1077-51-1503   **Hung Lu*** (`hlu@hpu.edu`), 1188 Fort Street Mall, Suite 430, Honolulu, HI 96813, and **Michel L. Lapidus** and **Machiel van Frankenhuijsen**. *Explicit tube formulas for p-adic fractal strings.*

We present an explicit volume formula for the tubular neighborhood of a p-adic fractal string $\mathcal{L}_p$, expressed in terms of the underlying complex dimensions. The general tube formula is illustrated by some simple examples, the nonarchimedean Cantor, Euler, and Fibonacci strings. (Received September 20, 2011)