

LECTURE TITLE: Group Characters in the Theory of
Uniform Distribution of Sequences Mod 1

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ABSTRACT

Character sums play a central role in the theory of uniform distribution modulo one (u.d. mod 1) of sequences.

Qualitative results in this theory like Weyl's Theorem are expressed in terms of character sums, as are numerical quantities like discrepancy or diaphony.

In this talk, we will survey central notions and results of the theory of uniform distribution from this viewpoint. We will not only consider characters of the torus, but also other function systems in this context, like Walsh functions.