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*Duality and spectral triples for Ruelle algebras*

D. Ruelle showed how  $C^*$ -algebras could be constructed from certain hyperbolic dynamical systems called Smale spaces. These include the Cuntz-Krieger algebras which arise from shifts of finite type. I will discuss a K-theory duality for these algebras (joint work with J. Kaminker and M. Whittaker). Using this duality and building on work of M. Whittaker, I will present some examples of spectral triples for these  $C^*$ -algebras. This is joint work (in progress) with A. Julien.