

# **"On Thurston's conjecture on the first Betti number of hyperbolic 3-manifolds"**

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Abstract: In this talk we outline an approach to Thurston's conjecture, viz., that any compact hyperbolic 3-dimensional manifold admits a finite cover with non-zero first Betti number. The approach involves the dynamics of unipotent flows on homogeneous spaces of  $SL(2, \mathbb{C})$ .