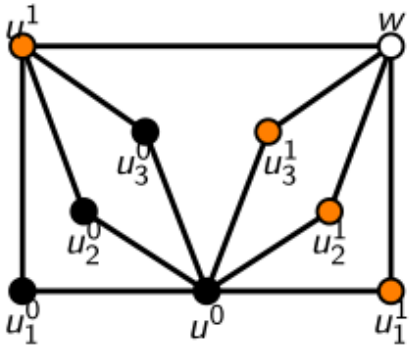
VCU Discrete Mathematics Seminar

Breaking Symmetries of Mycielskian Graphs and of Cubes

Prof Sarah Loeb
(Hampden-Sydney College)

Wednesday, Oct. 1
1:00-1:50 EDT

In person in 4145 Harris Hall. And a Zoom option:
`https://vcu.zoom.us/j/81475528886`
`password=graphs2357`



The distinguishing number of a graph is the least number of colors in a vertex coloring such that the only color-preserving automorphism is trivial. The determining number of a graph is size of a smallest set of vertices S such that the only automorphism fixing S (point-wise) is trivial. I will discuss results on these symmetry parameters for Mycielskian graphs and for various types of cube graphs. This is joint work with Debra Boutin, Sally Cockburn, Lauren Keough, Kat Perry, and Puck Rombach.

For the DM seminar schedule, see:

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