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Algorithmically random functions and effective capacity

We continue the investigation of algorithmically random functions and closed sets, and in particular the connection with the notion of capacity. We introduce the notion of a partial Martin-Löf random continuous function on 2^N . We introduce a notion of a random online function F , where the value of $y(n)$ for $y=F(x)$ may be computed from the values of $x(0), \dots, x(n)$. We show that random online functions are neither onto nor one-to-one. We examine the possible integrals of random online functions. These notions of randomness are studied with respect to Bernoulli and more general measures.