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Quantization dimensions for general condensation systems.

The quantization dimension is an important characterization of the quantization error which is induced by the approximation of a given probability measure with discrete probability measures of finite supports. It represents the speed with which the quantization error approaches zero as we increase the number of elements in the supports of approximating discrete measures. In this talk we focus on the quantization dimensions of inhomogeneous self-similar measures which arise as attracting measures for condensation systems. Our goal is to show that the quantization dimension of such measure could be computed in terms of the weights associated with the self-similar part of the measure and the dimension of the inhomogeneous part. (Received February 13, 2018)