RUMA
Rutgers Undergraduate Mathematics Association

presents...

WHEN EULER MET MORSE (AND MAYBE FLOER)

A Lecture by Professor Mariano Echeverria

Dept. of Mathematics, Rutgers University

ABSTRACT:

A very useful way to classify surfaces in 3d space is via their number of holes. There are many way to compute such a number, but I will focus on the Morse theory point of view, which involves studying the behavior of a "height" function defined on the surface, and a system of ODEs associated to it.

Time permitting, I will mention how this perspective can be used to study more complicated spaces, which can even be infinite dimensional!

TUESDAY NOVEMBER 12, 2019 HILL 423 AT 7:00 PM

Pizza and refreshments will be served

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