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Effective Polyakov-loop theory for pure Yang-Mills from strong coupling expansion: analytical details

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Lattice Yang-Mills theories at finite temperature can be mapped onto effective 3D Spin systems, thus facilitating their numerical investigation. Using strong coupling expansions we derive the effective action for Polyakov loops and investigate the effect of higher order corrections. Results and numerical details are discussed in the subsequent talk of Dr. Lottini.

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talk

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