

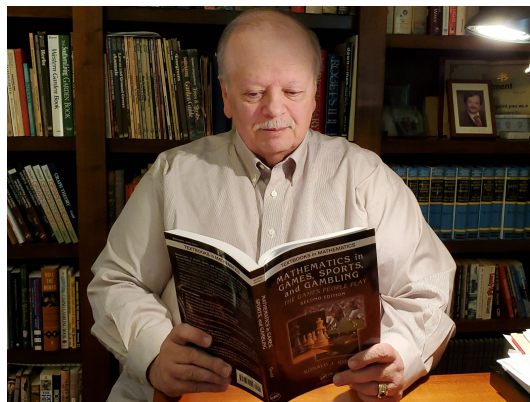
VCU Discrete Mathematics Seminar

Results on saturation spectrum

Prof Ron Gould
Emory University

Wednesday, Feb. 1
1:00-1:50 EST

Zoom! @ <https://vcu.zoom.us/j/92975799914>
password=graphs2357



Given a graph H , a graph G of order n is said to be H -saturated provided G contains no copy of H , but the addition of any missing edge to G creates a copy of H .

The maximum size ($|E(G)|$) of an H -saturated graph is called the extremal number of H , while the minimum size is called the saturation number. For graphs with chromatic number at least three the extremal number is known to be quadratic in n , while the saturation number is known to be linear in n .

This opens the question of what sizes between the extremal number and the saturation number are possible for an H -saturated graph? The set of all possible sizes of an H -saturated graph of order n is called the saturation spectrum of H . In this talk I will discuss some of the known results in this area.

For the DM seminar schedule, see:

<https://go.vcu.edu/discrete>