

1088-57-166

**Yi Liu\*** (yliumath@caltech.edu). *Virtual positivity of representation volumes.*

In this talk, we discuss hyperbolic volume and Seifert volume of closed mixed 3-manifolds. In particular, we show that these volumes are virtually positive if a corresponding geometric piece presents. We construct virtual representations using ingredients from recent work of Przytycki and Wise. This is joint work with Pierre Derbez and Shicheng Wang. (Received February 08, 2013)