

The SUMO Speaker Series for Undergraduates

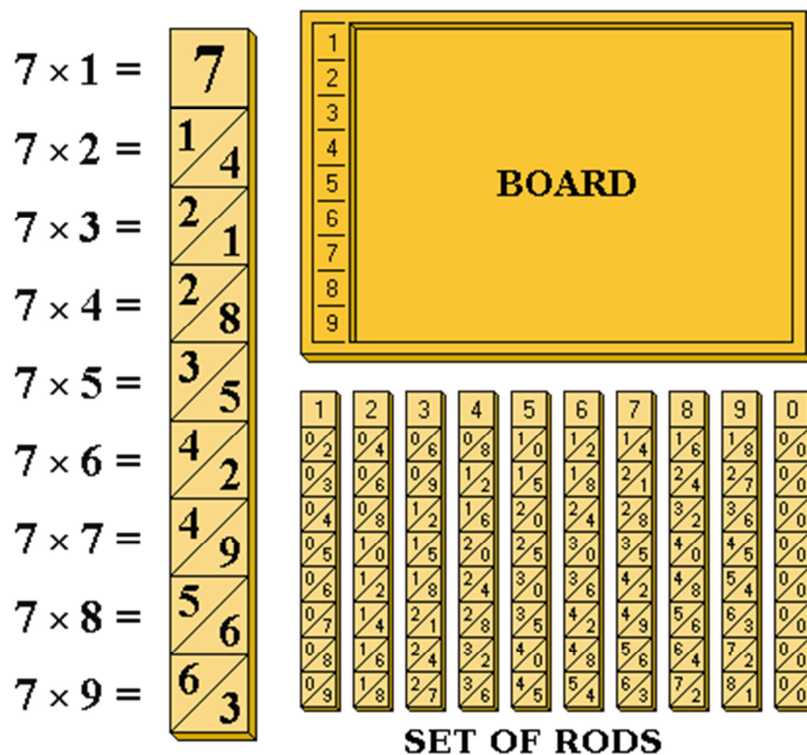
Thursday, January 9th

4:15-5:05, room 380C

(Food Provided)

The Multiplication Table Problem

Professor Kannan Soundararajan



Abstract:

Consider the multiplication table obtained by multiplying two numbers up to N . How many distinct numbers are in this table? I'll explain results of Erdős and others on this problem showing that very few numbers up to N^2 appear in the multiplication table. These results are part of the general story of understanding what the factorization of a typical integer looks like.

sumo.stanford.edu/speakers