

Kim

Title: Canonical bundle formula and degenerating families of volume forms

Abstract: We will talk about our result on the singularities of the L^2 metric for log Calabi-Yau fibrations. It says that the L^2 metric has singularities given by the discriminant divisor coming from the canonical bundle formula while the moduli part line bundle admits a singular hermitian metric with vanishing Lelong numbers. Applications to L^2 extension theorems will be also discussed.