1127-05-367 Paul Horn, Pfender Florian* (florian.pfender@ucdenver.edu) and Michael Tait. Clique Degrees in Random Graphs. Preliminary report.

One of the first theorems one may learn in graph theory is that every graph on at least two vertices contains two vertices of equal degrees. One can define the K_r -degree of a vertex as the number of K_r s that vertex lies in. Inspired by the previous theorem, we ask if a similar statement is true for K_r -degrees.

The answer is no, finding a graph with all different K_r -degrees is an interesting exercise. But is this outcome typical? To this end, we study the question for random graphs. (Received February 07, 2017)