

# The SUMO Speaker Series for Undergraduates

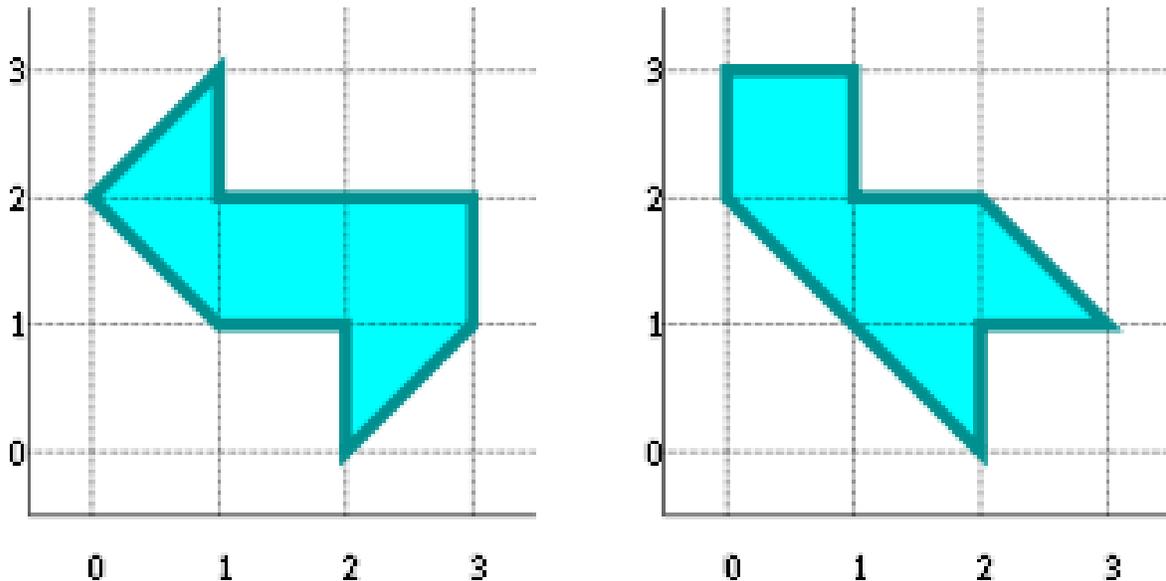
*(Pizza Provided)*

Wednesday, January 11<sup>th</sup>

**4:15-5:05, room 380C**

## Can you hear the shape of a drum?

Otis Chodosh



### ABSTRACT:

Possibly the best mathematical cliché of all time, "can you hear the shape of a drum" was coined by Mark Kac in 1966. In his paper, he proves that we can hear the area of a drum, but his original question has not been resolved to satisfaction. Spectral Geometry, the field of mathematics studying this question requires a mathematician who is a real Jack of all trades: real analysis, PDE's, complex analysis, geometry, topology, combinatorics, and even number theory. This talk will provide an easy-as-pie introduction to the field.

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