

Meeting: 1001, Evanston, Illinois, SS 21A, Special Session on Low-Dimensional Topology and Kleinian Groups

1001-57-363 **Emily Hamilton*** (emh@mathcs.emory.edu), Department of Mathematics & Computer Science, Emory University, Atlanta, GA 30322, and **Alan W Reid** (areid@math.utexas.edu), Department of Mathematics, University of Texas at Austin, Austin, TX 78712. *Eigenvalue fields of arithmetic Kleinian groups*. Preliminary report.

If Γ is a subgroup of $GL(n, \mathbb{C})$, let $\mathbb{Q}(\text{ev}\Gamma)$ denote the field obtained by adjoining the eigenvalues of the elements of Γ to \mathbb{Q} . In this talk, we describe eigenvalue fields of arithmetic Kleinian groups and determine whether or not eigenvalue fields are invariants of the commensurability class of these groups. (Received August 31, 2004)