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## 🌐 Language skills

Русский

## 📖 Publications

Article

### Simple Extension of Kitaev Chain for Z3 Parafermions [Простое обобщение цепочки Китаева для Z3 парафермионов]

Hakobyan T.S., Varosyan R.H., Harutyunyan G.H.

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 28-35

Article

### Fermionic vacuum stresses in models with toroidal compact dimensions

A. A. Saharian, R. M. Avagyan, G. H. Harutyunyan, G. H. Nikoghosyan

Астрофизика (Astrophysics) 2024 231-245

Article

### Plane symmetric gravitational fields in (D+1)-dimensional General Relativity

R.M. Avagyan, T.A. Petrosyan, A.A. Saharian, G.H. Harutyunyan

Астрофизика (Astrophysics) 2024 405 - 419

Article

### On the Kinetic Theory of Formation and Growth of Synthetic Diamond in the Region of Thermodynamic Stability in Diffusion and Diffusion-Less Approximation [К КИНЕТИЧЕСКОЙ ТЕОРИИ ОБРАЗОВАНИЯ И РОСТА СИНТЕТИЧЕСКОГО АЛМАЗА В ОБЛАСТИ ТЕРМОДИНАМИЧЕСКОЙ СТАБИЛЬНОСТИ]

A. N. Avagyan, A. V. Hovsepyan, G. G. Harutyunyan, M. S. Sakanyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 224-237

Article

### Investigation of the Inflationary Process of the Theory of JBD

H.K. Teryan, A.S. Kotanjyan, G.H. Harutyunyan

Armenian Journal of Physics 2022 1 - 6

Article

### Dynamics of a cosmological model with a conformally-coupled scalar field

R. M. Avagyan, G. H. Harutyunyan, A. S. Kotanjyan, A. V. Hovsepyan, A. A. Saharian

Astrophysics 2021 355-369

Article

**ОБ УСКОРЕННОМ РАСШИРЕНИИ РАННЕЙ И ПОЗДНЕЙ ВСЕЛЕННОЙ В РАМКАХ СКАЛЯРНО-ТЕНЗОРНОЙ ТЕОРИИ ТЯГОТЕНИЯ. II**

Р.М.Авакян, Г.Г.Арутюнян

Астрофизика (Astrophysics) 2018 141-152

[http://www.flib.sci.am/eng/Astrophysics/V61Iss1\\_2018.html](http://www.flib.sci.am/eng/Astrophysics/V61Iss1_2018.html)

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Article

**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

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Article

**Dynamics of the Quasi-de Sitter Model of the Early Universe**

A.S. Kotanjyan, R.M. Avagyan, G.H. Harutyunyan, N.A. Saharyan

Physics of Atomic Nuclei 2018 894-898

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Article

**Об ускоренном расширении ранней и поздней Вселенной в рамках скалярно-тензорной теории тяготения.**

Г.Г.Арутюнян, Р.М.Авакян, С.В.Сушков

Астрофизика (Astrophysics) 2017 159-168

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

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Article

**Кинетические и термодинамические аспекты ориентационного роста алмаза**

А.Н. АВАКЯН, А.В. ОВСЕПЯН, Г.Г. АРУТЮНЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 321-330

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

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Article

**Conformal Representations of the General Scalar-Tensor Theory and Cosmological Models**

E. V. Chubaryan, R. M. Avagyan, G. H. Harutyunyan, A. V. Hovsepyan, A. S. Kotanjyan

Gravitation & Cosmology 2016 193-198

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

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Article

**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>

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Article

**Nucleation in High-Pressure Chamber as a Result of a Direct Graphite-to-Diamond Transition. Stochastic Approximation**

A.N. Avagyan, G.H. Harutyunyan, A.V. Hovsepyan, M.S. Sakanyan

Armenian Journal of Physics 2016 6-14

<http://ajp.asj-oa.am/>

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*Article*

**Representation of the evolution of the Universe in the JBD theory considering vacuum phenomena**

G.H. Harutyunyan, R.M. Avagyan, A.S. Kotanjyan, A.V. Hovsepyan

Proceedings of Science 2016 019/1-8

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

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*Article*

**On a possible inflationary model of the early Universe**

R.M. Avagyan, G.H.Harutyunyan, S.V. Sushkov

Proceedings of the YSU A. Physical and Mathematical Sciences 2016 11-14

<http://www.ysu.am/science/en/journals>

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*Article*

**SOME PROPERTIES OF STATIONARY GRAVITATIONAL FIELDS**

R.M. Avagyan, G.H.Harutyunyan, S.V. Sushkov

Astrophysics 2015 397-405

<http://www.springer.com/astronomy/journal/10511>

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*Conference*

**Late stage of the Universe evolution taking into account the vacuum effects**

KOTANJYAN Anna, Prof. AVAGYAN Roland, Prof. HARUTYUNYAN Gohar, Prof. SUSHKOV Sergey,

Prof. CHUBARYAN Edvard

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*Conference*

**Nucleation in pressure chamber as a result of a direct graphite-to-diamond transition. Stochastic approximation**

G.H. Harutyunyan, R.M. Avagyan, A.N. Avagyan, A.V. Hovsepyan, M.S. Sakanyan

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*Conference*

**Об одном сценарии расширения ранней Вселенной**

Р.М. Авагян, Н.А. Саарян, Г.Г. Арутюнян, А.С. Котанджян

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