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Quantum Hall effect summary (by Ady Stern) 2020 Galkin Presentation - "Fractional quantum Hall effect at half-integer filling factors" F. Duncan M. Haldane on "Fractional Quantum Hall Effect in Flat Bands" Yayu Wang on "Quantum Anomalous Hall Effect & Interface Superconductivity in 2D Systems" Klaus von Klitzing - "The quantum Hall effect and the revised SI" 26th CGPM Meeting Fractional Quantum Hall Effect by Jainendra Jain (part 1)

Perspectives In Quantum Hall Effects

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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The striking feature of the integer quantum Hall effect is the persistence of the quantization (i.e. the Hall

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

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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A collaboration across three FLEET nodes has reviewed the fundamental 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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PERSPECTIVES IN QUANTUM HALL EFFECTS

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

3D quantum Hall effect | National Science Review | Oxford ...

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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 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 (Bi₂Te₃ 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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The Complete Quantum Hall Trio

Quantum anomalous Hall effect in intrinsic magnetic topological insulator MnBi_2Te_4 | Science. Quantum anomalous Hall effect—the appearance of quantized Hall conductance at zero magnetic field—has...

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