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Gauge corrections to the Strong Coupling limit: Numerical results

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A partition function for strong coupling lattice QCD valid at $O(\beta)$ has been derived recently. We present numerical results based on the reweighting of fermionic observables to finite β . In this way we obtain the β -dependence of the phase boundary in the μ - T plane, based on the chiral susceptibility and the baryon number density. We also present gauge observables such as the Polyakov loop correlator and Wilson loops and sketch how to obtain higher order corrections in general.

Presenter: Mr UNGER, Wolfgang (ITP Frankfurt)