

## Discrete Gauge Theory From Lattices To Tqft

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### Discrete Gauge Theory From Lattices

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### Discrete Gauge Theory - worldscientific.com

Our Hamiltonian higher lattice gauge theory model is defined on spatial manifolds of arbitrary dimension presented by slightly combinatorialized CW-decompositions (2-lattice decompositions), whose 1-cells and 2-cells carry discrete 1-dimensional and 2-dimensional holonomy data. We prove that the ground-state degeneracy of Hamiltonian higher lattice gauge theory is a topological invariant of manifolds, coinciding with the number of homotopy classes of maps from the manifold to the classifying ...

### Higher lattices, discrete two-dimensional holonomy and ...

In general, if  $\{L_\alpha\}$  is a family of lattices, then the Cartesian product  $\prod_\alpha L_\alpha$  also has the structure of a lattice given by  $\mathbf{x} \wedge \mathbf{y} = (x_\alpha \wedge y_\alpha)_\alpha$ ,  $\mathbf{x} \vee \mathbf{y} = (x_\alpha \vee y_\alpha)_\alpha$  for  $\mathbf{x}, \mathbf{y}$  in the product. This fact, although obvious, is actually very convenient as ...

### order theory - Discrete Mathematics - Lattices and boolean ...

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### [hep-th/9511201] Discrete gauge theories - arXiv

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Lectures for my "Introduction to lattice gauge theory and chiral symmetry" course at the School and Workshop "New Horizons in Lattice Field Theory" Confinement, chiral symmetry and the lattice, a review of several nonperturbative aspects of QCD. "Anomalies and discrete chiral symmetries."

### Latticeguy

Discrete Mathematics Lattices with introduction, sets theory, types of sets, set operations, algebra of sets, multisets, induction, relations, functions and algorithms etc.

### Discrete Mathematics Lattices - javatpoint

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### Discrete Gauge Theory From Lattices To Tqft

In Lie theory and related areas of mathematics, a lattice in a locally compact group is a discrete subgroup with the property that the quotient space has finite invariant measure. In the special case of subgroups of Rn, this amounts to the usual geometric notion of a lattice as a periodic subset of points, and both the algebraic structure of lattices and the geometry of the space of all lattices are relatively well understood. The theory is particularly rich for lattices in semisimple Lie groups

### Lattice (discrete subgroup) - Wikipedia

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### Discrete Gauge Theory: From Lattices To Tqft ...

It can be formulated on a lattice using a discrete 2-form field talking values in a finite abelian group (the magnetic gauge group). We show that possible theta-angles in such a theory are quantized and labeled by quadratic functions on the magnetic gauge group.

### Topological Field Theory on a Lattice, Discrete Theta ...

the gauge field, A1 through A6, and three fluxes, Ba, Bb, and Bc • The gauge-invariant action for the discrete CS theory has the form • The matrix Kij defines the commutation relations • For each sublattice site, the vector ji defines the flux attachment, i.e. the relative displacement of the local flux (at the center of a

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