

abstract

ARITHMETIC HOMOGENEOUS SPACES

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

The remarkable phenomenon of Superrigidity, discovered by Margulis in the context of linear representations of lattices in higher rank semi-simple groups, has motivated and inspired a lot of research on other "higher rank" groups and representations into target groups other than linear ones. In this joint work with Uri Bader and Ali Shaker, we propose a new approach to superrigidity, based on a notion of a "Weyl group" associated to a "boundary" of G (it becomes the Weyl group when G is semi-simple). We use this approach to prove various superrigidity results for representations into $\mathrm{Homeo}(\text{circle})$, including an easy proof of Ghys' result, lattices in products of general Ic groups, \tilde{A}_2 groups, cocycle versions of all the above, and commensurator superrigidity.