

Մաթեմատիկական և կիրառական հետազոտությունների կենտրոն

Կոսմոլոգիայի լաբորատորիա

Լաբորատորիայի վարիչ

📖 Հրատարակումներ

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Cosmic voids and the kinetic analysis V. Hubble tension, the cosmological constant, and aperiodic filaments

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Astronomy and Astrophysics 2026 A70

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Cosmic voids and the kinetic analysis: IV. Hubble tension and the cosmological constant

Gurzadyan V.G., Fimin N. N., Chechetkin V. M.

Astronomy and Astrophysics 2025 A252

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Messier 90 galactic halo rotation in the microwaves

V.G.Gurzadyan, De Paolis F., G.Yegoryan, A.Kashin, Qadir A., Tahir N., Jetzer Ph.

Astronomy and Astrophysics 2025 L2

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Kolmogorov analysis of JWST deep survey galaxies

V.G.Gurzadyan, A.A.Kocharyan, N.Galikyan

Astronomy and Astrophysics 2025 L21

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On the Earth's tidal perturbations.II. LARES 2 satellite

V.G.Gurzadyan, H.G.Khachatryan, S.Mirzoyan, A.Paolozzi, I. Ciufolini

European Physical Journal Plus 2025 512

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Vishap stela as cult dedicated prehistoric monuments of Armenian Highlands: data analysis and interpretation

Vahe Gurzadyan, Arsen Bobokhyan

npj Heritage Science 2025 1-12

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Probing lambda-gravity with Bose-Einstein condensates

V. Gurzadyan, I. Fuentes, A. Belyaev, H. A. Fernandez-Melendez

Physical Review Research 2025 L042051

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Focus point on tensions in cosmology from early to late universe: part II: new directions in the light of observations from the most modern astronomical facilities

V.G.Gurzadyan, E. Di Valentino, S.Capozziello

European Physical Journal Plus 2025 1011

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Neural network analysis of S2-star dynamics: extended mass

V.G.Gurzadyan, N. Galikyan, Sh. Khlghatyan, A. A. Kocharyan

European Physical Journal Plus 2024 246

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S2-star dynamics probing the galaxy core cluster

Gurzadyan V.G., Kocharyan A.A., Khlghatyan Sh., Galikyan N.

European Physical Journal Plus 2024 821

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Smearing of primordial gravitational waves

V.G.Gurzadyan, A.A.Kocharyan, M.Samsonyan

European Physical Journal Plus 2024 317

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On the high accuracy to test dragging of inertial frames with the LARES 2 space experiment

Vahe Gurzadyan, Ciufolini Ignazio, Paris Claudio, Pavlis Erricos C., Ries John C., Matzner Richard,

Deka Darpanjeet, Ortore Emiliano, Kuzmicz-Cieslak Magdalena, Penrose Roger, Paolozzi Antonio,

Goncalves Juan Pablo Sellanes

European Physical Journal C 2024 998

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The LARES 2 satellite, general relativity and fundamental physics

Vahe Gurzadyan, Ignazio Ciufolini, Antonio Paolozzi, Erricos C. Pavlis, John C. Ries, Richard Matzner,

Claudio Paris, Emiliano Ortore, Roger Penrose

European Physical Journal C 2023 87

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Focus point on tensions in cosmology from early to late universe: the value of the Hubble constant and the question of dark energy

V.G.Gurzadyan, S.Capozziello

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Cosmic voids and the kinetic analysis. II. Link to Hubble tension

V.G.Gurzadyan, N.N.Fimin, V. M. Chechetkin

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Cosmic voids and the kinetic analysis III. Hubble tension and structure formation in the late Universe

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Neural network analysis of S-star dynamics: implications for modified gravity

V. G. Gurzadyan, A. A. Kocharyan, N. Galikyan, Sh. Khlghatyan

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First results of the LARES 2 space experiment to test the general theory of relativity

Vahe Gurzadyan, Ignazio Ciufolini, Claudio Paris, Erricos C. Pavlis, John Ries, Richard Matzner, Antonio Paolozzi, Emiliano Ortore, Giuseppe Bianco, Magdalena Kuzmicz-Cieslak, Roger Penrose

