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

The smallest volume cusped hyperbolic 3-manifolds, the figure-eight knot complement and its sister, contain many immersed but no embedded closed totally geodesic surfaces. In this talk we discuss the existence or lack thereof of codimension-1 closed embedded totally geodesic submanifolds in minimal volume cusped hyperbolic 4-manifolds. (Received September 12, 2020)