

Title: Representation Growth: The Local Case

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Abstract: Let  $G$  be a semisimple algebraic group over a local field  $K$  and  $U$  a compact open subgroup of  $G(K)$ . I will discuss joint work with Alex Lubotzky on the problem of estimating the growth rate of the function which counts, for each positive integer  $n$ , the number of irreducible complex representations of  $U$  of dimension at most  $n$ .