

CV of Malkhaz bakuradze

Personal Information

Born jan. 1, 1961)
ID: 01013011436
Passport Number: 10BA00992
Address: Home. Varketili 3, 419/19, 0163
Work. TSU Faculty of Exact and Natural Sci.,
Razmadze Math. Institute
Tel: +995 595 70 00 51
malkhaz.bakuradze@tsu.ge

Education

1989 PhD TSU, Supervisor V.M. Buchstaber
1983 Diploma. TSU, Faculty of Mathematics and Mechanics
1978 State school N 124, Tbilisi

Academic Career

27/09/2018 - TSU, Mathematics Department, Professor
01/10/2008 - 2018 TSU, Mathematics Department, Associated Professor
01/01/1995 - Razmadze Math. Institute, Senior Researcher
01/10/1991-1995 Razmadze Math. Institute, Researcher
01/10/1989-1991 Razmadze Math. Institute, Junior Researcher

Visiting positions

01/01/2004 - 01/01/2005 Univ. Montpellier-2, France, Visiting Professor
01/09/2002 - 28/02/2003 Max-Planck Institute of Mathematics, Visiting Professor

Service

2015- Editorial Board, "Tbilisi mathematical Journal"
2017- Program board member of Volkswagen funded International PhD
Program at TSU".

Research Area

Algebraic Topology, Cobordism, K-Theory, Characteristic classes, Formal group
laws and genera, Homology/cohomology theories, explicit calculations in
Morava K-theories and other complex oriented cohomology theories.

PhD students

Ana Nusxeladze 2017, TSU
Natia Gachechiladze 2014 -2017, Final examen is proposed in Nov. 2017, TSU
Goderdzi Pruidze 2013-2016, TSU

Grants

2017-2019	CNRS PICS Ref. 04/02, Co PI
2016-2018	SRNSF grant, Ref. 217-614, Scientific Supervisor
2012-2014	SRNSF grant, DI/16/5-103/12, Coordinator
2011-2013	Volkswagen Foundation, Ref.: I/84 328, Main Personnel
2009-2011	Volkswagen Foundation, Ref.: 85 989, Main Personnel
2009-2011	GNSF 08-671-3-103, Main Personnel
2006-2009	GNSF, ST06/3-004, Main Personnel
2006-2008	INTAS-South Caucasus, Main Personnel
2004-2007	INTAS, 03-51-3251, Main Personnel
2004-2005	NATO (OTAN FRANCE) Individual grant
2001-2003	GEM1 3330 TB-03; GRDF, Main Personnel
1999-2001	CRDF, GEM1-2083, Main Personnel
1995-1996	ISF, RVJ 200; ISF, RVJ 200, Main Personnel
1994-1995	ISF, RVJ 000; ISF, RVJ 000, Main Personnel

Main Publications

- [bm1] Malkhaz Bakuradze and Vladimir Vershinin, *On the Lazard ring*, Georgian Math. J, to appear (2018). ↑
- [bm2] ———, *On addition theorems related to elliptic integrals*, Proc. Steklov Math. Institute, accepted (2018), available at [arXiv:1712.03313v1](https://arxiv.org/abs/1712.03313v1) [math.AT]. ↑
- [bm3] Malkhaz Bakuradze, *All extensions of C_2 by $C_{2^{m+1}}$ are good*, Hiroshima Math. Journal, accepted (2018), available at [arXiv:1603.04021v2](https://arxiv.org/abs/1603.04021v2) [math.AT]. ↑
- [bm4] ———, *Polynomial behavior of the Honda formal group laws*, J. Homotopy Relat. Struct. **12(2)** (2017), 299-304, available at <https://link.springer.com/article/10.1007>. ↑
- [bm5] ———, *Some 2-groups from the view of Hilbert-Poincaré polynomials of $K(2)^*(BG)$* , Tbilisi Math. J. **10(2)** (2017), 103-110. ↑
- [bm6] Malkhaz Bakuradze and Natia Gachechiladze, *Morava K-theory rings of the extensions of C_2 by the products of cyclic 2-groups*, Moscow Math. J. **16(4)** (2016), 141-193, available at <http://www.mathjournals.org/mmj/2016-016-004/2016-016-004-001.html>. ↑
- [bm7] Malkhaz Bakuradze and Mamuka Jibladze, *Some explicit expressions concerning BP*, Georgian Math. Journal **23(2)** (2016), 157-167, available at [arXiv:1310.0783v3](https://arxiv.org/abs/1310.0783v3) [math.AT] .. ↑
- [bm8] Malkhaz Bakuradze, *Using formal group laws: some explicit calculations*, LAMBERT Academic Publishing, 2016, ISBN 978-3-659-96340-7. ↑
- [bm9] Malkhaz Bakuradze, Alexander Gamkrelidze, and Joseph Gubeladze, *Affine Hom-complexes*, Port. Math. **73(2)** (2016), 183-205, available at [arXiv:1407.6870](https://arxiv.org/abs/1407.6870) [math.CO]. ↑
- [bm10] Malkhaz Bakuradze, *Morava K-theory rings of the extensions of C_p by the products of good groups under diagonal action*, Georgian Math. J. **22 (4)** (2015), 451-455, available at [arXiv:1412.2274](https://arxiv.org/abs/1412.2274) [math.AT]. ↑
- [bm11] Malkhaz Bakuradze and Mamuka Jibladze, *Morava K-theory rings of groups G_{38}, \dots, G_{41} of order 32*, J. K-theory **13** (2014), 171-198. ↑
- [bm12] Malkhaz Bakuradze, *Computing the Krichever genus*, J. Homotopy Relat. Struct. **9(1)** (2014), 85-93, available at <https://link.springer.com/article/10.1007>. ↑
- [bm13] ———, *On the Buchstaber formal group law and some related genera*, Proc. Steklov Math. Inst **286(1)** (2014), 7-21, available at <https://link.springer.com/article/10.1134>. ↑
- [bm14] ———, *Formal group laws by Buchstaber, Krichever and Nadiradze coincide*, Russ. Math. Surv. **68, 571** (2013). ↑

