1046-37-324 **Robert L. Devaney*** (bob@bu.edu), Department of Mathematics, Boston University, 111 Cummington St., Boston, MA 02215. *Dynamic Classification of Escape Time Sierpinski Curve Julia Sets.*

For the family of rational maps $z^n + \lambda/z^n$, if all the critical orbits eventually escape to infinity, the Julia set is known to be a Sierpinski curve. There are infinitely many open sets in the λ -plane for which this occurs. Hence all the parameters in these open sets contain homeomorphic Julia sets. However, the dynamics on these sets are usually quite different. We give a complete classification of these dynamical behaviors. Joint work with Kevin Pilgrim. (Received August 26, 2008)