

Roland Mamikoni Avagyan

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Senior researcher

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🎓 Education

Institution	Yerevan State University
Faculty	Chair of Theoretical Physics
Date	1962 - 1968
Degree name	Qualified specialist

🎓 Scientific Rank/degree

Institution	Yerevan State University
Date	1990
Degree name	Professor
Specialty	Physico-mathematical sciences

📁 Work experience

Institution	Yerevan State University
Period of time	1967 till now
Rank/degree	professor

🔍 Scientific interests

- Quantum mechanics, Classic mechanics
- cosmology

📖 Publications

Article

Effective potentials in general scalar-tensor theories of gravity

A. A. Saharian, G. H. Harutyunyan, H. K. Teryan, R. M. Avagyan

Astrophysics 2025 212-227

Manual

Տեսական մեխանիկայի խնդիրների ժողովածու

Ռոլանդ Ավագյան, Արամ Սահարյան, Տիգրան Պետրոսյան

2024 244

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

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

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

R.M. Avagyan, A.A. Saharian, S.S. Jibilyan

Astrophysics 2023 411-422

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

Article

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

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

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

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

Article

Об ускоренном расширении ранней и поздней Вселенной в рамках скалярно-тензорной

теории тяготения.

Г.Г.Арутюнян, Р.М.Авагян, С.В.Сушков

Астрофизика (Astrophysics) 2017 159-168

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

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>

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>

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>

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.y-su.am/science/en/journals>

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>

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

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

Conference

Об одном сценарии расширения ранней Вселенной

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