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Quantum Hall effect summary (by Ady
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"Fractional quantum Hall effect at half-
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Haldane on "Fractional Quantum Hall
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"The quantum Hall effect and the
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Fractional Quantum Hall Effect by
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The discovery of the quantized and
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phenomena is among the most important physics findings in the latter half of this century. The precise quantization of the electrical resistance involved in the quantized Hall effect phenomena has led to the new definition of the resistance standard and has metrologically affected all of science and technology.

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The striking feature of the integer quantum Hall effect is the persistence of the quantization (i.e. the Hall plateau) as the electron density is varied. Since the electron density remains constant when the Fermi level is in a clean spectral gap, this situation corresponds to one where the Fermi level is an energy with a finite density

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of states, though these states are localized (see Anderson localization).

Semiconductor Structures

Quantum Hall effect - Wikipedia

The discovery of the quantized and fractional Quantum Hall Effect phenomena is among the most important physics findings in the latter half of this century. The precise quantization of the electrical resistance involved in the quantized Hall effect phenomena has led to the new definition of the resistance standard and has metrologically affected all of science and technology.

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theories underpinning the quantum anomalous Hall effect (QAHE). QAHE is one of the most fascinating and important recent...

Reviewing the quantum anomalous Hall effect

Perspectives in Quantum Hall Effects by Sankar Das Sarma, Aron Pinczuk, Sankar Das Sarma, 2008, Wiley & Sons, Incorporated, John edition, in English

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In this perspective, we review our
proposal that guarantees a 3D
quantum Hall effect. The proposal

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employs topologically protected Fermi arcs and "wormhole" tunneling via the Weyl nodes in a 3D topological semimetal. The 1D edge states in this 3D quantum Hall effect show an example of $(d - 2)$ -dimensional boundary states. Possible signatures of the 3D quantum Hall effect have been observed in topological Dirac semimetals, but with many questions, which will attract more research to ...

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Perspectives in Quantum Hall Effects is designed for graduate students and experienced researchers, for theorists and experimentalists alike, providing a thought-provoking reference for this rapidly growing field and a source of exciting new ideas for future research.

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Quantized Hall Conductance, Current Carrying Edge States and the Existence of Extended States in a two Dimensional Disordered Potential, Phys. Rev. (1982).- Theory of Quantized Hall Conductivity in two Dimensions, J. Phys. C (1982).- Localization and Scaling in the Quantum Hall Regime, Phys. Rev. (1985).-

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Perspectives in quantum Hall effects : novel quantum ...

The Quantum Hall effect (QHE) is the observation of the Hall effect in a two-dimensional electron gas system (2DEG) such as graphene and MOSFETs. It represents good example of physical systems where quantization effect could be observed

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microscopically as a result of the interplay of the topology, interactions of electron with magnetic field, electron-electron interactions, and disorder.

The Quantum Hall Effect - UK Essays
After brief introduction of Haldane model for spineless fermions, following three fundamental quantum anomalous Hall models are discussed in this perspective review: i) low-energy effective four band model for magnetic-doped topological insulator (Bi,Sb)₂Te₃ thin films, ii) four band tight-binding model for graphene with magnetic adatoms, and iii) two (three) band spinful tight-binding model for ferromagnetic spin-gapless semiconductors with honeycomb (kagome) lattice where ...

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