

# GRAPH LIPSCOMB'S SPACE IS A GENERALIZED HUTCHINSON-BARNSELEY FRACTAL

Radu MICULESCU

Faculty of Mathematics and Computer Science  
Transilvania University of Braşov  
Iuliu Maniu Street, nr. 50, 500091 Braşov, Romania  
E-mail: *radu.miculescu@unitbv.ro*

Lipscomb's space  $J_A$  performs a central role in the topological dimension theory being a universal space for weight  $|A| \geq \aleph_0$  metric spaces. There exists a strong connection between topological dimension theory and fractals set theory since on the one hand, some classical fractals play the role of universal spaces and on the other hand the universal space  $J_A$  is a generalized Hutchinson-Barnsley fractal (i.e. the attractor of a possibly infinite iterated function system). In this paper we introduce a generalization of  $J_A$ , namely the concept of graph Lipscomb's space  $J_A^{\mathcal{G}}$  associated to a graph  $\mathcal{G}$  on the set  $A$ , and we prove that its imbedded version in  $l^2(A')$ , where  $A' = A \setminus \{z\}$ ,  $z$  being a fixed element of the set  $A$  having at least two elements, is a generalized Hutchinson-Barnsley fractal.

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