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well as picked to act.

Martin Zwierlein - Quantum Transport in Strongly Interacting Fermi Gases (May 1, 2019) Advanced Materials - Lecture 2.7. - Spin Transfer Torque (STT) and

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~~Spin pumping Unconventional Spin Transport in Quantum Materials Online Spintronics Seminar #22: Igor Zutic~~
Online Spintronics Seminar #21: Masashi Shiraishi
Quantum Spintronics [?]
Blackboard Talk by Rembert

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~~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*

Page 6/37

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~~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~~

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~~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 Works **How to Make a Quantum Tunnel In**

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Real Life Spintronics First Look Spin Orbit Torque (SOT) Magnetoresistive Random Access Memory (MRAM) –The Next Generation Memory

~~Spin Pumping Effect by Heithem Assili SDC2020: Novel Technique of High-~~

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Speed Magnetic Recording
*Quantum Transport, Lecture
13: Superconductivity*

~~Logarithmic anomalies of
spin transport in non-
integrable magnets The
impossible spin and its
applications~~ L6PB

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Transport
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~~

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~~Manchon Magnetic Interactions And Spin Transport~~

Using a D-Wave quantum-annealing computer as a testbed, scientists at Los Alamos National Laboratory have shown that it is

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possible to isolate so-called emergent magnetic monopoles, a class of ...

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

Extraordinary and upper-

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Transport 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~~

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~~polarization effect~~
Transport

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

Spintronics is a portmanteau of "spin transport electronics" and is concerned with magnetic forces created by an

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electron's spin.

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

Recently, hysteretic transport consistent with ferromagnetic order has been

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Transport observed in heterostructures composed of graphene and hexagonal boron nitride (hBN) (3-7), neither of which are ...

~~Imaging orbital ferromagnetism in a moiré~~

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~~Chern insulator~~

Magnetic-spin interactions that allow spin-manipulation by electrical control allow potential applications in energy-efficient spintronic devices. Researchers now describe the induction of

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Transport

~~Inducing and tuning spin interactions in layered material~~

A notable aspect of its description is the existence of an attractive interaction

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~~Transport~~ 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-

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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 ...

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~~Transport~~
~~Wave, Los Alamos Isolate~~
~~Emergent Magnetic Monopoles~~
~~Using Quantum annealing~~
~~Computer~~

Domain walls (DWs) are a type of topological defect that separates regions of different magnetic

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Transport. A widely studied phenomenon, the manipulation of these defects has potential applications ...

~~Scientists Observe a New Type of Topological Defect~~

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~~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

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different magnetic orientations. A ...

~~New Type of Topological Defect Observed in Chiral Magnets for the First Time~~
While researchers already understand how the

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

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~~Transport~~
~~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

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Transport effects alter the materials' properties on a nanoscale - inter-atomic ...

~~Nanoelectronics~~

~~Nanotechnology in~~

~~Electronics~~

magnetic materials for spin

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

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~~Gilles Peslherbe, PhD~~

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

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Coulomb drag between spatially ...

~~Panagiotis Vasilopoulos, PhD~~

Although the quantized plateaus depicted by the conductance of mesoscopic channels depend on the

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~~Transport~~ geometry (3), a more universal behavior exists when a two-dimensional (2D) electron gas is ...

~~Probing topology by "heating": Quantized circular dichroism in~~

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~~Transport~~
~~ultracold atoms~~

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

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Transport
heterogeneous materials and
...

~~Condensed Matter Physics
(CMP)~~

While researchers already understand how the electron's spin can produce

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magnetism... band-structure which is also tuneable via a magnetic field is a major step forward that could unlock new ...

~~Team discovers unexpected quantum behavior in kagome~~

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~~Lattice~~ Transport

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

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unlock new ...

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