# Вардан Францевич Манукян

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**Տեսական և մաթեմատիկական ֆիզիկայի կենտրոն**
Лаборатория теоретической физики
Старший научный сотрудник
**Научно-исследовательский институт физики**
Տեսական և մաթեմատիկական ֆիզիկայի կենտրոն
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## Образование

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| **Учреждение** | Ереванский государственный университет |
| **Факультет** | Физмат |
| **Дата** | 1989 - 1991 |
| **Степень / Звание** | Квалифицированный специалист |

## Ученое звание/Ученая степень

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| **Дата** | 2014 |
| **Степень / Звание** | Доцент |

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| **Дата** | 1998 |
| **Степень / Звание** | Кандидат наук |
| **Научный руководитель** | Белубекян Мелс |
| **Научная тема** | Влияние моментных напряжений и слоистой структуры на распространение локализованных поперечных волн |

## Знание языков

Հայերեն English Русский

## Опыт работы

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| **Учреждение** | Ереванский государственный университет |
| **Период времени** | 2022 до настоящего времени |
| **Звание/степень** | Старший научный сотрудник |

## Публикации

*Статья*

**Determining the minimum force to insert or remove a cork from a sealed cylinder**
Vardan Manukyan, Gagik Nikoghosyan

Physics Education 2026 013006

https://doi.org/10.1088/1361-6552/ae2e76

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*Статья*

**Electromagnetic Wightman functions and vacuum densities for a brane intersecting the AdS boundary**
A.A. Saharian, R.M. Avagyan, V.F. Manukyan

Nuclear Physics B 2026 117548

https://doi.org/10.1016/j.nuclphysb.2026.117548

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*Статья*

**Finite temperature fermionic charge and current densities in conical space with a circular edge**
A. A. Saharian, V.F. Manukyan, T.A. Petrosyan

Physical Review D 2025 065006

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*Статья*

**From Kinematics to the Formulas for the Radius of Curvature**
Vardan Manukyan, Gagik Nikoghosyan

The Physics Teacher 2024 763 - 765

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*Статья*

**Determining the centres of mass of a circular arc and a circular sector using the principle of virtual work**
Vardan Manukyan, Gagik Nikoghosyan

Physics Education 2023 045004

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*Статья*

**Electromagnetic vacuum stresses and energy fluxes induced by a cosmic string in de Sitter spacetime**
A.A, Saharyan, V.F. Manukyan, V. Kh. Kotanjyan, A. A. Grigoryan

International Journal of Modern Physics D 2023 2350042

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*Статья*

**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

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*Статья*

**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

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*Статья*

**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

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*Статья*

**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

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*Статья*

**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

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*Статья*

**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

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*Статья*

**Electromagnetic vacuum densities induced by a cosmic string**
A. A. Saharian, V. F. Manukyan, N. A. Saharyan

Particles 2018 175-193

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*Статья*

**Electromagnetic vacuum fluctuations around a cosmic string in de Sitter spacetime**
A. A. Saharian, V. F. Manukyan, N. A. Saharyan

The European Physical Journal C 2017 478, 13

http://link.springer.com/journal/10052

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*Статья*

**Electromagnetic Casimir densities for a cylindrical shell on de Sitter space**
A.A. Saharian, V.F. Manukyan, N.A. Saharyan

International Journal of Modern Physics A 2016 1650183-29

http://www.worldscientific.com/worldscinet/ijmpa

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*Статья*

**Scalar Casimir densities induced by a cylindrical shell in de Sitter spacetime**
A. A. Saharian, V. F. Manukyan

Classical and Quantum Gravity 2015 025009,23

http://iopscience.iop.org/journal/0264-9381

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*Конференция*

**Electromagnetic Casimir densities for a cylindrical boundary in de Sitter spacetime**
V. F. Manukyan, A. A. Saharian

2015 023,11

http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=262

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