

## Լեզուների իմացություն

Հայերեն Русский English

## Հրատարակումներ

Հոդված

### 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  
2024 168991

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### Vacuum currents for a scalar field in models with compact dimensions

Aram A. Saharian  
Symmetry 2024 92

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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

ՈՒՏՈՒՄՆԱԿԱՆ ձեռնարկ

### Տեսական մեխանիկայի խնդիրների ժողովածու

Ռուսանդ Ավագյան, Արամ Սահարյան, Տիգրան Պետրոսյան  
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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**

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

Physical Review A 2023 063513

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

S. Bellucci, V.Kh. Kotanjyan, A.A. Saharian

Physical Review D 2023 085014

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**Motion of a Particle in the Field of an Infinite Flat Slab**

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

Astrophysics 2023 411-422

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**Radiation processes on acoustic superlattices**

A.A. Saharian, L. Sh. Grigoryan, H. F. Khachatryan, V. V. Parazian

Journal of Physics: Conference Series 2023 012017

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

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

Journal of Physics: Conference Series 2023 012012

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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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**Topological Effects in a Fermionic Condensate Induced by a Cosmic String and Compactification on the AdS Bulk**

Stefano Bellucci, Wagner Oliveira dos Santos, Eugenio R. Bezerra de Mello, Aram A. Saharian

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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

Journal of Cosmology and Astroparticle Physics 2022 010

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**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

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**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

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**Vacuum currents in partially compactified Rindler spacetime with an application to cylindrical black holes**

V. Kh. Kotanjyan, A. A. Saharian, M. R. Setare

Nuclear Physics B 2022 115838

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**Cosmic string and brane induced effects on the fermionic vacuum in AdS spacetime**

S. Bellucci, W. Oliveira dos Santos, E. R. Bezerra de Mello, A. A. Saharian

Journal of High Energy Physics 2022 021

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**Vacuum densities and the Casimir forces for branes orthogonal to the AdS boundary**

S. Bellucci, A. A. Saharian, V. Kh. Kotanjyan

Physical Review D 2022 065021

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**Radiation of surface polaritons in cylindrical waveguides**

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

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

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**Finite temperature charge and current densities around a cosmic string in AdS spacetime with compact dimension**

E. R. Bezerra de Mello, W. Oliveira dos Santos, A. A. Saharian

Physical Review D 2022 125009

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

Aram Saharian, Tigran Petrosyan, Arshak Hovhannisyann

UNIVERSE 2021 73 (1-20)

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**FLAP Collaboration: Tasks and Perspectives. Study of Fundamentals and New Applications of Controllable Generation of Electromagnetic Radiation by Relativistic Electrons Using**

## Functional Materials

L. Aloyan, A. Avetisyan, Y. Dalyan, L. Grigoryan, N. Karapetyan, V. Kocharyan, A. Mkrtchyan, A. Movsisyan, A. Saharian, A. Shahbazyan, A. Baldin, 37  
Physics of Particles and Nuclei Letters 2021 338-353

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### **Vacuum fermionic currents in braneworld models on AdS bulk with a cosmic string**

A. A. Saharian, S. Bellucci, W. Oliveira dos Santos, E. R. Bezerra de Mello

Journal of High Energy Physics 2021 190

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### **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

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### **The Holographic cosmology with axion field**

A. A. Saharian, A. V. Timoshkin

International Journal of Geometric Methods in Modern Physics 2021 2150174

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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. Hovsepyan, A. A. Saharian

Astrophysics 2021 355-369

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### **Fermionic condensate in de Sitter spacetime**

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

Astrophysics 2021 529-543

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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

Physical Review D 2020 045020(1-23)

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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

European Physical Journal C 2020 281(1-22)

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## Հոդված

### **Electromagnetic Casimir densities for planar boundaries in AdS spacetime**

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

International Journal of Modern Physics A 2020 2040029(1-5)

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## Հոդված

### **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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**The Casimir densities for a sphere in the Milne universe**

Aram A. Saharian, Tigran A. Petrosyan

Symmetry 2020 619(1-30)

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**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

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**Quantum vacuum effects in braneworlds on AdS bulk**

Aram A. Saharian

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

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

Physical Review D 2020 105014

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

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

Physical Review A 2020 063517

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**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

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**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

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

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

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 3-15

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**СИНХРОТРОННОЕ ИЗЛУЧЕНИЕ ЗАРЯДА НА СОБСТВЕННЫХ МОДАХ ДИЭЛЕКТРИЧЕСКОГО ЦИЛИНДРА**

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

Physical Review Special Topics-Accelerators and Beams 2019 040701(1-10)

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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**

A. R. Mkrtchyan, V. V. Parazian, A. A. Saharian

Journal of Instrumentation 2018 C01032(1-7)

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**Radiation of surface waves from a charge rotating around a dielectric cylinder**

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

Journal of Instrumentation 2018 C01016(1-6)

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**Scalar Casimir densities and forces for parallel plates in cosmic string spacetime**

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

Physical Review D 2018 085023(1-22)

