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Generalized L-Fractal strings.

Generalized L-fractal strings are considered as a subclass of generalized fractal strings which, viewed as continued or discrete measures, are associated measures to ordinary fractal strings. During this talk, we will define ordinary fractal strings, the Cantor string is an example of such strings, their Minkowsky measurability, and tubular neighborhood. Next, we will introduce Generalized Fractal strings, provide examples and discuss some of their properties. The notion of "fractality" of such objects will be determined using tools of the "Theory of complex dimensions", which will be discussed in details, we will end up our talk showing that Minkowsky measurability of these sets could itself, when certain conditions are provided, be interpreted in terms of complex dimensions. (Received September 15, 2009)