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Gravitational form factors of glueballs in Yang-Mills theory

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While over the past few decades lattice QCD has provided information on the spectrum of glueballs, little is known about the structure of these exotic candidates. In this poster, we present preliminary results on the gravitational form factors of glueball states in pure Yang-Mills theory. We use $\mathcal{O}(10)$ million configurations with $\beta=5.95$, and a large set of interpolators, to constrain the matrix elements of the energy momentum tensor (EMT). We study the use of GEVP on the extraction of the ground state matrix elements, as well as the effect of various choices of smearing of the EMT.

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