

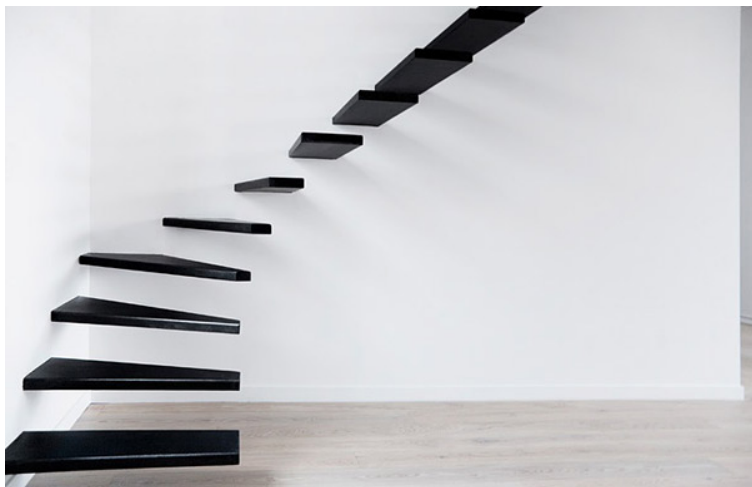
The SUMO Speaker Series for Undergraduates

Tuesday, May 16th

5:30 – 6:20PM, Manzanita Multipurpose Room (661 Escondido Road)

NOTE: NEW LOCATION AT CASPER DINING! Talks will be held at the Manzanita Multipurpose Room at Casper Dining starting May 2nd.

Arithmetic progression in dense sets



Jacob Fox

Abstract

How large of a subset of the first N integers can we find without a three-term arithmetic progression? A famous result of Roth from 1953 shows that the answer is $o(N)$, although the best known lower and upper bounds are still far apart. In the past year, there has been a flurry of activity, with major progress on several related problems that constitute substantial developments in combinatorics, number theory, and theoretical computer science. In this talk, we will discuss these exciting developments.

<http://sumo.stanford.edu/speakers.html>