

Fractional Statistics And Anyon Superconductivity

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Summary:

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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. 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. 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. 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 ν . 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.

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Fractional statistics: A retrospective view Fractional statistics: A retrospective view Andriy Rovenchak Department for Theoretical Physics, Ivan Franko National University of Lviv International School and Workshop.

functional statistics and applications
functional statistics and related fields
fractional statistics note