

# TEMPLE UNIVERSITY MATHEMATICS COLLOQUIUM

**Alex Lubotzky**  
Hebrew University of Jerusalem

will speak on

## Counting representations of arithmetic groups

ABSTRACT: Given a higher rank arithmetic group (e.g.  $SL(3, \mathbb{Z})$ ) it has  $r(n)$  complex irreducible representations of degree  $n$ . We will study the rate of growth of  $r(n)$ , the associated zeta function  $\sum_n r(n)n^{-s}$ , its Euler factorisation etc. Some connections with subgroup growth, congruence subgroup property and super-rigidity will be shown. (Based on joint works with B. Martin and with M. Larsen).

MONDAY, JANUARY 30, 2006

LECTURE AT 4:00 PM (#)

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM.

ROOM 617, WACHMAN BUILDING  
DEPARTMENT OF MATHEMATICS