

Simplicial topological coding and homology of spin networks

V. Berc^{1,2}

¹ *Institute of Nuclear Sciences Vinca, Belgrade, Serbia, vberec@vinca.rs*

² *University of Belgrade, Belgrade, Serbia, bervesnai@gmail.com*

We study the commutation of the stabilizer generators embedded in the q -representation of higher dimensional simplicial complex. The specific geometric structure and topological characterization of 1-simplex connectivity is generalized to higher dimensional structure of ordered complex in the combinatorial Laplacian matrix defined on a closed compact surface. Obtained results of a consistent homology-chain basis are used to define connectivity and dynamical self organization of spin network system using quantum Monte Carlo simulation of continuous sequences of simplicial maps.

References

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