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Elizabeth Sattler*, elizabeth.sattler.1@ndsu.edu. *Fractal dimensions of subfractals induced by sofic subshifts*. Preliminary report.

In this talk, we will consider subfractals of hyperbolic iterated function systems which satisfy the open set condition. The subfractals will consist of points associated with infinite strings from a subshift of finite type or sofic subshift on the symbolic space. We find that the zeros of the associated lower and upper topological pressure functions are lower and upper bounds, respectively, for the Hausdorff, packing, lower and upper box dimensions of the subfractal. (Received September 21, 2015)