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p-Adic Fractal Strings: Complex Dimensions and Fractal Tube Formulas

We discuss joint work with Hung(Tim) Lu on p-adic fractal strings and their complex dimensions, along with joint work with this same author and Machiel van Frankenhuysen on the important special case of self-similar fractal strings (including the Cantor strings and Fibonacci string) and on fractal tube formulas. If time permit, we may briefly discuss recent joint work with these two authors on generalized p-adic Cantor strings and on the beginning of a theory of adelic fractal strings.