

**Curriculum Vitae**  
**Gregory Gabadadze**  
**Department of Physics, New York University**  
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*January, 2019*

**Appointments:**

*Chair:* Department of Physics, New York University, 2013 – present  
*Associate Director for Physics:* Simons Foundation, 2017 - present  
*Director:* Center for Cosmology and Particle Physics, Department of Physics, New York University, 2008 –2013 (on sabbatical in the 2011/12 academic year)  
*Professor:* Department of Physics, New York University, 2011 - Present  
*Associate Professor:* Department of Physics, New York University, 2007 - 2011  
*Assistant Professor:* Department of Physics, New York University, 2003 – 2007  
*Fellow:* Theory Division, CERN; Geneva, Switzerland, 2002 – 2003  
*Research Associate:* W.I. Fine Theoretical Physics Institute, Univ. of Minnesota, 2000 – 2002  
*Research Scientist:* Department of Physics, New York University, 1998 – 2000

**Professional preparation:**

*Rutgers University:* Physics, PhD 1998  
*Moscow State University:* Physics, MS 1994

**Invited lecturing:**

*International schools for students:* (1) Lake Louise Winter Institute, February 7-13, 2016, Lake Louise, Canada. (2) “Asia/Pacific School on Gravity and Cosmology” Kyoto University, Feb 29-March 4, 2012; Kyoto, Japan. (3) British Universities Summer School, August 25-September 1, 2007; York, UK. (4) Summer School in Particles, Gravity and Cosmology, July 16-22 2007, Tbilisi State University, Tbilisi, Georgia. (5) British Universities Summer School, August 27-September 3, 2006; Edinburgh, UK. (6) Cargese Summer School, Corsica, France; May 28-June 2, 2006; (7) ICTP Summer School, Trieste, Italy, June 28 -July 7, 2004; (8) European School of High Energy Physics; Tsakhkadzor, Armenia, August 26-September 5, 2003; (9) Fifth J.J. Giambiagi School of Physics, Buenos Aires, Argentina, July 28 – August 3, 2003; (10) ICTP Summer School, Trieste, Italy, June 17 -July 5, 2002. *Guest lectures:* Perimeter Institute, Waterloo Canada, January 2012. Tbilisi State Univ., Tbilisi, Georgia, July 2004, December 2005, July 2007. Over 90 invited seminar, colloquium, and conference talks while at NYU.

**Grants, awards, and fellowships**

Simons Foundation (Lead PI, no financial benefits): Origins of the Universe, 2017-2021  
NSF Theory Grant (co-PI) 2007-2013, 2013-2016, 2016 - 2019  
NASA Theory Grant (PI) 2012 -2016  
NSF Theory Grant (PI) 2004-2007  
NASA Beyond Einstein Foundation Science Award 2005-2009  
George Soros Fellowship (1994-1995); Lomonosov Fellowship (1994)  
Artsimovich Fellowship (1993); Outstanding Junior Investigator Fellowship (1993)

## PhD students:

Daniel Older (NYU Ph.D. expected graduation 2020)  
Siqing Yu (NYU Ph.D. expected graduation 2019)  
Giorgi Tukhashvili (NYU Ph.D. expected graduation 2019)  
Giga Chkareuli (NYU Ph.D. May 2013; JP Morgan)  
Mehrdad Mirbabayi (NYU Ph.D. May 2013; faculty member, ICTP, Trieste)  
Lasha Berezhiani (NYU Ph.D. August 2012; faculty member, University of Munich)  
David Pirtskhalava (NYU Ph.D. August 2011; Senior Research Scientist, NYU)  
Rachel A. Rosen (NYU Ph.D. May 2009; Assistant Professor of Physics, Columbia Univ.)  
Luca Grisa (NYU Ph.D. May 2008; Citigroup)  
Yanwen Shang (NYU Ph.D. May 2006; Citigroup)

## Extended visits:

Perimeter Institute (Summer 2012); Simons Center for Geometry and Physics (Spring 2012); Columbia University (Fall 2011); Princeton University (Spring 2008); The Aspen Center for Physics (1999 - 2001, 2003 - 2005); UC Berkeley (2001); CERN (2001,2004,2009); Stanford University (2002,2004,2011); The Weizmann Institute (2006); The Galileo Galilei Institute (2006).

