Gor Hrachik Nikoghosyan

23-47

nikoghosyan@ysu.am

Միջուկային ֆիզիկայի և աստղաֆիզիկայի կենտրոն
Հեռանկարային հետազոտությունների միջազգային կենտրոն
Scientific Worker

Research Institute of Physics
Միջուկային ֆիզիկայի և աստղաֆիզիկայի կենտրոն
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Scientific Worker

Institute of Physics
Chair of Nuclear Physics and Astrophysics
Lecturer

Education

Institution	Yerevan State University
Faculty	Physics
Date	2018 - 2021
Degree name	PhD student

Institution	Yerevan State University
Faculty	Physics
Date	2016 - 2018
Degree name	Masters

Institution	Yerevan State University
Faculty	Physics
Date	2012 - 2016
Degree name	Bachelor

Scientific Rank/degree

Date	2021
Degree name	Candidate
Scientific Supervisor	Elena Kolganova
Research Topic	Isovector and isoscalar pair correlations of nucleons and their influence on the structure of atomic nuclei

Language skills

Հայերեն Русский English

Publications

Article

Polar optical scattering in ellipsoidal nanoclusters
Hrach S Nikoghosyan, Gor Nikoghosyan

Physica Scripta 2026 235911

https://iopscience.iop.org/article/10.1088/1402-4896/ae7671

Article

Photon echo on a three-level system of discrete spectrum of a spherical quantum dot
G. Nikoghosyan, H. S. Nikoghosyan, S. I. Pokutnyi

The European Physical Journal Plus 2025 731

Article

Quantum aberrations: Entangling photons with Zernike polynomials
G. Nikoghosyan, H. Avetisyan

Physical review. A/Physical review, A 2025 043714

https://journals.aps.org/pra/abstract/10.1103/dbfr-f46b

Article

Unipolar optical transitions in nanoclusters of ellipsoidal geometry
G. Nikoghosyan, H. S. Nikoghosyan

Physica B Condensed Matter 2024 415921

Article

Fermionic vacuum stresses in models with toroidal compact dimensions
A. A. Saharian, R. M. Avagyan, G. H. Harutyunyan, G. H. Nikoghosyan

Astrophysics 2024 231-245

Article

Adiabatic inversion in an array of spherical microcrystals under conditions of the Stark effect
G. Nikoghosyan, H.S. Nikoghosyan, E.A. Mughnetsyan

Physica B Condensed Matter 2023 414419

Article

Spontaneous (two-pulse) photon echo in the nanoscale structure of self-organized quantum dots
G. Nikoghosyan, H.S. Nikoghosyan

Physica B Condensed Matter 2023 415092

Article

Collective alpha-mode in the structure of heavy and superheavy nuclei
G. Nikoghosyan, R.V. Jolos, E.A. Kolganova

International journal of Modern physics E 2023 2350042

Article

Superlattice of spherical quantum dots with a trapezoidal potential profile with weak coupling of quasiparticles between layers of quantum dots
G. Nikoghosyan, H.S. Nikoghosyan

Physica B Condensed Matter 2022 413574

Article

Optical resonance in the inversion n-channel of a silicon MOS structure
G. Nikoghosyan, H.S. Nikoghosyan, H.G. Demirchian

Physica B Condensed Matter 2022 414018

Article

Coherent brightening of a multilayer MQW- structure taking into account resonant tunneling for ultra-short IR pulses in a transverse electric field
G. Nikoghosyan, H.S. Nikoghosyan

Physica E: Low-dimensional Systems and Nanostructures 2022 115377

Article

«Կոհերենտ թափանցիկացում», կամ ինչպես է լույսը ուղի հարթում ատոմների միջավայրում
Գոռ Նիկողոսյան, Հրաչիկ Նիկողոսյան

Գիտության աշխարհում 2022 34-42

Conference

Адиабатическая инверсия в массиве сферических микрокристаллов в условиях штарк-эффекта
Никогосян Г.Г., Никогосян Г.С., Мугнецян Э.А.

2022 79-80

https://physica.spb.ru/

Article

Fano resonance model for the processes of photoionization of two-well heterostructures in a transverse electric field
G. Nikoghosyan, H. S. Nikoghosyan, V. F. Manukyan, S. L. Harutyunyan

Physica E: Low-dimensional Systems and Nanostructures 2021 114587

Article

Isovector pair correlations in analytically solvable models
A. Balabekyan, G. Nikoghosyan, E. A. Kolganova, R. V. Jolos, D. A. Sazonov

International journal of Modern physics E 2020 2050091

Article

Isovector Pair Correlations of Nucleons in Nuclei

G. Nikoghosyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 284–291

Article

Non-Monotone Dispersion of Carriers in Size-Quantized Nanostructures with Violated Symmetries
G. H. Nikoghosyan, H. S. Nikoghosyan, S. L. Harutyunyan, V. F. Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 345 - 353

Article

Collective treatment of the isovector pair correlations: Boson representation
G. Nikoghosyan, E. A. Kolganova, D. A. Sazonov, R. V. Jolos

The European Physical Journal A 2019 189-198

Article

Effect of Self-Induced Transparency in a Massive of Spherical Quantum Dots Under the Conditions of Strong Dimensional Quantization

G. H. Nikoghosyan, H. S. Nikoghosyan, V. F. Manukyan, S. L. Harutyunyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 272–281

Article

Quantum Model of a Trapezoidal Limiting Potential Profile in a Spherical Nanocrystal

G. H. Nikoghosyan, H. S. Nikoghosyan, S. L. Harutyunyan, V. F. Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 345–350

Article

Coherent bleaching of the medium with Raman scattering under conditions of strong size quantization

G. H. Nikoghosyan, H. S. Nikoghosyan, S. L. Harutyunyan, V. F. Manukyan

Physica B Condensed Matter 2019 411710

Article

The phenomenon of nonstationary nutation in the system of two-level quantum wells of a periodic superlattice with strong magnetic quantization

G. H. Nikoghosyan, H. S. Nikoghosyan, V F Manukyan

Journal of Physics Conference Series 2019 055004

Article

Isovector and Isoscalar pair correlations in boson representation technique

G. Nikoghosyan, E. A. Kolganova, R. V. Jolos

Bulgarian Journal of Physics 2017 443-453
