

*Department of Mathematics,
University of California San Diego*

MATH 196 - Undergraduate Mathematics Colloquium

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UCSD

Size doesn't matter: heights in number theory

Abstract:

How complicated is a rational number? Its size is not a very good indicator for this. For instance, $1987985792837/1987985792836$ is approximately 1, but so much more complicated than 1. We'll explain how to measure the complexity of a rational number using various notions of height. We'll then see how heights are used to prove some basic finiteness theorems in number theory.

Host: Melvin Leok

Tuesday, November 14, 2017
12:00 PM
B402A
