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Տեսական և մաթեմատիկական ֆիզիկայի կենտրոն
Laboratory of Theoretical Physics
Scientific Worker
Research Institute of Physics
Տեսական և մաթեմատիկական ֆիզիկայի կենտրոն
Laboratory of Theoretical Physics
Scientific Worker
Institute of Physics
Chair of Theoretical and Mathematical Physics
Assistant

Education

Institution	Yerevan State University
Faculty	Department of Physics, Academician G. Sahakyan's Chair of Theoretical Physics
Date	2019 - 2022
Degree name	PhD student

Scientific Rank/degree

Institution	Yerevan State University
Date	2026
Degree name	Associate professor

Institution	Yerevan State University
Date	2022
Degree name	Candidate
Scientific Supervisor	Aram Saharian
Research Topic	Some quantum effects in cosmological models

Language skills

English Русский

Work experience

Institution	Yerevan State University
Period of time	2023 till now

Rank/degree	Scientific Researcher

Institution	Yerevan State University
Period of time	2021 - 2023
Rank/degree	Junior Researcher

Publications

Article

Scalar Vacuum Densities on Beltrami Pseudosphere

Tigran A. Petrosyan

Symmetry 2026 408

https://doi.org/10.3390/sym18030408

Article

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

Article

Topological Casimir effect for fermionic condensate in AdS spacetime with compact dimensions

T.A. Petrosyan, A.A. Grigoryan, A.A. Saharian

Europhysics Letters (EPL) 2025 64001

Article

Plane symmetric gravitational fields in (D+1)-dimensional General Relativity

R.M. Avagyan, T.A. Petrosyan, A.A. Saharian, G.H. Harutyunyan

Astrophysics 2024 405 - 419

Study manual

Տեսական մեխանիկայի խնդիրների ժողովածու

Ռոլանդ Ավագյան, Արամ Սահարյան, Տիգրան Պետրոսյան

2024 244

Article

Mean field squared and energy-momentum tensor for the hyperbolic vacuum in dS spacetime

A. A. Saharian, T. A. Petrosyan, V. S. Torosyan

Annals of Physics 2022 168728

Article

Cosmological Evolution With Negative Energy Densities

A.A. SAHARIAN, R.M. AVAGYAN, E.R. BEZERRA DE MELLO, V.KH. KOTANJYAN, T.A. PETROSYAN,

H.G. BABUJYAN

Astrophysics 2022 427–440

Article

Casimir Effect for Fermion Condensate in Conical Rings
Aram Saharian, Tigran Petrosyan, Arshak Hovhannisyan

UNIVERSE 2021 73 (1-20)

Article

Casimir densities induced by a sphere in the hyperbolic vacuum of de Sitter spacetime
A. A. Saharian, T. A. Petrosyan

Physical Review D 2021 065017

Article

Fermionic condensate in de Sitter spacetime
A. A. Saharian, E. R. Bezerra de Mello, A. S. Kotanjyan, T. A. Petrosyan

Astrophysics 2021 529-543

Article

Polarization of the Conformal Vacuum in the Milne Universe

T.A. Petrosyan

Armenian Journal of Physics 2021 180-190

Conference

On the Features of Radiation from a Charge Rotating Around Dielectric and Conductive Ball
L.Sh. Grigoryan, A.A. Saharian, H.F. Khachatryan, M.L. Grigoryan, A.V. Sargsyan, T.A. Petrosyan

2021 10-23

http://conference.iapp.am/?module=article&utility=show_article&id_article=1

Article

The Casimir densities for a sphere in the Milne universe
Aram A. Saharian, Tigran A. Petrosyan

Symmetry 2020 619(1-30)

Article

Scalar Field Modes in de Sitter Spacetime with Negative Curvature Spatial Foliation
A.A. Saharian, T.A. Petrosyan, S.S. Chitchyan, A.Kh. Grigoryan

Armenian Journal of Physics 2020 316-329

Article

Angular distribution of high power radiation from a charge rotating around a dielectric ball
T.A. Petrosyan, L.Sh. Grigoryan, A.A. Saharian, H.F. Khachatryan, M.L. Grigoryan, A.V. Sargsyan

Journal of Instrumentation 2020 C04035

Article

Angular Distribution of Intensive Radiation from a Charge Rotating Around a Conductive Ball
L.Sh. Grigoryan, A.A. Saharian, A.H. Mkrtchyan, H.F. Khachatryan, M.L. Grigoryan, T.A. Petrosyan,

H.P. Harutyunyan

Armenian Journal of Physics 2020 105 -113

Article

Vacuum fluxes from a brane in de Sitter spacetime with compact dimensions
A.A. Saharian, D.H. Simonyan, T.A. Petrosyan

Armenian Journal of Physics 2019 51-61

Article

BOUNDARY INDUCED QUANTUM EFFECTS IN LINEARLY EXPANDING COSMOLOGICAL MODELS

Petrosyan Tigran

Collection of scientific articles of YSU SSS 2019 231-243

Article

Scalar Casimir effect in a linearly expanding universe

A. A. Saharian, T. A. Petrosyan, S. V. Abajyan, B. B. Nersisyan

International Journal of Geometric Methods in Modern Physics 2018 1850177(1-26)
