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Line-Shelling Zonotopes of Polytopes

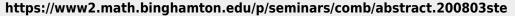
Abstract for the Combinatorics Seminar 2008 March 4

A line shelling of a polytope P is a permutation of its facets which corresponds to a particularly nice way of constructing P. The set of all shellings of P by lines through the origin is the vertex set of yet another polytope, the line-shelling zonotope of P. I'll describe the construction of this polytope and discuss some of its properties.

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