

# 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.

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Nonlinear dynamics and statistical physics of DNA. Michel Peyrard. Laboratoire de Physique, Ecole Normale Supérieure de Lyon, 46 allée 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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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.

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nonlinear dynamics of DNA, which is available in the book Nonlinear Physics of DNA [3]. Instead it focuses on a few nonlinear dynamical models for which not only nonlinear dynamics but also statistical mechanics has been investigated, and it tries to motivate the models and

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### **Soliton - Wikipedia**

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