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STURMIAN MEASURES IN ERGODIC OPTIMISATION

For a real-valued function f , an invariant probability measure is called f -maximising if it gives f a larger space average than any other invariant probability measure. Ergodic optimisation is the study of problems relating to maximising invariant measures and maximum ergodic averages. In this talk we will discuss the role of a one-parameter family of measures, the Sturmian measures, in various problems in ergodic optimisation.