ERRATUM TO: “A NOTE ON A RESULT BY M. BOGNÁR CONCERNING THE HAHN–MAZURKIEWICZ THEOREM”

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In Remark 2(a) of [2] it is wrongly stated that the property in Bognár’s theorem (Theorem A in [1] or Corollary 1 in [2]) characterizes local connectedness in the class of generalized continua (i.e., metrizable locally compact connected spaces).

Recall that a generalized continuum X has *Bognár’s property* if given any subcontinuum $M \subset X$ and $x, y \in M$ there exists a continuous map $f : [0, 1] \rightarrow X$ such that $f(0) = x$, $f(1) = y$ and $M \subset f([0, 1])$.

The generalized continuum Y depicted in the figure below is not locally connected but it satisfies Bognár’s property since any subcontinuum lies in one of the three arc components of Y and each of these verifies trivially Bognár’s property.

In fact what is proved in ([2], Remark 2(a)) is that Bognár’s property characterizes local connectedness in the class of increasingly connected generalized continua. Here by an *increasingly connected* space X we mean that $X = \bigcup_{n=1}^{\infty} X_n$ is the countable union of subcontinua such that $X_n \subset \text{int}X_{n+1}$ for all $n \geq 1$.

References

- [1] M. Bognár, On the Hahn–Mazurkiewicz theorem, *Acta Math. Hungar.*, **102** (2004), 37–83.
- [2] T. Fernández and A. Quintero, A note on a result by M. Bognár concerning the Hahn–Mazurkiewicz Theorem, *Acta Math. Hungar.*, **110** (2006), 315–322.