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Finally, nonintegrability theory is linked

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to dynamical systems theory by showing how the property of complete integrability, partial integrability or nonintegrability can be related to regular and irregular dynamics in phase space.

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dynamical systems, either from a theoretical or practical point of view. Due to the close relationship between chaos in deterministic systems and nonintegrability, a simultaneous interest in the questions of integrability and nonintegrability has taken place, so that numerous systems with a relevant

Integrability of Hamiltonians with polynomial potentials

Although complete integrability is a non-generic property of general dynamical systems, many systems appearing in physics are completely integrable, in the Hamiltonian sense, the key example being multi-dimensional harmonic

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oscillators. Another standard example is planetary motion about either one fixed center (e.g., the sun) or two. Other elementary examples include the motion of a rigid body ...

Integrable system - Wikipedia

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Nonintegrability of differential equations is one of the most important topics in dynamical systems , , . It is believed that complicated dynamical behavior such as chaos may occur in general if differential equations are nonintegrable [10] , although there are several notions of integrability.

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Nonintegrability of dynamical systems with homo- and ...

Abstract. In this paper we discuss the concepts of quantum integrability and nonintegrability. Based on the concept of a complete set of commuting observables and the Hilbert-space structure of a quantum system, the definitions are given for the quantum-dynamical degrees of freedom and quantum phase space from which the quantum integrability is defined.

Integrability and nonintegrability of quantum systems ...

Integrability, partial integrability, and nonintegrability for systems of ordinary differential equations Journal of Mathematical Physics 37, 1871 (1996 ...
Some exact results on singularity structure and integrability of dynamical systems," Acta Apl. Math. 8, 75 ...

Integrability, partial integrability, and nonintegrability ...

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Based on the concepts of integrability and nonintegrability of a quantum system presented in a previous paper [Zhang, Feng, Yuan, and Wang, Phys. Rev. A 40, 438 (1989)], a realization of the dynamics in the quantum phase space is now presented. For a quantum system with dynamical group $scrG$ and in one of its unitary irreducible-representation carrier spaces $gerh\langle SUB\rangle\wedge\langle /SUB\rangle$, the quantum phase ...

Integrability and nonintegrability of quantum systems. II ...

Complete integrability . Liouville integrability. Arnold-Liouville integrability. Algebraic integrability. Ziglin's theory of nonintegrability . Hamiltonian systems with two degrees of freedom . Homogeneous potentials. Ziglin's theorem in n dimensions. More on Ziglin's theory. The Morales-Ruiz and Ramis theorem. Exercises

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The purpose of this paper is to investigate the connection between

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singular property and integrability for general dynamical systems. We will firstly present some methods to test the Painlevé property and weak-Painlevé property, then we will show the equivalence between the weak-Painlevé property and certain formal integrability for general dynamical systems.

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