The number of intersections of two simple polygons: an almost optimal bound joint work with Eyal Ackerman and Balázs Keszegh to appear at SoCG 2020.
 $m+n-3$

$m \cdot n-(m+n-3)$

J. Černý, J. Kára, D. Král', P. Podbrdský, M. Sotáková, and R. Šámal (2013):

$$
\begin{gathered}
m n-(m+\pi / 6)\rceil \text { for } m>n, \\
m n-\left(m+\frac{n}{2}\right)
\end{gathered}
$$


$C C\left(p_{\text {pi }}\right) \neq C C($ pi+1 $)$


$\rightarrow(H \quad 1 \cdot$
$\mathrm{mn}-(\mathrm{m}+(\mathrm{n}-5) / 2)$

| $h$ |  |
| :---: | :--- |
| $H$ | 0.3 |
|  | 03 |
| $(H)$ | 0.4 |
| $(H)$ | 0.5 |

h:
h:


