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*Hausdorff dimension of matchbox manifolds.*

Matchbox manifolds are a class of foliated spaces where transversal models are totally disconnected. In the talk, we investigate properties of transverse Hausdorff dimension, as well as lower and upper box dimensions, for a special class of matchbox manifolds, where the transverse dynamics is described by a pseudogroup action on a space of pointed trees. We present examples of matchbox manifolds with finite and infinite Hausdorff dimension. (Received August 20, 2013)