Abstract

I will discuss the various constructions of finite volume hyperbolic manifolds, with an emphasis on the arithmetic vs. non-arithmetic dichotomy. I will then explain why certain non-arithmetic hyperbolic manifolds can only contain finitely many closed immersed totally geodesic codimension one submanifolds (joint with D. Fisher, N. Miller, and M. Stover). This gives the first positive answer to a question raised independently by Alan Reid and by Curt McMullen.