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Effective Polyakov line action and the sign problem

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The “relative weights” method is used to derive the effective Polyakov line action corresponding to an underlying lattice gauge theory at any chemical potential. Results for $SU(2)$ and $SU(3)$ gauge theories are presented. The motivation is that it may be easier to address the sign problem in the effective model, e.g. by reweighting or other techniques, than in the original lattice gauge theory.

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