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Michel L. Lapidus (lapidus@math.ucr.edu), 900 Big Springs Road, Department of Mathematics, 231 Surge Building, Riverside, CA 92521, and **Robert G. Niemeyer*** (niemeyer@math.unm.edu), Department of Mathematics & Statistics, 1 University Drive, Albuquerque, NM 87133. *Nontrivial paths of the T -fractal billiard in rational and irrational directions.*

We present our latest results on orbits of the T -fractal billiard table. We survey some known results on the T -fractal billiard before presenting an example of an orbit with an irrational slope that 1) converges to a rational elusive point and 2) does so in a way that is consistent with how a nontrivial path in a rational direction is constructed. (Received September 07, 2014)