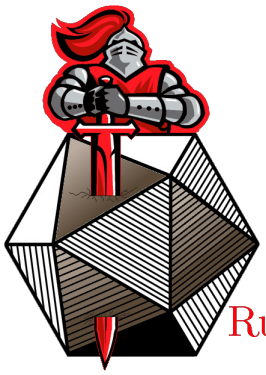

RUMA

Rutgers Undergraduate Mathematics Association

presents...

A topological proof of Euclid's Theorem

A Lecture by Sangjun Ko

Dept. of Mathematics, Rutgers University

Abstract:

Euclid's Theorem, which states that there are infinitely many primes, is a classic theorem whose proof is studied by every student who is beginning to learn about proofs. As an undergraduate, 2020 Abel Prize winner Hillel Furstenberg came up with a different proof which takes ideas from point-set topology. We will give a quick introduction to basic point-set topology and present Furstenberg's proof, and, if time permits, discuss some properties of the so-called "evenly spaced integer topology" as well as other similar constructions.

Wednesday
March 23, 2022
Hill 705 at 7:30 pm

**Pizza and refreshments will be served*

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