More on hyperspaces of knots

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In a continuation of our study on Vietoris hyperspaces of simple closed curves in \mathbb{R}^2 or in \mathbb{R}^3 , we present some new properties of the hyperspaces. They are strongly locally contractible, both in the topological and PL-categories. Moreover, the hyperspace of polygonal knots is a σ -compact, strongly countable-dimensional ANR which is an infinitedimensional Cantor manifold. The hyperspace of tame knots is an absolute Borel, strongly infinite-dimensional Cantor manifold.

References

[1] P. Krupski and K. Omiljanowski, On hyperspaces of knots and planar simple closed curves, arXiv:2401.13084v2

^{*}This is joint work with K. Omiljanowski (University of Wrocław).