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Nicola Watson* (nicola.watson@utoronto.ca), Room 6290, 40 St George Street, Toronto, Ontario M5S 2E4, Canada. *Nuclearity for C^* -algebras with real rank zero*. Preliminary report.

Since the 1970s, attempts to classify C^* -algebras have focused on those that are nuclear, and the majority of these attempts have not been dependent on von Neumann algebra theory. In this talk, we prove an intrinsic characterisation of nuclearity for C^* -algebras with real rank zero, in terms of finite dimensional subalgebras. This characterisation shows how natural the concept of finite nuclear dimension is for these algebras, and potentially makes some interesting C^* -algebraic questions susceptible to von Neumann algebra techniques. (Received September 16, 2013)