



MERAB ELIASHVILI

Professor
Elementary particles and Quantum Fields

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Date of birth: 9 October, 1945

Education:

- 1968- Graduated from: Physics faculty, Moscow State University,
- 1968-1971: Postgraduate student at the Laboratory of Theoretical Physics (JINR, Dubna) and Tbilisi State University
- 1974- PhD from Tbilisi State University, Doctor of Sciences (Physics and Mathematics)

Working experience (during the last ten years)

- 2017-present time: Adviser for the Rector, Tbilisi State University
- 2013-2017 Vice-Rector, Tbilisi State University
- 2009-Present time: Full professor for the theoretical physics, Tbilisi State University
- 2003-Present time: Head of the department of theoretical physics, A. Razmadze Mathematical Institute;
- 2004-2006: Director, University Department for science and research at Tbilisi State University;
- 1993-1994: Associated Researcher: LAPTH (Annecy, France)

Some relevant publications:

1. **M.Eliashvili**, D.Kereselidze, G.Tsitsishvili, M.Tsitsishvili *Edge States of a Periodic Chain with Four-Band Energy Spectrum*, to be published in ; J.Phys.Soc.Jpn. (2017)
2. **M.Eliashvili**, G.I.Japaridze, G.Tsitsishvili; *The quantum group and Harper equation on a honeycomb lattice*; Journal of Mathematical Sciences, 216(4), (2016) 522-526
3. **M.Eliashvili**, G.I.Japaridze, G.Tsitsishvili, G.Tukhashvili; *Edge states in 2D lattices with hopping anisotropy and Chebyshev polynomials*. arXiv: 1401.6779; J.Phys.Soc.Jpn. 83 (2014) 044706
4. **M. Eliashvili**, G.Tsitsishvili *Algebraic aspects of the Hofstadter problem in graphene*. Journal of Mathematical Sciences 193 (3), Sept.2013. 418-427
5. **M.Eliashvili**, G.I.Japaridze, G.Tsitsishvili; *The quantum group, Harper equation and structure of Bloch eigenstates on a honeycomb lattice*. J.Phys. A: Math.Theor. **45**. (2012) #39, 395305
6. **M.Eliashvili**, V.Gerdt, A.Khvedelidze; *On precession of entangled spins in a strong laser field*. Nuclear Physics (Rus) Ядерная физика. том 72, №5, (2009), 1-8.
7. **M.Eliashvili** and G.Tsitsishvili; *On the NCCS model of the quantum Hall fluid*; arXiv-hep-th/0606286, Eur.Phys.J. C50 (2007) 1013-1017.
8. F. Ezawa, **M.Eliashvili** and G.Tsitsishvili; *Ground-state structure in $\nu=2$ bilayer quantum Hall systems*; Phys. Rev.B71, (2005)125318

Other Activities:

- 2005-Present time: Representative of the World Federation of Scientists National Scholarship Programme in Georgia
- 2008-present time: Member of the International Scientific Council – Joint Institute for Nuclear Researches, Dubna (Russia)
- 1998-2005: Managing Director of the International School in Physics and Mathematics (Georgia & UNESCO Regional Bureau for Science in Europe, Venice, Italy)
- Founding member of the UNESCO European Network on Education and Training in Renewable Energy Sources (EURONETRES)

Scientific grant projects

Running project

1. **“Quantum group and topologically nontrivial states in low dimensional fermion systems”** Georgian National Science Foundation Grant FR/265/6-100/14

Other relevant grants

2. GNSF/ST- ST08/4-405
 3. GNSF/ST-06/4-050
 4. GNSF/ST-06/4-18
 5. INTAS-Georgia 97-1340
 6. SCOPES 7GEPJ62379 (Swiss)
 7. INTAS 00-00561
- others