

Hasmik A. Shahinyan

Institute of Physics

Chair of Radiophysics and Telecommunications

Associate professor

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Education

Institution	Yerevan State University
Faculty	Radiophysics
Date	2009 - 2015
Degree name	PhD student

Institution	Yerevan State University
Faculty	Radiophysics
Date	2007 - 2009
Degree name	Masters

Institution	Yerevan State University
Faculty	Radiophysics
Date	2003 - 2007
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2022
Degree name	Associate professor
Specialty	Physico-mathematical sciences

Institution	Yerevan State University
Date	2016
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	Yuri L. Vartanyan
Research Topic	PRESENCE OF STRANGE QUARK MATTER IN SUPERDENSE CELESTIAL OBJECTS

Language skills

Հայերեն Русский English

Scientific interests

- Physics of superdense quark stars. Quantum physics.
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Publications

Article

Maximal mass strange quark stars based on the modified MIT model with variable vacuum pressure

Hasmik Shahinyan, Tigran Sargsyan, Arsen Babajanyan

Nuclear Physics B 2026 117277

Article

Pulsars with the masses $2.14M_{\odot}$ and $2.27M_{\odot}$ as strange star candidates

Hasmik Shahinyan, Tigran Sargsyan, Arsen Babajanyan

Journal of High Energy Astrophysics 2024 126-131

Article

Numerical Solutions of Certain Time-Independent Quantum Mechanics Problems by Using the Python Environment

H. Shahinyan, L. Ghazaryan, A. Babajanyan

Armenian Journal of Physics 2024 43-51

Article

Microparticles in One-Dimensional, Two-Dimensional and Three-Dimensional Rectangular Potential Holes

H.A. Shahinyan, L.S. Ghazaryan, N.J. Grigoryan

Armenian Journal of Physics 2023 20-28

Article

CARDIAC CORRELATES OF NEURODEGENERATIVE CHANGES IN RATS IN THE FORMATION OF PARKINSON'S AND ALZHEIMER'S DISEASES

Shahinyan H.A., Sarkissian J.S., Sargsyan R.Sh, Poghosayn M.V, Sargsyan V.R.

ՀՀ ԳԱԱ էլեկտրոնային ամսագիր, բնական գիտություններ 2023 22-26

Article

Solvent Effects on Spin-Spin Coupling Constants in Organomercury Compounds

A.A. SHAHKHATUNI, A.S. MOVSISYAN, A.A.SHAHINYAN, A.G. SHAHKHATUNI

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 69-72

Manual

Ատոմային և միջուկային ֆիզիկայի ընդհանուր դասընթացի լաբորատոր աշխատանքների ուղեցույց

Հասմիկ Շահինյան, Լուսինե Ղազարյան, Արսեն Բաբաջանյան

2021 64

Article

STRANGE STARS AT VACUUM PRESSURE DEPENDENT ON QUARK DENSITY

Yu.L.VARTANYAN, A.K.GRIGORYAN, H.A.SHAHINYAN

ԵՊՀ Գիտական տեղեկագիր, Բնական գիտություններ 2017 71-76

<http://ysu.am/science/hy/1355990920>

Article

MASS DEFECT OF STRANGE STARS

H.A.Shahinyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2015 p. 57-61

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

Conference

Mass-radius relation of white and strange stars

VARTANYAN Yury, HAJYAN Gevorg, GRIGORYAN Alexander, ALAVERDYAN Ani, SHAHINYAN Hasmik

Conference

Pulsars with more exactly measured masses as possible candidates of strange stars

VARTANYAN Yuri, GRIGORYAN Alexander, SHAHINYAN Hasmik

Conference

Strange quark matter in compact stars

Yu.L.Vartanyan, G.S.Hajyan, G.B.Alaverdyan, A.K.Grigoryan, A.R.Harutyunyan, A.G.Alaverdyan,

H.A.Shahinyan

Conference

The impact of non-zero quark masses on the Equation of State and the Maximum Mass of Strange Quark Stars

Hasmik Shahinyan, Tigran Sargsyan, Arsen Babajanyan
