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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*