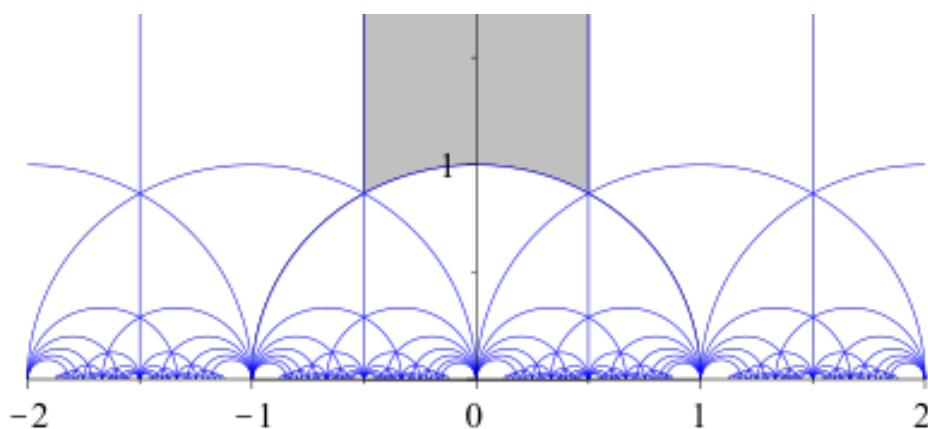


Arithmetic Groups

Instructor: Alice Mark

MAT 598, Spring 2018, Date/Time TBA



This course will be an introduction to Arithmetic groups, with a focus on their role in geometry. The first prototypical example of an arithmetic subgroup of an algebraic group is $SL_n\mathbb{Z} \leq SL_n\mathbb{R}$. The intended audience is graduate students and advanced undergraduates. Students in this class should be comfortable working with groups.

Topics include: locally symmetric spaces, lattices, commensurability, representations, amenability, Kazhdan's property (T), rigidity theorems of Mostow and Margulis,