

Non-perturbative renormalization of the energy-momentum tensor in SU(3) Yang-Mills theory.

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We present a strategy for a non-perturbative determination of the finite renormalization constants of the energy-momentum tensor in the SU(3) Yang-Mills theory. The computation is performed by imposing on the lattice suitable Ward Identities in a finite box in presence of shifted boundary conditions. We show accurate numerical data for values of the bare coupling g_0^2 ranging from 0 to 1.

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