

**Kamburelis, A.**

**Some recent results on Cohen algebras.** (English) Zbl 0968.03059  
*Acta Univ. Carol., Math. Phys.* 41, No. 2, 23-38 (2000).

The Cohen algebra  $\mathcal{C}_X$  is the Boolean algebra of regular open subsets of the generalized Cantor space  $\{0, 1\}^X$ . A category algebra is the direct sum of countably many Cohen algebras.

This paper deals with the question whether a complete subalgebra of a category algebra is a category algebra. This can be reduced to the question whether a complete subalgebra of a Cohen algebra is a category algebra. It was shown by Koppelberg that this is true if  $|X| \leq \omega_1$ , Later on it was shown by Koppelberg and Shelah that there exists (in ZFC) a subalgebra of  $\mathcal{C}_{\omega_2}$  which is not a category algebra. Here the author gives a simplified presentation of the last result.

Reviewer: [Martin Weese \(Potsdam\)](#)

**MSC:**

[03E40](#) Other aspects of forcing and Boolean-valued models  
[06E05](#) Structure theory of Boolean algebras

**Keywords:**

[Cohen algebra](#); [Boolean algebra](#); [generalized Cantor space](#); [category algebra](#)

**Full Text:** [EuDML](#)