ANUP DIXIT, Queen's University
On Ihara's conjecture and primes in arithmetic progressions

As a natural generalization of Euler-Mascheroni constant γ, Ihara introduced the Euler-Kronecker constant γ_K attached to a number field K. He conjectured that for cyclotomic fields $\mathbb{Q}(\zeta_n)$, this constant is always positive. In this talk, we will discuss a connection of this conjecture with the oscillation of error terms in the prime number theorem for certain arithmetic progressions. This is joint work with M. Ram Murty.