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Joint Geometric Analysis Seminar

(Part of MIST program)

The Dirichlet problem for the Monge-Ampere equation on Hermitian manifold with boundary

Prof. Ngoc Cuong Nguyen
Korea Advanced Institute of Science & Technology

Abstract

This is joint work with S. Kolodziej. We study weak quasi-plurisubharmonic solutions to the Dirichlet problem for the complex Monge-Ampère equation on a general Hermitian manifold with non-empty boundary. We prove optimal subsolution theorems: for bounded and Hölder continuous quasi-plurisubharmonic functions. The continuity of the solution is proved for measures that well dominated by capacity, for example measures with L_p , $p > 1$, densities, or moderate measures in the sense of Dinh-Nguyen-Sibony.

Date: November 25, 2022 (Friday)

Time: 11:00am-noon (Hong Kong time)

ZOOM link: <https://cuhk.zoom.us/j/91805734715>

All are Welcome