# Field Theory of Non-Hermitian Operators

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**Abstract**

The spectral and localisation properties of non-Hermitian operators differ substantially from their Hermitian counterparts. These unusual properties can be attributed to the existence of an implicit chiral symmetry exhibited by all non-Hermitian operators. We discuss a supersymmetrical field theoretic formulation of non-Hermitian structures which reveals a general classification scheme and exposes fundamental connections to a variety of Hermitian model systems including sublattice models and superconductors. Applications of this approach to the spectral properties of simple models of random classical dynamics are discussed.