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***A combinatorial property and power graphs of semigroups***

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**Abstract:** Research on combinatorial properties of sequences in groups and semigroups originates from Bernhard Neumann's theorem answering a question of Paul Erdős. For results on related combinatorial properties of sequences in semigroups we refer to the book [3]. In 2000 the authors introduced a new combinatorial property and described all groups satisfying it. The present paper extends this result to all semigroups.

**Keywords:** sequences, power graphs, semigroups

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