

Abstract Submitted
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Maximum Entropy Analysis of Lattice QCD Data for Hadron Mass Spectrum¹ TOM HARSONO, George Washington University, FRANK X. LEE, George Washington University — The application of the Maximum Entropy Method (MEM) to the analysis of lattice QCD data is presented. We obtain information on the mass spectrum of hadrons by extracting spectral functions from correlation functions. Tests, results, and limitations of the MEM algorithm are discussed. The data sets are on $20^3 \times 32$ quenched lattices using the overlap fermion action, with pion mass as low as 180 MeV. A variety of mesons and baryons are considered, with focus on the extraction of the 1st excited states of the hadrons.

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