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Galois conjugates of growth rates of PCF generalized beta-transformations

The exponential of the topological entropy of any postcritically finite generalized beta-map on an interval is an algebraic integer. Bill Thurston plotted all the Galois conjugates of a large set of "tent maps" (which are a type of generalized beta-map); the visually stunning resulting image showed a set with a rich and complicated geometric structure. A similar set exists for other types of generalized beta-maps. What can we prove about the structure of these sets? I will discuss the existence of "holes" in these sets and the continuity/dependence of the Galois conjugates on the topological entropy. In particular, I will focus on the "persistence" of conjugates inside the unit disk as the entropy increases. This talk is based on joint research with H. Bray, D. Davis and C. Wu.