

## **abstract**

COMPUTER SCIENCE/DISCRETE MATH SEMINAR, I  
Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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A graph property  $P$  is said to be uniformly-testable if there is a property-tester for  $P$  that receives the error parameter  $\epsilon$  as part of the input, and whose query complexity is a function of  $\epsilon$  only.  $P$  is said to be non-uniformly-testable if for every fixed  $\epsilon$  there is a tester that distinguishes between graphs satisfying  $P$  from those that are  $\epsilon$ -far from satisfying it.

In this talk I will describe a combinatorially natural graph property in  $\text{coNP}$ , which is non-uniformly-testable but cannot be uniformly tested. The proof combines results and arguments from Extremal Graph Theory, Property Testing and the theory of Recursive Functions.

Joint work with Noga Alon.