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Albert Clop (albertcp@mat.uab.cat), Departament de Matemàtiques, Universitat Autònoma de Barcelona, Facultat de Ciències, 08193 Barcelona, Catalonia, Spain, and **David A Herron*** (david.herron@UC.edu), Department of Mathematics, University of Cincinnati, PO Box 210025, Cincinnati, OH 45221-0025. *Hausdorff Measure and Mappings of Finite Distortion*. Preliminary report.

We examine mappings of finite distortion whose distortion functions belong to certain Lebesgue spaces, establish local modulus of continuity estimates for the inverses of such mappings, and describe the possible compression of Hausdorff measure under such mappings. We also exhibit examples that describe the extent to which our results are sharp. (Received January 06, 2012)