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The parameters of Fibonacci and Lucas cubes

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Abstract: Motivated by the conjectures from Castro, et al. in 2011, in this paper we use integer programming formulations for computing the domination number, the 2-packing number and the independent domination number of Fibonacci cubes and Lucas cubes for $n \leq 13$.

Keywords: Fibonacci cubes, Lucas cubes, domination number, 2-packing number.

Math. Subj. Class.: 05C69, 05C25



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Parametri Fibonaccijevih in Lucasovih kubov

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Povzetek: Motivirani z domnevami, ki so jih postavili Castro in dr. leta 2011, v tem članku uporabimo formulacije celoštevilskega programiranja za izračun dominacijskega števila, števila 2-pakiranj ter neodvisnega dominacijskega števila Fibonaccijevih kubov in Lucasovih kubov za $n \leq 13$.

Ključne besede: Fibonaccijevi kubi, Lucasovi kubi, dominacijsko število, število 2-pakiranj.

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