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Chaos and Quantum Chaos - Proceedings of the Eighth Chris ...

Quantum chaos is a branch of physics which studies how chaotic classical dynamical systems can be described in terms of quantum theory. The primary question that quantum chaos seeks to answer is: ... Mathematical Proceedings of the Cambridge Philosophical Society, 47 (4): 790.

Quantum chaos - Wikipedia

Chaos and quantum chaos: proceedings of the Eighth Chris Engelbrecht Summer School on Theoretical Physics, held at Blydepoort, eastern Transvaal, South Africa, 13-24 January 1992. [W D Heiss:] -- Until now the important concept of quantum chaos has remained somewhat ill defined.

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Stochasticity and Quantum Chaos - Proceedings of the 3rd ...

The major paradigms of what is called quantum chaos, random matrix theory and applications to condensed matter and nuclear physics are presented. Detailed discussions of experimental work with particular emphasis on atomic physics are included.

Chaos and Quantum Chaos | Springer for Research & Development

The study of quantum systems which are chaotic in the classical limit (quantum chaos or quantum chaology) is a very new field of research. Not long ago, it was still considered as an esoteric subject, however this attitude changed radically when it was realized that this subject is relevant to many of the more mature branches of physics.

Quantum Chaos | ScienceDirect

We study the quantum mechanics of a Hamiltonian system which is classically chaotic: the stadium billiard. We have extended the pioneering investigations of McDonald and Kaufman, obtaining a much more detailed look at the eigenfunctions and finding eigenstates of the stadium up to about the 10,000th.

The quest for quantum chaos in the stadium - ScienceDirect

Primes, Quantum Chaos, and Computers A. M. Odlyzko AT&T Bell Laboratories Murray Hill, New Jersey 07974 1. Introduction The primes, which are the fundamental building blocks of the multiplicative structure of the integers, have fascinated mathematicians at least since the time of the ancient Greeks. Euclid

Primes, Quantum Chaos, and Computers

Proceedings, 22nd International Conference, INPC 2004, Goeteborg, Sweden, June 27-July 2, 2004. Published in: Nucl.Phys.A 751 (2005 ... this framework the merging of two at first sight seemingly disconnected fields, namely random matrix theories (RMT) and quantum chaos (QC), is briefly described. Periodic orbit theory (POT) plays a prominent ...

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Critical quantum chaos sets up at the critical value in between. Below the critical point is finite, at the critical point and above the spacing distribution starts linearly for, a characteristic feature of chaotic systems with strongly overlapping eigenfunctions.

Quantum Biology on the Edge of Quantum Chaos

Quantum Mechanics and Chaos Proceedings of the International Conference (Ed. by K. Nakamura, T. Harayama and K. Takatsuka) No. 165 (2006) Physics of Non-Equilibrium Systems: Self-Organized Structures and Dynamics Far from Equilibrium Proceedings of the 20th Nishinomiya-Yukawa Memorial Symposium (Ed. by T. Ohta and M. Murase) No. 164 (2006)

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- Quantum optics and cold atoms for quantum information. - Quantum computing with solid-state devices. - Theory and experiments for superconducting qubits. - Interactions in many-body systems: quantum chaos, disorder and random matrices. - Decoherence effects for quantum computing. - Future prospects of quantum information processing.

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Quantum biology is usually considered to be a new discipline, arising from recent research that suggests that biological phenomena such as photosynthesis, enzyme catalysis, avian navigation or olfaction may not only operate within the bounds of classical physics but also make use of a number of the non-trivial features of quantum mechanics, such as coherence, tunnelling and, perhaps, entanglement.

The origins of quantum biology | Proceedings of the Royal ...

Uleysky, M. Yu., and Prants, S. V. "Quantum Chaos and Quantum Fractals With Atoms and Photons in a Microcavity." Proceedings of the ASME 2005 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference. Volume 1: 20th Biennial Conference on Mechanical Vibration and Noise, Parts A, B, and C ...

Quantum Chaos and Quantum Fractals With Atoms and Photons ...

Proceedings of Waseda International Symposium on Fundamental Physics —New Perspectives in Quantum Physics— ... QUANTUM CHAOS. Quantum Chaos in Mixed Type Hamiltonian Systems. Marko Robnik. 81, 10.1143/JPSJS.72SC.81. Abstract; PDF (210 K) References;

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