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Andrew Michael Sanders* (sanderandy@gmail.com). *Riemannian metrics on character varieties of closed surface groups.*

We will present a general method for constructing Riemannian metrics on the G -character variety of a closed, orientable surface group where G is a semisimple Lie group. The Riemannian metrics we construct are compatible with the Atiyah-Bott-Goldman symplectic structure and generalize the construction of the Weil-Petersson metric on Teichmüller space and the Hitchin L^2 -metrics on the moduli space of G -Higgs bundles. (Received September 06, 2016)