## Publications:

**As it is customary in high energy theoretical physics the author order is alphabetical, except in 3 works concerning other fields and marked by \*. Conference proceedings are included only if they constitute original work not published elsewhere**

- [112] *Gravitational Dressing of 3D Conformal Galileon*  
G. Gabadadze and G. Tukhashvili, arXiv:1812.10813 [hep-th]. Submitted to PLB
- [111] *Boundary Terms for Massive General Relativity*  
G. Gabadadze and D. Pirtskhalava,  
Phys. Rev. D **97**, no. 12, 124045 (2018) [arXiv:1803.11238 [hep-th]].
- [110] *Holographic CBK Relation*  
G. Gabadadze and G. Tukhashvili, Phys. Lett. B **782**, 202 (2018) [arXiv:1712.09921 [hep-th]].
- [109]\* *Soliton Diffusion as a Signature of Hawking Radiation in Bose-Einstein Condensates*  
C.Hang, G. Gabadadze, G. Huang, arXiv:1712.09524 [quant-ph]. under review
- [108] *Medium Generated Gap in Gravity and a 3d Gauge Theory*  
G. Gabadadze and D. Older, Phys. Rev. D **97**, no. 10, 104051 (2018) [arXiv:1712.09378 [hep-th]].
- [107] *Scale-up of  $\Lambda_3$  : Massive gravity with a higher strong interaction scale*  
G. Gabadadze, Phys. Rev. D **96**, no. 8, 084018 (2017) [arXiv:1707.01739]
- [106] *Dark Energy and Inflation with Volume Normalized Action*  
G. Gabadadze, S. Yu, Phys. Rev. D **98**, no. 2, 024047 (2018) [arXiv:1611.05833 [hep-th]].
- [105] *Non-local Galileons and Self-Acceleration*  
G. Gabadadze, S. Yu, Phys. Lett. B **768**, 397 (2017); [arXiv:1608.01060 [hep-th]]
- [104]\* *Realization of non-PT symmetric optical potentials with all-real-spectra in a coherent atomic system*, C. Hang, G. Gabadadze, G. Huang, Phys. Rev. A **95**, 023833, (2017)
- [103] *Metamorphosis of the Cosmological Constant and Origin of the Fiducial Metric*  
G. Gabadadze, S. Yu, Phys. Rev. D **94**, 10, 104059 (2016); [arXiv:1510.07943 [hep-th]].

- [102] *Unparticles as the Holographic Dual of Gapped AdS Gravity*  
S.K. Domokos, G. Gabadadze, Phys. Rev. D **92**, 126011 (2015) [arXiv:1509.03285 [hep-th]].
- [101] *Field Theory for Zero Sound and Ion Acoustic Wave in Astrophysical Matter*  
G. Gabadadze, R.A. Rosen, Phys. Rev. D **93**, 043005 (2016) [arXiv:1507.06705 [hep-ph]].
- [100]\* *Giant Kerr nonlinearity and superluminal and subluminal polaritonic solitons in a Bose-Einstein condensate via superradiant scattering*  
C. Hang, G. Gabadadze, G. Huang, Phys. Rev. A **92**, 033805, (2015).
- [99] *Vainshtein Solutions Without Superluminal Modes*  
G. Gabadadze, R. Kimura and D. Pirtskhalava,  
Phys. Rev. D **91**, no. 12, 124024 (2015), [arXiv:1412.8751 [hep-th]].
- [98] *The Big Constant Out, The Small Constant In*  
G. Gabadadze, Phys. Lett. B **739**, 263 (2014) [arXiv:1406.6701 hep-th].
- [97] *Selfacceleration with Quasidilaton*  
G. Gabadadze, R. Kimura and D. Pirtskhalava  
Phys. Rev. D **90**, no. 2, 024029 (2014) [arXiv:1401.5403 [hep-th]].
- [96] *On the Potential for General Relativity and its Geometry*  
G. Gabadadze, K. Hinterbichler, D. Pirtskhalava and Y. Shang,  
Phys. Rev. D **88**, 084003 (2013) [arXiv:1307.2245].
- [95] *Mixed Galileons and Spherically Symmetric Solutions*  
L. Berezhiani, G. Chkareuli, C. de Rham, G. Gabadadze and A. J. Tolley  
Class. Quant. Grav. **30**, 184003 (2013) [arXiv:1305.0271 [hep-th]].
- [94] *On Cosmological Perturbations of Quasidilaton*  
G. D'Amico, G. Gabadadze, L. Hui and D. Pirtskhalava,  
Class. Quant. Grav. **30**, 184005 (2013), [arXiv:1304.0723 [hep-th]].
- [93] *Restricted Galileons*  
L. Berezhiani, G. Chkareuli and G. Gabadadze,  
Phys. Rev. D **88**, 124020 (2013) [arXiv:1302.0549 [hep-th]].
- [92] *New Massive Gravity on de Sitter Space and Black Holes at the Special Point*  
G. Gabadadze, G. Giribet, A. Iglesias,  
arXiv:1212.6279 [hep-th]; the XIII Marcel Grossmann Meeting, Stockholm, July, 2012
- [91] *Non-Renormalization and Naturalness in a Class of Scalar-Tensor Theories*  
C.de Rham, G. Gabadadze, L. Heisenberg, D. Pirtskhalava,  
Phys. Rev. D **87**, 085017 (2013) [arXiv:1212.4128]
- [90] *A Covariant Master Theory for Novel Galilean Invariant Models and Massive Gravity*  
G. Gabadadze, K. Hinterbichler, J. Khoury, D. Pirtskhalava, and M. Trodden  
Phys. Rev. D **86**, 124004 (2012) [arXiv:1208.5773 [hep-th]],
- [89] *Quasi-Dilaton: Theory and Cosmology*  
G. D'Amico, G. Gabadadze, L. Hui and D. Pirtskhalava,  
Phys. Rev. D **87**, 064037 (2013) [arXiv:1206.4253 [hep-th]]
- [88] *Classical Duals of Derivatively Self-Coupled Theories*  
G. Gabadadze, K. Hinterbichler and D. Pirtskhalava,  
Phys. Rev. D **85**, 125007 (2012) [arXiv:1202.6364 [hep-th]]
- [87] *On Black Holes in Massive Gravity*  
L. Berezhiani, G. Chkareuli, C. de Rham, G. Gabadadze and A. J. Tolley,  
Phys. Rev. D **85**, 044024 (2012) [arXiv:1111.3613 [hep-th]].
- [86] *Massive Cosmologies*  
G. D'Amico, C. de Rham, S. Dubovsky, G. Gabadadze, D. Pirtskhalava, A. J. Tolley,  
Phys. Rev. D **84**, 124046 (2011) [arXiv:1108.5231 [hep-th]]

