

Massachusetts Institute of Technology  
Department of Mathematics

**LUNCH SEMINAR FOR GRADUATE  
STUDENTS**

MONDAY, FEBRUARY 25, 2013  
12:00 - 1:00 PM

ROOM 2-143

**Scott Sheffield**  
(MIT)

**“Log-correlated Gaussian fields”**

**Abstract**

The log-correlated Gaussian field (LGF) is a natural random distribution (a.k.a. generalized function) that can be defined in any dimension. It coincides with the Gaussian free field (GFF) in dimension two. It's a beautiful object with some rather elegant symmetries that I've been thinking quite a lot about lately. I'll try to explain why, and to describe some of the open problems in this area.

Followed by pizza in room 2-290