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Xin Ma* (xma29@buffalo.edu). *Pure infinite dynamical systems and their C^* -algebras.*

I will introduce two notions characterizing pure infiniteness of dynamical systems and explain how these notions are equivalent and imply pure infiniteness of the reduced crossed product C^* -algebras. When the dynamical system is minimal, I will explain how this result provide us a dichotomy between stably finiteness and pure infiniteness of reduced crossed product C^* -algebras. (Received August 22, 2019)