Mark C. Wyman

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INFORMATION	Center for Cosmology and Particle Physics	Fax: (212) 995-4903		
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	New York, NY 10003 USA	web: www.markcwyman.co	m	
Education	Cornell University, Ithaca, New York, USA			
	Ph.D. Physics. Advisor: Ira Wasserman	-	2006	
	McNeese State University, Lake Charles,	Louisiana USA		
	B.S. Physics, B.S. Mathematics, B.A. Engl	2000		
PROFESSIONAL	James Arthur Postdoctoral Fellow at Ne	ew York University.	2013 - present	
Experience	Postdoctoral Scholar at the University of Chicago.		2010 - 2013	
	Postdoctoral Fellow at the Perimeter Instit	0	2006 - 2010	
Selected				
Honors and Awards	Compton Lecturer, Enrico Fermi Institute		Fall 2011	
	NASA Graduate Student Research Fellowship		2005	
	National Science Foundation Graduate Resear	2002		
	Phi Kappa Phi Graduate Fellowship		2000	
	McNeese State University, graduated <i>Summa Cum Laude</i> , Phi Kappa Phi 2000			
SELECTED PUBLICATIONS SEE ALSO: ARXIV.ORG INSPIRE ADS	M. Wyman, D. H. Rudd, R. A. Vanderveld, and W. Hu, νLCDM: Neutrinos help reconcile Planck with the Local Universe, accepted in Physical Review Letters, arXiv:1307.7715 18 INSPIRE cites			
	P. Gratia, W. Hu, and M. Wyman, Self-accelerating Massive Gravity: Exact solutions for any isotropic matter distribution. Physical Review D86 (2012) 061504(R), arXiv:1205.4241 54 INSPIRE cites			
	P. Adshead and M. Wyman, Chromo-Natural Inflation: Natural inflation on a steep potential with classical non-Abelian gauge fields. Physical Review Letters 108 (2012) 261302, arXiv:1202.2366 32 INSPIRE cites			
	M. Wyman, Galilean-invariant scalar fields can strengthen gravitational lensing. Physical Review Letters 106 (2011) 201102. arXiv:1101.1295 44 INSPIRE cites			
	A. Tolley and M. Wyman, Equilateral non-Gaussianity from multi-field field dynamics. Physical Review D81 (2010) 043502, arXiv:0910:1853 [hep-th]. 56 INSPIRE cites			
	J. Khoury and M. Wyman, N-Body Simulations of DGP and Degravitation Theories, Phys. Rev. D80 (2009) 064023, arXiv:0903.1292 [astro-ph.CO]. 64 INSPIRE cites			
	M. Wyman, L. Pogosian, and I. Wasserman, Bounds on Cosmic Strings from WMAP an SDSS, Phys. Rev. D72 (2005) 023513, astro-ph/0503364. 136 INSPIRE cites			
Service	Referee, NASA Theory, NSF Theory, Physica Journal of Cosmology and Astroparticle Physics Letters B, General Relativity an	Physics, The Astrophysical .	Journal,	

	Mark Wyman - CV	2/4		
	Organizer of weekly "Big Bang Smackdown" for discussing cosmology, Chicago.	2010 - 2013		
	Local organizing committee, SUSY11, Chicago and Fermilab.	2011		
	International organizer, APCTP program "String Theory and Cosmology."	2009 - 2011		
	Organized workshop, Fundamental Physics and Large Scale Structure, Perimet	ter. 2010		
	Chair of IT policy committee & Researcher IT rep., Perimeter Institute.	2007 - 2010		
	Member of theory working group, CMBPol mission planning team.	2008		
	Organized workshop, The Astrophysics of Near-Term Cosmological Observation	vations. PI. 2007		
	Cosmology seminar series organizer. Perimeter Institute.	2007 - 2008		
Students				
SUPERVISED	Pierre Gratia, University of Chicago graduate student. Study of massive gravity, four papers so far (with W. Hu)	2011- 2013		
	Cora Dvorkin, University of Chicago graduate student. I initiated a project on cosmic strings that lead to a paper (with W.	Hu) 2011		
	Youngsoo Park, University of Chicago graduate student. Research on gravitational lensing	2010 -		
	Hillary Child, Kenyon College undergraduate student. Co-supervised her Senior Research Thesis at Kenyon. (With J.T. Giblin) 2012			
	Adam Bognat, Mike Lazarides undergraduate scholarship recipient, University Supervised summer project and senior research thesis	of Waterloo. 2009 - 2010		
TEACHING				
	University of Waterloo / Perimeter Institute, Waterloo, Ontario, Canada			
	Co-head instructor	Fall 2008		
	Created a new senior-graduate course, "Cosmology and Astrophysics through with one other postdoc. Goal: introduction to modern research through classi			
	Cornell University, Ithaca, New York USA			
	Part Time Graduate Teaching Assistant January 2003 - De	cember 2005		
	Taught undergraduate quantum mechanics, electromagnetism, and high-en for majors; conceptual physics for non-science majors; and graduate level c			
	Writing in the Majors Graduate Seminar, Assistant Instructor August - No Seminar for teaching assistants working in the John S. Knight "Writing in program. Duties included leading discussions and contributing to class plan	the Majors"		
	Full Time Graduate Teaching Assistant August 2000) - May 2002		
	Taught introductory physics for non-majors and an astronomy majors' soplinar associated with the John. S. Knight "Writing in the Majors" program			
Selected Conference Presentations	Invited talk, "Chromo-Natural Inflation," Cosmology after Planck, University of Michigan.	2013		
	Invited Plenary talk, "Inflation from Magnetic Drift," Workshop on Cosmic Acceleration, Carnegie Mellon University.	2012		

