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Search for the IR fixed point in the Twisted Polyakov Loop scheme (II)

Tuesday, 15 June 2010 11:30 (20 minutes)

We present our updated study of the nonperturbative running coupling constant in Twisted Polyakov Loop (TPL) scheme.
We study the larger lattice size and the lower β region ($\beta \geq 4.5$) in the case of SU(3) Nf=12.
We discuss in detail the step scaling function, the running coupling constant, and the nonperturbative beta function using these updated data.
We also discuss the comparison with the perturbative two-loop results.

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talk

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