

# Davit Hakob Simonyan

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## Research Institute of Physics

Laboratory of Theoretical Physics

Junior Researcher

## 🌐 Language skills

English Русский

## 📖 Publications

*Article*

### **Topological Casimir effect in models with helical compact dimensions**

R. M. Avagyan, A. A. Saharian, D. H. Simonyan, G. H. Harutyunyan

Astrophysics 2024 520-536

*Article*

### **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

*Article*

### **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

*Article*

### **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

*Article*

### **Fermionic currents in topologically nontrivial braneworlds**

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

Physical Review D 2018 085020(1-22)

*Article*

### **Vacuum fluctuations for a charged scalar field in de Sitter spacetime with compact dimensions**

D. H. Simonyan

Armenian Journal of Physics 2018 145-152

*Article*

### **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>

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*Article*

**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>

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*Conference*

**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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