

TEMPLE UNIVERSITY

Department of Mathematics

Analysis Seminar

Room 617 Wachman Hall

Monday, October 24, 2022, 2:30 p.m.

*Multilayer potentials associated with the
poly-Cauchy operator in non-smooth domains*

by Jeongsu Kyeong

Temple University

Abstract: The subject of this talk is the analysis of multilayer potentials associated with integer powers of the classical $\bar{\partial}$ operator in non-smooth domains in the complex plane. This analysis includes integral representation formulas, jump relations, higher-order Fatou theorems, and higher-order Hardy spaces.

This is joint work with Irina Mitrea (Temple University), Dorina Mitrea and Marius Mitrea (Baylor University).