

Kahler affine structures and Calabi conjecture

Ilia Zharkov
Harvard University

Abstract

Integral Kahler affine structures arise as metric limits of maximally degenerate Calabi-Yau families. The affine Calabi conjecture says that for a fixed monodromy representation and a fixed metric class there is a unique such structure on a sphere (with singularities) which is Monge-Ampere. Mostly, I will discuss the two dimensional example.