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Summary: We give an example of a locally A-convex algebra which is neither m- convex nor uniformly A-convex. This example is used to answer some question on A-convex algebras. We especially show that Michael’s problem (in m-convex algebras) is equivalent to the same problem in A-convex algebras. Finally some questions on bounded sets in A-convex algebras are studied.

MSC:
46H05 General theory of topological algebras

Keywords:
example of a locally A-convex algebra which is neither m-convex nor uniformly A-convex; Michael’s problem; bounded sets in A-convex algebras