fossils in large-scale structure,”** E. Dimastrogiovanni, M. Fasiello, D. Jeong and M. Kamionkowski, JCAP **1412**, 050 (2014) [arXiv:1407.8204 [astro-ph.CO]].
185. **“Spectral distortions from the dissipation of tensor perturbations,”** J. Chluba, L. Dai, D. Grin, M. Amin and M. Kamionkowski, Mon. Not. Roy. Astron. Soc. **446**, 2871 (2015) [arXiv:1407.3653 [astro-ph.CO]].
184. **“Carbon Monoxide Intensity Mapping at Moderate Redshifts,”** P. C. Breysse, E. D. Kovetz and M. Kamionkowski, Mon. Not. Roy. Astron. Soc. **443**, 3506 (2014) [arXiv:1405.0489 [astro-ph.CO]].
183. **“Reheating constraints to inflationary models,”** L. Dai, M. Kamionkowski and J. Wang, Phys. Rev. Lett. **113**, 041302 (2014) [arXiv:1404.6704 [astro-ph.CO]].
182. **“Tensor-induced B modes with no temperature fluctuations,”** M. Kamionkowski, L. Dai and D. Jeong, Phys. Rev. D **89**, 107302 (2014) [arXiv:1404.3730 [astro-ph.CO]].
181. **“Linking the BICEP2 result and the hemispherical power asymmetry through spatial variation of r ,”** J. Chluba, L. Dai, D. Jeong, M. Kamionkowski and A. Yoho, Mon. Not. Roy. Astron. Soc. **442**, 670 (2014) [arXiv:1404.2798 [astro-ph.CO]].
180. **“Silk damping at a redshift of a billion: a new limit on small-scale adiabatic perturbations,”** D. Jeong, J. Pradler, J. Chluba and M. Kamionkowski, Phys. Rev. Lett. **113**, 061301 (2014) [arXiv:1403.3697 [astro-ph.CO]].
179. **“Constraining Dark Matter-Baryon Scattering with Linear Cosmology,”** C. Dvorkin, K. Blum and M. Kamionkowski, Phys. Rev. D **89**, 023519 (2014) [arXiv:1311.2937 [astro-ph.CO]].
178. **“The effect of aberration on partial-sky measurements of the cosmic microwave background temperature power spectrum,”** D. Jeong, J. Chluba, L. Dai, M. Kamionkowski and X. Wang, Phys. Rev. D **89**, 023003 (2014) [arXiv:1309.2285 [astro-ph.CO]].
177. **“Multiple scattering Sunyaev-Zeldovich signal I: lowest order effect,”** J. Chluba, L. Dai and M. Kamionkowski, Mon. Not. Roy. Astron. Soc. **437**, 67 (2014) [arXiv:1308.5969 [astro-ph.CO]].
176. **“Cosmic Bandits: Exploration versus Exploitation in CMB B-Mode Experiments,”** E. D. Kovetz and M. Kamionkowski, New Astron. **43**, 26 (2016) [arXiv:1308.1404 [astro-ph.IM]].

