

1173-57-104

Michelle Chu* (michu@uic.edu) and **Alan Reid**. *Embedding closed hyperbolic 3-manifolds in minimal volume hyperbolic 4 manifolds.*

It is known that the minimal volume cusped hyperbolic 3-manifolds, the figure-8 knot complement and its sibling, contain infinitely many totally geodesic immersed surfaces. However, none of these surfaces are embedded. In this talk I discuss the existence of totally geodesic hyperbolic 3-manifolds embedded in minimal volume hyperbolic 4-manifolds. (Received September 17, 2021)