

TEMPLE UNIVERSITY

Department of Mathematics

Analysis Seminar

Room 617 Wachman Hall

Monday, October 22 2018, 2:40 p.m.

*Unique continuation at the boundary for some
elliptic operators*

by Shif Berhanu

Temple University

Abstract: We will discuss recent results on local unique continuation at the boundary for the solutions of a class of elliptic operators in the plane. The results involve a local boundary sign condition either on the solution or the product of the solution with a monomial. The work extends boundary uniqueness theorems for harmonic functions proved by Baouendi and Rothschild.