

## **Crossings of Pseudo Diagonals in Convex Polygons**

Heiko Harborth, TU Braunschweig, Germany

What is the minimum number of crossings of diagonals in a convex  $n$ -gon if multiple crossings are counted once only? The answer is known for regular  $n$ -gons in the rectilinear case (straight line diagonals). What about pseudo diagonals, that is, curved diagonals such that two diagonals have at most one crossing and two diagonals with a common vertex do not have a crossing? Some first partial results are presented.