VCU Discrete Mathematics Seminar

The (n, k, t)-conjectures

Prof Joseph Briggs
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Wednesday, Mar. 1
1:00-1:50 EST

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

Turán's theorem, when complemented, says the following: among all graphs on n vertices where any k vertices contain an edge, the unique one with the fewest edges is a disjoint union of cliques of as equal size as possible. I will show, when 'edge' is replaced with 'K_t', that the minimum is still always a disjoint union of cliques, no matter the values of n,k, and t. This is despite there being arbitrarily many different nonisomorphic minimal graphs in general.

This is based on joint work with Stacie Baumann.

For the DM seminar schedule, see:

`https://go.vcu.edu/discrete`