

Estimates of the invariant metrics and applications

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Abstract: Abstract: The Bergman and Kobayashi metrics are biholomorphic invariants that generalize the Poincaré metric from the unit disc to domains in several complex variables. In this talk, we will discuss several estimates of the invariant metrics on domains in complex manifolds, with emphasis on the interplay with the underlying geometry. Applications of these estimates to problems in complex geometric analysis are also given.