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Spectral functions from the Functional Renormalization Group

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We review some general aspects of calculations in Minkowski space-time with Functional Methods with a focus on the Functional Renormalization Group.

In particular the implications of having an momentum dependent regulator present are discussed and results for a scalar theory are presented.

Insights from calculations are used to construct improved methods for spectral reconstructions, focusing on the gluon spectral function in Yang-Mills.

Lastly, the calculation of observable, which only require elementary correlation functions in Minkowski space-time is addressed, in particular transport coefficients in Yang-Mills.

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