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Correction to the paper: Covering ${}^{\omega}\omega$ by special Cantor sets

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CORRECTION

to the paper “Covering ${}^{\omega}\omega$ by special Cantor sets”

Gary Gruenhage, Ronnie Levy

We wish to point out that Theorem 2.12 on page 502 in our paper [1] is incorrect as stated. The cardinal invariant $\text{cov}(\mathcal{N})$ in its statement should be $\text{cof}(\mathcal{N})$. That is, the theorem should state that $c(\mathbb{P}, f)$ is equal to the *cofinality* of the null ideal, not the *covering number* (for functions f having infinite limit). The two instances of $\text{cov}(\mathcal{N})$ in the proof of 2.12 should be changed to $\text{cof}(\mathcal{N})$ as well. With these changes, the statement and proof of Theorem 2.12 are correct.

This change in the theorem effects changes in the text in two places. First, in the second line after the proof of Theorem 2.12, the sentence “We now know $\mathfrak{v} = \text{cov}(\mathcal{N})$.” should be replaced by “We now know $\mathfrak{v} = \text{cof}(\mathcal{N})$.”

Secondly, in the second to last paragraph of the introduction (page 498), the phrase

“in fact we will show that $\mathfrak{v} = \text{cov}(\mathcal{N})$, the least cardinal of a collection of Lebesgue measure 0 sets covering the real line.”

should be replaced by

“in fact we will show that $\mathfrak{v} = \text{cof}(\mathcal{N})$, the least cardinal of a collection of Lebesgue measure 0 subsets of the real line with the property that every measure 0 set is contained in some member of the collection.”

REFERENCES

- [1] Gruenhage G., Levy R., *Covering ${}^{\omega}\omega$ by special Cantor sets*, Comment. Math. Univ. Carolinae **43** (2002), 497–509.

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