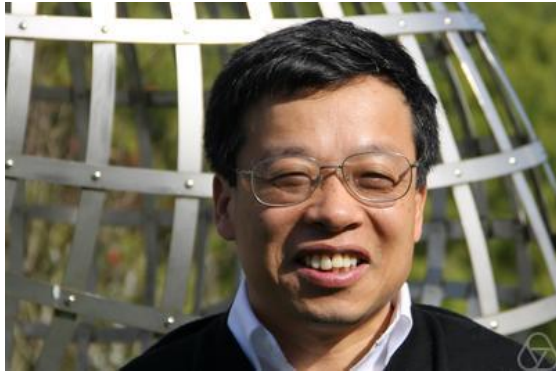




HARVARD UNIVERSITY
17 Oxford Street
Cambridge, MA 02138

Mathematical Picture Language Seminar



Monday, July 20

3:30 p.m. Boston time

Jefferson 368

Guoliang Yu

Texas A&M

A Proof of Gromov's Simplicial Volume Conjecture under a Mild Condition

Abstract: I will report on recent joint work with Qiaochu Ma on Gromov's 1986 conjecture that closed manifolds with positive scalar curvature should have vanishing simplicial volume. We prove the conjecture under a mild decay condition on the fundamental group, and as a geometric application show that a closed oriented manifold with scalar curvature sufficiently positive compared with its Ricci lower bound has vanishing simplicial volume (arXiv:2606.29135v2).

This talk will be posted two days after the seminar at
<https://mathpicture.fas.harvard.edu/seminar> and
<https://www.youtube.com/@mathematicalpicturelanguage2715/videos>