

VCU Discrete Mathematics Seminar

New and Old Results on α -critical Graphs

**Prof Craig Larson
(VCU!)**

Wednesday, Oct. 18
1:00-1:50 EST

In person! in 4145 Harris Hall, and Zoom @
<https://vcu.zoom.us/j/92975799914>
password=graphs2357



A graph G is α -critical if the removal of any edge e yields a graph with a larger independence number; that is, if $\alpha(G - e) > \alpha(G)$. These graphs are of interest in the investigation of the independence structure of a graph, and theorems date back to the 1960s.

We recount some of these—and discuss some new ones. These arose from an investigation of Deming's algorithm for identifying König-Egerváry graphs.

This is joint work with Mark Kayll.

For the DM seminar schedule, see:

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