



GAIA Workshop

Seminar on Complex Analytic Geometry

- 📌 **Title:** Multiplier ideal sheaves and tensor powers of a line bundle
- 📌 **Speakers :** Dano Kim (Seoul National University)
- 📌 **Date&Time :** 1 November(Thu) 2012, 8 p.m.–10 p.m.
- 📌 **Place :** The GAIA (Math Science building room 106)
- 📌 **Abstract**

: In complex algebraic geometry, the notion of a multiplier ideal sheaf has played an important role in the study of algebraic varieties of general dimension. A multiplier ideal sheaf measures the singularity of a 'singular pole' given by the zeros of a finite set of holomorphic functions. Also more generally, it is natural to define the multiplier ideal sheaf of a plurisubharmonic function. In this talk, we will discuss applications of the fundamental subadditivity property of multiplier ideal sheaves and also of a more recent superadditivity type result due to Popovici. We will also discuss related results stemming from work of Lindholm and Berndtsson on Bergman kernels.

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