**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.