

Jackie Kaminski (Binghamton)

Circular Flow on Bidirected Graphs

Abstract for the Combinatorics Seminar 2007 December 4

Bouchet's Conjecture states that every signed graph (equivalent to a bidirected graph) admits a nowhere zero 6-flow.

I will introduce signed and bidirected graphs, circular and integral flows on signed graphs, and the matroid of a signed graph. The main result of this talk will be proving an upper bound on the circular flow number of a signed graph based on the edge connectivity of the underlying graph, which is a partial result towards Bouchet's Conjecture. The proof of this theorem will make use of some elementary facts about the matroid of a signed graph.

The results in this talk are from a paper by Raspaud & Zhu by the same title.

From:

<https://www2.math.binghamton.edu/> - **Binghamton University Department of Mathematical Sciences**

Permanent link:

<https://www2.math.binghamton.edu/p/seminars/comb/abstract.200712kam>

Last update: **2020/01/29 19:03**

