Dynamically relevant inductive limits for certain Smale space C*-Algebras

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Smale spaces are a class of hyperbolic dynamical system. The stable C^{*}algebra of a Smale space is obtained from an etale groupoid and when the original system is mixing it is simple, separable, nuclear, and stably finite. One would like to compute the K-theory of this C^{*}-algebra. I will outline the construction of an explicit inductive limit decomposition of the stable C^{*}-algebra when the stable sets are totally disconnected. From this, one can often compute the K-theory. The talk will be example based. In particular, no knowledge of Smale spaces is required. This talk is based on joint work with Allan Yashinski.