

Curriculum Vitae
Gregory Gabadadze
Department of Physics, New York University
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August, 2022

Appointments:

Divisional Dean for Science: Faculty of Arts and Science, NYU, 2019 – present
Vice Dean for Research in Arts and Science: Faculty of Arts and Science, NYU, 2021 – present
Chair: Department of Physics, New York University, 2013 – 2019
Associate Director for Physics: Mathematics and Physical Sciences Division, The 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

Grants, awards, and fellowships

NSF Theory Grant (co-PI) 2007-2013, 2013-2016, 2016 - 2019, 2019-2022, 2022-2025
Simons Foundation (Lead PI, no financial benefits): Origins of the Universe, 2017-2021
NASA Theory Grant (PI) 2012 -2016
NASA Beyond Einstein Foundation Science Award 2005-2009
NSF Theory Grant (PI) 2004-2007
George Soros Fellowship (1994-1995); Lomonosov Fellowship (1994)
Artsimovich Fellowship (1993); Outstanding Junior Investigator Fellowship (1993)

PhD students:

Daniel Older (NYU Ph.D. 2020, works for the US government)
Siqing Yu (NYU Ph.D. 2019, works for a software company in CA)
Giorgi Tukhashvili (NYU Ph.D. 2019, postdoc at Princeton University)
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; works for a software company in Estonia)
Rachel A. Rosen (NYU Ph.D. May 2009; Associate Professor of Physics, Columbia Univ.)
Luca Grisa (NYU Ph.D. May 2008; Citigroup)
Yanwen Shang (NYU Ph.D. May 2006; Citigroup)

Invited lecturing:

Invited school and outreach lectures: (1) A general zoom lecture for NYU students self-isolating in their dorm rooms during holidays (Summer 2021). (2) Lectures for school students at Sigma Camp (Summer 2019). (3) Invited lecture to Trinity High School students (2018). (4) Lake Louise Winter Institute, February 7-13, 2016, Lake Louise, Canada. (5) “Asia/Pacific School on Gravity and Cosmology” Kyoto University, Feb 29-March 4, 2012; Kyoto, Japan. (6) British Universities Summer School, August 25-September 1, 2007; York, UK. (7) Summer School in Particles, Gravity and Cosmology, July 16-22 2007, Tbilisi State University, Tbilisi, Georgia. (8) British Universities Summer School, August 27-September 3, 2006; Edinburgh, UK. (9) Cargese Summer School, Corsica, France; May 28-June 2, 2006; (10) ICTP Summer School, Trieste, Italy, June 28 -July 7, 2004; (11) European School of High Energy Physics; Tsakhkadzor, Armenia, August 26-September 5, 2003; (12) Fifth J.J. Giambiagi School of Physics, Buenos Aires, Argentina, July 28 – August 3, 2003; (13) 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 100 invited seminar, colloquium, and conference talks.

Publications:

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

- [117] *Black Hole Superradiance in Dynamical Chern-Simons Gravity*
S. Alexander, G. Gabadadze, L. Jenks and N. Yunes, [arXiv:2201.02220 [gr-qc]]
- [116] *Continuity, localization, and cosmology in warped geometry*
G. Gabadadze, D. Older and D. Pirtskhalava,
Phys. Rev. D **104**, no.10, 104031 (2021) [arXiv:2107.08160 [hep-th]]
- [115] *Chern-Simons caps for rotating black holes*
S. Alexander, G. Gabadadze, L. Jenks and N. Yunes,
Phys. Rev. D **104**, no.6, 064033 (2021) [arXiv:2104.00019 [hep-th]]
- [114] *Conformal/Poincaré Coset, cosmology, and descendants of Lovelock terms*
G. Gabadadze and G. Tukhashvili,
Phys. Rev. D **102**, no.2, 024054 (2020) [arXiv:2005.01729 [hep-th]]
- [113] *Resolving the van Dam-Veltman-Zakharov and strong coupling problems in massive gravity and bigravity* G. Gabadadze, D. Older and D. Pirtskhalava, Phys. Rev. D **100**, no.12, 124017 (2019)[arXiv:1907.13491 [hep-th]]
- [112] *Gravitational Dressing of 3D Conformal Galileon*
G. Gabadadze and G. Tukhashvili, Phys. Lett. B **793**, 415-419 (2019); [arXiv:1812.10813 [hep-th]]
- [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]. In press PLB
- [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 Λ_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. D **83**, 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*
G. Gabadadze, arXiv:0906.2406 [hep-th]. Proceedings
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Honoring the 60th birthday of M. A. Shifman, Minneapolis, Minnesota, 14-17 May 2009

