

# Varazdat Artem Stepanyan

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Laboratory of Physics of Macromolecules

Researcher

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## 🌐 Language skills

Հայերեն Русский English

## 🔬 Scientific interests

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

## 📖 Publications

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

### 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

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