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The topology of non-interacting electrons in strongly-disordered chiral chains

We explore the strongly-disordered regime of chiral one dimensional systems which may exhibit topological properties. We extend the usual definitions of the topological invariants given in the spectral gap regime to the mobility gap regime, show the connection to localization, and prove the bulk-edge duality in both spectral and mobility gap regimes.

(Based on joint work with G. M. Graf)