

## Nonlinear Physics Of Dna

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### Nonlinear Physics Of Dna

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Author Bios. Ludmila V. Yakushevich is a Doctor of Science and leading research worker of the Laboratory of Physical and Chemical Mechanisms of Gene Expression, which is part of the Institute of Cell Biophysics of the Russian Academy of Sciences. The main research field is the dynamics of biopolymers, especially the nonlinear dynamics of DNA. The principal methods of investigations include theoretical physics and mathematical modeling.

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### Nonlinear Physics of DNA - NASA/ADS

Nonlinear dynamics and statistical physics of DNA. Michel Peyrard. Laboratoire de Physique, Ecole Normale Sup'erieure de Lyon, 46 all'ee d'Italie, 69364 Lyon Cedex 07, France. (Dated: January 16, 2004) DNA is not only an essential object of study for biologists. It raises very interesting questions for physicists.

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Linear Theory of DNA. Ludmila V. Yakushevich. Russian Academy of Sciences, Moscow, Russia. Search for more papers by this author. Book Author(s): Ludmila V. Yakushevich. Russian Academy of Sciences, Moscow, Russia. Search for more papers by this author. First published: 11 May 2004.

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John Marko and Simona Cocco describe experiments in which physicists measure the mechanical properties of single molecules of DNA in The micromechanics of DNA (p37, print version). Nonlinear dynamics of complex processes is an active research field with large numbers of publications in basic research, and broad applications from diverse fields of science.

### [Book] Nonlinear physics of DNA by L. V. IHYakushevich ...

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### Soliton - Wikipedia

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