MIT
MATHEMATICS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MATHEMATICS

Simple Person's Applied Math Seminar (SPAMS)

Thursday, October 24, 2019

6:00pm − 7:00pm   Room : 2 - 132

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"Applications of entropy to combinatorics"

Abstract

Information theory is a well developed area of mathematics with many theorems and tools. One such useful result from this field is the fact that among all discrete random variables with a fixed support, the one with the largest entropy is the uniform distribution. In this talk, I give examples of how to use this property along with other tools from information theory to give some lower bounds in combinatorics.