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Hedetniemi conjecture for strict vector chromatic number

Hedetniemi in 1966 conjectured that chromatic number of a product of two graphs is equal to the minimum of the chromatic numbers of the two factors; the product is taken in the category of graphs with homomorphisms. We prove a variant of this where chromatic number is replaced by strict vector chromatic number, better known as $\vartheta(\bar{G})$, the Lovász' theta function of the complement.