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Analytic continuation of Thermal Correlators

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We examine the analytic continuation of long-distance correlation functions of composite operators at finite temperature from Euclidean to Minkowski. There are two definitions of mass in each regime; in Euclidean these are the screening and pole masses. In a field theoretical model we show that the analytic continuation of these mass parameters is non-trivial and requires short-distance information. This is in contrast to the situation at zero temperature.

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