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William Ott* (ott@math.uh.edu) and **Edward Stout**. *Can the dimension of a fractal set or measure be inferred from projections?*

How do we analyze invariant sets and measures produced by infinite-dimensional dynamical systems? One can project these objects into (finite-dimensional) Euclidean spaces and then perform the analysis in \mathbb{R}^n . This approach raises an immediate question: How much information, if any, associated with the invariant object is lost when we project it? It turns out that the answer to this question depends on the structure of the infinite-dimensional space in which the invariant object lives. Here, we discuss recent projection results for fractal sets and measures in Banach spaces. (Received September 17, 2019)