

1116-00-2195      **Essouabri, Lapidus, Scott Roby\*** (roby@math.ucr.edu) and **Rock**. *Hypergeometric Multifractal Zeta Functions*. Preliminary report.

The study of self-similar measures arising from weighted iterated function systems has led to the construction of a class of multifractal zeta functions which can be shown to be transformations of generalized hypergeometric series. The analytic continuation of these series allows for the study of the complex dimensions of certain subsets of the support of the self-similar measures. (Received September 22, 2015)