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## Effective Polyakov line actions, and their solutions at finite chemical potential

*Friday, 27 June 2014 16:30 (20 minutes)*

I explain the “relative weights” strategy for deriving effective Polyakov line actions, at finite chemical potentials, from the underlying lattice gauge theories. Gauge-Higgs and heavy quark models are the examples considered. The effective Polyakov line theories still have a severe sign problem, and I compare results obtained using mean field and complex Langevin methods to solve such theories.

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