	Mark Wyman - CV	3/4		
	Invited talks, "Bulk flows" and "Gravitational lensing in massive gravity,"			
	Gravity Workshop, Case Western Reserve University.	2011		
	Contributed talk, "Degravitation: the N-body simulations," Cosmo '09. CERN.	2009		
	Invited talk, "Stochastic tunneling in DBI inflation," PI / CITA day.	2008		
	Lecture on Large Scale Structure, Summer School on Particle Physics, Cosmology and Strings, Perimeter Institute.	2007		
	Contributed talk, "Magnetogenesis," Cosmo '07 Conference. Brighton, UK.	2007		
	Plenary talk, "Cosmic string limits from WMAP and SDSS," Fundamental strings & cosmic strings. Paris, France.	2005		
Invited				
Presentations	Inflation from Magnetic Drift			
(since 2007)	University of California, Riverside (Colloquium).	2013		
	Columbia University, Stanford University; Perimeter Institute;			
	University of Wisconsin, Milwaukee; Arizona State University. 2	2012-2013		
	Gravity's Dark Side			
	University of California, Berkeley; University of Illinois, Urbana-Champaig	n. 2012		
	Modifying gravitational lensing with a massive graviton			
	CERN; University of Geneva; University of Pennsylvania; Canadian Institute			
	for Theoretical Astrophysics (CITA); Case Western Reserve University.	2011		
	The Gelaton Scenario			
	Canadian Institute for Theoretical Astrophysics (CITA).	2010		
	Enhanced Peculiar Velocities in Brane-Induced Gravity			
	New York University.	2010		
	N-body simulations of DGP and Degravitation			
	DAMTP at the University of Cambridge; Simon Fraser University; CITA.	2008		
	Beyond Vanilla Cosmology (Colloquium)	2000		
	Physics department colloquium. University of Wisconsin, Milwaukee.	2009		
	Physics department colloquium. Royal Military College of Canada.	2009		
	Astronomy department colloquium. Cornell University.	2008		
		2008		
	Stochastic Inflation Revisited			
	Princeton University; University of Pennsylvania; University of Delaware; Columbia University; Syracuse University. 2007			
	Cosmic strings: B-modes, magnetic field generation, and WMAP limits			
	Kavli Institute for Cosmological Physics at the University of Chicago;			
	Fermilab; McGill University; University of Pennsylvania.	2008-9		
Outreach	Compton Lecturer , Enrico Fermi Institute at the University of Chicago.	Fall 2011		

Invited semester-length series of lectures delivered to a large (100+) public audience on subject matter relating to current scientific research. Series ongoing since 1976.

	Mark Wyman - CV Keynote presenter Intern	national Summer School f	4/4 or Young Physicists at PL 2008-2009		
	Keynote presenter, International Summer School for Young Physicists at PI. 2008-2009 Invited to present two keynote presentations describing modern cosmology. Program hosts 100+ talented international secondary students interested in physics.				
	Consultant / adviser , instructional video on dark matter for high school students. 2007 Collaboration with Perimeter Institute outreach coordinator Damian Pope. Finished video, with accompanying materials, distributed to high schools across Canada.				
	Applied for and co-organized FQXi Brown Bag Lunch Program on the topic of "Cos- mology and Human Purpose." Cornell University.2005				
	Interdisciplinary discussions on how modern cosmological discoveries impact the view of humankind on its place in the universe. My report won \$5000 prize.				
	Public Lecturer on Cosmology. Hosted by the McNeese Honors College.200Public lecture on modern cosmology; talk was advertised in local newspaper.200				
Popular Media Coverage	Cosmic 'egg-beaters' may have left magnetic legacy, New Scientist. September 2007				
Other	Computation: C++, FORTRAN, OpenMP, Mathematica Languages: French (intermediate), Korean, Latin (basic)				
References	Prof. Ira Wasserman ira@astro.cornell.edu +1 (607) 255-5867 Prof. Justin Khoury jkhoury@sas.upenn.edu	Prof. Henry Tye tye.henry@gmail.com +1 (607) 255-3360 Prof. Emil Martinec ejmartin@uchicago.edu	Prof. Edward W. Kolb ekolb@uchicago.edu +1 (773) 702-7950 Prof. Wayne Hu whu@background.uchicago.edu		
	+1 (215) 573-7152 Prof. Gregory Gabadadze gg32@nyu.edu +1 (212) 998-7724	+1 (773) 702-7118	+1 (773) 702-0160		