- [bm15] ———, *Transferred characteristic classes and generalized cohomology rings*, J. Math. Sci. **189(1)** (2013), 10-75, available at <https://link.springer.com/article/10.1134>.
↑
- [bm16] Malkhaz Bakuradze and Mamuka Jibladze, *On the coefficient ring of the rational formal group law*, Proc. of A. Razmadze Math. Inst. **159** (2012), 1-9. ↑
- [bm17] Malkhaz Bakuradze, *Induced representations, Transferred Chern classes and Morava rings $K(s)^*(BG)$: some calculations*, Proc. Steklov Math. Inst. **275** (2011), 160-168. ↑
- [bm18] Malkhaz Bakuradze and Mamuka Jibladze, *The rings $K(s)^*(BG)$ for the groups G_{38}, \dots, G_{41} of order 32*, Russian Math. Surv. **66(5)** (2011), 1003-1005. ↑
- [bm19] Malkhaz Bakuradze, *Mod 2 Morava K-theory for Frobenius complements of exponent dividing $2^n - 1$* , J. Homotopy Relat. Struct. **6(1)** (2011), 65-69. ↑
- [bm20] ———, *Morava K-theory rings for the modular groups in Chern classes, K-theory* **38(2)** (2008), 87-93. ↑
- [bm21] ———, *Morava K-theory rings for a quasi-dihedral group in Chern classes*, Proc. Steklov Math. Inst. **252** (2006), 23-29. ↑
- [bm22] ———, *Morava K-theory rings for the modular groups in Chern classes*, Russian Math. Surv. **61(3)** (2006). ↑
- [bm23] Malkhaz Bakuradze and Vladimir Vershinin, *Morava K-theory rings for the dihedral, semi-dihedral and generalized quaternion groups in Chern Classes*, Proc. Amer. Math. Soc. **134** (2006), 3707-3714. ↑
- [bm24] Malkhaz Bakuradze and Stewart Priddy, *Transferred Chern classes in Morava K-theory*, Proc. Amer. Math. Soc. **132** (2004), 1855-1860. ↑
- [bm25] Malkhaz Bakuradze and Vladimir Vershinin, *Characteristic classes and transfer relations in cobordism*, Proc. Amer. Math. Soc. **131(6)** (2003), 1935-1942. ↑
- [bm26] Malkhaz Bakuradze and Stewart Priddy, *Transfer and complex oriented cohomology rings*, Algebraic and Geometric Topology **3** (2003), 473-1509. ↑
- [bm27] Malkhaz Bakuradze, *The formal group law and transferred Chern classes in Morava K-theory*, Max-Planck-Institute preprint series **130** (2002). ↑
- [bm28] M. Bakuradze, M. Jibladze, and V. Vershinin, *Characteristic classes and transfer relations in cobordism*, Russian Math. Surv. **156(3)** (2001), 72-74. ↑
- [bm29] M. Bakuradze, *On symplectic cobordism of real projective plane*, Pub. Math. Barc. **44(1)** (2000), 339-342. ↑
- [bm30] ———, *On the Buchstaber subring in MSp^** , Georgian Math. J. **5(5)** (1998), 401-414. ↑
- [bm31] ———, *The transfer and symplectic cobordism*, Trans. Amer. Math. Soc. **349(11)** (1997), 4385-4399. ↑
- [bm32] ———, *Some calculations with transfer in symplectic cobordism*, Bull. Georgian Acad. of Sci. **2** (1996), 208-211. ↑
- [bm33] ———, *Some relations in symplectic cobordisms*, Proc. A. Razmadze Math. Inst. **104** (1994), 27-34. ↑
- [bm34] ———, *On transfer of coverings*, Proc. A. Razmadze Math. Inst. **94** (1991), 3-11. ↑
- [bm35] M. Bakuradze and Roin Nadiradze, *Cohomological realizations of two-valued formal groups and their applications*, Proc. A. Razmadze Math. Inst. **94** (1991), 12-28. ↑
- [bm36] M. Bakuradze, *transfer and characteristic classes in complex cobordism*, Bull. Georgian Acad. of Sci. **135(1)** (1989), 49-51. ↑
- [bm37] ———, *On transfer of coverings*, PhD, Moscow, Viniti **BY 6** (1988). ↑
- [bm38] M. Bakuradze and Roin Nadiradze, *Cohomological realizations of two-valued formal groups and their applications*, Bull. Georgian Acad. of Sci. **127(4)** (1987). ↑