



FRACTIONAL QUANTUM HALL EFFECT BASED ON FIELD THEORETICAL APPROACH



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fractional quantum hall effect pdf

The fractional quantum Hall effect (FQHE) is a physical phenomenon in which the Hall conductance of 2D electrons shows precisely quantised plateaus at fractional values of e^2/h . It is a property of a collective state in which electrons bind magnetic flux lines to make new quasiparticles, and excitations have a fractional elementary charge and possibly also fractional statistics.

Fractional quantum Hall effect - Wikipedia

In physics, fractional quantum mechanics is a generalization of standard quantum mechanics, which naturally comes out when the Brownian-like quantum paths substitute with the Lévy-like ones in the Feynman path integral. It has been discovered by Nick Laskin who coined the term fractional quantum mechanics.

Fractional quantum mechanics - Wikipedia

arXiv:1008.2026v1 [cond-mat.mes-hall] 12 Aug 2010 Topological insulators and superconductors Xiao-Liang Qi^{1,2} and Shou-Cheng Zhang² ¹Microsoft Research, Station Q, Elings Hall, University of California,

arXiv:1008.2026v1 [cond-mat.mes-hall] 12 Aug 2010

Seidel and D.-H. Lee, "Abelian and Non-abelian Hall Liquids and Charge Density Wave: Quantum Number Fractionalization in One and Two Dimensions", Phys. Rev. Lett. 97, 056804 (2006).

Dung-Hai Lee | UC Berkeley Physics

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Nonrelativistic quantum dynamics on a cone with and without a constraining potential C. Filgueiras,^{1, a)} E. O. Silva,^{2, b)} and F. M. Andrade^{3, c)} ¹⁾ Departamento de Física, Universidade Federal de Campina Grande, Caixa Postal 10071, 58109-970 Campina Grande-PB, Brazil ²⁾ Departamento de Física, Universidade Federal do Maranhão, arXiv:1205.1155v2 [quant-ph] 12 Nov 2012 Campus Universit ...

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