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Short title: Path integrals for pseudo-Hermitian Hamiltonians.

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Review text:

A compact review of the topics and references devoted to the path integral formulations of such non-Hermitian quantum field theories which may be made Hermitian via an interaction-dependent metric. The text explains the details and it also offers several illustrative examples. In particular, the author emphasizes the advantages of using the Heisenberg representation of the dynamics in which, in a way revealed by Jakubský [13] (not Jacubský as printed), the metrics disappears, typically, from the equilibrium thermodynamics. The paper discusses the extension of such a simplification to the Schwinger-Dyson approach to field theories, keeping in mind the Mostafazadeh's critical comment [11] and restricting attention, typically, to the constructions of the Hermitization transformations which appear simpler in the path-integral language.

The text is very closely related to the preceding paper by H. F. Jones (cf. also extended abstract MR2780948).