

1106-VK-1878 **Chizuko Iwaki*** (iwaki@uark.edu). *Strong Stein Neighborhood Bases for Nonsmooth Pseudoconvex Domains.*

In 1979, Dufresnoy showed that the existence of a good Stein neighborhood base for $\Omega \subset \mathbb{C}^n$ implies that one can solve the inhomogeneous Cauchy-Riemann equations in $C^\infty(\bar{\Omega})$, even if the boundary of Ω is only Lipschitz. In this talk, sufficient conditions for the existence of a good Stein neighborhood base on a Lipschitz domain are shown. This talk is part of my thesis research with Phil Harrington. (Received September 15, 2014)