VCU Discrete Mathematics Seminar

Strong 4-Colourings of Graphs

Prof Jessica McDonald (Auburn)

Wednesday, Sept. 28 4:00-4:50 (**Special Time!**)

Watch party in 4145 Harris Hall

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



In this talk we'll discuss strong 4-colourings of graphs and prove two new cases of the Strong Colouring Conjecture. Let H be a graph with maximum degree at most 2, and let G be obtained from H by gluing in vertex-disjoint copies of K₄. We'll show that if H contains at most one odd cycle of length exceeding 3, or if H contains at most 3 triangles, then G is 4-colourable. This is joint work with Greg Puleo.

For the DM seminar schedule, see:

https://vcumath.github.io/Seminar/dms.html