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Effective SU(2) Polyakov Loop Theories with Heavy Quarks on the Lattice

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We compare SU(2) Polyakov loop models with different actions with data from full two-color QCD simulations around and above the critical Temperature [1,2].

We then apply the effective theory at finite temperature and density to extract quantities like Polyakov loop correlators, effective Polyakov loop potentials and baryon density.

[1] Smith et al. , Phys. Rev. D88 (2013) 054020

[2] Scheffler et al. , arXiv: 1311.4324

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