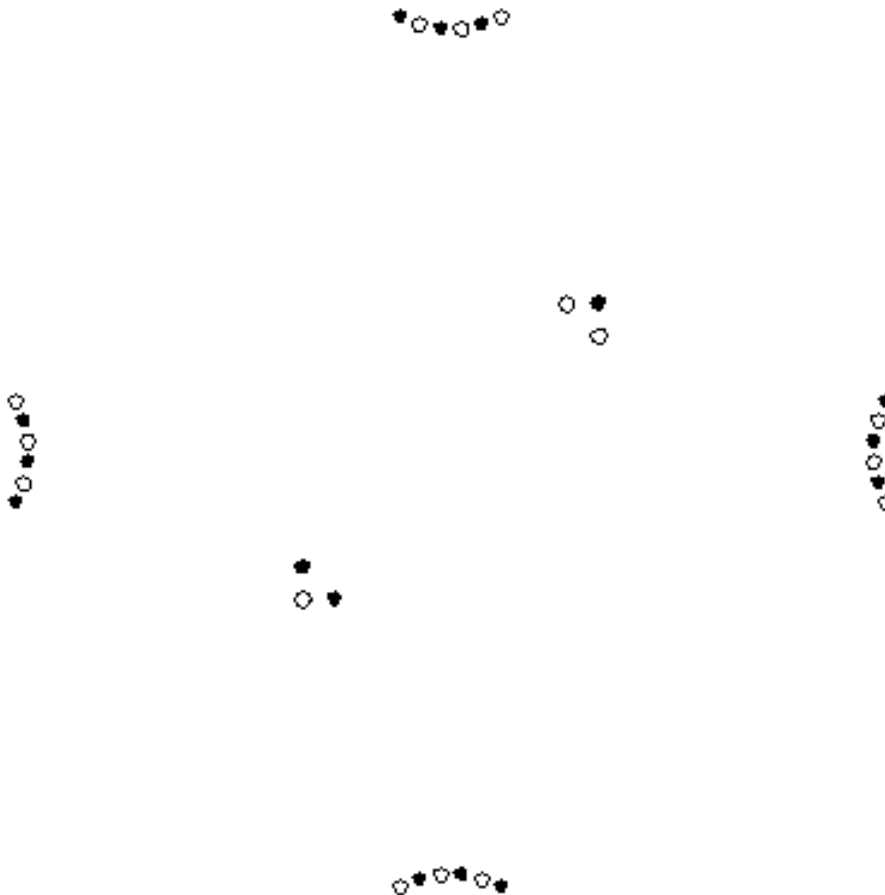


30 Two-Colored Points with No Empty Monochromatic Convex Fourgons

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In [2], the authors consider the problem of finding the maximum number of points colored with 2 colors that contain no empty monochromatic convex fourgons, and gave the lower bound of 18. In [1], the author increased this lower bound by giving such a configuration of 20 points. We exhibit below 30 two-colored points, no three points colinear, with no empty monochromatic convex fourgons.



References

- [1] P. Brass, Empty monochromatic fourgons in two-colored point sets. *Geombinatorics XIV* (2004) 5-7.
- [2] O. Devillers, F. Hurtado, G. Károlyi, and C. Seara, Chromatic variants of the Erdős-Szekeres theorem. *Comput. Geom. Theory Appl.* **26** (2003) 193-208.