[72] *Vortex Structure in Charged Condensate*

- G. Gabadadze and R. A. Rosen, JHEP **0907**, 093 (2009) [arXiv:0905.2444 [hep-th]]
- [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] *Electrodynamical 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]]
- [63] *Charged Condensation*
- G. Gabadadze and R. A. Rosen, Phys. Lett. B **658**, 266 (2008) [arXiv:0706.2304 [hep-th]]
- [62] *Cargese lectures on brane induced gravity*
- G. Gabadadze, Nucl. Phys. Proc. Suppl. **171**, 88 (2007) [arXiv:0705.1929 [hep-th]]
- [61] *A model for cosmic self-acceleration*
- G. Gabadadze, hep-th/0612213.
- [60] *Domain walls as probes of gravity*
- G. Dvali, G. Gabadadze, O. Pujolas, R. Rahman, Phys. Rev. D **75**, 124013 (2007)
- [59] *Perturbations of self-accelerated universe*
- C. Deffayet, G. Gabadadze, A. Iglesias, JCAP, **0608**:012,2006 [hep-th/0607099]
- [58] *Resonance in asymmetric warped geometry*
- G. Gabadadze, L. Grisa, Y. Shang, JHEP, **0608**:033,2006 [hep-th/0604218]
- [57] *(De)coupling limit of DGP*
- G. Gabadadze, A. Iglesias, Phys. Lett. B **639**, 88 (2006) [arXiv:hep-th/0603199]
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- G. Gabadadze and Y. Shang, Phys. Lett. B **635**, 235 (2006) [arXiv:hep-th/0511137]
- [55] *Short distance non-perturbative effects of large distance modified gravity*
- G. Gabadadze and A. Iglesias, Phys. Lett. B **632**, 617 (2006) [arXiv:hep-th/0508201]
- [54] *Classically constrained gauge fields and gravity*
- G. Gabadadze and Y. w. Shang; arXiv:hep-th/0506040, submitted to Phys. Rev. D
- [53] *Beyond the standard model: Extra dimensions and supersymmetry*
- G. Gabadadze, NYU-TH-05-03-21, Published in *Tsakhkadzor 2003, European school on high-energy physics* 151-171
- [52] *Lorentz-violating massive gauge and gravitational fields*
- G. Gabadadze, L. Grisa; Phys. Lett. B **617**, 124 (2005) [arXiv:hep-th/0412332]
- [51] *On theta dependence of glueballs from AdS/CFT*
- G. Gabadadze, A. Iglesias; Phys.Lett. **B609**, 167 (2005); [arXiv: hep-th/0411278]
- [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)*
- [49] *Schwarzschild solution in brane induced gravity*

- G. Gabadadze and A. Iglesias, Phys. Rev. D **72**, 084024 (2005) [arXiv:hep-th/0407049]
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- [47] *Softly massive gravity*
- 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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- [42] *Diluting Cosmological Constant via Large Distance Modification of Gravity*
- G. Dvali, G. Gabadadze and M. Shifman, in *Continuous Advances in QCD 2002*, Eds. K. Olive, M. Shifman and M. Voloshin (World Scientific, Singapore, 2002), pp. 566–581; hep-th/0208096
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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, Phys. Rev. D **67**, 044019 (2003) [arXiv:hep-th/0111266]
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- C. Deffayet, G. R. Dvali and G. Gabadadze, arXiv:astro-ph/0106449
- [37] *Evidence for Zerobranes in (SUSY) Gluodynamics*
- G. Gabadadze, Published in *Minneapolis 2000, Continuous advances in QCD, 63-75*
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- C. Deffayet, G. R. Dvali, G. Gabadadze and A. I. Vainshtein, Phys. Rev. D **65**, 044026 (2002) [arXiv:hep-th/0106001]
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- [27] *On Sub-millimeter Forces from Extra Dimensions*
G. Dvali, G. Gabadadze, M. Porrati, Mod. Phys. Lett. **A15** 1717, (2000) [hep-ph/0007211]
- [26] *4D Gravity on a Brane in 5D Minkowski Space*
G. Dvali, G. Gabadadze, M. Porrati, Phys. Lett. **B485**, 208 (2000) [hep-th/0005016]
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G. Dvali, G. Gabadadze, M. Porrati, Phys. Lett. **B484**, 129 (2000) [hep-th/0003054]
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G. Dvali, G. Gabadadze, M. Porrati, Phys. Lett. **B484**, 112 (2000) [hep-th/0002190]
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B. Bajc, G. Gabadadze, Phys. Lett. **B474**, 282 (2000) [hep-th/9912232]
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G. Gabadadze, M. Shifman, Phys. Rev. **D61**, 075014 (2000) [hep-th/9910050]
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G. Dvali, G. Gabadadze, G. Senjanović, A Contribution to the Yu.A. Golfand memorial volume; In *Shifman, M.A. (ed.): The many faces of the superworld, 525-532* [hep-ph/9910207]
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G.R. Farrar, G. Gabadadze, M. Schwetz, RU-98-40, Sep 1998. 10pp.
Talk given at 10th International Seminar on High-Energy Physics (Quarks 98), Suzdal, Russia, 18-24 May 1998; Proceedings. [hep-ph/9809276]
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