175. **"Baryons do trace dark matter 380,000 years after the big bang: Search for compensated isocurvature perturbations with WMAP 9-year data,"** D. Grin, D. Hanson, G. P. Holder, O. DorÄl and M. Kamionkowski, Phys. Rev. D **89**, 023006 (2014) [arXiv:1306.4319 [astro-ph.CO]].
174. **"Anisotropic imprint of long-wavelength tensor perturbations on cosmic structure,"** L. Dai, D. Jeong and M. Kamionkowski, Phys. Rev. D **88**, 043507 (2013) [arXiv:1306.3985 [astro-ph.CO]].
173. **"Oscillations and stability of polytropic filaments,"** P. C. Breysse, M. Kamionkowski and A. Benson, Mon. Not. Roy. Astron. Soc. **437**, 2675 (2014) [arXiv:1305.2198 [astro-ph.CO]].
172. **"The Pesky Power Asymmetry,"** L. Dai, D. Jeong, M. Kamionkowski and J. Chluba, Phys. Rev. D **87**, 123005 (2013) [arXiv:1303.6949 [astro-ph.CO]].
171. **"Seeking Inflation Fossils in the Cosmic Microwave Background,"** L. Dai, D. Jeong and M. Kamionkowski, Phys. Rev. D **87**, 103006 (2013) [arXiv:1302.1868 [astro-ph.CO]].
170. **"What if Planck's Universe isn't flat?"** P. Bull and M. Kamionkowski, Phys. Rev. D **87**, 081301 (2013), Erratum: [Phys. Rev. D **87**, 129901 (2013)] [arXiv:1302.1617 [astro-ph.CO]].
169. **"Wigner-Eckart theorem in cosmology: Bispectra for total-angular-momentum waves,"** L. Dai, D. Jeong and M. Kamionkowski, Phys. Rev. D **87**, 043504 (2013) [arXiv:1211.6110 [astro-ph.CO]].
168. **"21-cm Lensing and the Cold Spot in the Cosmic Microwave Background,"** E. D. Kovetz and M. Kamionkowski, Phys. Rev. Lett. **110**, 171301 (2013) [arXiv:1211.4610 [astro-ph.CO]].
167. **"Improved estimator for non-Gaussianity in cosmic microwave background observations,"** T. L. Smith, D. Grin and M. Kamionkowski, Phys. Rev. D **87**, 063003 (2013) [arXiv:1211.3417 [astro-ph.CO]].
166. **"Patchy Screening of the Cosmic Microwave Background by Inhomogeneous Reionization,"** V. Gluscevic, M. Kamionkowski and D. Hanson, Phys. Rev. D **87**, 047303 (2013) [arXiv:1210.5507 [astro-ph.CO]].
165. **"Galaxy-Cluster Masses via 21st-Century Measurements of Lensing of 21-cm Fluctuations,"** E. D. Kovetz and M. Kamionkowski, Phys. Rev. D **87**, 063516 (2013) [arXiv:1210.3041 [astro-ph.CO]].
164. **"Total Angular Momentum Waves for Scalar, Vector, and Tensor Fields,"** L. Dai, M. Kamionkowski and D. Jeong, Phys. Rev. D **86**, 125013 (2012) [arXiv:1209.0761 [astro-ph.CO]].
163. **"Vacuum Instability in Chern-Simons Gravity,"** S. Dyda, E. E. Flanagan and M. Kamionkowski, Phys. Rev. D **86**, 124031 (2012) [arXiv:1208.4871 [gr-qc]].
162. **"First CMB Constraints on Direction-Dependent Cosmological Birefringence from WMAP-7,"** V. Gluscevic, D. Hanson, M. Kamionkowski and C. M. Hirata, Phys. Rev. D **86**, 103529 (2012) [arXiv:1206.5546 [astro-ph.CO]].
161. **"The probability distribution for non-Gaussianity estimators constructed from the CMB trispectrum,"** T. L. Smith and M. Kamionkowski, Phys. Rev. D **86**, 063009 (2012) [arXiv:1203.6654 [astro-ph.CO]].
160. **"Clustering Fossils from the Early Universe,"** D. Jeong and M. Kamionkowski, Phys. Rev. Lett. **108**, 251301 (2012) [arXiv:1203.0302 [astro-ph.CO]].
159. **"Dark Matter Detection with Polarized Detectors,"** C. T. Chiang, M. Kamionkowski and G. Z. Krnjaic, Phys. Dark Univ. **1**, 109 (2012) [arXiv:1202.1807 [astro-ph.CO]].
158. **"Improved constraints on the expansion rate of the Universe up to z 1.1 from the spectroscopic evolution of cosmic chronometers,"** M. Moresco *et al.*, JCAP **1208**, 006 (2012) [arXiv:1201.3609 [astro-ph.CO]].

