

The SUMO Speaker Series for Undergraduates

Thursday, November 20th

4:15-5:05, room 380C

(Food Provided)

Square Roots Modulo n and Secure Coin Flipping



PhD student Jeremy Booher

Abstract:

Given an integer that is known to be a square modulo n , how would one compute its square root? I will discuss such an algorithm and how to use it to simulate a coin flip without the possibility of cheating. The algorithm uses randomness to find a number which is not a square: time permitting I will discuss how trying to avoid randomness leads to hard problems in number theory

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