

Mekhak Vazgen Hayrapetyan

✉ mhayrapetyan@ysu.am

Institute of Physics

Chair of General Physics and Astrophysics named after Academician Victor Hambardzumyan
Associate professor

Education

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

Scientific Rank/degree

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|------------------------------|---|
| 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

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

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| 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/POSwat.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

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