

Speaker: Kumar Murty

Title: Bounded generation, Congruence subgroups and Splitting of primes

Abstract: A group G is said to have bounded generation if there are elements g_1, \dots, g_m with the property that any element $g \in G$ can be written as $g = g_1^{k_1} \cdots g_m^{k_m}$ for some integers k_1, \dots, k_m . We discuss bounded generation of some algebraic groups, its relationship to the congruence subgroup problem and the splitting of primes in certain number fields.