

# Metric dimension of the multiple antiprism graphs

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Imran et al. in [1] prove that metric dimension of some classes of convex polytopes, especially of double antiprism  $A_n$  (noted also with  $Q_n$  in other papers) is constant, and equal to three. Authors in [2] prove that infinite classes of convex polytopes generated by wheel related graphs have unbounded metric dimension, and ask for the characterization of graphs with unbounded metric dimension.

In order to answer the asked questions we will investigate metric dimension of the multiple antiprism graphs.

## References

- [1] M. Imran, A.Q. Baig, M.K. Shafiq and A. Seniničková-Feňovčíková, Classes of convex polytopes with constant metric dimension, *Util. Math.* **90** (2013), 85–99.
- [2] M. Imran and H.M.A. Siddiqui, Computing the metric dimension of convex polytopes generated by wheel related graphs, *Acta Math. Hungar.* **149**(1) (2016), 10–30, DOI 1007/s10474-016-0606-1