

UM Physics Department

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Title: On the Domain Wall and Overlap Operators in 2+1D

Abstract:

There is a close and sometimes exact correspondence between implementations of domain wall fermions and the overlap operator. Different hermitian and anti-hermitian mass terms in 2+1d are presented and the relation between the different formulations reviewed. Formulations of measurements are also provided. Locality within the 2+1d Thirring model is investigated with a domain wall representation of the overlap operator. The Ginsparg-Wilson term in the L_s limit is also investigated.