Fractal theta functions and dynamics

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Fractal zeta functions and their generalization: fractal theta functions, a.k.a. fractal partition functions, seem to be very natural objects of study both in dynamics and in spectral theory. I'll talk about some easy examples in holomorphic dynamics, likely the following two:

1) the standard Cantor set (which is the Julia set of the tent map)

   and

2) converging orbits of tangent-to-identity diffeomorphisms in dimension 1 (which is based on a joint work with Pavao Mardešić, Goran Radunović, and Maja Resman).