

Meeting: 1007, Santa Barbara, California, SS 5A, Special Session on Noncommutative Geometry and Algebra

1007-52-99 **Ke-ying Guan*** (kyguan@yahoo.com), 3# Shangyuancun, Haidian District, 100044 Beijing, Peoples Rep of China, and **Zuming Chen** (whqiu@263.net), 37 Xueyuanlu, Haidian District, 100083 Beijing, Peoples Rep of China. *Cantor Limit Set of a Topological Transformation Group on S^1 .*

The conditions for the fractal limit set of a transformation group on S^1 with two generators are given. This result can be used to determine exactly when the monodromy group of a particular Riccati equation on T^2 has a fractal limit set. (Received February 08, 2005)