Graph Saturation in Color
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Thursday, February 5th
11:30 a.m.
Science Center 200

In this talk, we will discuss topics relating to forbidden structures in graphs. After a short introduction to general graph theory, we delve into graph saturation, Ramsey theory, and a hybrid of the two. Graph saturation deals with forbidding a certain local structure, but being somehow "close" to having the forbidden structure. Ramsey theory adds colors to the mix, and balances a number of different forbidden structures. A hybrid of graph saturation and Ramsey theory will be introduced, along with new results and an important open conjecture.

The talk will not assume any prior knowledge of graph theory. New results in this talk are the joint work of Michael Ferrara, Jaehoon Kim, and Elyse Yeager.

Lunch will be available for colloquium participants after the talk.