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ON THE CUT POLYHEDRON

Michele CONFORTI¹, Giovanni RINALDI² and Laurence WOLSEY³

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Abstract

The cut polyhedron $cut(G)$ of an undirected graph $G = (V, E)$ is the dominant of the convex hull of all of its nonempty edge cutsets. After examining various compact extended formulations for $cut(G)$, we study some of its polyhedral properties. In particular, we characterize all of the facets induced by inequalities with right-hand side at most 2. These include all of the rank facets of the polyhedron.

¹Dipartimento di Matematica Pura ed Applicata, Università di Padova, Italy.

²IASI-CNR, Italy.

³CORE, Université Catholique de Louvain, Belgium. E-mail: wolsey@core.ucl.ac.be

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