

Quantum Link Lattice Field Theory

Friday, September 14, 2018 1:45 PM (25 minutes)

The quantum link approach to lattice field theory represents scalar, gauge and Dirac fields in terms of single bit/qbit fermion operators. This representation is universally equivalent to conventional lattice methods for asymptotically free 2D sigma models and 4D gauge theories. I will discuss the prospect for quantum links as a natural basis of quantum computing.

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