

*Department of Mathematics,
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Math 295 - Department Colloquium

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Complete Calabi-Yau metrics: recent progress and open problems

Abstract:

Complete Calabi-Yau metrics are fundamental objects in Kahler geometry arising as singularity models of "bubbles" in degenerations of compact Calabi-Yau manifolds. The existence of these metrics and their relationship with algebraic geometry are the subjects of several long standing conjectures due to Tian-Yau and Tian-Yau. I will describe some recent progress towards the question of existence, and explain some future directions, highlighting connections with notions of algebro-geometric stability.

Host: Lei Ni

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4:00 PM

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