

On the ultraviolet asymptotics of the glueball effective action in large-N Yang-Mills theory

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We shed light on the ultraviolet (UV) structure of the glueball effective action to the next-to-leading large-N order in Yang-Mills (YM) theory by effectively computing the UV asymptotics of a closely related object: The generating functional of all the correlators of twist-2 operators with maximal spin components.

We discuss several issues occurring in the above computation that sets strong constraints on the nonperturbative solution of large-N YM theory and it may be a pivotal guide for the search of such a solution.

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