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## List of Publications

### Papers: in preprint

- 2020 M. Almora, Z. Avetisyan, K. Berlow, I. Martin, G. Rakholia, K. Yang, H. Zhang, Z. Zhao, "Analysis on almost Abelian Lie groups: Groups, subgroups and quotients", arXiv:2004.04369
- 2020 Z. Avetisyan, "Global hyperbolicity and factorization in cosmological models", arXiv:2004.03787
- 2018 Z. Avetisyan, M. Grigoryan, M. Ruzhansky, "Approximations in  $L^1$  with convergent Fourier series", arXiv:1810.06047
- 2018 Z. Avetisyan, "Jordanable almost Abelian Lie algebras", arXiv:1811.01252
- 2017 Z. Avetisyan, J. Sjöstrand, D. Vassiliev, "The second Weyl coefficient for a first order system", arXiv:1801.00757
- 2016 Z. Avetisyan, "Structure of almost Abelian Lie algebras", arXiv:1610.05365

### Papers: published

- 2017 Z. Avetisyan, Y.-L. Fang, N. Saveliev, D. Vassiliev, "Analytic definition of spin structure", *Journal of Mathematical Physics*, 58 (8), article 082301
- 2016 Z. Avetisyan, Y.-L. Fang, D. Vassiliev, "Spectral asymptotics for first order systems", *Journal of Spectral Theory*, 6, pages 695-715
- 2014 Z. Avetisyan, "A unified mode decomposition method for physical fields in homogeneous cosmology", *Reviews in Mathematical Physics*, 26 (3), pages 1430001-1 to 1430001-60
- 2013 Z. Avetisyan and R. Verch, "Explicit harmonic and spectral analysis in Bianchi I-VII type cosmologies", *Classical and Quantum Gravity*, 30 (15), pages 155006-1 to 155006-33
- 2013 Z. Avetisyan, "The completion of mode decomposition program in FRW spacetimes", *Armenian Journal of Physics*, 6 (2), pages 85 to 91
- 2010 Z. Avetisyan, D. Saakian, "Recombination in one- and two-dimensional fitness landscapes", *Physical Review E*, 05, pages 051916-1 to 051916-9

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## Papers: conference

- 2013 Z. Avetisyan, "A unified mode decomposition method for physical fields in homogeneous cosmology", *Physics of Particles and Nuclei Letters*, 11 (7), pages 996 to 998