1135-03-2416 Clinton T Conley*, clintonc@andrew.cmu.edu. Unfriendly colorings: a descriptive set-theoretic view.

Given a graph, a red/blue coloring of its vertices is *unfriendly* if every red vertex has at least as many blue neighbors as red neighbors, and vice-versa. Such colorings always exist for finite graphs, but for infinite graphs their existence quickly becomes quite subtle. We investigate certain descriptive set-theoretic analogs of these colorings with various definability constraints.

This talk may include work with Alexander Kechris, Andrew Marks, Robin Tucker-Drob, and Spencer Unger. (Received September 26, 2017)