

Minors in large graphs

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Abstract. In this talk I shall report about problems of the following type. Given an infinite family $\{G(r, s)\}$ of graphs depending on two parameters r and s . When do there exist two functions $f(r)$ and $N(r, s)$ such that every graph H with connectivity at least $f(r)$ (or edge-density at least $f(r)$) and at least $N(r, s)$ vertices contains a minor isomorphic to $G(r, s)$ (or a subdivision of $G(r, s)$)? The results in my talk are joint work with J. Maharry, B. Mohar, K. Kawarabayashi and A. Kostochka.