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**Eugen Andrei Ghenciu\*** (eag0027@unt.edu), Department of Mathematics, University of North Texas, P.O. Box 311430, Denton, TX 76203-1430. *Parabolic Iterated Function Systems with Applications to the Backward Continued Fractions.*

To the Renyi or backward continued fraction transformation we associate a parabolic iterated function system whose limit set has Hausdorff dimension 1. We show that the Texan Conjecture holds, i.e. for every  $t \in [0, 1]$  there exists a subsystem whose limit set has Hausdorff dimension  $t$ . (Received September 24, 2005)