

# Արամ Ազատովիչ Տաարյան

## Ինստիտուտ ֆիզիկի

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## 🌐 Знание языков

Հայերեն Русский English

## 📖 Публикации

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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  
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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

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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

Образовательный Руководство

### Տեսական մեխանիկայի խնդիրների ժողովածու

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

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---

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Астрофизика (Astrophysics) 2024 405 - 419

---

Статья

**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

---

Статья

**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

---

Статья

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

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---

Статья

**Radiation processes on acoustic superlattices**

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

Journal of Physics: Conference Series 2023 012017

---

Статья

**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

---

Статья

**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

---

Статья

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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  
Symmetry 2022 584

---

*Статья*

**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

---

*Статья*

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

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Annals of Physics 2022 168728

---

*Статья*

**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

---

*Статья*

**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

---

*Статья*

**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

---

*Статья*

**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

---

*Статья*

**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

---

*Статья*

**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

---

*Статья*

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

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UNIVERSE 2021 73 (1-20)

---

*Статья*

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Physics of Particles and Nuclei Letters 2021 338-353

---

*Статья*

**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

---

*Статья*

**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

---

*Статья*

**The Holographic cosmology with axion field**

A. A. Saharian, A. V. Timoshkin

International Journal of Geometric Methods in Modern Physics 2021 2150174

---

*Статья*

**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

Astrophysics 2021 355-369

---

*Статья*

**Fermionic condensate in de Sitter spacetime**

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

Astrophysics 2021 529-543

---

*Статья*

**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)

---

*Статья*

**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)

---

*Статья*

**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)

---

*Статья*

**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

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

---

*Статья*

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

Aram A. Saharian, Tigran A. Petrosyan

Symmetry 2020 619(1-30)

---

*Статья*

**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

---

*Статья*

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

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---

*Статья*

**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

---

*Статья*

**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

---

*Статья*

**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

---

*Статья*

**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,

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*Статья*

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

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

---

*Статья*

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

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

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

---

*Статья*

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

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

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

---

*Статья*

**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

---

*Статья*

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

A. R. Mkrтчyаn, V. V. Parazian, A. A. Saharian

Journal of Instrumentation 2018 C01032(1-7)

---

*Статья*

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

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

Journal of Instrumentation 2018 C01016(1-6)

---

*Статья*

**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)

---

*Статья*

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

A. A. Saharian, H. G. Sargsyan

Astrophysics 2018 375-390

---

*Статья*

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

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

Particles 2018 175-193

---

Статья

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

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Particles 2018 203-211

---

Статья

**Fermionic currents in topologically nontrivial braneworlds**

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

Physical Review D 2018 085020(1-22)

---

Статья

**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)

---

Статья

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

A. A. Saharian, H. G. Sargsyan

Communications of the Byurakan Astrophysical Observatory 2018 315-326

---

Статья

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

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

Communications of the Byurakan Astrophysical Observatory 2018 291-302

---

Статья

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

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

Communications of the Byurakan Astrophysical Observatory 2018 327-337

---

Статья

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

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

Physical Review D 2017 065024

<http://journals.aps.org/prd/>

---

Статья

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

A.Kh. Grigoryan, A.R. Mkrтчyan, A.A. Saharian

International Journal of Modern Physics D 2017 1750064

<http://www.worldscientific.com/worldscinet/ijmpd>

---

Статья

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

A. S. Kotanjyan, A. A. Saharian

Physics of Atomic Nuclei 2017 562-571

<http://link.springer.com/journal/11450>

---

Статья

**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

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS  
2017 162-166

<https://www.journals.elsevier.com/nuclear-instruments-and-methods-in-physics-re...>

---

*Статья*

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

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

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS  
2017 173-176

<https://www.journals.elsevier.com/nuclear-instruments-and-methods-in-physics-re...>

---

*Статья*

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

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

European Physical Journal C 2017 478, 13

<http://link.springer.com/journal/10052>

---

*Статья*

**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

<http://www.flib.sci.am/eng/Fizika/Frame.html>

---

*Статья*

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

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

Physical Review D 2017 065025(1-15)

---

*Статья*

**Electromagnetic Casimir Effect in AdS Spacetime**

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

Galaxies 2017 102(1-11)

