

Speaker: Amir Mohammadi

Title: Geodesic planes in hyperbolic 3-manifolds

Abstract: Let M be a hyperbolic 3-manifold, a geodesic plane in M is a totally geodesic immersion of the hyperbolic plane into M . In this talk we will give an overview of results which highlight how geometric, topological, and arithmetic properties of M are related to behavior of geodesic planes in M . This talk is based on joint projects with McMullen and Oh, and in another direction with Margulis.