1163-05-832 **Benjamin Braun** and **Julianne Vega*** (`jvega30@kennesaw.edu`). *Hajos-type Constructions and Neighborhood Complexes.*

Any graph G with chromatic number k can be constructed by iteratively performing certain graph operations on a sequence of graphs starting with K_k, resulting in a variety of Hajos-type constructions for G. Finding such a construction for a given graph or family of graphs is a challenging task. In this talk, I will present our results which imply that for a graph G with a highly-connected neighborhood complex, the end behavior of the construction is quite restricted. Time permitting I will share results of computational experiments. (Received September 13, 2020)