

Colloquium

University of Notre Dame
Department of Mathematics

Mei-Chi Shaw - University of Notre Dame

Speaker: Mei-Chi Shaw

University of Notre Dame

Will give a lecture entitled
The Cauchy-Riemann Equations in Complex Analysis

Date: Wednesday, October 5, 2022

Time: 4:00 PM

Location: 125 Hayes-Healy Hall

Zoom URL: <https://notredame.zoom.us/j/99986867672?pwd=Z2NJRIZwL0dTRONxbk50NEIHK0dNdz09>



Departmental Tea: Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.

Abstract:

Holomorphic functions are solutions to the homogeneous Cauchy-Riemann equations. The profound influence of partial differential equations on complex analysis began from Riemann's use of the solution to the Dirichlet problem to prove the Mapping Theorem. In this talk, we discuss the important role that the inhomogeneous Cauchy-Riemann equations play in one and several complex variables. This is a survey talk of several complex variables, culminating with the recent progress on domains in complex manifolds and non-smooth domains.