

On a reformulation of Hadwiger's Conjecture

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Abstract. Hadwiger's conjecture states that any graph with chromatic number k contains the complete graph with k vertices as a minor. A reformulation of the conjecture was given by means of graph homomorphism in minor-closed classes, [1]. That is, the conjecture was restated as equivalent to a conjecture with two parts: (i) every minor-closed class, C , has a homomorphism bound in C and (ii) the homomorphism bound is a complete graph. We prove (i) implies (ii). This is joint work with R. Naseraser.

[1] J. Nešetřil, P. O. De Mendez, *Coloring and Homomorphisms of Minor Closed Classes*, Goodman-Pollack Springer, Comb. & Algorithms series.