# Semiconductor Spintronics And Quantum Computation

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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

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

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

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

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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:

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

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

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

**References - Home | Boston University Physics** -
The use of spin in electronic circuitry is a tantalizing method to increase computer performance. Semiconductor Spintronics and Quantum computation.

**Spintronics - Wikipedia, the free encyclopedia** -
leading to spin lifetimes of milliseconds in semiconductor quantum dots at low temperatures. Optical computing; Quantum computing; Quantum cryptography; RFID.
**Quantum spintronics: engineering and manipulating** -
Quantum spintronics: engineering and manipulating atom Center for Spintronics and Quantum Computation, charges and spins in semiconductors. Quantum control

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

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important in facilitating the development of the first quantum computer. be stored in semiconductors, CENTER FOR SPINTRONICS AND QUANTUM COMPUTATION

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