Hasmik A. Shahinyan

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Institute of Physics
Chair of Radiophysics and Telecommunications
Associate professor

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Research Institute of Physics
Տեսական և մաթեմատիկական ֆիզիկայի կենտրոն
Գերխիտ աստղերի ֆիզիկայի լաբորատորիա
Scientific Worker

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

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

Language skills

Հայերեն Русский English

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

The Absolute Stability and Mass Constraints of Strange Stars in the MIT Bag Model
Hasmik Shahinyan, Tigran Sargsyan, Arsen Babajanyan

Particles 2026 53 - 53

https://www.mdpi.com/2571-712X/9/2/53

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

2025 22 - 22

https://indico.global/event/13917/

Article

Pulsars with the masses 2.14M⊙ and 2.27M⊙ 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

Study 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

2015 6

https://indico.cern.ch/event/360350/abstract-book.pdf

Conference

Pulsars with more exactly measured masses as possible candidates of strange stars
VARTANYAN Yuri, GRIGORYAN Alexander, SHAHINYAN Hasmik

2015 14

https://indico.cern.ch/event/360350/page/5481-proceedings

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

2015 1-15

http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=262
