

VCU Discrete Mathematics Seminar

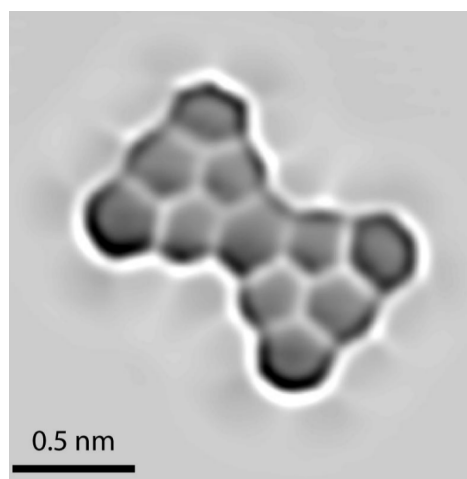
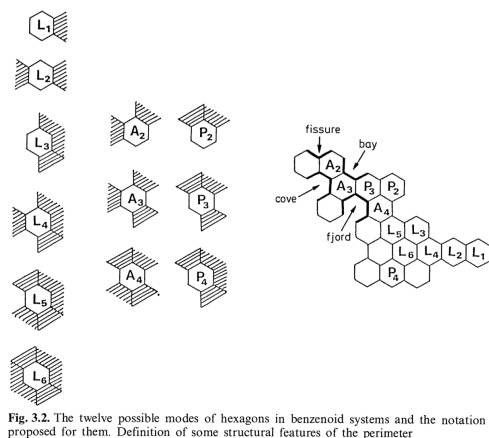
Maximum Nullity Benzenoids

Prof Craig Larson
(VCU!)

Wednesday, September 16
1:00-1:50 EST

In Person in 4145 Harris, with Zoom option:

<https://vcu.zoom.us/j/81475528886>
password=graphs2357



The number of zero eigenvalues (*nullity*) of a benzenoid is a measure of its reactivity. We provide a complete characterization of those benzenoids which have the largest nullity for a given number of hexagons. They are in fact the TP benzenoids, defined by Brunvoll, Cyvin, Cyvin and Gutman in their investigation of *color excess* in benzenoids; these are formed from certain edge-fusions of phenalenes and triangulenes.

This is joint work with Patrick Fowler and Barry Pickup (University of Sheffield).

For the DM seminar schedule, see:

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