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Keith Burns* (burns@math.northwestern.edu), Department of Mathematics, Northwestern University, Evanston, IL 60208, **Howard Masur** (masur@math.uchicago.edu), Department of Mathematics, University of Chicago, Chicago, IL 60607, and **Amie Wilkinson** (wilkinso@math.northwestern.edu), Department of Mathematics, Northwestern University, Evanston, IL. *Ergodicity of the Weil-Petersson geodesic flow.*

The Weil-Petersson metric is an incomplete Riemannian metric on Teichmueller space with negative sectional curvatures. It is invariant under the action of the mapping class group and projects to a metric with finite volume on moduli space. Recently the techniques of Pesin theory, in particular the work of Katok-Strelcyn, have been applied to show that this geodesic flow is ergodic. (Received September 14, 2010)