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Elizabeth Sattler*, elizabeth.sattler.1@ndsu.edu. *Fractal Dimension of the Canopy of Tree Fractals*. Preliminary report.

Tree fractals are constructed using an iterated function system that contains the identity map. The canopy of a tree fractal, defined as the set of points in the fractal which is fixed by the contractive maps in the IFS, appears in the limiting case, but is absent in any finite iteration. By finding a topological pressure function and appropriate measure supported on the canopy, we show that the Hausdorff dimension of the canopy of a tree fractal must be equal to the unique zero of the topological pressure function. (Received January 28, 2015)