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On the origin of cosmic web

Gurzadyan V.G., Chechetkin, Fimin

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The cosmological constant vs adiabatic invariance

V. G. Gurzadyan, A. A. Kocharyan, A. Stepanian, Sh. Khlghatyan

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Tidal disruption effects near black holes and Lambda-gravity

A.Stepanian, V.Gurzadyan, Sh.Khlghatyan

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Gravitational waves as waveguides

V. G. Gurzadyan, M. Samsonyan, A. A. Kocharyan

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Cosmic voids and the kinetic analysis

V.G.Gurzadyan, V.M.Chechetkin, N.Fimin

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Hubble tension and absolute constraints on the local Hubble parameter

V.G.Gurzadyan, A.Stepanian

Astronomy and Astrophysics 2021 A145

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Cosmic voids and induced hyperbolicity. III. Tracing redshift dependence

V.G.Gurzadyan, A.Kocharyan, M.Samsonyan, A.Stepanian

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Cosmological constant, information and gedanken experiments with black hole horizons

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Cosmic voids and induced hyperbolicity. II. Sensitivity to void/wall scales

V.G.Gurzadyan, M.Samsonyan, A.Kocharyan, A.Stepanian

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Focus point on modified gravity theories and cosmology

V.G.Gurzadyan, Capozziello

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Ultrahigh accuracy time synchronization technique operation on the Moon

V.G.Gurzadyan, A.Margarian

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Hubble tension vs two flows

V.G.Gurzadyan, A.Stepanian

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Black hole shadow to probe modified gravity

V.G.Gurzadyan, A.Stepanian, Sh.Khghatyan

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Cosmic voids and induced hyperbolicity

V.G.Gurzadyan, M. Samsonyan, A. A. Kocharyan, A. Stepanian

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Lense-Thirring precession and gravito-gyromagnetic ratio

V.G.Gurzadyan, A. Stepanian, Sh. Khlghatyan

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On the Lambda-evolution of galaxy clusters

V.G.Gurzadyan, A. A. Kocharyan, A. Stepanian

European Physical Journal C 2020 24

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Focus Point on Tests of General Relativity and Alternative Gravity Theories

V. Gurzadyan, I. Ciufolini, S. Capozziello

European Physical Journal Plus 2019 251

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An improved test of the general relativistic effect of frame-dragging using the LARES and LAGEOS satellites

V.G.Gurzadyan, Roger Penrose, Claudio Paris, Rolf Koenig, Richard Matzner, John Ries,

Giampiero Sindoni, Erricos C. Pavlis, Antonio Paolozzi, Ignazio Ciufolini
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Satellite Laser-Ranging as a Probe of Fundamental Physics

Vahe Gurzadyan, Rolf Koenig, John Ries, Giampiero Sindoni, Erricos C. Pavlis, Antonio Paolozzi, Ignazio Ciufolini, Richard Matzner
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Machine learning and Kolmogorov analysis to reveal gravitational lenses

V.G.Gurzadyan, S. S. Mirzoyan, H. Khachatryan, G. Yegorian
Monthly Notices of the Royal Astronomical Society 2019 L32

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H_0 tension: clue to common nature of dark sector?

V.G.Gurzadyan, A. Stepanian
European Physical Journal C 2019 568

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The cosmological constant derived via galaxy groups and clusters

V.G.Gurzadyan, A. Stepanian
European Physical Journal C 2019 169

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Cosmological constant as a fundamental constant

V.G.Gurzadyan, A. Stepanian
European Physical Journal Plus 2019 98

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On the common nature of dark matter and dark energy: Galaxy groups

V.G.Gurzadyan
European Physical Journal Plus 2019 14

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Rotating baryonic dark halos

V.G.Gurzadyan, Ph. Jetzer, G. Ingrosso, N. Tahir, S. Sargsyan, A. Amekhyan, A. Kashin, A. Qadir, A. A. Nucita, A. V. Gurzadyan, F. De Paolis
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Messier 81's Planck view versus its halo mapping

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