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Graphs and Dual Graphs of Abstract Polytopes,

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Abstract: A general and convenient framework for investigating the combinatorial structure of simple polytopes is given by a set of three axioms (proposed by G. B. Dantzig) which define abstract polytopes. These axioms are discussed and it is shown that, combinatorially, simple polytopes constitute a proper subclass of abstract polytopes. The purpose of the paper is to study the graphs and dual graphs of abstract polytopes and in particular, to show that some well-known properties of graphs of polytopes are satisfied also by the graphs and dual graphs of abstract polytopes. (Author)

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