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Title (for the first two lectures): Infinitesimal extension of twisted canonical forms and applications

Abstract: I will report on an updated version of an old joint work with J. Cao. In the first lecture I will discuss a generalization of M. Levine's approach for the extension of pluricanonical forms defined on the central fiber of a Kahler family.

The method of proof can be used in order to confirm an injectivity result conjectured by O. Fujino: this will be the main theme of the second lecture

Title (3rd lecture) Hermite-Einstein metrics on stable reflexive sheaves on Kaehler manifolds.

Abstract: I will present an overview of a joint work with J. Cao, P. Naumann, P. Graf, T. Peternell and Xiaojun Wu.

It concerns a more precise version of a very nice and useful result due to Bando-Siu.