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【322】Glueballs and Gauge / Gravity Duality

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Glueballs, bound states of gluons, can be studied by mapping certain limits of strongly coupled gauge theories to higher-dimensional theories of weakly coupled gravity. This approach has the advantage of permitting computations of glueball decay rates for processes involving mesons as final states. I will give an overview of the calculation of glueball decay patterns in the Witten-Sakai-Sugimoto model, which describes a gauge theory similar to QCD, and a brief comparison of results with experimental data.

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