Conditions for vertex removal in (k,g)-graphs

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A (k, g)-graph is graph with regularity k and girth g. Since 1960's it is known that (k, g)-graphs exists for every pair of k and g. Since then the goal is to find (k, g)-cages (cage is smallest possible (k, g)-graph). Although some cages had been found it is very much unexplored territory. People try at least to improve currently best known lower bounds of so called records. In this lecture we will look at the ways how people try to improve these records and how our methods differ from the currently know methods.