1118-94-183 **Loren Anderson*** (loren.james.anderson@ndsu.edu) and **Hannah Davis** (davi2495@umn.edu). *Fractal AC Circuits.*

We consider fractal AC circuits that generalize Feynman's infinite ladder in the sense that the characteristic impedance can have positive real part despite all circuit components having purely imaginary impedances. Convergence of finite approximations and computation of harmonic functions will be discussed. (Received January 31, 2016)