

# Semiconductor Spintronics And Quantum Computation

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## **Colton research group: home - byu physics and**

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

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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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Semiconductor Spintronics and Quantum Computation by Editor-D.D. Awschalom; Editor-D. Loss; Editor-N. Samarth ISBN: 9783540421764 / 3540421769 Hardcover; Springer;

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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.

## **Semiconductors: applications in spintronics and**

1 Tatiana G. Rappoport Advanced Summer School Cinvestav 2005 Semiconductors: Applications in 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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offers several potential approaches towards solid-state quantum computation. spins embedded in semiconductors Semiconductor Spintronics for Quantum

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### **References - home | boston university physics**

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

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