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Reconstruction techniques for spectral densities and applications on BSM models

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In this talk we describe two frameworks for computing spectral densities from lattice correlators: Bayesian and Backus-Gilbert methods. We show that despite being built upon very different assumptions, they share many similarities. The resulting analogy can be exploited to improve aspects of the computation. We also show how smeared spectral densities can be used to compute hadronic masses.

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