

Macroscopic Quantum Tunneling

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Mon, 08 May 2017 18:43:00 GMT

macroscopic quantum phenomena refer to processes showing quantum behavior at the macroscopic scale, rather than at the atomic scale where quantum effects are prevalent.

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1 introduction we begin by surveying what macroscopic quantum phenomena are, and what is the significance of searching for such phenomena, thereby locating macroscopic

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abstract. in this work, a mechanism of macroscopic quantum tunneling is studied, which shows this sort of phenomena may exist even in the bio-field system.

MACROSCOPIC QUANTUM TUNNELING IN MOLECULAR MAGNETS

Fri, 28 Apr 2017 06:09:00 GMT

our present understanding of the phenomenon of quantum tunneling of magnetization (qtm), is reviewed in the light of the experiments performed on the molecular

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macroscopic quantum phenomena are particularly important when considering the problem of schrödinger's cat. this book contains a coherent and self-contained account of ...

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Mon, 13 Feb 2017 07:51:00 GMT

macroscopic quantum tunneling in bipb2201 y nomura1, h kambara1, y nakagawa1 and i kakeya1 1department of electronic science and engineering, kyoto university, japan

QUANTUM TUNNELLING W/ MACROSCOPIC OBJECTS - PHYSICS FORUMS

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which would be squared to calculate the tunnelling probability? so with large m , $\exp[-2m/h^2]$ is the order of magnitude of the probability. if the probabilities are ...

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"macroscopic quantum phenomena" is just a catch all term for anything effect that involves large things behaving quantum mechanically, so you really need to be a bit ...

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a macroscopic quantum theory for the phase dynamics in capacitively-coupled intrinsic josephson junctions (ijj's) is constructed. we quantize the capacitively

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Mon, 08 Jun 2009 23:58:00 GMT

evidence of macroscopic quantum tunneling detected in nanowires date: june 9, 2009 source: university of illinois at urbana-champaign summary: scientists have ...

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macroscopic quantum tunneling (mqt) has been observed in an intrinsic josephson junction (ijj) stack of a bi 2 sr 2 cacu 2 o 8+ δ (bscco) single crystalline whisker ...

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observing macroscopic quantum phenomena is not ... "we believe that correlated proton tunneling on the macroscopic scale is not strictly limited to ice and ...

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macroscopic quantum tunnelling of magnetization in a single crystal of nanomagnets. l. thomas *, f. lionti *, r. ballou *, d. gatteschi †, r. sessoli † & b. barbara*

MACROSCOPIC QUANTUM TUNNELING 1ST EDITION - AMAZON

Tue, 09 May 2017 02:36:00 GMT

this book contains a coherent and self-contained account of macroscopic quantum phenomena, focusing on the central role played by macroscopic quantum tunneling.

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quantum tunnelling or tunneling (see spelling differences) refers to the quantum mechanical phenomenon where a particle tunnels through a barrier that it classically ...

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the part about quantum tunneling being impossible in classical physics is repeated endlessly yet it is not really correct. yes, a classical particle with energy lower ...

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1. introduction 1.1 introduction the study of macroscopic quantum tunneling (mqt) and macroscopic quantum coherence (mqc) of spins or magnetization has a long history ...

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official full-text publication: macroscopic quantum tunneling with decoherence on researchgate, the professional network for scientists.

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Thu, 11 Dec 2014 23:55:00 GMT

macroscopic quantum tunnelling in spin filter ferromagnetic josephson junctions. d. massarotti 1, 2, a. pal 3, g. rotoli 4, l. longobardi 4, 5, m. g. blamire 3,

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macroscopic tunneling, decoherence and noise-induced activation 2 noise. this transition from a quantum to a classical behavior is forced by the interaction

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1. introduction; 2. overview of macroscopic quantum tunneling; 3. some candidate systems for macroscopic quantum tunneling; 4. environmental problems; 5.

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it has been a real pleasure to be able to review the book by professor takagi macroscopic quantum tunneling. this is a very elegant book indeed, reflecting the style ...

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in this work, a mechanism of macroscopic quantum tunneling is studied, which shows this sort of phenomena may exist even in the bio-field system. the relevant davydov ...

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just to amplify what zz said about tunneling of composite objects like atoms, one should remember that macroscopic objects are subject to a strongly decoherent ...

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in this work, a mechanism of macroscopic quantum tunneling is studied, which shows this sort of phenomena may exist even in the bio-field system.