

Mekhak Vazgen Hayrapetyan

Institute of Physics

Chair of Theoretical and Mathematical Physics

Associate professor

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Education

Institution	Yerevan State University
Faculty	Faculty of Physics, Chair of General Physics
Date	1988 - 1993
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	2004
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	David Sedrakian
Research Topic	Pulsars' angular velocity glitches and their relaxation

Language skills

Հայերեն Русский English

Work experience

Institution	Yerevan State University
Period of time	2011 till now
Rank/degree	docent

Institution	Yerevan State University
Period of time	2001 till now
Rank/degree	senior researcher

Scientific interests

- Physics of compact stars and gravitational radiation, superfluidity and superconductivity

Article

Electrical conductivity of a warm neutron star crust in magnetic fields: Neutron-drip regime

Arus Harutyunyan, Armen Sedrakian, Narine T. Gevorgyan, Mekhak V. Hayrapetyan

Physical Review C 2024 055804

Article

Stationary States of an Electron in a Prolate Spheroidal Quantum Dot [Стационарные состояния электрона в вытянутой сфероидальной квантовой точке]

M. V. Hayrapetyan, A. Zh. Muradyan

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

144 - 148

Manual

Լաբորատոր պարապմունքների ուղեցույց: Մոլեկուլային ֆիզիկա

Ա. Ժ. Մուրադյան, Դ. Հ. Բադալյան, Ռ. Յ. Գաբրիելյան, Մ. Վ. Հայրապետյան, Լ. Ա. Հովհաննիսյան

2019 60

Article

Генерация магнитного поля в гибридных звездах

М.В.Айрапетян, Д.М.Седракян, Д.Багдасарян

Астрофизика (Astrophysics) 2018 131-140

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

Article

Магнитное поле нейтронной звезды с кварковым ядром

М.В.Айрапетян, Д.М.Седракян

Астрофизика (Astrophysics) 2018 573-584

Manual

Լաբորատոր պարապմունքների ուղեցույց: Մեխանիկա

Մ.Հայրապետյան, Մ.Աբրահամյան, Ռ.Գաբրիելյան, Գ.Մուրադյան, Մ.Հարությունյան, Հ.Ենոքյան

2018 150

Article

О гравитационном излучении компактных звезд

М.В.Айрапетян, Д.С.Багдасарян

Astrophysics 2016 93-102

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

Article

. Magnetic field of strange stars with rotating superfluid core

D.M.Sedrakian, M.V.Hayrapetyan, D.S.Baghdasaryan

Proceedings of Science 2016 017

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

Article

MAGNETIC FIELD OF STRANGE STARS

D.M.Sedrakian, M.V.Hayrapetyan, D.S.Baghdasaryan

Article

GENERATION AND DISTRIBUTION OF A MAGNETIC FIELD IN SUPERCONDUCTING STRANGE STARS

D.M.Sedrakian, M.V.Hayrapetyan, D.S.Baghdasaryan

Astrophysics 2015 536-549

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

Article

STRANGE QUARK STARS WITH A ROTATING SUPERFLUID CORE

D.M.Sedrakian, M.V.Hayrapetyan, D.S.Baghdasaryan

Astrophysics 2015 216-232

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

Article

MECHANISM FOR RADIO EMISSION OF PULSARS

D.M.Sedrakian, M.V.Hayrapetyan

Astrophysics 2015 131-156

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

Article

ABSORPTION OF MAGNETOSONIC WAVES IN THE CRUST OF NEUTRON STARS. RADIO EMISSION FROM PULSARS

D. M. Sedrakian, A. S. Harutyunyan, M. V. Hayrapetyan

Астрофизика (Astrophysics) 2014 530-549

Article

MAGNETOHYDRODYNAMIC EQUATIONS FOR THE CRUST OF NEUTRON STARS

D. M. Sedrakian, A. S. Harutyunyan, M. V. Hayrapetyan

Астрофизика (Astrophysics) 2013 76-87

Article

Magnetosonic waves in the crust of a neutron star

D. M. Sedrakian, A. S. Harutyunyan, M. V. Hayrapetyan

Астрофизика (Astrophysics) 2013 229-245

Conference

Magnetic field of strange stars with rotating superfluid core

D.M.Sedrakian, M.V.Hayrapetyan, D.S.Baghdasaryan

Conference

Magnetosonic waves in the crust of a neutron star

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