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Kariane Calta* (kcalta@math.cornell.edu), Dept. of Mathematics, Malott Hall, Cornell University, Ithaca, NY 14850. *Unipotent flows on moduli space in genus two.*

We present a classification of U -invariant, ergodic probability measures on certain submanifolds in the stratum $H(1, 1)$ of the genus two moduli space of abelian differentials. Here, U denotes the unipotent, upper-triangular subgroup of $SL(2, R)$ and $H(1, 1)$ consists of pairs (M, ω) where M is a Riemann surface and ω is an abelian differential on M having exactly two simple singularities. This is joint work with Kevin Wortman, Yale University. (Received March 06, 2006)