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Determination of the mass anomalous dimension for Nf=12 and Nf=9 SU(3) gauge theories

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We show the numerical simulation result for the mass anomalous dimension of the SU(3) gauge theory coupled to Nf = 12 fundamental fermions.
We use both the step scaling method and the hyperscaling for the Dirac eigenmode to determine the anomalous dimension in the vicinity of the infrared fixed point of the theory.
The continuum extrapolation is carefully taken in both analyses.
We also show our preliminary result of the anomalous dimension for Nf=9 case.

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