

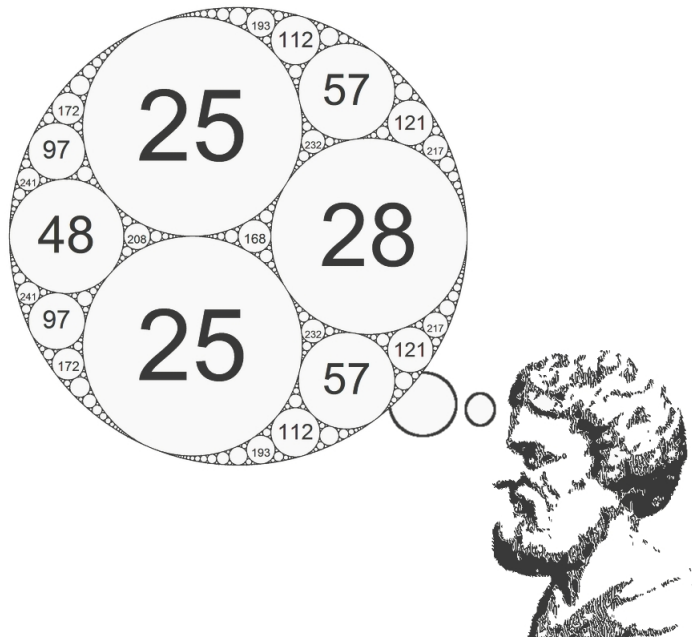
The SUMO Speaker Series for Undergraduates

Thursday, May 22
4:15-5:05, Room 380C

(Food Provided)

Number Theory on Bubbles

Evan Warner



Abstract

Given any three mutually tangent circles, we can draw exactly two additional circles that are tangent to the first three. Repeating this process *ad infinitum* yields a bubbly diagram called an “Apollonian circle packing.” We’ll look at the algebraic structure of these objects and discuss a few counting problems, many of which are completely open.

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