

BI-CO MATHEMATICS
COLLOQUIUM

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*“Order and chaos in wave
propagation”*

Monday, March 25, 2013

Talk at 4:00 – Park 328
Tea at 3:30 – Park 355, Math Lounge

Abstract:

The vibration of a membrane can be described by a simple partial differential equation : the 2-dimensional D'Alembert equation. A membrane produces harmonics, which mathematically correspond to eigenfunctions of the laplacian. The relation between the geometry of the membrane and the vibrations it produces is still not fully understood, and I will present a few classical results, but also recent research, on the subject.

BRYN MAWR COLLEGE