- [85] *Helicity Decomposition of Ghost-free Massive Gravity*  
C. de Rham, G. Gabadadze, A. J. Tolley,  
JHEP **1111**, 093 (2011) [arXiv:1108.4521 [hep-th]]
- [84] *Ghost free Massive Gravity in the Stückelberg language*  
C. de Rham, G. Gabadadze, A. J. Tolley,  
Phys. Lett. B **711**, 190 (2012), [arXiv:1107.3820 [hep-th] ]
- [83] *Comments on (super)luminality*  
C. de Rham, G. Gabadadze, A. J. Tolley,  
arXiv:1107.0710 [hep-th]
- [82] *Nonlinear Dynamics of 3D Massive Gravity*  
C. de Rham, G. Gabadadze, D. Pirtskhalava, A. J. Tolley and I. Yavin  
JHEP **1106**, 028 (2011) [arXiv:1103.1351 [hep-th]]
- [81] *Resummation of Massive Gravity*  
C. de Rham, G. Gabadadze and A. J. Tolley  
Phys. Rev. Lett. **106**, 231101 (2011) [arXiv:1011.1232 [hep-th]]
- [80] *Cosmic Acceleration and the Helicity-0 Graviton*  
C. de Rham, G. Gabadadze, L. Heisenberg and D. Pirtskhalava,  
Phys. Rev. **D83**, 103516 (2011) [arXiv:1010.1780 [hep-th]]
- [79] *Generalization of the Fierz-Pauli Action*  
C. de Rham and G. Gabadadze,  
Phys. Rev. D **82**, 044020 (2010) [arXiv:1007.0443 [hep-th]]
- [78] *Selftuned Massive Spin-2*  
C. de Rham and G. Gabadadze,  
Phys. Lett. B **693**, 334 (2010) [arXiv:1006.4367 [hep-th]]
- [77] *Field Theory for a Deuteron Quantum Liquid*  
L. Berezhiani, G. Gabadadze and D. Pirtskhalava,  
JHEP **1004**, 122 (2010) [arXiv:1003.0865 [hep-ph]]
- [76] *Effective Field Theory for Quantum Liquid in Dwarf Stars*  
G. Gabadadze and R. A. Rosen, JCAP **1004**, 028 (2010) [arXiv:0912.5270 [hep-ph]]
- [75] *Charge Screening in a Charged Condensate*  
G. Gabadadze and R. A. Rosen, Nucl. Phys. Proc. Suppl. **192-193** (2009) 172
- [74] *General Relativity With An Auxiliary Dimension*  
G. Gabadadze, Phys. Lett. B **681**, 89 (2009) [arXiv:0908.1112 [hep-th]]
- [73] *Strongly Coupled Condensate of High Density Matter*  
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- [72] *Vortex Structure in Charged Condensate*  
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- [71] *Quantum Liquid Signatures in Dwarf Stars*  
G. Gabadadze and D. Pirtskhalava, JCAP **0905**, 017 (2009) [arXiv:0904.4267 [hep-th]]
- [70] *Effective Lagrangian and Quantum Screening in Charged Condensate*  
G. Gabadadze and R. A. Rosen, JCAP **0902**, 016 (2009) [arXiv:0811.4423 [hep-th]]
- [69]\* *DUSEL Theory White Paper*, S. Raby *et al.*, arXiv:0810.4551 [hep-ph]
- [68] *General Massive Spin-2 on de Sitter Background*  
G. Gabadadze, A. Iglesias and Y. Shang, arXiv:0809.2996 [hep-th]
- [67] *Charged Condensate and Helium Dwarf Stars*  
G. Gabadadze and R. A. Rosen, JCAP **0810**, 030 (2008) [arXiv:0806.3692 [astro-ph]]

