

Lie Group and Representation Theory Seminar, Kyoto 2006

Date: October 17 (Tue), 2006 16:30–17:30

Place: RIMS, Kyoto University : Room 402

Speaker: Sai Kee Yeung (Purdue Univ)

Title: Geometric superrigidity, integrality of lattice and classification of fake projective planes.

Abstract: I would explain geometric approach to rigidity problems for lattices in semi-simple Lie group, the difficulties encountered and results known for the complex rank one cases, and the relation to the recent classification of fake projective planes given by Gopal Prasad and myself. I would also explain the new examples of fake projective planes and fake projective fourfolds we constructed. The techniques used in the first part are mainly geometrical, while the second part are mainly algebraic group and number theoretical.

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