

DISCRETENESS OF VOLUMES

Speaker: Chenyang Xu Princeton University

Time: Thu., Aug. 28th, 16:00-17:00PM

Venue:Gu Lecture Hall, SCMS

Abstract:

The concept of local volume of a klt singularity, which is the infimum of normalized volumes of all valuations centered at the singularity, plays a central role in the local stability theory. The Stable Degeneration Theorem says any klt singularity admits a volume preserved degeneration to a K-semistable log Fano cone singularity. In this talk, I will show that all K-semistable log Fano cone singularities with volume bounded from below are bounded. As a consequence, this implies that the set of normalized volumes of all klt singularities has 0 as its only accumulation point. This is a joint work with Ziquan Zhuang.

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