

# Vardazar Khoren Kotanjyan

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## Research Institute of Physics

Laboratory of Theoretical Physics

Researcher

## 🌐 Language skills

English Русский

## 📖 Publications

*Article*

### **Radiation of surface polaritons by an annular beam coaxially enclosing a cylindrical waveguide**

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

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment  
2025 170408

*Article*

### **Radiation from a charged particle rotating around a ball of a dispersive matter**

L. Sh. Grigoryan, H. F. Khachatryan, A. H. Mkrtchyan, S. B. Dabagov, A. A. Saharian, H. P. Harutyunyan, A. R. Mnatsakanyan, G. V. Margaryan, V. Kh. Kotanjyan

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment  
2025 170462

*Article*

### **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

*Article*

### **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

*Article*

### **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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*Article*

**Polarization of the Fulling-Rindler Vacuum in Models with Compact Dimensions**

V. Kh. Kotanjyan

Armenian Journal of Physics 2023 83-90

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*Article*

**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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*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

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*Article*

**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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*Article*

**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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