**On the Fractal Objects that Arise from Iteration of Various Zeta Functions, L Functions, and One Modular Form**

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I will discuss my efforts to characterise the fractal objects that arise from iteration of the following functions: (a) the Riemann zeta function $\zeta(s)$; (b) various Hurwitz zeta functions $\zeta(s, a)$, for $a \in \mathbb{Q}$; (c) various Dirichlet L functions $L(s, \chi)$ of principal Dirichlet characters $\chi$ of modulus n, where $1 \leq n \leq 24$, or any prime n; and (d) the Dedekind $\eta$ function