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Effective Polyakov-loop theory for pure Yang-Mills from strong coupling expansion: numerical aspects and conclusions

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Within the Polyakov-loop effective theory for pure Yang-Mills obtained from a strong coupling expansion (as presented in Dr. Langelage's talk), a single simulation on a 3D system yields, in principle, a whole array of critical couplings for the full theory, at all values of N_{τ} . Here we present the Monte Carlo details and the practical aspects of such approach, its results, and we discuss possible further improvements and extensions of the model.

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Talk

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