

Մաթեմատիկական և կիրառական հետազոտությունների կենտրոն
Կոսմոլոգիայի լաբորատորիա
Լաբորատորիայի վարիչ

📖 Հրատարակումներ

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Neural network analysis of S2-star dynamics: extended mass

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

European Physical Journal Plus 2024 246

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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

European Physical Journal Plus 2023 184

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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

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

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

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

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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. Khlgatyan

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Tidal disruption effects near black holes and Lambda-gravity

A.Stepanian, V.Gurzadyan, Sh.Khlgatyan

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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

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Hubble tension and absolute constraints on the local Hubble parameter

V.G.Gurzadyan, A.Stepanian

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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

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Focus point on modified gravity theories and cosmology

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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

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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

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Lense-Thirring precession and gravito-gyromagnetic ratio

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

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On the Lambda-evolution of galaxy clusters

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

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Focus Point on Tests of General Relativity and Alternative Gravity Theories

V. Gurzadyan, I. Ciufolini, S. Capozziello

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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

Scientific Reports 2019 15881

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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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H₀ tension: clue to common nature of dark sector?

V.G.Gurzadyan, A. Stepanian

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The cosmological constant derived via galaxy groups and clusters

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Cosmological constant as a fundamental constant

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

V.G.Gurzadyan

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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

Astronomy and Astrophysics 2019 A87
