1020-37-175 **Yuki Yayama*** (yyayama@email.unc.edu), Department of Mathematics, University of North Carolina, Chapel Hill, NC 27599. *On the uniqueness of measures of full Hausdorff dimension for some compact invariant sets.*

The Hausdorff dimension of a "general Sierpinski carpet" was found by McMullen and Bedford and the uniqueness of the measure of full Hausdorff dimension in some cases was proved by Kenyon and Peres. We extend these results by considering a general Sierpinski carpet represented by a shift of finite type. Applying results of Ledrappier, Young and Shin, we study the Hausdorff dimension of such a general Sierpinski carpet for the case when there is a saturated compensation function and give some conditions under which there is a unique measure of full Hausdorff dimension. (Received August 27, 2006)