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Jan Reimann* (reimann@math.psu.edu), Department of Mathematics, McAllister Bldg,
Pennsylvania State University, University Park, PA 16802. *Effective multifractal spectra.*

We study effective aspects of multifractal spectra. We show that the spectrum of pointwise effective dimensions reflects many important properties in both the dynamical and the probabilistic setting. We prove a consistency property for correlation dimension that allows us to apply effective/constructive dimension to point processes such as earthquakes. (Received August 27, 2013)