

Low-discrepancy sequences for non-uniform measures

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In discrepancy theory we usually ask for point sets which have an even distribution, where the degree of evenness is measured in terms of the deviation from the uniform distribution. However, in applications this setting can be too restrictive, and it is natural to consider the same problem in the case when the uniform distribution is replaced by a general (non-uniform) distribution. In this talk we present some recent results on this problem, and point out some crosslinks to combinatorics, measure theory, and the theory of empirical processes. The talk is based on joint work with Josef Dick.