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Scalar and pseudo-scalar meson spectral functions under fRG-QCD

We investigate the scalar and pseudo-scalar meson two-point functions under Euclidean and Minkowski space-time in the first-principle 2+1-flavour QCD under the functional renormalization group approach. The external momentum-dependent meson wave function renormalizations, the dispersion relation is computed and a moat behavior of the meson energy is observed. The analytic continuation procedure is performed to obtain the real-time meson spectral functions. The temperature, chemical potential, and momentum dependence of the spectral functions are studied.

Topics

Other related physics

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