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Polygonal Graphs

Abstract for the Combinatorics Seminar 2010 September 28

A near-polygonal graph is a (simple) graph Γ which has a set C of cycles of length m , for some positive integer m , such that each 2-path of Γ is contained in exactly one cycle in C . If m is the girth of Γ then the graph is called polygonal. I will discuss basic results and recent progress, with a focus on a construction involving the derived graph of a voltage graph.

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

