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Dorin Ervin Dutkay* (ddutkay@gmail.com), Orlando, FL 32816. *Fourier frames on fractal measures.*

We present some results on frame spectra for fractal measure, i.e., sets of frequencies that yield frames of exponential functions. We show how the Hausdorff dimension of a self-affine fractal measure coincides with the Beurling dimension of its frame spectra. We give a characterization of Bessel sequences of exponentials for such measures. (Received December 13, 2009)