---

*Статья*

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

T. Sh. Navasardyan, A. A. Saharian

Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 348-354

---

*Статья*

**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

<http://pleiades.online/en/journal/gravcos>

---

*Статья*



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

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

General Relativity and Gravitation 2016 1-21

<http://link.springer.com/journal/10714>

---

*Статья*

**Casimir effect in hemisphere capped tubes**

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

International Journal of Theoretical Physics 2016 1167-1191

<http://link.springer.com/journal/10773>

---

*Статья*

**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

International Journal of Modern Physics A 2016 1641021,10

<http://www.worldscientific.com/worldscinet/ijmpa>

---

*Статья*

**Transition radiation on a dynamical periodical interface**

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

Physical Review E 2016 022117,9

<https://journals.aps.org/pre/>

---

*Статья*

**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

European Physical Journal C 2016 76-350

<http://link.springer.com/journal/10052>

---

*Статья*

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

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

Physical Review D 2016 084011,20

<http://journals.aps.org/prd/>

---

*Статья*

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

A S Kotanjyan, A A Saharian

Journal of Physics: Conference Series 2016 012005/1-7

<http://iopscience.iop.org/journal/1742-6596>

---

*Статья*

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

A S Kotanjyan, A A Saharian

Journal of Physics: Conference Series 2016 012010/1-6

<http://iopscience.iop.org/journal/1742-6596>

---

Статья

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

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

Proceedings of Science 2016 021/1-13

<http://pos.sissa.it/POSwhat.html>

---

Статья

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

A S Kotanjyan, A A Saharian

Journal of Physics: Conference Series 2016 012009/7

<http://iopscience.iop.org/journal/1742-6596>

---

Статья

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

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

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

<http://www.y-su.am/science/en/journals>

---

Статья

**Induced fermionic charge and current densities in two-dimensional rings**

S. Bellucci, A.A. Saharian, A.Kh. Grigoryan

Physical Review D 2016 105007

<http://journals.aps.org/prd/>

---

Статья

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

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

International Journal of Modern Physics A 2016 1650183-29

<http://www.worldscientific.com/worldscinet/ijmpa>

---

Статья

**Electromagnetic Casimir effect for conducting plates in de Sitter spacetime**

A. S. Kotanjyan, A. A. Saharian, H. A. Nersisyan

Physica Scripta 2015 065304/1-9

<http://iopscience.iop.org/journal/1402-4896>

---

Статья

**Scalar Casimir densities induced by a cylindrical shell in de Sitter spacetime**

A. A. Saharian, V. F. Manukyan

Classical and Quantum Gravity 2015 025009,23

<http://iopscience.iop.org/journal/0264-9381>

---

Статья

**Induced fermionic currents in de Sitter spacetime in the presence of a compactified cosmic string**

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

Classical and Quantum Gravity 2015 135002,25

<http://iopscience.iop.org/journal/0264-9381>

---

Статья

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

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

Physics Letters B 2015 155-162

<http://www.journals.elsevier.com/physics-letters-b>

---

*Статья*

**Vacuum currents induced by a magnetic flux around a cosmic string with finite core**

E. R. Bezerra de Mello, V. B. Bezerra, A. A. Saharian, H. H. Harutyunyan

Physical Review D 2015 064034,19

<http://journals.aps.org/prd/>

---

*Статья*

**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

<http://iopscience.iop.org/journal/1751-8121>

---

*Статья*

**Vacuum densities for a brane intersecting the AdS boundary**

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

Physical Review D 2015 104005,11

<http://journals.aps.org/prd/>

---

*Статья*

**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

<http://link.springer.com/journal/10052>

---

*Статья*

**Vacuum currents in braneworlds on AdS bulk with compact dimensions**

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

Journal of High Energy Physics 2015 092,36

<http://www.springer.com/physics/particle+and+nuclear+physics/journal/13130>

---

*Статья*

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

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

European Physical Journal C 2014 3047,19

<http://link.springer.com/journal/10052>

---

*Конференция*

**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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*Конференция*

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---

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---

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---

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---

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---

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---

*Конференция*

**On the Features of Radiation from a Charge Rotating Around Dielectric and Conductive Ball**

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