

CHERN SIMONS FIELD THEORY AND INVARIANTS OF 3 MANIFOLDS%0A

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Abstract: The Chern-Simons (CS) theory in three dimensions with a compact gauge group G is studied. Starting from the BRST quantization of the theory defined in R^3 , the values of gauge invariants observables are computed in any closed and orientable three manifold M by constructing a surgery operator associated with a Dehn's surgery

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Chern Simons theory Wikipedia

The Chern Simons theory, named after Shiing-Shen Chern and James Harris Simons, is a 3-dimensional topological quantum field theory of Schwarz type, developed by Edward Witten. It is so named because its action is proportional to the integral of the Chern Simons 3-form.

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TIFR TH 99 52 IMSc 99 10 35 Three Manifold Invariants

2 Chern-Simons eld theory and link invariants In this section, we shall present some of the salient features of Chern-Simons theory on S^3 and the invariants of unoriented framed links embedded in S^3 .

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CHERN SIMONS THEORY AND LINK INVARIANTS

CHERN-SIMONS THEORY AND LINK INVARIANTS! Dung Nguyen! U of Chicago! Content! Introduction to Knot, Link and Jones Polynomial! Surgery theory! Axioms of Topological Quantum Field Theory!

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Chern Simons field theory and invariants of 3 manifolds

In the last decade the research field under the name of topological quantum field theory has undergone an impressive growth. We shall focus our attention on the topological quantum field theory introduced by Witten, namely the 3-dimensional Chern-Simons field theory.

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Three Manifold Invariants from Chern Simons Field Theory

Chern Simons Field Theory and Link Invariants In this section, we shall present some of the salient features of Chern Simons theory on S^3 based on an arbitrary semi-simple gauge group G and the

invariants of framed

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Chern Simons gauge theory

Chern-Simons gauge theory The Chern-Simons (CS) gauge theory in three dimensions is defined by the action, $S_{CS} = k \int \text{tr} (A dA + \frac{2}{3} A^3) = k \int \text{tr} A (dA + \frac{2}{3} A^2)$. (1) where tr is the trace over the fundamental representation of the gauge group G and k is a parameter of the theory (inverse of the coupling constant). If G is compact and simple, k has to

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Chern Simons form Wikipedia

The theory is named for Shiing-Shen Chern and James Harris Simons, co-authors of a 1974 paper entitled "Characteristic Forms and Geometric Invariants," from which the theory arose. See Chern and Simons (1974)

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SU 3 Chern Simons field theory in three manifolds

We present the solution of the non-Abelian SU (3) Chern-Simons field theory defined in a generic three-manifold which is closed, connected and orientable.

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A Topological Chern Simons Sigma Model and New Invariants

Chern-Simons gauge theory { to the study of three-manifold invariants, was first elucidated in a seminal paper by Witten [1] in an attempt to furnish a three-dimensional interpretation of the Jones polynomial [2] of knots in three-space.

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CHERN SIMONS THEORY AND THE ASYMPTOTIC EXPANSION OF WITTEN

Chern Simons theory in the definition of the Hermitian line corresponding to the boundary of a 3 manifold. A part of the report is concerned with the study of the moduli space of G

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Knots Trees and Fields Common Ground Between Physics

Abstract. One main theme of this thesis is a connection between mathematical physics (in particular, the three-dimensional topological quantum field theory known as Chern-Simons theory) and three-dimensional topology.

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