I will present a computation of the cohomology groups of the moduli space of flat SU(2) bundles over a closed nonorientable surface  $\Sigma$ , which we identify via the holonomy map with X/SU(2), where  $X := Hom(\pi_1(\Sigma), SU(2))$ . The strategy will be to determine the equivariant cohomology ring  $H^*_{SU(2)}(X)$ , and then pass to  $H^*(X/SU(2))$  via a pair of long exact sequences and localization.

**TOM BAIRD**, University of Toronto, Toronto, Ontario, M5S 2E4, Canada Moduli space of flat SU(2) bundles over nonorientable surfaces