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Phase structure of multiflavor gauge theories

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A SU(3) gauge theory with 12 flavors is a model of great interest for beyond the standard model physics. Running RHMC simulations for different masses and betas we study the Fisher zeroes in the vicinity of the endpoint of a line of first order transitions. The pinching of these zeros with respect to increasing volume provide information about a possible unconventional continuum limit. We also study the mass spectrum of a multiflavor linear sigma model with a splitting of fermion masses.

Primary authors: Mr SILVA, Diego (The University of Iowa); Mr GUSTAFSON, Erik (University of Iowa); MEURICE, Yannick (U. of Iowa)

Presenter: Mr SILVA, Diego (The University of Iowa)

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