157. **"Lensing of 21-cm Fluctuations by Primordial Gravitational Waves,"** L. Book, M. Kamionkowski and F. Schmidt, *Phys. Rev. Lett.* **108**, 211301 (2012) [arXiv:1112.0567 [astro-ph.CO]].
156. **"Charged Particle Decay at Finite Temperature,"** A. Czarnecki, M. Kamionkowski, S. K. Lee and K. Melnikov, *Phys. Rev. D* **85**, 025018 (2012) [arXiv:1110.2171 [hep-ph]].
155. **"Correlation of inflation-produced magnetic fields with scalar fluctuations,"** R. R. Caldwell, L. Motta and M. Kamionkowski, *Phys. Rev. D* **84**, 123525 (2011) [arXiv:1109.4415 [astro-ph.CO]].
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"Black holes and dark Matter," talk at Quarknet 2017, Johns Hopkins University, July 27, 2017.

"Cosmic Ripples from Black Holes and the Big Bang," public lecture at the Vienna Natural History Museum, Vienna, Austria, 1 December 2016.

"Did LIGO Detect Dark Matter?" talk at Quarknet 2016, Johns Hopkins University, July 26, 2016.

Interviewed on Voice of America's "Press Conference US," 8 July 2016, about black holes and dark matter.

Interviewed about LIGO on ABC2 News "In Focus," 23 February 2016.

"Secrets from the Early Universe," interview on *StarSpot* podcast, 19 April 2015.

"A Telegram from the Early Universe?" public lecture at the Origins Institute, McMaster University, Hamilton, Ontario, 2 December 2014.

"A Telegram from the Early Universe?" public lecture at the Cleveland Museum of Natural History, 14 November 2014.

"Dark matter and the equivalence principle," a discussion for physics students at Shaker Heights High School, 14 November 2014.

"A Telegram from the Early Universe?" public lecture at the Space Telescope Science Institute, 11 November 2014.

"A Telegram from the Early Universe?" invited talk at *New Horizons in Science*, sponsored by the Council for the Advancement of Science Writing, Columbus, OH, 20 October 2014.

Interviewed for NHK Japan TV documentary series, "Cosmic Front," episode to be aired 27 November 2014.

Interviewed about inflation for Russian TV channel LIFENEWS, 22 August 2014.

"Unraveling the Early Universe with the Cosmic Microwave Background," talk at Quarknet 2014, Johns Hopkins University, July 30, 2014.

Distinguished Outside Expert for Harvard-Smithsonian Center for Astrophysics press conference announcing new results from the BICEP2 collaboration, 17 March 2014.

"Beauty and Blemishes in the Universe," Aspen Center for Physics public lecture, 22 Aug 2013, Aspen, CO.

Interviewed for Aspen Physics Previews, Grassroots TV, Aspen, CO, 14 Aug 2013.

Guest on Kathleen Dunn show, Wisconsin Public Radio, 30 April 2013.

Distinguished Outside Expert for NASA's news teleconference on Planck cosmology findings, 21 March 2013.

Interviewed for Euronews TV special, "Planck Maps the Dawn of Time," released 21 March 2013.

"Dark Matter, the Equivalence Principle, and the Sagittarius Dwarf Galaxy," talk at Quarknet 2012, Johns Hopkins University, August 2, 2012.

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"Birth of the Universe," LIGO popular talk, Richland, WA, August 12, 2001.

"Birth of the Universe," invited talk at the Jack R. Howard Science Reporting Institute (for journalists), Caltech, June 29, 2001.

"Birth of the Universe," Caltech Seminar Day (popular talk for Caltech alumni), May 19, 2001.

"Cosmology and Astrophysics," invited talk at the Jack R. Howard Science Reporting Institute (for journalists), Caltech, August 18, 2000.

Panelist for "Origins of the Universe," a Bard Center Panel Discussion, New York City, April 24, 1998.

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