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Integral means spectrum : Some examples of exact computation.

Let K be a compact connected infinite subset of the plane. Such a set carries a natural measure called harmonic measure which is the hitting distribution of Brownian motion started at ∞ . This talk will be concerned with multifractal spectrum of this measure or, equivalently according to Frisch-Parisi pionnering work, to the integral-means spectrum of the associated Riemann map. I will focus on deterministic or random cases for which this spectrum may be computed explicitly. Based on joint work with B. Duplantier (Paris-Saclay), Nguyen Thi Phuong Chi (Ho Chi Minh City) and Han Yong (Shenzen).