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Section:

8. Analysis

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A supersimple algebra
A supersimple algebra is a (real or complex) topological algebra A, $\dim A > 1$, which has no proper closed subalgebras. We shall describe an example of a supersimple algebra (with separately continuous multiplication) given in [1] and discuss some related open questions.
Reference: [1] W. Żelazko, A semitopological algebra without proper closed subalgebras, Coll. Math. 74 (1997), 239-242.