

# Արամ Ազատի Սահարյան

## Ֆիզիկայի ինստիտուտ

Տեսական և մաթեմատիկական ֆիզիկայի ամբիոն  
Ամբիոնի վարիչ (պրոֆեսոր)

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## Լեզուների իմացություն

Հայերեն Русский English

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

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### Vacuum currents in elliptic pseudosphere tubes

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**Տեսական մեխանիկայի խնդիրների ժողովածու**

Ռոլանդ Ավագյան, Արամ Սահարյան, Տիգրան Պետրոսյան

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

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

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

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

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**Fermionic condensate in de Sitter spacetime**

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

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

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International Journal of Modern Physics B 2020 2050065(1-18)

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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**

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Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 151-159

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

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

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

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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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Physical Review D 2017 065024

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

A.Kh. Grigoryan, A.R. Mkrtchyan, A.A. Saharian

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

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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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.

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

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

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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

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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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A S Kotanjyan, A A Saharian

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A S Kotanjyan, A A Saharian

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

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**Induced vacuum currents in anti-de Sitter space with toral dimensions**

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**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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*Գիտաժողովի նյութ*

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

V. F. Manukyan, A. A. Saharian

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**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**

Anna Kotanjyan, Aram Saharian

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

Anna Kotanjyan, A. Saharian, B. Khachatryan

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**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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