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Researcher

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🌐 Language skills

Հայերեն Русский English

🔬 Scientific interests

- Biophysics, Physics of Complex Systems, Statistical Physics, Quantum Thermodynamics

📖 Publications

Article

Negative thermodynamic pressure: No-go theorem and yes-go examples

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Physical Review E 2025 L042105

Article

Energy densities in quantum mechanics

V. Stepanyan, A. E. Allahverdyan

Quantum 2024 1223

Article

Thermal transitions in a one-dimensional, finite-size Ising model

Varazdat Stepanyan, Armen E Allahverdyan, Andreas F Tzortzakakis, David Petrosyan

Journal of Statistical Mechanics: Theory and Experiment 2024 033202

Article

Sequence disorder-induced first order phase transition in confined polyelectrolytes

Y.Sh. Mamasakhlisov, V.F. Morozov, V. Stepanyan, A. Badasyan, R. Podgornik

Journal of Chemical Physics 2024 134906

Article

No Bose-Einstein Condensation in Closed Systems with Linear Dynamics

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Armenian Journal of Physics 2024 65-70

Article

Photon cooling: Linear versus nonlinear interactions

V. Stepanyan, A. Hovhannisyan, A.E. Allahverdyan

Physical Review A 2022 032214

Article

Helix-Coil Transition in Heterogeneous Biopolymers: Influence of Fixing Bond Scale

A. V. Asatryan, H. H. Mikayelyan, V. A. Stepanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 308-312

Article

Thermodynamics of Physical Approximations to Non Deterministic Polynomial Complete Problems

V. A. Stepanyan, S. G. Khachatryan, S. A. Hovhannisyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 36-40

Article

The Rouse Model of Viscoelasticity and Diffusion Behavior of Chromatin

Stepanyan V. A., Hayrapetyan A. A., Mamasakhlisov E.S

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 254-258
