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A note on a conjecture on consistent cycles

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Abstract

Let Γ denote a finite digraph and let G be a subgroup of its automorphism group. A directed cycle C of Γ is called *G-consistent* whenever there is an element of G whose restriction to C is the 1-step rotation of C . In this short note we prove a conjecture on *G-consistent* directed cycles stated by Steve Wilson.

Keywords: Digraphs, consistent directed cycles.

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Opomba o domnevi o konsistentnih ciklih

Povzetek

Naj Γ označuje končen usmerjen graf in naj bo G podgrupa njegove grupe avtomorfizmov. Usmerjeni cikel C grafa Γ je *G-konsistenten*, če obstaja element grupe G , katerega zožitev na C je rotacija cikla C za en korak. V članku dokažemo domnevo Steva Wilsona o G -konsistentnih usmerjenih ciklih.

Ključne besede: Usmerjeni grafi, konsistentni usmerjeni cikli.