SOME REMARKS ON CANCELLATION LAW AND EMBEDDING THEOREMS FOR ABSTRACT STRUCTURES OF CONVEX SETS

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Abstract - The classical R˚adstr¨om - H¨ormander theorem on embedding states that an abstract cone of compact and convex subsets of a normed space can be embedded algebraically and isometrically into an appropriate linear space. This theorem has many generalizations, including at least: replacing normed spaces with a broader class of spaces, e.g., locally convex or linearly metric spaces; replacing the class of compact and convex subsets with a broader class of sets, e.g., closed, bounded, and convex sets; and replacing isometry with a linear homeomorphism. The aim of the presantation is to present results concerning the widest possible unification of such generalizations by transferring this type of result to abstract semigroups possessing certain special properties.