

TEMPLE UNIVERSITY

Department of Mathematics

Analysis Seminar

Room 617 Wachman Hall

Monday, February 6th, 2023, 2:30 p.m.

Radiation Conditions for Null-Solutions of the Helmholtz Operator

by Irina Mitrea

Temple University

Abstract: The goal of this talk is to identify the broadest possible spectrum of radiation conditions for null-solutions of the vector Helmholtz operator. This contains, as particular cases, the Sommerfeld, Silver-Müller, and McIntosh-Mitrea radiation conditions corresponding to scattering by acoustic waves, electromagnetic waves, and null-solutions of perturbed Dirac operators, respectively. This is joint work with Dorina Mitrea and Marius Mitrea.