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

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We report on an ongoing project of determining non-perturbatively the finite renormalization constants of the energy-momentum tensor in the SU(3) Yang-Mills theory. We compute them by imposing on the lattice suitable Ward Identities at finite temperature and volume in presence of shifted boundary conditions. We present accurate preliminary numerical data for values of the bare coupling g_0^2 ranging for 0 to 1.

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