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Steven Hurder* (hurder@uic.edu), Department of Mathematics (m/c 249), University of Illinois at Chicago, 851 S. Morgan Street, 322 SEO, Chicago, IL 60607-7045. *Entropy for Y-like matchbox manifolds.*

A matchbox manifold M is a generalized lamination, with leaves of dimension n . That is, M is a foliated connected metric space of dimension n , which is transversally totally disconnected, and the path components of M define the leaves of a foliation F .

A matchbox manifold M is Y -like, if Y is a finite simplicial complex of dimension n , and for every $\epsilon > 0$, there is a continuous surjection $f : M \rightarrow Y$ whose fibers have diameter at most ϵ .

The geometric entropy $h(M, F)$ is defined using the definition of Ghys, Langevin and Walczak for the geometric entropy of foliated spaces, and may be infinite. It is known that $h(M, F)$ is zero if M is homeomorphic to a weak solenoid, in the sense of McCord and Schori.

For the generalized solenoids, such as the Williams solenoids which are Y -like where Y is a branched manifold of dimension n , in this talk we show how the entropy $h(M, F)$ can be calculated in terms of an inverse limit presentation of M by branched manifolds. (Received August 28, 2014)