

Speaker: Selma Yildirim Yolcu
Purdue University

Tuesday, October 9, 2012
11:00 am
258 Hurley Hall

Title: On some inequalities for eigenvalues of fractional Laplacian operators

Abstract:

In this talk, I will present some universal eigenvalue inequalities for fractional Laplacian operators $(-\Delta)^{\alpha/2}$, $\alpha \in (0, 2]$ restricted to a bounded domain in \mathbb{R}^d . Many of these results concern finding bounds for some spectral functions of these operators. The subject is examined from the spectral theory perspective through some of the tools used to prove analogous results for the Laplacian. (joint works with Evans Harrell and Turkey Yolcu)