- [66] *Special Massive Spin-2 on de Sitter Space*  
G. Gabadadze and A. Iglesias, JCAP **0802**, 014 (2008) [arXiv:0801.2165 [hep-th]]
- [65] *Electrodynamic Metanuclei*  
G. Gabadadze and R. A. Rosen, Phys. Lett. B **666**, 277 (2008) [arXiv:0801.0228 [hep-th]]
- [64] *Mass Screening in Modified Gravity*  
G. Gabadadze and A. Iglesias, Class. Quant. Grav. **25**, 154008 (2008) [arXiv:0712.4086 [hep-th]]
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G. Gabadadze and R. A. Rosen, Phys. Lett. B **658**, 266 (2008) [arXiv:0706.2304 [hep-th]]
- [62] *Cargese lectures on brane induced gravity*  
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- [61] *A model for cosmic self-acceleration*  
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G. Dvali, G. Gabadadze, O. Pujolas, R. Rahman, Phys. Rev. D **75**, 124013 (2007)
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C. Deffayet, G. Gabadadze, A. Iglesias, JCAP, **0608**:012,2006 [hep-th/0607099]
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G. Gabadadze, L. Grisa, Y. Shang, JHEP, **0608**:033,2006 [hep-th/0604218]
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G. Gabadadze and Y. Shang, Phys. Lett. B **635**, 235 (2006) [arXiv:hep-th/0511137]
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G. Gabadadze and A. Iglesias, Phys. Lett. B **632**, 617 (2006) [arXiv:hep-th/0508201]
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- [50] *Looking at the cosmological constant from infinite-volume bulk*  
G. Gabadadze, arXiv:hep-th/0408118; *Invited Review Article in the Ian Kogan Memorial Volume, "From Fields to Strings: Circumnavigating Theoretical Physics", M. Shifman, A. Vainshtein, and J. Wheeler, eds. (World Scientific, 2004)*
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G. Gabadadze and A. Iglesias, Phys. Rev. D **72**, 084024 (2005) [arXiv:hep-th/0407049]
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G. Gabadadze, Phys. Rev. D **70**, 064005 (2004) [arXiv:hep-th/0403161]
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G. Gabadadze and M. Shifman, Phys. Rev. D **69**, 124032 (2004) [arXiv:hep-th/0312289]
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G. Gabadadze and A. Gruzinov, Phys. Rev. D **72**, 124007 (2005) [arXiv:hep-th/0312074]
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G. Gabadadze, arXiv:hep-ph/0308112; *Proceedings; ICTP Lecture Notes, p. 77-121, (2003)*
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N. Arkani-Hamed, S. Dimopoulos, G. Dvali and G. Gabadadze, arXiv:hep-th/0209227
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G. Gabadadze and M. Shifman, *Int. J. Mod. Phys. A* **17**, 3689 (2002) [arXiv:hep-ph/0206123]
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G. Dvali, G. Gabadadze and M. Shifman, *Phys. Rev. D* **67**, 044020 (2003) [arXiv:hep-th/0202174]
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G. Dvali, G. Gabadadze, X. r. Hou and E. Sefusatti,  
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- [37] *Evidence for Zerobranes in (SUSY) Gluodynamics*  
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C. Deffayet, G. R. Dvali and G. Gabadadze,  
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*Mod. Phys. Lett. A* **16**, 513 (2001) [arXiv:astro-ph/0102422]
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G. Dvali, G. Gabadadze, M. Porrati, Phys. Lett. **B484**, 112 (2000) [hep-th/0002190]
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G.R. Farrar, G.T. Gabadadze, Phys. Lett. **B397** 104 (1997) [hep-ph/9608330]
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S.J. Brodsky, G.T. Gabadadze, A.L. Kataev, H.J. Lu, Phys. Lett. **B372** 133 (1996)
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G.T. Gabadadze, A.L. Kataev, JETP Lett. **61** 448 (1995) [hep-ph/9502384]
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