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

A. A. Saharian, H. G. Sargsyan

Astrophysics 2018 375-390

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

A. A. Saharian, V. F. Manukyan, N. A. Saharyan

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

Levon Sh. Grigorian, Hrant F. Khachatryan, Aram A. Saharian

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**Fermionic currents in topologically nontrivial braneworlds**

S. Bellucci, A. A. Saharian, D. H. Simonyan, V. V. Vardanyan

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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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**Induced Cosmological Constant in Braneworlds with Compact Dimensions**

A. A. Saharian, H. G. Sargsyan

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**Qualitative Analysis of Cosmological Models in  $f(R)$ -Gravity**

R. M. Avagyan, E. V. Chubaryan, G. H. Harutyunyan, A. A. Saharian

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**Superdense Stellar Configurations in the Bimetric Scalar-Tensor Theory of Gravity**

L. Sh. Grigorian, H. F. Khachatryan, A. A. Saharian

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

E.R. Bezerra de Mello, A.A. Saharian, M.R. Setare

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**Fermionic condensate and the Casimir effect in cosmic string spacetime**

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**Electromagnetic Quantum Effects in Anti-De Sitter Spacetime**

A. S. Kotanjyan, A. A. Saharian

Physics of Atomic Nuclei 2017 562-571

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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**

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

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**Electromagnetic vacuum fluctuations around a cosmic string in de Sitter spacetime**

A. A. Saharian, V. F. Manukyan, N. A. Saharyan

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**Излучение заряда, вращающегося вокруг идеально проводящего цилиндра**

Саарян, А. А., Котанджян, А. С., Варданян, Т. С.

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 298-306

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

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

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**Electromagnetic Casimir Effect in AdS Spacetime**

Anna S. Kotanjyan, Aram A. Saharian, Astghik A. Saharyan

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

T. Sh. Navasardyan, A. A. Saharian

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**Vacuum Densities for a Charged Scalar Field in de Sitter Space-Time with Compact Dimensions**

E. V. Chubaryan, A. S. Kotanjyan, A. A. Saharian, D. H. Simonyan

Gravitation & Cosmology 2016 187-192

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**Qualitative evolution in f(R) cosmologies**

R.M. Avagyan, E.V.Chubaryan, G.H. Harutyunyan, A.A.Saharian

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**Casimir effect in hemisphere capped tubes**

E. R. Bezerra de Mello, A. A. Saharian

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**Induced fermionic current by a magnetic flux in a cosmic string spacetime at finite temperature**

E. R. Bezerra de Mello, A. A. Saharian, A. Mohammadi

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A. R. Mkrtchyan, A. P. Potylitsyn, V. R. Kocharyan, A. A. Saharian

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

S. Bellucci, E. R. Bezerra de Mello, E. Braganca, A. A. Saharian

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**Hadamard function and the vacuum currents in braneworlds with compact dimensions: Two-branes geometry**

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

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**Radiation from a longitudinal oscillator moving along a circular trajectory**

A S Kotanjyan, A A Saharian

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**The study of undulator radiation of transversal oscillator**

A S Kotanjyan, A A Saharian

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

A. S. Kotanjyan, A. A. Saharian, H. G. Sargsyan, D. H. Simonyan

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**ELECTROMAGNETIC CASIMIR DENSITIES FOR A PLATE IN ANTI-DE SITTER SPACETIME**

A. A. Saharian, A. S. Kotanjyan, A. A. Saharyan

Proceedings of the YSU. Physical and Mathematical Sciences 2016 37-41

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**Electromagnetic Casimir densities for a cylindrical shell on de Sitter space**

A.A. Saharian, V.F. Manukyan, N.A. Saharyan

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A. Mohammadi, E. R. Bezerra de Mello, A. A. Saharian

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**Finite temperature fermionic charge and current densities induced by a cosmic string with magnetic flux**

A. Mohammadi, E. R. Bezerra de Mello, A. A. Saharian

Journal of Physics A-Mathematical and Theoretical 2015 185401

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E. R. Bezerra de Mello, A. A. Saharian, M. R. Setare

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**Casimir effect for scalar current densities in topologically nontrivial spaces**

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

European Physical Journal C 2015 378,17

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**Wightman function and the Casimir effect for a Robin sphere in a constant curvature space**

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

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Գիտաժողովի նյութ

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

KOTANJYAN Anna, Prof. SAHARIAN Aram, Mr. SARGSYAN Hayk, Mr. SIMONYAN David

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**Electromagnetic Casimir densities for a cylindrical boundary in de Sitter spacetime**

V. F. Manukyan, A. A. Saharian

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Գիտաժողովի նյութ

**Electromagnetic quantum effects in anti-de Sitter spacetime**

A.S. Kotanjyan, A.A. Saharian

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**The Synchrotron Radiation of the Transversal Oscillator**

A. Kotanjyan, A. Saharian

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**On a possible interference of synchrotron and Smith-Purcell radiation**

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

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**The study of undulator radiation of transversal oscillator**

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*Գիտաժողովի նյութ*

**Synchrotron radiation from a relativistic charged particle rotating around a cylindrical diffraction grating**

Anna Kotanjyan, A. Saharian, B. Khachatryan

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*Գիտաժողովի նյութ*

**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

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