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The methods in this book are based on a recoupling theory for the Temperley-Lieb algebra. This recoupling theory is a q -deformation of the $SU(2)$ spin networks of Roger Penrose. The recoupling theory is developed in a purely combinatorial and elementary manner.

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TEMPERLEY-LIEB RECOUPLING THEORY AND INVARIANTS OF 3-MANIFOLDS By Louis H. Kauffman and Sostenes L. Lins: 296 pp., £40.00, ... together with specified elements of the Temperley-Lieb algebras for assorted values of n , can be placed in the three-sphere, and the various end points joined by arcs.

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Temperley-Lieb Recoupling Theory and Invariants of Three-Manifolds (1994) by L H Kauffman Venue: Annals Studies 114: Add To MetaCart. Tools. Sorted ... is a knot invariant associated to quantum field theory. The noncommutative torus is an algebra of functions that appears in noncommutative geometry [6]. In this paper we explicate

Temperley-Lieb Recoupling Theory and Invariants of Three

In the Temperley-Lieb theory we obtain unitary (in fact real orthogonal) recoupling transformations when the bracket variable A has the form $A = e^{i\pi/2r}$ for r a positive integer.

Temperley Lieb Algebra II - math.boisestate.edu

ate this to TL) recoupling theory. This is a recoupling theory that generalizes standard angular momentum recoupling theory, generalizes the Penrose theory of spin networks and is inherently topological. Temperley-Lieb recoupling Theory is based on the bracket polynomial model [37, 44] for the Jones polynomial.

Topological Quantum Information Theory

the Temperley-Lieb recoupling theory. Unitary braiding matrices are obtained by a normalization of the

degenerate ground states of a system of anyons, which is equivalent to a modification of the definition of the 3-vertices in the Temperley-Lieb recoupling theory as proposed by Kauffman and Lomonaco.

Braid Matrices and Quantum Gates for Ising Anyons

TOPOLOGICAL QUANTUM INFORMATION THEORY 3 new. The treatment of elementary cobordism categories is well-known, but new in the context of quantum information theory. The reformulation of Temperley-Lieb recoupling theory for the purpose of producing unitary braid group representations

Topological Quantum Information Theory

Bulletin of the London Mathematical Society; Journal of the London Mathematical Society; Proceedings of the London Mathematical Society; Transactions of the London Mathematical Society

TEMPERLEY-LIEB RECOUPLING THEORY AND INVARIANTS OF 3

This paper discusses combinatorial recoupling theory, first in relation to the vector cross product algebra and a reformulation of the Four Colour Theorem, and secondly in relation to the Temperley-Lieb algebra, the Jones polynomial and the $SU(2)$ 3-Manifold invariants of Witten, Reshetikhin and Turaev.

Combinatorial Recoupling Theory and 3-Manifold Invariants

ate this to TL) recoupling theory. This is a recoupling theory that generalizes standard angular momentum recoupling theory, generalizes the Penrose theory of spin networks and is inherently topological.

Temperley-Lieb recoupling Theory is based on the bracket polynomial model [32, 45] for the Jones polynomial.

Knot Logic and Topological Quantum Computing with Majorana

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