

Joint IAS/PU Number Theory Seminar

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Non-Archimedean Approximations by Special Points

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Date & Time: Thu, 03/28/2013 - 16:30 - 17:30

Location: Fine Hall 214

Let x_1, x_2, \dots be a sequence of n -tuples of roots of unity and suppose X is a subvariety of the algebraic torus. For a prime number p , Tate and Voloch proved that if the p -adic distance between x_k and X tends to 0 then all but finitely many sequence members lie on X . Buium and Scanlon later generalized this result. The distribution of those x_k that lie on X is governed by the classical (and resolved) Manin-Mumford Conjecture. I will present a modular variant of Tate and Voloch's discreteness result. It was motivated by the analogy between the conjectures of Manin-Mumford and Andre-Oort

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terms:

- [School of Mathematics](#)