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The Acyclotope and Hyperplanes of a Graph

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The acyclotope $A(G)$ (“graphical zonotope” to Postnikov) is the convex hull of the net in-degree vectors (in-degree – out-degree) of all acyclic orientations of a graph G ; also, of the net-degree vectors of all orientations of G . The acyclic vectors are the vertices of the acyclotope. The acyclotope is a zonotope that is dual to the hyperplane arrangement of G ; the vertices of $A(G)$ correspond to the regions of the arrangement, and the faces of $A(G)$ correspond to the faces of the arrangement. I will explain all this.

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