Morphisms and Almost-Periodicity

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Abstract

We give a criterion, using graphs, to decide whether an morphic word on a finite alphabet is (effectively) almost-periodic. We present a non-almost-periodic system of almost-periodic predicates and give an example of structure $\langle \omega; S, <, \mathcal{P} \rangle$, where $\mathcal{P}$ is a set of predicates, whose first-order theory is decidable but which does not admit elimination of quantifiers.

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