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A review on the Erdős-Ko-Rado theorem for uniform set partitions and perfect matchings

A "perfect matching" in a graph, is a set of edges by which every vertex is covered exactly once. A perfect matching is in fact a special case of a "uniform set partition". A uniform set partition is a partition in which all parts have the same size. In this talk, we will review some results on the Erdős-Ko-Rado theorem for perfect matchings and uniform set partitions. Particularly, we focus on 2-intersecting and set-wise 2-intersecting perfect matchings and partially 2-intersecting uniform set partitions.