

SUMO Speaker Series for Undergraduates

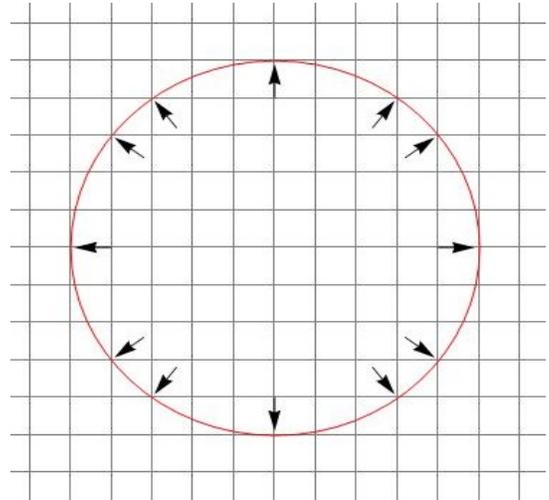
Wednesday, November 12th
4:30-5:30, room 380C (in the basement)

What is a Class Number Formula?

Professor Akshay Venkatesh

Abstract:

How many lattice points lie on a sphere?
That is: how many integers (x,y,z) satisfy $x^2+y^2+z^2 = N$, in terms of the integer N ?
We will study some data and then guess our way to the answer (or rather, an amazing exact formula for it). This is a very down-to-earth example of what mathematicians call a "class number formula."



Food provided from Pizza Chicago