

## Cornwall-Jackiw-Tomboulis effective action in (2+1)-dimensional models

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Using a nonperturbative approach based on the Cornwall-Jackiw-Tomboulis effective action  $\Gamma(S)$  for composite operators, the phase structure of the (2 + 1)-dimensional Gross-Neveu (GN) and Thirring models is investigated. In GN model there are three possible different mass terms in the model. One is a Hermitian, but two others are non-Hermitian. phase portrait of Thirring model consists of two nontrivial phases with Dirac and Haldane mass terms respectively

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