

Tuesday, April 7, 2015, 4:10 pm

COLLOQUIUM TALK

Speaker: Selma Yildirim Yolcu

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Old Main 2231

Trace and Weyl Asymptotics for Non-local Operators

Abstract:

I will present a broad overview of exciting problems and conjectures which lie at the interface of probability and the spectral theory. In particular, I will discuss a certain problem of computing the coefficients in the two-term asymptotic formula for the trace of some Schrödinger operators. After recalling some of the well-known results, I will discuss recent (and not so recent) progress in understanding the analogous picture when the Laplacian, which “goes” with the Brownian motion, is replaced by non-local operators which “go” with rotationally invariant symmetric stable processes and other closely related Levy processes.

**SNACKS IN FACULTY LOUNGE AT 3:30 PM.
EVERYONE WELCOME (EVEN IF YOU ARE UNABLE TO ATTEND THE TALK)**
