

quantum computing an environment pdf

Quantum computation is the field that investigates the computational power and other properties of computers based on quantum-mechanical principles. An important objective is to find quantum algorithms that are significantly faster than any classical algorithm solving the same problem.

Quantum Computing: Lecture Notes

COMPUTING Jozef Gruska quantum measurement has the effect of "magnifying" one of the outcomes of quantum superposition probabilistic, sequential Only at this point do indeterminacy and probabilities E. T. QUANTUM WORLD CLASSICAL WORLD Quantum computation is deterministic highly (exponentially) parallel unitary described by Schrodinger ...

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Quantum computing is a whole new way of building computer using quantum mechanics. As we know that quantum mechanics is the physics of very very small. There is a world in an atom.

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The Impact of Quantum Computing Daniel Lidar University of Southern California. Quantum Physics: The theory invented to ... Every real quantum computer interacts with its environment (don't we all) The environment acts as an uncontrollable observer, making random measurements

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A promising technology is the "quantum computers," and this paper gives a general overview about this subject. Keywords: quantum computers. 1 Introduction A promising technology is the "quantum computers." More and more scientists are interested in it because of the performance enhancement it could bring to the today's computing world.

Quantum Computers: A Brief Overview - ULiege

An Introduction to Quantum Computing for Non-Physicists Eleanor Rieffel FX Palo Alto Laboratory and Wolfgang Polak ... quantum bit to transmit two bits of classical information. Both teleportation and dense ... a quantum computer can compute the values for all input states. This process is known

An Introduction to Quantum Computing for Non-Physicists

quantum computer and its environment, which introduces errors). In particular, the bounds on what it is mathematically possible to program a computer to do would apply even if physicists managed to build a quantum computer with no decoherence at all. Hard, Harder, Hardest How is it that a quantum computer could pro-

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ambitious technological goal of building a quantum computer, which would dramatically improve computational power for particular tasks. A number of physical systems, spanning much of modern physics, are being developed for quantum ... may also only "borrow" energy from the environment, thus changing 1Edward L. Ginzton Laboratory, Stanford ...

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