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Fermions on Simplicial Lattices and their Dual Lattices

Thursday, 26 July 2018 11:00 (20 minutes)

I will show that naive and staggered fermions on simplicial lattices and their dual lattices in any dimension can be formulated about as simply as on hypercubic lattices. Point, chiral and discrete symmetry properties are however more subtle. Despite the absence of an exact chiral symmetry, there is no additive mass renormalization. There is an interesting duality between vector and axial vector currents paralleling the duality between the lattices.

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