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SU(2) gauge theory with many flavors of domain-wall fermions

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We numerically study the SU(2) gauge theory with many flavors. Dynamical simulation is performed with the standard domain-wall fermions in fundamental representation at numbers of flavors Nf=2,4,6, and 8. Nf dependence of the static potential, meson spectrum, and the eigenvalue spectrum of the Dirac operator is investigated so as to determine the phase structure.

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