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DATE   I. February 17 (Wed), 2010, 10:30–11:30
II. February 17 (Wed), 2010, 15:00–16:00
III. February 18 (Thu), 2010, 10:30–11:30
IV. February 18 (Thu), 2010, 15:00–16:00
V. February 19 (Fri), 2010, 10:30–12:00

PLACE   Room 126, Graduate School of Mathematical Sciences

SPEAKER   **Yves Benoist** (Orsay)

TITLE   Discrete groups acting on homogeneous spaces I–V

ABSTRACT   In this course I will focus on recent advances on our understanding of discrete subgroups of Lie groups.

I will first survey how ideas from semisimple algebraic groups, ergodic theory and representation theory help us to understand properties of these discrete subgroups.

I will then focus on a joint work with Jean-Francois Quint studying the dynamics of these discrete subgroups on finite volume homogeneous spaces and proving the following result: We fix two integral matrices A and B of size d, of determinant 1, and such that no finite union of vector subspaces is invariant by A and B. We fix also an irrational point on the d-dimensional torus. We will then prove that for n large the set of images of this point by the words in A and B of length at most n becomes equidistributed in the torus.

http://www.ms.u-tokyo.ac.jp/~toshi/seminar/ut-seminar.html