

Fractional Statistics And Anyon Superconductivity

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## Summary:

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Avinash Khare's Fractional Statistics And Quantum Theory ... 1 Introduction In this chapter we shall enumerate in some detail the arguments which lead to the conclusion that unlike in three and higher space dimensions, in two dimensions one can have fractional statistics [1,2,3,4,5,6,7]. Fractional Statistics and Quantum Theory The second part of the book includes a detailed discussion about fractional statistics from the point of view of Chern-Simons theories. Topics covered here include Chern-Simons field theories, charged vortices, anyon superconductivity and the fractional quantum Hall effect. Anyon - Wikipedia In physics, an anyon is a type of quasiparticle that occurs only in two-dimensional systems, with properties much less restricted than fermions and bosons. In general, the operation of exchanging two identical particles may cause a global phase shift but cannot affect observables.

Fractional statistics and quantum theory | Request PDF Note that anyons and fractional statistics have nothing to do with so-called paraparticles and parastatistics (which arise from higher dimensional representations of the permutation group. Fractional Statistics and Anyon Superconductivity - Frank ... The occurrence of fractional statistics has been discovered in more and more quantum field theory models, including some of the most geometrical and canonical ones. Why is fractional statistics and non-Abelian common for ... Both fractional/non-Abelian statistics and fractional charges come from the same origin: long-range entanglements. This is why fractional/non-Abelian statistics common for fractional charges. One way to realize long-range entanglements is through the string-net liquid phase of a pure bosonic model.

Fractional Statistics and Chern-Simons Field Theory in 2+1 ... Fractional Statistics and Chern-Simons Field ... The key reason for the fractional statistics in two dimensions is the principle of indistinguishability of identical particles. It is one of the most important characteristics of quantum mechanics (vis a vis classical mechanics. T. H. Hansson, Stockholm University - Freie Universität NA quantum statistics T. H. Hansson Anyon School Berlin, 2013 Fractional quantum statistics T. H. Hansson, Stockholm University Outline: • What is fractional statistics? • Where does the quantum Hall effect enter? • What is non-Abelian fractional statistics? • Anyons and Topological Field Theory Thanks to: Fractional quantum Hall effect - Wikipedia 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 statistics and the butterfly effect | SpringerLink Fractional statistics and quantum chaos are both phenomena associated with the non-local storage of quantum information. In this article, we point out a connection between the butterfly effect in (1+1)-dimensional rational conformal field theories and fractional statistics in (2+1)-dimensional.

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