

Stanford Department of Mathematics Colloquium

Torsion in the homology of locally symmetric spaces

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Abstract

Arithmetic groups can have “a lot” of torsion in their homology. (I will try to explain what “a lot” means; joint work with Nicolas Bergeron.) Avner Ash and others have conjectured that this torsion should fit into the framework of the Langlands program; I will explain what this means. This conjecture has a striking consequence: there should be “unexpected” relationships between the (torsion) homology of different arithmetic groups. I will discuss evidence for this (joint work with Frank Calegari).

Thursday, January 29
4:15 p.m.
Bldg. 380, Room 380-W.

<http://math.stanford.edu/coll/0809/>