

## Parity Graphs for Convex Drawings

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A convex drawing of a graph  $G$  of order  $n$  is a realization of  $G$  in the plane where the  $n$  vertices of  $G$  are mapped into the vertices of a convex  $n$ -gon and where the edges of  $G$  are mapped into the corresponding (rectilinear or curved) diagonals inside of the  $n$ -gon such that two diagonals (edges) have at most one point in common either a vertex or a crossing. - For a convex parity graph the numbers of crossings in all of its convex drawings are in one residue class modulo 2 on  $ly$ . - For convex parity graphs a criterion, methods of constructions, and some classes of these graphs are presented. - (This is common work with Alewyn P. Burger, South Africa.)