

1154-34-1603

**Benjamin Steinhurst\*** (bsteinhurst@mcdaniel.edu). *Fibonacci Word Fractals: Three Constructions and Introductory Analysis*. Preliminary report.

The first construction is as the scaling limit of curves produced by an L-system. The second is as the attractor of a derived iterated function system satisfying something similar to an open set condition. The third is as a projective limit. Using the third construction we will consider how lifting functions to higher approximations works and construct a compatible sequence of approximating Laplacians. (Received September 16, 2019)