

1094-37-191

Steven Hurder* (hurder@uic.edu), Department of Mathematics, 322 SEO, M/C 249, 851 S. Morgan Street, Chicago, IL 60607-7045. *Lipshitz matchbox manifolds.*

A matchbox manifold is a connected, compact foliated space with totally disconnected transversals. A minimal matchbox manifold is said to be Lipshitz if there exists a metric on a Cantor set transversal, for which the holonomy maps are Lipshtiz. Examples of Lipshitz matchbox manifolds include the exceptional minimal sets for C^1 -foliations of compact manifolds, the classical solenoids, and the weak solenoids of McCord and Schori, among others. We address the question: When does a Lipshitz matchbox manifold admit an embedding as a minimal set for a smooth dynamical system, or more generally for a C^1 -foliation of a smooth compact manifold? We also discuss the classification theory for Lipshitz weak solenoids. (Received August 23, 2013)