

Gauge (in)variant spectral properties of gauge-Higgs systems.

Wednesday 14 June 2023 09:15 (45 minutes)

During this talk, we consider both Abelian and non-Abelian (fundamental) Higgs theories. We first focus on the elementary field two-point correlations functions and study the gauge dependence of the spectral functions. An equivalent but gauge invariant formulation of the spectrum is worked out, including renormalization and spectral properties. We end with a proposal to a priori introduce gauge invariant variables in the path integral.

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