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## **SU(2) gauge theory with domain-wall fermions in fundamental and adjoint representations**

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We study the SU(2) gauge theory with dynamical domain-wall fermions in fundamental and adjoint representations. Dynamical simulations with fundamental fermions are performed with numbers of flavors  $N_f=2,4,6$ , and 8.  $N_f$  dependence of the meson masses and decay constants are investigated. The same analyses are applied also to the adjoint fermions, based on the investigation of the Aoki phase structure of the Wilson fermion operator.

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