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**Jane Piore Gilman\*** (jgilman@nsf.gov), Mathematics Department, Smith Hall, Rutgers University, Newark,, NJ 07102, and **Linda Keen**. *Automorphisms of Pants and Tori: Primitives and Palindromes*.

Let  $F$  be the free group on two generators and let  $G$  be a faithful non-elementary representation of  $F$  in  $PSL(2, \mathbb{C})$ . We discuss the geometry and algebra of  $G$  in the case that  $G$  is Fuchsian and free. In particular we emphasize the role of primitive elements and palindromes in the action of the automorphism group of  $G$  by identifying it with a covering group of a quotient torus or pair of pants. (Received August 27, 2009)