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Turan function of even cycles

The Turan function $ex(n, F)$ is the maximum number of edges in an F -free graph on n vertices. Let C_k denote the cycle of length k . We prove that if k is fixed and n tends to infinity, then $ex(n, C_{2k}) \leq (k - 1 - o(1)) n^{1+1/k}$, improving the previously best known general upper bound of Verstraete (2000) by a factor $8 + o(1)$ when $n \gg k$.