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**Kevin P Knudson\*** ([knudson@math.msstate.edu](mailto:knudson@math.msstate.edu)), Department of Mathematics & Statistics,  
Mississippi State University, Mississippi State, MS 39759. *Persistent homology of human speech  
data.*

We study the persistent homology of data sets obtained from three-dimensional time delay embeddings of human speech signals. Eight different sounds are analyzed, and we classify each according to its persistent Betti numbers. This is joint work with Kenny Brown (undergraduate at Mississippi State). (Received August 13, 2007)