

Group theory, arithmetic geometry and representation theory

Supervisor: Wushi Goldring

Project

I have broad interests in arithmetic and algebraic geometry, Hodge theory and representation theory. In particular I am interested in applications of group theory to other areas, particularly building on reductive groups, Coxeter groups and their generalizations. This includes but is not limited to the Langlands Program over number fields, Shimura varieties and other moduli spaces.

I am interested in recruiting PhD students who are interested in at least one of the topics above.