

1035-37-696

**Eugen Andrei Ghenciu\*** (ffeag@uaf.edu), p.o. box 750232, fairbanks, AK 99775. *Bowen's Formula in Graph Directed Markov Systems*. Preliminary report.

In this paper we prove Bowen's formula in a very general setting. Given a conformal graph directed Markov system, we show that the Hausdorff dimension of the associated limit set is the zero of the topological pressure function. The result holds for any finite system or for an infinite system with irreducible incidence matrix. (Received September 13, 2007)