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Intersecting Families of Perfect Matchings
A family of perfect matchings of $K_{2 n}$ is $t$-intersecting if any two of its members have $t$ edges in common. It has been conjectured that such a family cannot have size larger than $(2(n-t)-1)$ !! for sufficiently large $n$, and that the extremal families are precisely those comprised of every perfect matching containing a fixed set of $t$ disjoint edges. We discuss a proof of this conjecture, emphasizing the algebraic aspects and techniques surrounding the proof.

