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AdS/CFT and the axial sector of large-N Yang-Mills Theory

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In holographic models of large-N gauge theories, the pure-glue axial sector is described in terms of a massless pseudoscalar field, dual to the topological density operator. I will outline how this duality can be used to compute observables such as axial glueball masses and decay constants, as well as correlation functions and transport coefficients in the axial sector. I will focus especially on phenomenological holographic models, and discuss potential connections with observation and lattice results.

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