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Andrea Arauza Rivera*, 25800 Carlos Bee Blvd, Hayward, CA 94542. *An Introduction to Noncommutative Fractal Geometry.*

Noncommutative geometry stems from the duality between the category of compact Hausdorff topological spaces and commutative unital C^* algebras. When one lifts the commutativity requirement one is able to study "noncommutative" topological spaces. Led by Alain Connes, this field has developed many interesting tools for studying noncommutative spaces. We introduce how one may use these tools to study fractal sets. (Received March 02, 2020)