

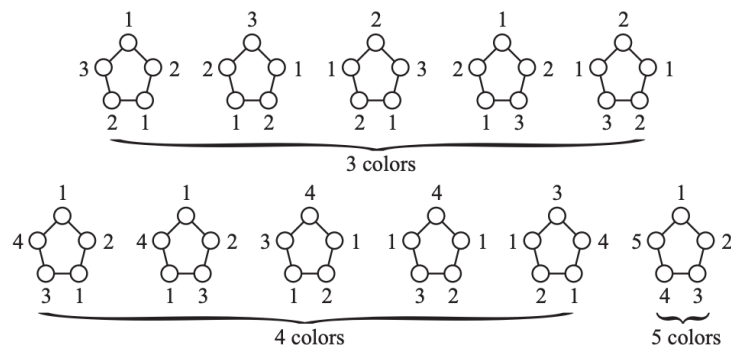
VCU Discrete Mathematics Seminar

Using Graph Theory to Derive Inequalities for the Bell Numbers

Prof Hadrien Mélot
Algorithms Lab, Computer Science
Department, University of Mons
(Belgium)

Wednesday, Sept. 22
4145 Harris Hall, and Zoom
1:00-1:50 EDT

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



The Bell numbers count the number of different ways to partition a set of n elements while the graphical Bell numbers count the number of non-equivalent partitions of the vertex set of a graph into stable sets. This relation between graph theory and integer sequences has motivated us to study properties on the average number of colors in the non-equivalent colorings of a graph. This led to an approach allowing to discover new non trivial inequalities for the Bell numbers.

For the DM seminar schedule, see:

<https://www.people.vcu.edu/~clarson/dms.html>