

Acknowledgement of priority

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In our recent paper [1] we prove a fractional Helly type theorem for boxes in R^d . This short note is to acknowledge priority: in 1980 Meir Katchalski [4] proved exactly the same result and in 1988 Jürgen Eckhoff [2] proved the same result in much more generality. In fact, Eckhoff established an upper bound

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⁵ theorem for the f -vectors of finite families of boxes in R^d from which his result is derived. Besides apologies for our ignorance we would like to mention that Eckhoff extended his results further in a more recent paper [3].

References

- [1] I. Bárány, F. Fodor, A. Martínez-Pérez, L. Montejano, D. Oliveros, A. Pór. A fractional Helly theorem for boxes, Comp. Geom. Theory Appl. 48 (2015), 221–224.
- [2] J. Eckhoff. Intersection properties of boxes, Part I: An upper-bound theorem, Israel J. Math 62 (1988), 283–301.
- [3] J. Eckhoff. The upper-bound theorem for families of boxes in R^d , Matematika 34 (2007), 25–34.
- [4] M. Katchalski, Boxes in R^n – a “fractional” theorem, Canad. J. Math. 32 (1980), 831–838.