

Grigor Bakhshi Alaverdyan

Institute of Physics

Chair of Applied Electrodynamics and Modeling

Associate professor

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Education

Institution	Yerevan State University, Joint Institute for Nuclear Research in Dubna
Faculty	Chair of Theretical Physics
Date	1974 - 1977
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Physics
Date	1966 - 1971
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	1982
Degree name	Associate professor
Specialty	Physico-mathematical sciences

Institution	Yerevan State University
Date	1980
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	Tarasov Alexander Vasilevich
Research Topic	Multiple collision effects of leading particles in the hadron-nucleus interactions

Language skills

Հայերեն Русский English

Work experience

Institution	Yerevan State University, Chair of applied Electrodynamics and Modeling
Period of time	2018 till now
Rank/degree	Associate Professor

Institution Yerevan State University, Chair of Wave Processes theory and Physics
Period of time 2012 - 2018
Rank/degree Head of Chair

Institution Yerevan State University, Chair of Wave Processes theory and Physics
Period of time 1982 - 2012
Rank/degree Associate Professor

Institution Yerevan State University, Department of implementation of scientific and technical works
Period of time 1980 - 1982
Rank/degree Group Leader

Institution Yerevan State University, Department of Scientific Research
Period of time 1977 - 1980
Rank/degree Senior Engineer

Institution Yerevan State University, Chair of Theoretical Physics
Period of time 1974 - 1976
Rank/degree PHD Student

Institution Yerevan State University, Chair of Theoretical Physics
Period of time 1971 - 1973
Rank/degree Assistant Professor

Scientific interests

- Nuclear physics
 - Physics of elementary particles
 - Theoretical astrophysics
 - Physics of compact stars with quark structure
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Publications

Article

Changes in the Parameters of a Compact Star Due to the Quark Deconfinement Phase Transition: Comparative Analysis of Maxwell and Gibbs Scenarios.

G.B.Alaverdyan

Current Perspective to Physical Science Research 2024 71-82

Article

Isospin-Asymmetric Cold Nuclear Matter in the Relativistic Mean-Field Theory with a Scalar-Isovector Interaction Channel

Alaverdyan G.B, Alaverdyan A.G.

Article

EFFECT OF NEUTRINO OSCILLATIONS ON THE THERMODYNAMIC PROPERTIES OF HOT QUARK MATTER

G. B. Alaverdyan, G. S. Hajyan, A.G. Alaverdyan

Astrophysics 2023 127-139

Article

Properties of Hot Quark Matter with Neutrino Confinement in the NJL Model

G.B. Alaverdyan, G.S. Hajyan

Astrophysics 2022 126-136

Article

QUARK MATTER IN THE NJL MODEL WITH A VECTOR INTERACTION AND THE STRUCTURE OF HYBRID STARS

G.B. Alaverdyan

Astrophysics 2022 378-395

Manual

Մեխանիկա 1. Կինեմատիկա

Գրիգոր Ալավերդյան

2022 104

Article

Hadron-Quark Phase Transition in the SU (3) Local Nambu-Jona-Lasinio (NJL) Model with Vector Interaction

Grigor Alaverdyan

Symmetry 2021 124(1-16)

Article

Hot Quark Matter with Neutrino Confinement in Terms of the Local Nambu - Jona-Lasinio SU(3) Model

G.B.Alaverdyan, G.S.Hajyan

Astrophysics 2021 370-387

Article

Гибридные звезды в рамках локальной модели Намбу-Иона-Лазинио для кварковой материи

Г.Б.Алавердян, Ю.Л.Вартанян

Астрофизика (Astrophysics) 2018 557-572

Article

Максимальная масса гибридных звезд в модели кваркового мешка

Алавердян Г.Б., Вартанян Ю.Л.

Астрофизика (Astrophysics) 2017 617-626

Article

Աղբյուրի գերձայնային շարժման ժամանակ ձայնային ազդանշանի ժամանակային շրջման երևույթի մասին

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

Scalar-isovector channel of the nucleon-nucleon interaction in the RMF theory and massive compact stars

ALAVERDYAN, Grigor

Conference

Compact stars with quark core

ALAVERDYAN Grigor, VARTANYAN Yury, HARUTYUNYAN Anahit

Conference

Impact of the MIT bag model parameters values on the maximum mass of neutron star with a quark core

Grigor Alaverdyan, Yuri Vartanyan

Conference

Hybrid Star Properties within the Nambu - Jona-Lasinio (NJL) Model for Quark Matter and Relativistic Mean Field (RMF) Model for Hadronic Matter

Grigor Alaverdyan

Conference

Structure of hybrid stars within the local NJL model for quark matter and RMF model for hadronic matter

G.B. Alaverdyan, Yu.L. Vartanyan

Conference

Hot Quark Matter at Neutrino Confinement in the Framework of the local SU(3) Nambu - Jona-Lasinio Model

Grigor Alaverdyan, Gevorg Hajyan

Conference

Quark Matter in The NJL Model with Vector Interaction and The Structure of Compact Stars

G.B. Alaverdyan

Conference

Hot β -equilibrium hadronic matter in the neutrino-trapped regime within the framework of relativistic mean-field theory

Grigor Alaverdyan

Conference

Neutrino oscillations effects on the thermodynamic properties of hot electrically neutral

quark matter in beta-equilibrium

Grigor Alaverdyan, Gevorg Hajyan

Conference

Thermodynamic Properties of Hot Q Equilibrium Hadronic and Quark Matter in the Neutrino-Trapped Regime

Grigor Alaverdyan

Conference

Numerical Modeling of Thermodynamic Parameters for Hot Neutron Star Matter in Neutrino-Trapped Regime

Grigor Alaverdyan, Gevorg Hajyan, Ani Alaverdyan
