

VIRTUAL EAST-WEST SCV SEMINAR

September 1, 2020

Xianghong GONG
University of Wisconsin-Madison

ESTIMATES OF HOMOTOPY FORMULAS AND AN APPLICATION
TO THE GLOBAL NEWLANDER-NIRENBERG THEOREM
WITH BOUNDARY FOR STRICTLY PSEUDOCONVEX C^2 DOMAINS

In this talk, I will present results on estimates in Hölder-Zygmund spaces for a homotopy formula for strongly pseudoconvex C^2 domains, and I will also discuss recent joint work with Loredana Lanzani on a homotopy formula for strongly \mathbb{C} -linearly convex $C^{1,1}$ domains. I will discuss how the stability of the estimates for the strongly pseudoconvex case is useful in the proof of the Newlander-Nirenberg theorem with boundary in joint work with Chun Gan.
