



DEPARTMENT OF MATHEMATICS
Spring 2025 MATH Colloquium Series

The Probability an Integer is Squarefree _____ or _____ Counting Number Fields



3014123936622654025
8619580078647474248
5846669776613626938
9738928925058160580
8089976465705607106
1663110456807702780
7931345526523680283
0136918915239688878
6023633870791057608

Speaker: Prof. Kevin McGown, CSU Chico

Abstract: If I choose a random 100 digit number, would you bet for or against the number being squarefree? We discuss the density of the set of squarefree numbers and its connection with the Riemann zeta function. In the latter part of the talk, we will introduce the topic of counting number fields, including a famous conjecture in arithmetic statistics. We hope to explain the connection between these two topics and assume very little background knowledge.

April 17th, 2025
THURSDAY

4:00 PM
BSS#166

Note: Prof. McGown will be available to discuss MS programs in Mathematics and Data Science at CSU Chico beforehand, from 2-2:50pm in BSS 508.

FOR MORE INFO GO TO [HTTPS://MATH.HUMBOLDT.EDU/GET-INVOLVED/MATHEMATICS-COLLOQUIUM](https://math.humboldt.edu/get-involved/mathematics-colloquium)

**WE CORDIALLY INVITE YOU TO THE PRE-COLLOQUIUM TEA IN BSS#312
AT 3:30 PM**