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

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

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1 Tatiana G. Rappoport Advanced Summer School Cinvestav 2005 Semiconductors: Applications in 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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Awschalom, D Loss, N Samarth 1. Auflage Springer-Verlag Berlin Heidelberg 2002

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

### **Semiconductor spintronics for quantum computation**

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

### **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.

### **Ibm100 - the application of spintronics**

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

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