

## Ֆիզիկայի ինստիտուտ

Ավադեմիկոս Գուրգեն Սահակյանի անվան տեսական ֆիզիկայի ամբիոն  
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## Լեզուների իմացություն

Հայերեն Русский English

## Հրատարակումներ

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### Observation of coherent Cherenkov radiation of electron bunches from a partially dielectric loaded waveguide

L.Sh. Grigoryan, A.P. Potylitsyn, M.V. Shevelev, A.V. Vukolov, P.V. Karataev, S.B. Dabagov, A.S. Vardanyan, A.S. Yeremyan, M.M. Sukiasyan, A.A. Saharian, V.R. Kocharyan, T.R. Muradyan, M.L. Grigoryan, D.E. Baghdasaryan, V.Kh. Kotanjyan, A.V. Sargsyan, H.P. Harutyunyan, H.F. Khachatryan, A.R. Mnatsakanyan, A.H. Mkrtchyan

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment  
2024 169177

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### Spectral-angular distribution of radiation generated by a train of electron bunches passing through the centre of a ball

L. Sh. Grigoryan, A. H. Mkrtchyan, P. A. Aleksandrov, A. A. Saharian, W. Wagner, M. L. Grigoryan, J. P. Markosyan, A. V. Sargsyan, A. V. Martirosyan, H. F. Khachatryan

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment  
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### Vacuum currents for a scalar field in models with compact dimensions

Aram A. Saharian  
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### Quasidiscrete spectrum Cherenkov radiation by a charge moving inside a dielectric waveguide

A. A. Saharian, S. B. Dabagov, H. F. Khachatryan, L. Sh. Grigoryan  
Journal of Instrumentation 2024 C06017

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### Տեսական մեխանիկայի խնդիրների ժողովածու

Ռուսանդ Ավագյան, Արամ Սահարյան, Տիգրան Պետրոսյան  
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**Fermionic vacuum stresses in models with toroidal compact dimensions**

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**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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**Surface-polariton excitation and energy losses by a charged particle in cylindrical waveguides**

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Physical Review A 2023 063513

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**Fermionic condensate and the mean energy-momentum tensor in the Fulling-Rindler vacuum**

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R.M. Avagyan, A.A. Saharian, S.S. Jibilyan

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**Radiation processes on acoustic superlattices**

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**On investigations of radiation processes in media under external influences conducted at the IAPP**

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**Helical vacuum currents for a scalar field in models with nontrivial spatial topology**

A. A. Saharian, D. H. Simonyan, H. H. Mikayelyan, A. A. Vantsyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 341-348

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**Surface Casimir densities on branes orthogonal to the boundary of anti-de Sitter spacetime**

Aram Saharian  
Physics (Switzerland) 2023 1145-1162

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**Fermionic vacuum polarization around a cosmic string in compactified AdS spacetime**

S. Bellucci, E. R. Bezerra de Mello, W. Oliveira dos Santos, A. A. Saharian  
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**Vacuum currents in partially compactified Rindler spacetime with an application to cylindrical black holes**

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S. Bellucci, W. Oliveira dos Santos, E. R. Bezerra de Mello, A. A. Saharian  
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**Vacuum densities and the Casimir forces for branes orthogonal to the AdS boundary**

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Springer Proceedings in Physics (Optics and Its Applications) 2022 113-127

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**Casimir Effect for Fermion Condensate in Conical Rings**

Aram Saharian, Tigran Petrosyan, Arshak Hovhannisyán

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**Casimir densities induced by a sphere in the hyperbolic vacuum of de Sitter spacetime**

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**The Holographic cosmology with axion field**

A. A. Saharian, A. V. Timoshkin

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**Dynamics of a cosmological model with a conformally-coupled scalar field**

R. M. Avagyan, G. H. Harutunyan, A. S. Kotanjyan, A. V. Hovsepian, A. A. Saharian

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A. A. Saharian, E. R. Bezerra de Mello, A. S. Kotanjyan, T. A. Petrosyan

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**Fermionic vacuum currents in topologically nontrivial braneworlds: Two-brane geometry**

S. Bellucci, A. A. Saharian, H. G. Sargsyan, V. V. Vardanyan

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**The Casimir effect for fermionic currents in conical rings with applications to graphene ribbons**

S. Bellucci, I. Brevik, A. A. Saharian, H. G. Sargsyan  
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**Electromagnetic Casimir densities for planar boundaries in AdS spacetime**

A. A. Saharian, A. S. Kotanjyan, A. A. Saharyan, H. G. Sargsyan

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**Synchrotron radiation from a charge circulating around a cylinder with negative permittivity**

A.A. Saharian, A.S. Kotanjyan, L.Sh. Grigoryan, H.F. Khachatryan, V.Kh. Kotanjyan

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Aram A. Saharian, Tigran A. Petrosyan

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**Scalar Field Modes in de Sitter Spacetime with Negative Curvature Spatial Foliation**

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**Electromagnetic field correlators and the Casimir effect for planar boundaries in AdS spacetime with application in braneworlds**

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**Cherenkov radiation and emission of surface polaritons from charges moving paraxially outside a dielectric cylindrical waveguide**

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**ИНДУЦИРОВАННАЯ ГРАНИЦЕЙ ПОЛЯРИЗАЦИЯ ВАКУУМА В ПРОСТРАНСТВЕ ДЕ СИТТЕРА С КОМПАКТНЫМИ ИЗМЕРЕНИЯМИ**

А.С. КОТАНДЖЯН, А.А. СААРЯН, Д.А. СИМОНЯН

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А. С. Котанджян, А. А. Саарян, В. Х. Котанджян

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**Generation of surface polaritons in dielectric cylindrical waveguides**

A. S. Kotanjyan, A. R. Mkrtchyan, A. A. Saharian, V. Kh. Kotanjyan

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**Vacuum fluxes from a brane in de Sitter spacetime with compact dimensions**

A.A. Saharian, D.H. Simonyan, T.A. Petrosyan

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**Transition radiation on a superlattice in finite thickness plate generated by two acoustic waves**

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E. R. Bezerra de Mello, A. A. Saharian, S. V. Abajyan

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**Induced cosmological constant in brane models with a compact dimension**

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**Electromagnetic vacuum densities induced by a cosmic string**

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**Models of Compact Stars in the Bimetric Scalar-Tensor Theory of Gravitation**

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**Scalar Casimir effect in a linearly expanding universe**

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

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**The Casimir effect for parallel plates in Friedmann-Robertson-Walker universe**

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A. S. Kotanjyan, A. A. Saharian

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**Synchrotron and Smith-Purcell radiations from a charge rotating around a cylindrical grating**

A.A. Saharian, A.S. Kotanjyan, A.R. Mkrtchyan, B.V. Khachatryan

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**Radiation from a charge rotating inside a cylindrical grating**

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**Fermionic currents in AdS spacetime with compact dimensions**

S. Bellucci, A. A. Saharian, V. Vardanyan

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**Casimir forces in models with non-trivial topology**

T. Sh. Navasardyan, A. A. Saharian

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**Finite temperature fermion condensate, charge and current densities in a (2+1)-dimensional conical space**

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S. Bellucci, A. A. Saharian, N. A. Saharyan

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**Quantum effects in anti-de Sitter spacetime for electromagnetic vacuum state**

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**The Synchrotron Radiation of the Transversal Oscillator**

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