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Институт физики
Кафедра теоретической и математической физики
Преподаватель по часовой оплате

Образование

Учреждение	Ереванский государственный университет
Факультет	Faculty of physics
Дата	2008 - 2014
Степень / Звание	Магистр

Ученое звание/Ученая степень

Дата	2018
Степень / Звание	PhD
Научный руководитель	Armen Sedrakyan
Научная тема	Relativistic hydrodynamics and transport in strongly correlated systems

Опыт работы

Учреждение	Byuarakan Astrophysical Observatory
Период времени	2018 до настоящего времени
Звание/степень	Senior researcher

Публикации

Статья

Generalized relativistic second-order dissipative hydrodynamics: coupling different rank tensors
Arus Harutyunyan, Armen Sedrakian

Annals of Physics 2025 170159

Статья

Bulk Viscosity of Two-Flavor Color Superconducting Quark Matter in Neutron Star Mergers
Mark Alford, Arus Harutyunyan, Armen Sedrakian, Stefanos Tsiopelas

Frontiers in Astronomy and Space Sciences 2025 1648066

Статья

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

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Bulk viscosity of two-color superconducting quark matter in neutron star mergers
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Physical Review D 2024 L061303

Статья

Thermal Conductivity and Thermal Hall Effect in Dense Electron-Ion Plasma
Arus Harutyunyan, Armen Sedrakian

Particles 2024 967-983

Статья

Phenomenological Relativistic Second-Order Hydrodynamics for Multiflavor Fluids
Arus Harutyunyan, Armen Sedrakian

Symmetry 2023 494

Статья

Bulk viscosity from Urca processes: npeμ matter in the neutrino-transparent regime
Mark Alford, Arus Harutyunyan, Armen Sedrakian

Physical Review D 2023 083019

Статья

Relativistic second-order dissipative hydrodynamics from Zubarev’s non-equilibrium statistical operator
Arus Harutyunyan a, Armen Sedrakian, Dirk H. Rischke

Annals of Physics 2022 168755

Статья

Delta-resonances and hyperons in proto-neutron stars and merger remnants
Armen Sedrakian, Arus Harutyunyan

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Статья

Bulk Viscosity of Relativistic npeμ Matter in Neutron-Star Mergers
Mark Alford, Arus Harutyunyan, Armen Sedrakian

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Equation of State and Composition of Proto-Neutron Stars and Merger Remnants with Hyperons
Armen Sedrakian, Arus Harutyunyan

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Bulk viscosity from Urca processes: npeμ matter in the neutrino-trapped regime
Mark Alford, Arus Harutyunyan, Armen Sedrakian

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Bulk Viscous Damping of Density Oscillations in Neutron Star Mergers
Mark Alford, Arus Harutyunyan, Armen Sedrakian

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Статья

Bulk viscosity of baryonic matter with trapped neutrinos
Mark Alford, Arus Harutyunyan, Armen Sedrakian

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Статья

Relativistic Dissipative Fluid Dynamics from Non-Equilibrium Statistical Operator
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Particles 2018 155-165

Статья

Bulk Viscosity of Hot Quark Plasma from Non-Equilibrium Statistical Operator
Arus Harutyunyan, Armen Sedrakian

Particles 2018 212-229

Статья

Electrical resistivity and Hall effect in binary neutron star mergers
Arus Harutyunyan, Antonios Nathanail, Luciano Rezzolla, Armen Sedrakian

The European Physical Journal A 2018 191

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On the importance of resistivity and Hall effect in MHD simulations of binary neutron star mergers

A. S. Harutyunyan

Communications of the Byurakan Astrophysical Observatory 2018 338-345

Статья

Transport coefficients of two-flavor quark matter from the Kubo formalism
Arus Harutyunyan, Dirk H. Rischke, Armen Sedrakian

Physical Review D 2017 114021

Статья

Bulk viscosity of two-flavor quark matter from the Kubo formalism
Arus Harutyunyan, Armen Sedrakian

Physical Review D 2017 034006

Статья

Electrical conductivity of a warm neutron star crust in magnetic fields
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Physical review. C 2016 025805-1-18

Конференция

Electrical conductivity tensor of dense plasma in magnetic fields
Arus Harutyunyan, Armen Sedrakian

2015 138096

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ABSORPTION OF MAGNETOSONIC WAVES IN THE CRUST OF NEUTRON STARS. RADIO EMISSION FROM PULSARS
D. M. Sedrakian, A. S. Harutyunyan, M. V. Hayrapetyan

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MAGNETOHYDRODYNAMIC EQUATIONS FOR THE CRUST OF NEUTRON STARS
D. M. Sedrakian, A. S. Harutyunyan, M. V. Hayrapetyan

Astrophysics 2013 76-87

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Magnetosonic waves in the crust of a neutron star
D. M. Sedrakian, A. S. Harutyunyan, M. V. Hayrapetyan

Astrophysics 2013 229-245

Конференция

Magnetosonic waves in the crust of a neutron star
D. M. Sedrakian, A. S. Harutyunyan, M. V. Hayrapetyan

2013 012017

https://indico.cern.ch/event/215145/
