

Ringi Kim (Waterloo)

Coloring Digraphs Containing No Cycles With Two Blocks

Abstract for the Combinatorics Seminar 2017 April 25

A cycle with two blocks $c(k,l)$ is an oriented cycle consisting of two internally disjoint directed paths of lengths at least k and l , respectively, from a vertex to another one. In 2007, Addario-Berry, Havet, and Thomassé asked if every strongly connected digraph D containing no $c(k,l)$ has chromatic number at most $k+l-1$. In this talk, I show that such a digraph D has chromatic number at most $O((k+l)^2)$, improving the previous upper bound $O((k+l)^4)$ of Cohen, Havet, Lochet, and Nisse.

This is joint work with Seog-Jin Kim, Jie Ma, and Boram Park.

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