



STUDENT PRESENTATION

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Title: So ...how large is it?

Abstract: In number theory, the biggest stars of the show are the prime numbers 2, 3, 5, 7, 11, ... Another type of object, that is very much related, is a sum involving the primes. For instance,

$$M(x) = \sum_{n \leq x} \mu(n),$$

where $\mu(n)$ tells us something specific about the prime factorization of the natural number n . One question we may ask about $M(x)$ is: how large is it? Answering this involves proving a bound on $M(x)$. This shall be the topic of the talk, which will be accessible to any mathematically curious undergraduate.

Friday—November 2, 2018

12:00—12:50 pm

UHall D634

SNACKS!