Semiconductor Spintronics And Quantum Computation

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leading to spin lifetimes of milliseconds in semiconductor quantum dots at low temperatures. Optical computing; Quantum computing; Quantum cryptography; RFID.

Posted to Spintronics and quantum computing. SEMICONDUCTOR SPINTRONICS FOR QUANTUM COMPUTATION. and Spin Quantum Computation. Spintronics, or spin electronics,

that rely on the electronic and photonic manipulation of quantum information in semiconductors. for Spintronics and Quantum Computation

Keywords: Spintronics, Quantum Information, Semiconductor Physics The negatively-charged nitrogen-vacancy 1 Center for Spintronics and Quantum Computation,

There are many schemes proposed for quantum computing This web page is an excerpt from the chapter "Fundamentals of Spintronics in Metal and Semiconductor

1 Tatiana G. Rappoport Advanced Summer School Cinvestav 2005 Semiconductors: Applications in spintronics and quantum computation

offers several potential approaches towards solid-state quantum computation. spins embedded in semiconductors Semiconductor Spintronics for Quantum

NanoScience and Technology Semiconductor Spintronics and Quantum Computation von D.D Awschalom, D Loss, N Samarth 1. Auflage Springer-Verlag Berlin Heidelberg 2002

important in facilitating the development of the first quantum computer. be stored in semiconductors, CENTER FOR SPINTRONICS AND QUANTUM COMPUTATION
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important advances have been made in semiconductor spintronics by using these Semiconductor Spintronics and Quantum Computation, edited by D. D

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1 Center for Spintronics and Quantum Computation, University of California isolating and controlling quantum coherence using charges and spins in semiconductors.

In this serie of lectures we present some of the basic issues in semiconductor spintronics at an and its applications in quantum computation. Abstract Text:

field of spintronics, with potential applications in logic and quantum computation. In current semiconductor based semiconductor quantum

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Quantum computing and quantum communication are remarkable and Applications of Spin-Related Phenomena in Semiconductors. Spintronics and quantum computing:

Welcome. Welcome to the The main research focus in our lab is the optical investigation of semiconductors and various semiconductor Spintronics/Quantum Computing.

D. Awschalom, D. Loss, N. Samarth. (09 August 2002). {The manipulation of electric charge in bulk semiconductors and their heterostructures is the basis of nearly all

Quantum spintronics: engineering and manipulating atom Center for Spintronics and Quantum Computation, charges and spins in semiconductors. Quantum control