

Arithmetic and congruence links

Alan Reid, University of Texas at Austin

If M is a closed orientable 3-manifold and L a link in M , then L is called arithmetic if $M \setminus L$ is an arithmetic hyperbolic 3-manifold. The link is called congruence if $M \setminus L$ is a congruence arithmetic hyperbolic 3-manifold. This talk will be concerned with arithmetic and congruence links in 3-manifolds, and in particular we are motivated by the question: Are there infinitely many congruence arithmetic links?