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## Polyakov line actions from SU(3) lattice gauge theory with dynamical fermions: first results via relative weights

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We apply the relative weights method to extract an effective Polyakov line action, at finite chemical potential, from an underlying SU(3) lattice gauge theory with dynamical fermions. The center-symmetry breaking terms in the effective theory are fit to a form suggested by the hopping-parameter expansion, and the effective action is solved at finite chemical potential by a mean field approach. We present preliminary results for staggered fermions at ma=0.3.

Primary authors: GREENSITE, Jeff (SFSU); HÖLLWIESER, Roman (NMSU / VUT)
Presenter: HÖLLWIESER, Roman (NMSU / VUT)
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