

Math/Computer Science Colloquium Series
Student Summer Research:

Voting Paradoxes

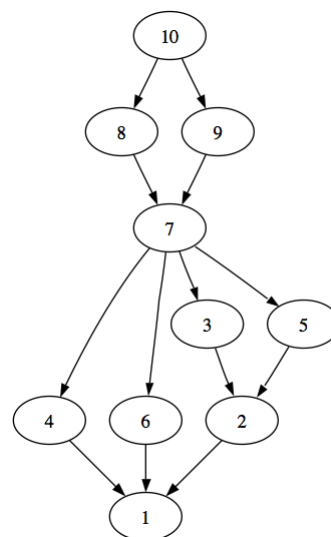
Lisa Moats



Referendum elections often require voters to cast ballots simultaneously on multiple proposals, some of which may be inter-related. When a voter's preferences on one proposal depend on the known or predicted outcomes of other proposals, the voter's preferences are said to be nonseparable. In her award-winning talk, Lisa will explore ways to mathematically model and analyze various forms of nonseparability. She conducted this research at Grand Valley State University this past summer.

Lattices

Sam Benidt & Will Hall



Cyclic groups are number systems like a clock face, where after 12 we wrap around to 1 again. A cyclic group exists for every positive integer n , not just for 12, and each cyclic group has a corresponding lattice of supercharacter theories. During summer research at Concordia, Will and Sam discovered for which n the lattice is upper semimodular and/or lower semimodular. Their talk promises to be full of fun diagrams.

Tuesday, November 10

2:45 p.m.

Ivers 218

Homemade Cookies!