# TEMPLE UNIVERSITY

Department of Mathematics

## Analysis Seminar

Room 617 Wachman Hall

Monday, December 7, 2015, 2:40 p.m.

### *Spectral Properties of the Hardy Kernel Operators and Application to Second Order Elliptic Boundary Value Problems*

by Hussein Awala

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Abstract: In this talk I will present an old result of David Boyd from the 70's regarding the $L^p$ spectrum of Mellin convolution type singular integral operators, $1 < p < \infty$, and then I will discuss its relevance to establishing well-posedness results for second order elliptic boundary value problems in polygonal domains in two dimensions.