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### Line-Shelling Zonotopes of Polytopes

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#### Abstract for the Combinatorics Seminar 2008 March 4

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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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