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Martin Zwierlein - Quantum Transport in Strongly Interacting Fermi Gases (May 1, 2019)
Advanced Materials - Lecture 2.7.
- Spin Transfer Torque (STT) and spin pumping
~~Unconventional Spin Transport in Quantum Materials~~
Online Spintronics Seminar #22:
Igor Zutic Online Spintronics Seminar #21: Masashi Shiraishi
Quantum Spintronics Blackboard

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~~Talk by Rembert Duine Spintronics
(GMR, MTJ, STT, MRAM) in a
nutshell PQI2020 Week 1:~~

Quantum Materials LCN CPE 2D

Materials Symposium Part 2

Introduction to Solid State Physics,

Lecture 16: Magnetic Order

Quantum Transport, Lecture 9:

Spin States in Quantum Dots

2DCC-MIP Magnetic Switching

Topological Insulator Compensated

Ferrimagnet Dec. 2017 Spintronics

Fundamentals And Applications

~~What is Quantum Spin? What is~~

~~spintronics and how is it useful?~~

Spintronics: Quantum Computing

The Physics of a Diamagnetic

Hover Board

Quantum Teleportation Is Real,

Here's How It WorksHow to Make

a Quantum Tunnel In Real Life

Spintronics First Look Spin Orbit

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~~Torque(SOT) Magnetoresistive
Radom Access~~

~~Memory(MRAM)-The Next
Generation Memory Spin-Pumping
Effect by Heithem Assili~~

~~SDC2020: Novel Technique of
High-Speed Magnetic Recording~~

~~Quantum Transport, Lecture 13:
Superconductivity Logarithmic
anomalies of spin transport in non-
integrable magnets The impossible
spin and its applications L6PB~~

~~Introduction to Spintronics: Spin
Transport in Metals Jie Shan~~

~~(Cornell) Electrons in 2D moiré
superlattices~~

~~Introduction to
Frustrated Magnetism I by Prof
John Chalker Online Spintronics
Seminar #15: Aurélien Manchon~~

~~Magnetic Interactions And Spin
Transport~~

~~Using a D-Wave quantum-~~

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annealing computer as a testbed, scientists at Los Alamos National Laboratory have shown that it is possible to isolate so-called emergent magnetic monopoles, a class of ...

~~Emergent magnetic monopoles isolated using quantum annealing computer~~

Extraordinary and upper-hybrid waves in spin quantum magnetoplasmas with vacuum polarization effect - Volume 87 Issue 4 ...

~~Extraordinary and upper-hybrid waves in spin quantum magnetoplasmas with vacuum polarization effect~~

This spin-orbit interaction is a million times ... Spintronics is a

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portmanteau of "spin transport electronics" and is concerned with magnetic forces created by an electron's spin.

~~Lead Magnetizes Graphene, With Implications For Future Computing~~

Recently, hysteretic transport consistent with ferromagnetic order has been observed in heterostructures composed of graphene and hexagonal boron nitride (hBN) (3–7), neither of which are ...

~~Imaging orbital ferromagnetism in a moiré Chern insulator~~

Magnetic-spin interactions that allow spin-manipulation by electrical control allow potential applications in energy-efficient spintronic devices. Researchers

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now describe the induction of such
...

~~Inducing and tuning spin
interactions in layered material~~
A notable aspect of its description
is the existence of an attractive
interaction ... raised the possibility
of magnetic correlations and a
related pairing mechanism. To this
point, the authors ...

~~A touch more unconventional~~
Using a D-Wave quantum-
annealing computer as a testbed,
scientists at Los Alamos National
Laboratory have shown that it is
possible to isolate so-called
emergent magnetic monopoles, a
class of ...

~~D-Wave, Los Alamos Isolate~~

Where To Download Magnetic Interactions And ~~Emergent Magnetic Monopoles~~ ~~Using Quantum-annealing~~ Computer

Domain walls (DWs) are a type of topological defect that separates regions of different magnetic orientations. A widely studied phenomenon, the manipulation of these defects has potential applications ...

~~Scientists Observe a New Type of~~ ~~Topological Defect in Chiral~~ Magnets

"Topological defects" are formed when the symmetry of a magnetic material is disrupted. Domain walls (DWs) are a type of topological defect that separates regions of different magnetic orientations. A ...

Where To Download Magnetic Interactions And ~~New Type of Topological Defect Observed in Chiral Magnets for the First Time~~

While researchers already understand how the electron's spin can produce magnetism ... materials to have both strong interactions and special lattice geometries that were realized only the last few ...

~~Research team discovers
unexpected quantum behavior in
kagome lattice~~

Nanoelectronics covers a diverse set of devices and materials, with the common characteristic that they are so small that physical effects alter the materials' properties on a nanoscale – inter-atomic ...

Where To Download Magnetic Interactions And Nanoelectronics — Nanotechnology in Electronics

magnetic materials for spin
catalysis, guest molecule
encapsulation, membrane
permeation, delivery of ligands to
porous protein active sites, protein
dynamics and reactions, small-
molecule structure ...

~~Gilles Peslherbe, PhD~~

Quantum transport in low-
dimensional systems,
nanostructures (quantum wires,
two-dimensional electron gas,
superlattices), quantum Hall effect,
Aharonov-Bohm effect Coulomb
drag between spatially ...

~~Panagiotis Vasilopoulos, PhD~~

Although the quantized plateaus
depicted by the conductance of

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~~Spin Transport~~
mesoscopic channels depend on the samples geometry (3), a more universal behavior exists when a two-dimensional (2D) electron gas is ...

~~Probing topology by “heating” :
Quantized circular dichroism in ultracold atoms~~

Representative research areas in such systems include: 1) phenomena at the nano- to macro-scale including: transport, magnetic, and optical phenomena ... intrinsically heterogeneous materials and ...

~~Condensed Matter Physics (CMP)~~

While researchers already understand how the electron's spin can produce magnetism ... band-structure which is also tuneable

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via a magnetic field is a major step forward that could unlock new ...

~~Team discovers unexpected quantum behavior in kagome lattice~~

While researchers already understand how the electron's spin can produce magnetism ... band-structure which is also tuneable via a magnetic field is a major step forward that could unlock new ...

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