

Title: Representation growth of arithmetic groups

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Abstract: Let  $D$  be a finitely generated group and  $R_n(D)$  the number of its  $n$ -dimensional complex irreducible representations.  $R_n(D)$  may be infinite but it is finite for higher rank arithmetic groups. In fact B. Martin and the speaker showed that the sequence grows polynomially if  $D$  satisfies the congruence subgroup property. We will present more recent result (joint work with M. Larsen) which gives further information on the sequence and the "zeta function" associated with it.