

Conformal Field Theory And Topology

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Conformal field theory - Wikipedia
Buy Conformal Field Theory and Topology (Translations of Mathematical Monographs (Iwanami Series in Modern Mathematics)) UK ed. by Toshitaki Kohno (ISBN: 9780821821305) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Chapter 1 presents conformal field theory based on the geometry of loop groups. Chapter 2 deals with the holonomy of conformal field theory. Chapter 3 treats Chern-Simons perturbation theory. The final chapter discusses topological invariants for 3-manifolds derived from Chern-Simons perturbation theory.

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algebras, finite groups, number theory and low-dimensional topology. From an abstract point of view, conformal field theories are Euclidean quantum field theories that are characterised by the property that their symmetry group

An Introduction to Conformal Field Theory
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Title: Topological conformal field theories and Calabi-Yau categories. Authors: Kevin J. Costello. Download PDF Abstract: This is the first of two papers which construct a purely algebraic counterpart to the theory of Gromov-Witten invariants (at all genera). These Gromov-Witten type invariants depend on a Calabi-Yau A-infinity category, which ...

[math/0412149] Topological conformal field theories and ...
This paper gives a construction, using heat kernels, of differential forms on the moduli space of metrised ribbon graphs, or equivalently on the moduli space of Riemann surfaces with boundary. The construction depends on a manifold with a bundle of Frobenius algebras, satisfying various conditions. These forms satisfy gluing conditions which mean they form an open topological conformal field theory, that is, a kind of open string theory.

Costello : Topological conformal field theories and gauge ...
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Conformal Field Theory and Topology: 210: Kohno, Toshitaki ...
Chapter 1 presents conformal field theory based on the geometry of loop groups. Chapter 2 deals with the holonomy of conformal field theory. Chapter 3 treats Chern-Simons perturbation theory. The final chapter discusses topological invariants for 3-manifolds derived from Chern-Simons perturbation theory.

Conformal Field Theory and Topology: Toshitake Kohno ...
Atiyah suggested a set of axioms for topological quantum field theory, inspired by Segal's proposed axioms for conformal field theory (subsequently, Segal's idea was summarized in Segal (2001)), and Witten's geometric meaning of supersymmetry in Witten (1982). Atiyah's axioms are constructed by gluing the boundary with a differentiable (topological or continuous) transformation, while Segal's ...

Topological quantum field theory - Wikipedia
Conformal Field Theories sometimes come in continuous families, parametrized by a "conformal manifold". The most basic example is a supersymmetric gauge theory with exactly-vanishing beta-function(s). Naively, the conformal manifold is the quotient of the space of gauge coupling by some group of identifications ("S-dualities").

Defects in topological and conformal field theory
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discusses topological invariants for 3 manifolds derived from chern simons perturbation theory a conformal field theory cft is a quantum field theory that is invariant under conformal transformations in two dimensions there is an infinite dimensional algebra of local conformal transformations and conformal field theories can sometimes be

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