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# Chaos Classical Quantum Mechanics Interdisciplinary

**introduction to quantum chaos - fau** - introduction to quantum chaos classical chaos: not a theory in the fundamental sense, a unifying collection of concepts, in fact a dominant theme of classical mechanics that **quantum chaos, classical randomness, and bohmian mechanics** - quantum chaos, classical randomness, and bohmian mechanics detlef durr\*,†, sheldon goldstein‡, and nino zanghì\*\* ,† †† department of mathematics **chaos in classical d0-brane mechanics** - 1 introduction and summary of results this paper is devoted to a study of classical chaos in the classical limit of the matrix quantum mechanical system describing d0-brane dynamics. **introduction to quantum chaos - lptms** - introduction to quantum chaos denis ullmo1 and steven tomsovic2 1lptms, univ paris-sud, cnrs umr 8626, 91405 orsay cedex, france 2department of physics and astronomy, washington state university, **chaos, quantum mechanics, and computers - yale university** - chaos, quantum mechanics, and computers today many many systems can be simulated on a computer. the hardest ones to deal with are the ones with either chaos or quantum **quantum chaos - boston university physics** - r (regular) p (poincare) 1=-----1 quantum chaos q (quantum) chaotic systems quantum systems mechanics is traditionally (and artificially) divided into the three compartments **relevance of classical chaos in quantum mechanics: the ...** - g. cosati et al., relevance of classical chaos in quantum mechanics 79 abstract: we present analytical and numerical results on the mechanism of excitation and ionization of hydrogen atoms under microwave fields. **chaos, quantum mechanics, and computers** - chaos, quantum mechanics, and computers today many many systems can be simulated on a computer. the hardest ones to deal with are the ones with either chaos or **chaos and momentum diffusion of the classical and quantum ...** - the de broglie-bohm (bb) approach to quantum mechanics gives trajectories similar to classical trajectories except that they are also determined by a quantum potential. the quantum potential is a "fictitious potential" in the sense that it is part of the quantum kinetic energy. we use quantum trajectories to treat quantum chaos in a manner similar to classical chaos. for the kicked rotor ... **chaos and the semiclassical limit of quantum mechanics (is ...** - 2 1. introduction the question of how chaos in classical mechanics gets reflected in the quantum mechanics of the microworld is slippery and subtle [1-3]. **classical and quantum chaos in molecular rotational ...** - mechanics, where j is the rotational quantum number. the classical driven rotor (1) has been studied by several authors, both theoretically [24] and experimentally [25], **quantum chaos - theo-phys.uni-essen** - question that lies at the core of the quantum chaos theory: what would classical chaos, which lurks everywhere in our world, do to quantum mechanics, the theory describing the atomic and subatomic worlds? **preface the legacy of chaos in quantum mechanics classical ...** - preface acknowledgments introduction the legacy of chaos in quantum mechanics classical chaos and quantum localization stochastic behaviour of a quantum pendulum ...

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