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versity of Mexico, 04510 Mexico D.F., Mexico, *On  
the  $m$ -convexity of  $C_b(X)$ .*

ABSTRACT. Let  $X$  be a topological space and  $C_b(X)$  the algebra of bounded continuous complex functions defined in  $X$ , with the strict topology  $\beta$  defined by R. Giles. In this paper a necessary and sufficient condition is given in order that  $C_b(X)$  be an  $m$ -convex algebra, when  $X$  is a completely regular Hausdorff space. The density of principal ideals in this algebra and an algebra of analytic sequences are also studied.