

Մաթեմատիկական և կիրառական հետազոտությունների կենտրոն
Կոսմոլոգիայի լաբորատորիա
Լաբորատորիայի վարիչ

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Neural network analysis of S2-star dynamics: extended mass
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The LARES 2 satellite, general relativity and fundamental physics
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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
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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
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First results of the LARES 2 space experiment to test the general theory of relativity
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On the origin of cosmic web

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The cosmological constant vs adiabatic invariance

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Tidal disruption effects near black holes and Lambda-gravity

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Gravitational waves as waveguides

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Hubble tension and absolute constraints on the local Hubble parameter

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Cosmic voids and induced hyperbolicity. III. Tracing redshift dependence

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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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Black hole shadow to probe modified gravity

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Lense-Thirring precession and gravito-gyromagnetic ratio

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On the Lambda-evolution of galaxy clusters

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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

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Machine learning and Kolmogorov analysis to reveal gravitational lenses

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H₀ tension: clue to common nature of dark sector?
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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

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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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